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Please note: All information in this catalog is the latest available at the time of publication approval. Daman reserves the right to make changes and to discontinue products without notice or obligation.

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Hydraulic Valve Manifolds 2005 Catalog

MANIFOLDS LOW COST PARALLEL MANIFOLDS STANDARD FLOW EXPERT PARALLEL MANIFOLDS STANDARD FLOW PARALLEL MANIFOLDS BOTTOM PORTED HIGH FLOW PARALLEL MANIFOLDS INTEGRITY HIGH FLOW PARALLEL MANIFOLDS - BOTTOM PORTED HIGH FLOW PARALLEL MANIFOLDS FLANGE PORTS EXTRA HIGH FLOW PARALLEL MANIFOLD EXPERIENCED ENGINEERS STANDARD FLOW SERIES MANIFOLDS HIGH FLOW SERIES MANIFOLDS STANDARD FLOW PARALLEL MANIFOLDS HIGH FLOW PARALLEL MANIFOLDS HIGH FLOW PARALLEL MANIFOLDS FLANGE PORTS SERIES MANIFOLDS STANDARD FLOW PARALLEL MANIFOLDS HIGH FLOW HIGH PERFORMANCE PARALLEL MANIFOLDS HIGH FLOW PARALLEL MANIFOLDS FLANGE PORTS SERIES MANIFOLDS STANDARD FLOW PARALLEL MANIFOLDS FLANGE PORTS MOUNTING HARDWARE LC MANIFOLD MOUNTING KITS COVER PLATES CROSSOVER COVER PLATES COVER PLATES WITH PILOT PORTS MOUNTING HARDWARE DIRECTIONAL VALVE ADAPTORS COVER PLATES WITH PILOT PORTS VALVE ADAPTORS FOR D05 MANIFOLDS VALVE ADAPTORS FOR D05 MANIFOLDS WITH PILOT PORTS SERVO-DIRECTIONAL ADAPTORS RELIEF VALVE ADAPTORS “OBSOLETE VALVE” ADAPTORS MOUNTING HARDWARE SERVO VALVE CROSS REFERENCE SUBLATE TAPPING PLATES DIN CARTRIDGE VALVE BODIES HEADER A

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Hydraulic Valve Manifolds

Better System Design Begins with a Manifold.

Daman Products Company Inc.

Daman provides outstanding technological and service leadership beyond customer's expectations so as to promote their interest, thereby ensuring continuous opportunities for Daman employees.

This philosophy statement drives the organization. As a result, Daman has developed a solid reputation as one of the best suppliers customers have. Each Daman team member is driven to provide long-term, reliable service that exceeds customer expectations. Daman offers a complete line of hydraulic valve manifold products comprised of two basic groups; Custom Engineered Products and Standard Products. All components are manufactured to tolerances that meet or exceed the National Fluid Power Association's (NFPA) as well as the International Standards Organization's (ISO) specifications. Daman has created a streamlined system for estimating, engineering, and manufacturing Custom Engineered Products from as little information as a hydraulic schematic and component bill of materials. Daman has also developed the most comprehensive catalog of Standard Manifold Products in the world. Our product lines provide every customer with over one million choices to refine and enhance their hydraulic system, ranging from ISO 02 valve patterns through ISO 10.

Learn more about Daman's Product Innovations.

Daman's New Product Information Series is produced to help users understand individual product and process innovations, and product service issues about the Hydraulic Manifold Industry, Daman customer benefit programs, and specific product applications and technologies. The series is available on the web site: www.damanifolds.com

Daman's Newsletter is mailed quarterly. Each issue of "Hydraulic Manifold News" features information-based articles discussing industry trends, Daman news, customer service innovations and engineering solutions. The series is available on the web site: www.damanifolds.com

The Custom Manifold Concept.

Custom hydraulic manifolds are usually created because there is a new requirement or set of specifications that cannot be satisfied by a Standard Manifold design.

In many cases these manifolds begin life as freehand schematics on an engineer's pad, but in every instance, the complexities of efficient and cost-effective Custom Engineered Manifolds must eventually be put in place by an experienced, qualified team.

Daman employees combine 122 years of experience to cover ALL the details.

Daman's Custom Manifold Group has over 122 years of combined experience with Custom Manifold circuit diagrams, cost quotations, manifold design, technical support, and trouble shooting. Customers can provide a freehand schematic and rest assured that Daman Custom Manifold Group will utilize their expertise and experience to cover all of the details, from your freehand schematic to manifold technical support after the sales, and absolutely every detail in between.

The Daman Difference.

Most manufacturers today have the latest tools and technology, but few combine today's tooling and technology advances with creativity, expertise, ethics, and integrity.

Each Daman Design Team member has a proven track record of taking a rough concept and refining, communicating, and resolving critical details that distributors and end users typically worry about. Combine this with Daman Products' advanced manufacturing and marketing principles, and the difference is clear. Daman Products employs a level of expertise and partnership philosophy that can help you win more work and build better relationships than any other manufacturer you have ever dealt with. Demand Daman and experience the difference.

An unmatched combination of machinery, experience and dedication.

Daman's commitment to excellence in manufacturing permeates the entire organization, from the training and dedication of every member of each production team, to the major corporate investment in technology and equipment. The testimony to the success of this effort lies in the extremely high delivery accuracy and the remarkably high quality track record that Daman distributors enjoy.

800 pound, integrated circuit manifold with DIN Cartridge logic for counterbalance and 1000 GPM regen capabilities.

Custom manifold quality is the standard product at Daman. The commitment to quality starts with our own operation by delivering high-caliber products. Daman continues to train and seek out the most committed people to expand on leading-edge technology, processes and systems.

Flexibility to lot sizes of one piece to thousands of pieces. Simple circuit blocks to complex integrated circuits.

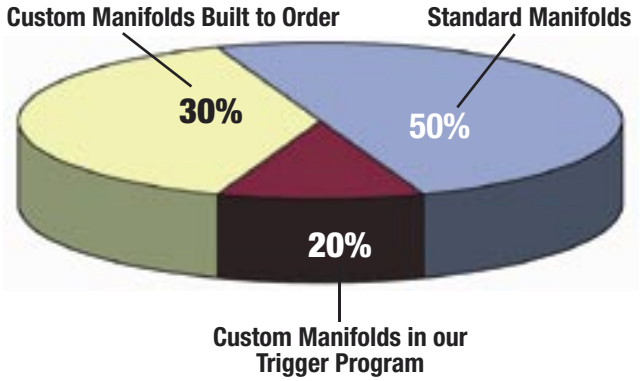
RFQ Details – Required.

- Hydraulic Circuit Diagram.
- BOM list of valve part numbers used.
- Port sizes.
- Port type (SAE, NPTF, Flange, Metric, etc.).
- Material type (Aluminum, Ductile Iron, etc.).

RFQ Details – Optional.

- Specific layout requirements (Valve or port locations, etc.).
- Surface coating requirements.
- Anticipated annual usage.

Daman's Product Mix

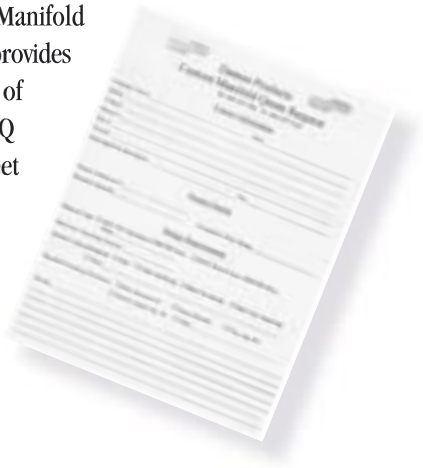


Capability Highlights.

- Daman has manufactured Custom Manifolds since 1976.
- 50% of Daman's capacity is devoted to Custom Manifolds.
- Custom Manifold quotations processed in 24 hours or less.
- More than 100 Custom Manifold quotations processed every week.
- 31.5% of Custom Manifold quotations are converted to orders.
- 99.51% manufacturing accuracy rating.
- 99.33% design accuracy rating.
- 97.5% on-time delivery rating.
- Full-time design/support staff with over 122 years combined experience.
- State-of-the-art design capabilities using manifold-specific software.
- World-class, Cellular Manufacturing utilizing Lean processes and principles.
- 10 CNC Machining Centers.
- Inventory of over 700 cartridge cavity tools for all major valve manufacturers.

Visit Daman on the Web for faster service.

Daman Products Custom Manifold Quote Request worksheet provides customers with a fast way of gathering the required RFQ information. The worksheet is available in PDF format on the Daman Web site: www.damanifolds.com.



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Hydraulic Valve Manifolds

Better System Design Begins with a Manifold.

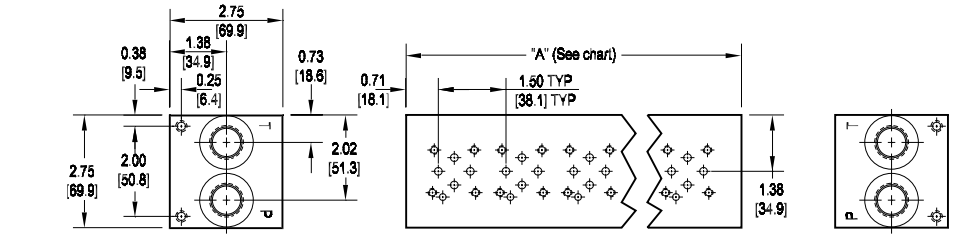
STANDARD MANIFOLDS

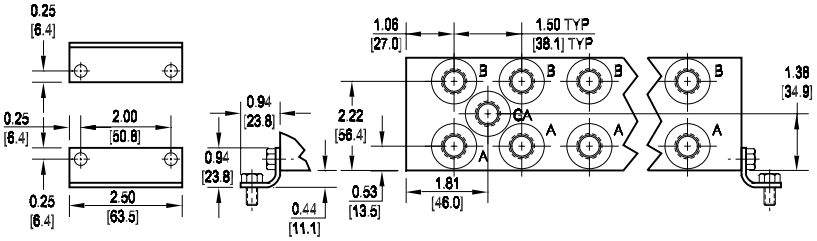
Daman

Subplate Mtd. Valve Cross Reference

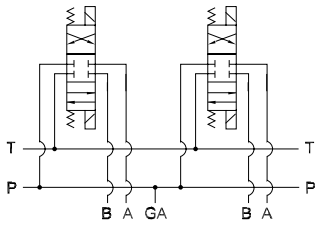
Daman / NFPA pattern no.	ISO no.	Bosch	Contin-ental	Denison	Nachi	Parker	Rexroth	Rivett	Vickers
D02	4401-02-01	--	--	--	--	--	--	--	DG4V-2
D03	4401-03-02	FD4-**HS-*01	V*D03M E*03M V*5M	A-3D01	SA-G01 SS-G01 DMA-G01	D1VW	WE6	65**-01	(K)DG4V-3
D05	4401-05-04	FD4-D*KS-*02	ED05M V*12M	A-3D02	SS-G03 DMA-G03	D3W	WE10	65**-02	DG4S*-01 DG4V-4 (K)DG4V-5
D05 Alt. A (D05HE)	4401-05-05	--	--	--	--	--	WEH10	--	(K)DG3V-5 (K)DG5V-5
D05 Alt. B (D05H)	--	FD4-**HS-*02	--	--	--	D31W	--	66**-D05H	DG5S4-02
D06	--	FD4-**HS-*04	--	--	--	--	--	--	DG4S4-02 (obsolete)
D07	4401-07-06	081WV16P1	--	A-3D03	DSS-G04	--	WEH16	--	DG5S4-04 (K)DG3V-7 (K)DG5V-7
D08	4401-08-07	FD4-**HS-*06	V*D08M ED08M *VS50M	A-3D06	DSS-G06 HF(S)-G06	D61VW	WEH22	6600-06	DG5S-(H)8 (K)DG3V-8 (K)DG5V-8
D10	4401-10-08	FD4-**HS-*10	VSD10M V*100M*	A-3D10-3S	DSS-G10 HF(S)-G10	D101VW	WEH32	--	DG5S4-10 (K)DG3V-10 (K)DG5V-10
2F06	6263-06-05	FF2-*HS*-02*	F12M	2F1C02	(C)FT-G02	FG3PKC	2FRM10	--	F(C)G-02
2F07	6263-07-09	FF2-*HS*-03*	--	2F1C03	FT-G03	--	2FRM16	--	F(C)G-03
P06	6264-06-07 5781-06-07	FD2-PTHS-*03 081DV10P1	--	R4*03	--	PR*3M	S*10P DZ*10**	P48**03	R(C)G-03
P08	6264-08-11 5781-08-10	FD2-PTHS-*06 081DV25P1	E*35M	R4*06	HT(S)-G06	PR*6M	S*20P DZ*20**	P48**06	R(C)G-06
P10	6264-10-15 5781-10-13	FD2-PTHS-*10	--	R4*10	HT(S)-G10	PR*10M	S*30P DZ*30**	P48**10	R(C)G-10
R06 (I06)	6264-06-09	081DV10P3	--	--	RI-03	--	DB**10	--	CG-03
R08	6264-08-13	FE1-PB**-S06* 081DV25P3	--	--	RI-06	--	DB**20	--	--
R10	6264-10-17	FE1-PB**-S10*	--	--	RI-10	--	DB**30	--	--
I08 (RV08)	--	FE1-PB**-I06*	--	--	--	R6V	--	--	CG-06
I10 (RV10)	--	FE1-PB**-I10*	--	--	--	R10M	--	--	CG-10

D02 Parallel Circuit Manifold

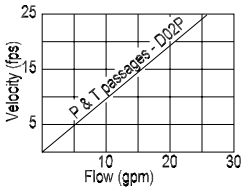




Parallel Circuit



Flow Curve



Rated flow 14 gpm @ 15 fps

All mounting hardware is supplied.
See page 62 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length inch [mm]	2.13 [54.0]	3.63 [92.1]	5.13 [130.2]	6.63 [168.3]	8.13 [206.4]	9.63 [244.5]	11.13 [282.6]	12.63 [320.7]	14.13 [358.8]	15.63 [396.9]
apx. weight alum lb [kg]	3 [1.5]	5 [2.5]	7 [3]	8 [4]	10 [4.5]	12 [5.5]	14 [6]	16 [7]	17 [8]	19 [9]
apx. weight iron lb [kg]	5 [2.5]	8.5 [4]	12 [5.5]	16 [7]	19 [9]	23 [10]	26 [12]	30 [14]	33 [15]	37 [17]

* Length of 01 station with relief cavity is 3.13 [79.4]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14] DP	0.25-20 UNC x 0.38 [9.7] DP
B, M, T	M5 ISO 6H x 0.56 [14] DP	M6 ISO 6H x 0.38 [9.7] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

Circuit

P	Parallel Circuit

No. of Stations

Aluminum	
01...10	Available with spacing code 1
Ductile Iron	
01...10	Available with spacing code 1

Valve Spacing

1	1.50 inch 38.1 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-8	-6	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M18	M14	none
T	BSPT • ISO 7	0.50	0.38	none

Options

See next page for available options and ordering codes.

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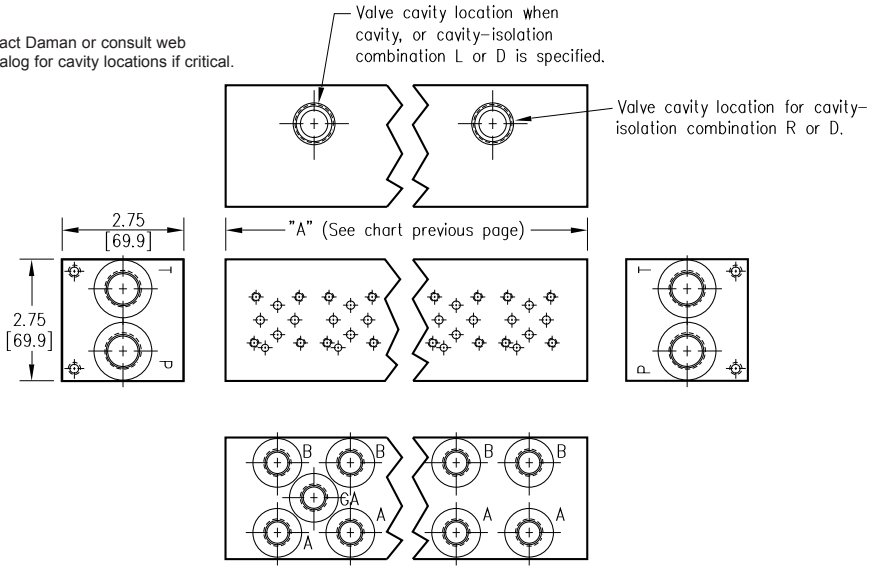
Options - D02 Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



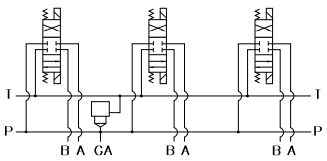
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10

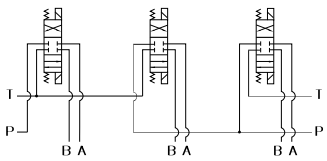
* Stations are numbered left to right.

Parallel Circuit with Cavity



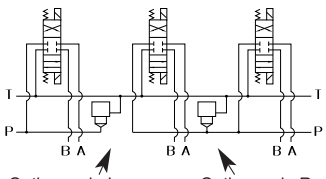
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

. . . /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavity not required.

C	Common cavity: With solenoid clearance. C-10-2 (P in nose)
S	Sun Cavity: T-162A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TJ	Available with spacing code 1

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

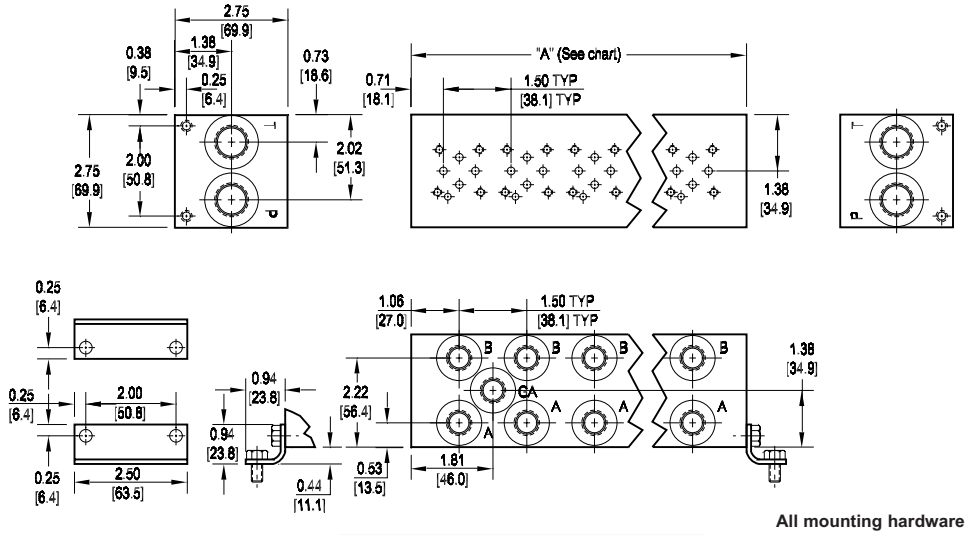
L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation.

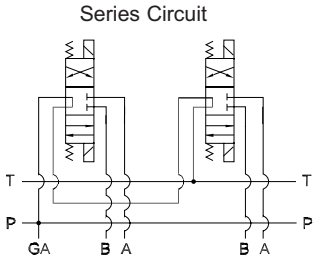
Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 1

D02 Series Circuit Manifold





No. of stations	02	03	04
"A" length inch [mm]	3.63 [92.1]	5.13 [130.2]	6.63 [168.3]
apx. weight alum lb [kg]	5 [2.5]	7 [3]	8 [4]
apx. weight iron lb [kg]	8.5 [4]	12 [6]	16 [7]

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14] DP	0.25-20 UNC x 0.38 [9.7] DP
B, M, T	M5 ISO 6H x 0.56 [14] DP	M6 ISO 6H x 0.38 [9.7] DP

Note: Both Daman's parallel and series D02 manifolds have pressure and tank lines that run the length of the manifold. Consequently it is commonly assumed that an error was made by marking a parallel manifold incorrectly as a series. Upon closer inspection it can be seen that the valve patterns are indeed connected in series.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

Circuit

S	Series Circuit

No. of Stations

Aluminum	
02...04	Available with spacing code 1
Ductile Iron	
02...04	Available with spacing code 1

Valve Spacing

1	1.50 inch 38.1 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-8	-6	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M18	M14	none
T	BSPT • ISO 7	0.50	0.38	none

Options

See next page for available options and ordering codes.

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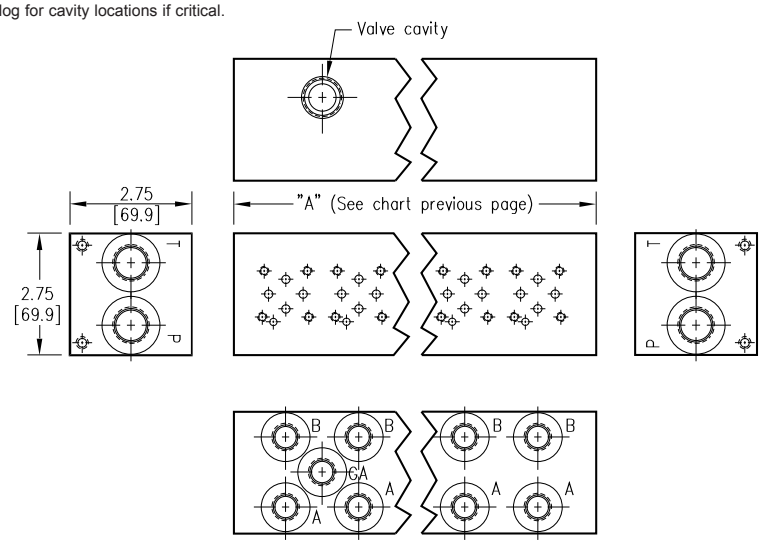
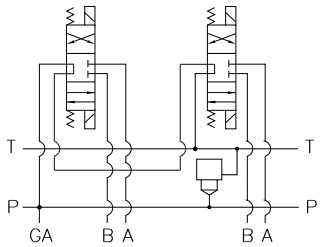
Options - D02 Series Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



Series Circuit with Cavity



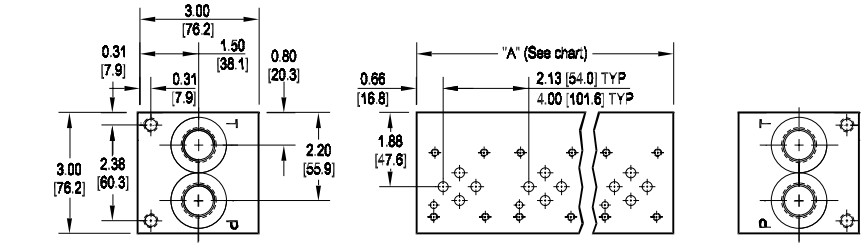
Valves with P in the nose and T out the side must be used.

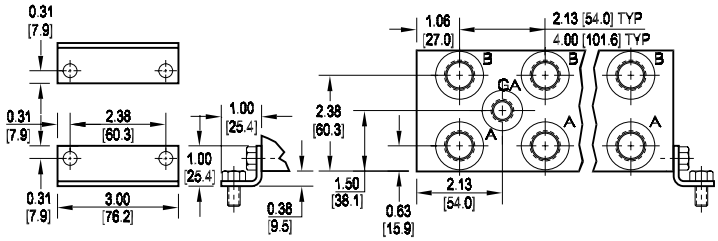
Ordering Information

... /	Cavity

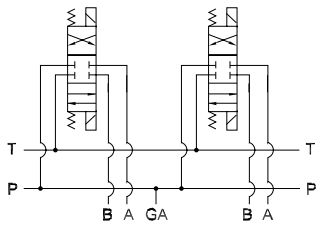
Cavity	
Omit if cavity not required	
C	Common cavity: With solenoid clearance. C-10-2 (P in nose)
S	Sun Cavity: T-162A (P in nose) See Tech Info for valves.

D03 Standard Flow Parallel Circuit Manifold

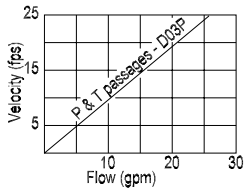




Parallel Circuit



Flow Curve



Rated flow 14 gpm @ 15 fps

All mounting hardware is supplied.
See page 62 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
"A" length (code 2 spa.) inch [mm]	2.13 [54.0]	4.25 [108.0]	6.38 [162.1]	8.50 [215.9]	10.63 [270.0]	12.75 [323.9]	14.88 [378.0]	17.00 [431.8]	19.13 [485.9]	21.25 [539.8]	23.38 [593.9]	25.50 [647.7]	27.63 [701.8]	29.75 [755.7]	31.88 [809.8]	34.00 [853.6]
apx. weight alum lb [kg]	3 [1]	4 [2]	6 [3]	8 [4]	9 [4]	11 [5]	12 [5]	14 [6]	16 [7]	18 [8]	20 [9]	21 [10]	22 [10]	24 [11]	26 [12]	27 [12]
apx. weight iron lb [kg]	5 [2]	9 [4]	13 [6]	17 [8]	21 [10]	26 [12]	30 [14]	34 [15]	38 [17]	42 [19]	47 [21]	51 [23]	55 [25]	59 [27]	63 [29]	68 [31]
"A" length (code 4 spa.) inch [mm]	--	6.13 [155.7]	10.13 [257.3]	14.13 [358.9]	18.13 [460.5]	22.13 [562.1]	26.13 [663.7]	30.13 [765.3]								
apx. weight alum lb [kg]	--	6 [3]	9 [4]	12 [5]	15 [7]	19 [9]	22 [10]	25 [11]								
apx. weight iron lb [kg]	--	12 [5]	20 [9]	28 [13]	36 [16]	45 [20]	53 [24]	57 [26]								

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

* Length of 01 station with relief cavity is 3.00 [76.2]. Gauge port not available on 01 station.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...16	Available with spacing code 2
02...08	Available with spacing code 4
Ductile Iron	
01...16	Available with spacing code 2
02...08	Available with spacing code 4

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-10	-8	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M22	M18	none
T	BSPT • ISO 7	0.50	0.38	none

Options

See next page for available options and ordering codes.

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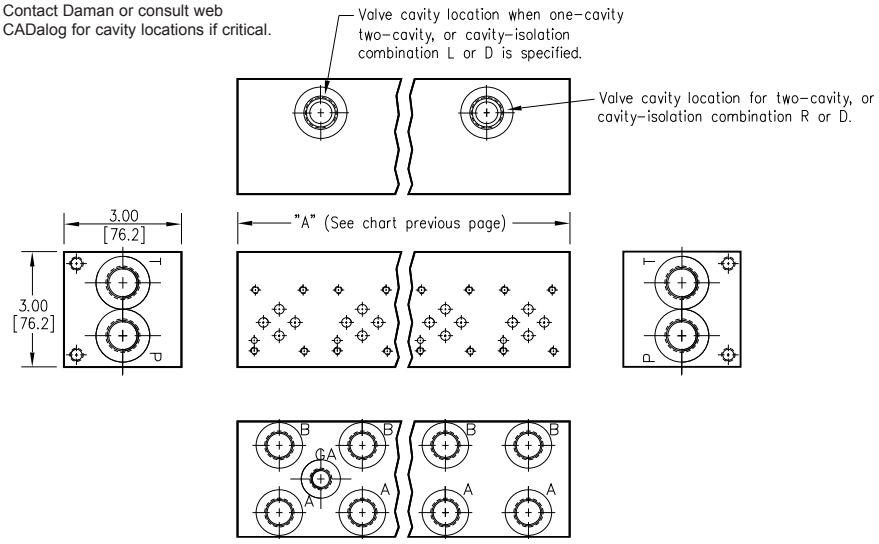
Options - D03 Standard Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



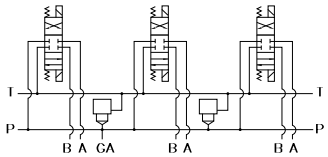
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-16
J	09 & 10	10-16
4.00 [101.6] spacing		
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

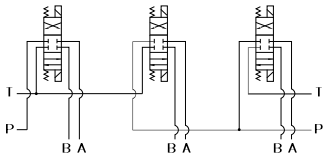
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



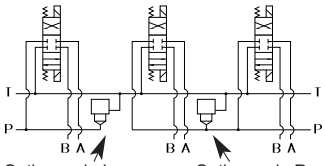
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible with spacing code 2. Consult factory to determine availablity.

Ordering Information

... /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavities not required

C	One Common cavity: No solenoid clearance. C-10-2 (P in nose)
CC	Two Common cavities: With solenoid clearance C-10-2 (P in nose) Available 03-16 stations with spacing code 2; Available 02-08 stations with spacing code 4. Not available in combination with isolation options.
S	One Sun Cavity: T-10A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 2
PA...PG	Available with spacing code 4

Tank Isolation

Omit if T isolation not required

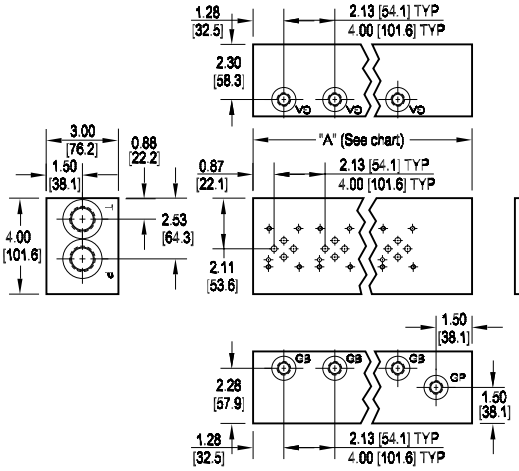
TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

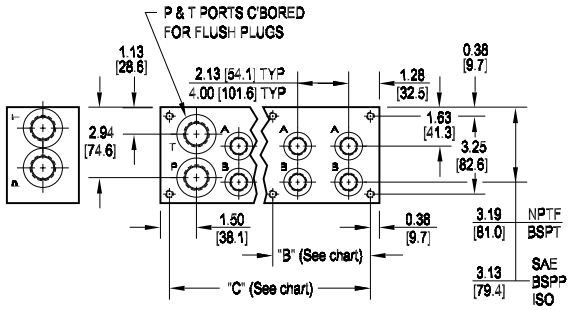
Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation. (Use with cavity option codes C or S only.)

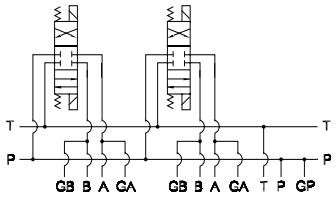
D03 Standard Flow Bottom Ported Manifold



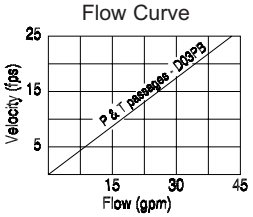
Mounting hardware is NOT supplied.



Parallel Circuit



Flow Curve



Rated flow 25 gpm @ 15 fps

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.38-16 UNC x 0.69 [17.5] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 0.69 [17.5] DP

No. of stations	01	02	03	04	05	06	07	08	09	10	11	12	No. of stations	02	03	04	05	06
"A" length (code 2 spa.) inch [mm]	4.38 [111.1]	6.50 [165.1]	8.63 [219.1]	10.75 [273.1]	12.88 [327.0]	15.00 [381.0]	17.13 [435.0]	19.25 [489.0]	21.38 [542.9]	23.50 [596.9]	25.63 [650.9]	27.75 [704.9]	"A" length (code 4 spa.) inch [mm]	8.38 [212.7]	12.38 [314.3]	16.38 [415.9]	20.38 [517.5]	24.38 [619.1]
"B" dim (code 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.34 [211.9]	8.34 [211.9]	10.47 [265.9]	10.47 [265.9]	12.59 [319.9]	"B" dim (code 4 spa.) inch [mm]	--	--	--	10.91 [277.0]	10.91 [277.0]
"C" dim (code 2 spa.) inch [mm]	3.63 [92.1]	5.75 [146.1]	7.88 [200.0]	10.00 [254.0]	12.13 [308.0]	14.25 [362.0]	16.38 [415.9]	18.50 [469.9]	20.63 [523.9]	22.75 [577.9]	24.88 [631.8]	27.00 [685.8]	"C" dim (code 4 spa.) inch [mm]	7.63 [193.7]	11.63 [295.3]	15.63 [396.9]	19.63 [498.5]	23.38 [600.1]
apx. weight alum lb [kg]	5 [2]	8 [4]	10 [5]	13 [6]	15 [7]	18 [8]	21 [9]	23 [10]	26 [12]	28 [13]	31 [14]	33 [15]	apx. weight alum lb [kg]	10 [5]	15 [7]	20 [9]	24 [11]	29 [13]
apx. weight iron lb [kg]	14 [6]	20 [9]	27 [12]	34 [15]	40 [18]	47 [21]	53 [24]	60 [27]	67 [30]	73 [33]	80 [36]	87 [39]	apx. weight iron lb [kg]	26 [12]	39 [18]	51 [23]	64 [29]	76 [34]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

PB	Parallel Circuit Standard Flow Bottom Ported

No. of Stations

Aluminum	
01...12	Available with spacing code 2
02...06	Available with spacing code 4
Ductile Iron	
01...12	Available with spacing code 2
02...06	Available with spacing code 4

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Port Threads		P & T	A & B	G*
P	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-4
B	BSPP • ISO 1179	0.75	0.50	0.25
M	ISO • ISO 6149	M27	M18	M10
T	BSPT • ISO 7	0.75	0.50	0.25

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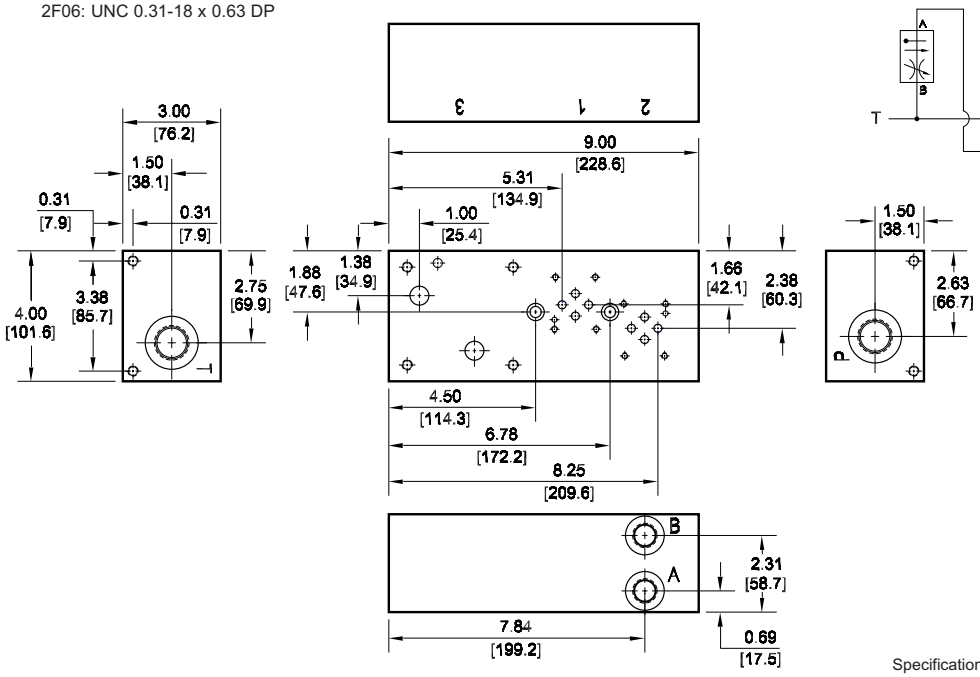
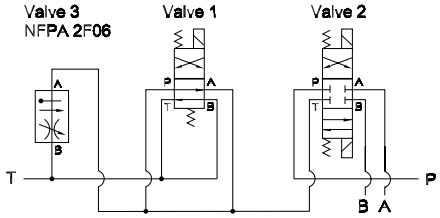
D03 Tank Line Feed Circuit Manifold

D03 Directional Valves
2F06 Flow Control Valve

Valve mtg: D03: UNC #10-24 x 0.63 DP
2F06: UNC 0.31-18 x 0.63 DP



"Meter Out" Tank Feed Circuit



Manifold Mounting:
Manifold bracket mounting kit is supplied. See page 62 for itemized mounting kit list.
Two SHCS clearance holes are provided for optional 5/16 (M8) SHCS mounting. Screws are user provided; miminum 3.00 in [75mm] long GR8 SHCS should be used.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

TF	Tank Line Feed Circuit

Valve Pattern

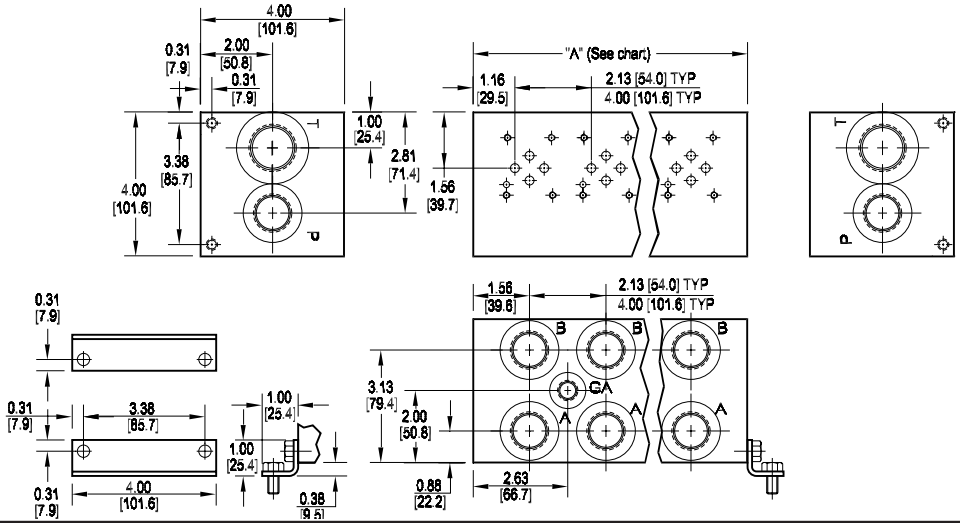
D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Flow Control Pattern (REF):
2F06 Pattern
ISO 6263-06-05
NFPA T3.5.1-2F06

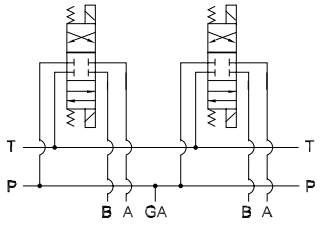
Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.38
S	SAE • ISO 11926	-12	-8

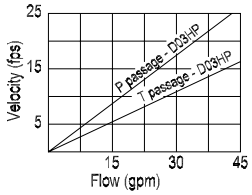
D03 High Flow Parallel Circuit Manifold



Parallel Circuit



Flow Curve



Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
"A" length (code 2 spa.) inch [mm]	3.13 [79.5]	5.25 [133.4]	7.38 [187.5]	9.50 [241.3]	11.63 [295.4]	13.75 [349.3]	15.88 [403.4]	18.00 [457.2]	20.13 [511.3]	22.25 [565.2]	24.38 [619.1]	26.50 [673.1]	28.63 [727.1]	30.75 [781.1]	32.88 [835.0]	35.00 [889.0]
apx. weight alum lb [kg]	5 [2]	8 [4]	12 [5]	15 [7]	18 [8]	22 [10]	25 [11]	28 [13]	32 [15]	35 [16]	39 [18]	42 [19]	46 [21]	49 [22]	52 [24]	56 [25]
apx. weight iron lb [kg]	13 [6]	22 [10]	30 [14]	39 [18]	48 [22]	57 [26]	66 [30]	74 [34]	83 [38]	92 [42]	--	--	--	--	--	--
"A" length (code 4 spa.) inch [mm]	--	7.13 [181.1]	11.13 [282.7]	15.13 [384.5]	19.13 [485.9]	23.13 [587.5]	27.13 [689.1]	31.13 [790.7]								
apx. weight alum lb [kg]	--	11 [5]	17 [8]	24 [11]	30 [14]	37 [17]	43 [20]	49 [22]								
apx. weight iron lb [kg]	--	29 [13]	46 [21]	62 [28]	79 [36]	96 [44]	112 [51]	129 [59]								

* Length of 01 station with relief cavity is 4.00 [101.6]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

All mounting hardware is supplied. See page 62 for itemized list.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...16	Available with spacing code 2
02...08	Available with spacing code 4
Ductile Iron	
01...10	Available with spacing code 2
02...08	Available with spacing code 4

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.25
S	SAE • ISO 11926	-12	-16	-6
B	BSPP • ISO 1179	0.75	1.00	none
M	ISO • ISO 6149	M27	M33	none
T	BSPT • ISO 7	0.75	1.00	none

Options

See next page for available options and ordering codes.

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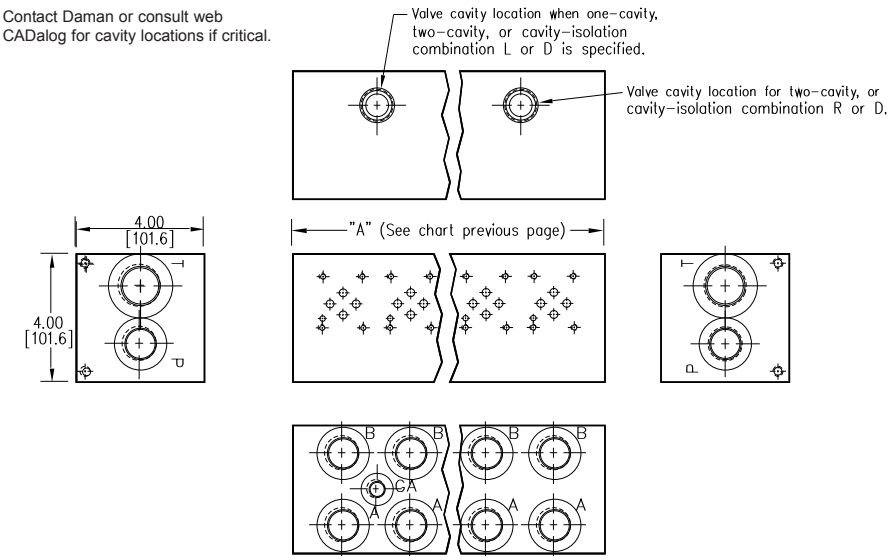
Options - D03 High Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



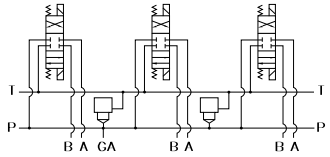
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-16
J	09 & 10	10-16
4.00 [101.6] spacing		
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

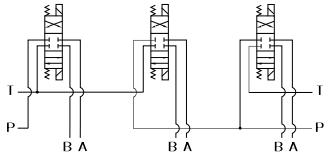
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



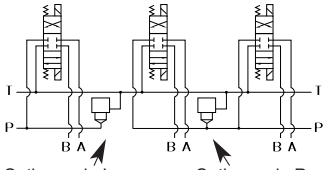
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible with spacing code 2. Consult factory to determine availablity.

Ordering Information

... /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavities not required	
C	One Common cavity: No solenoid clearance. C-16-2 (P in nose)
CC	Two Common cavities: With solenoid clearance C-16-2 (P in nose) Available 03-16 stations with spacing code 2; Available 02-08 stations with spacing code 4. Not available in combination with isolation options.
S	One Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required	
PA...PJ	Available with spacing code 2
PA...PG	Available with spacing code 4

Tank Isolation

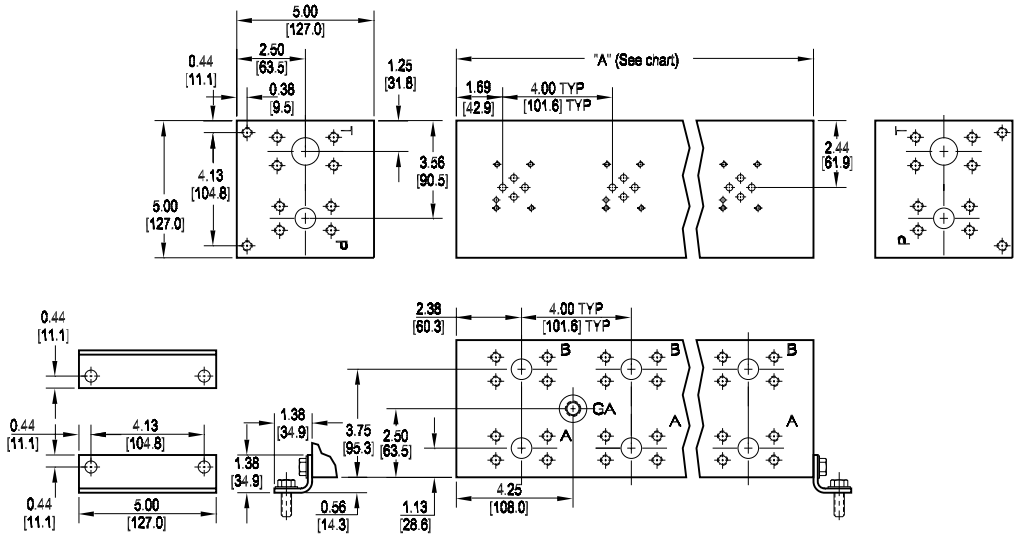
Omit if T isolation not required	
TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

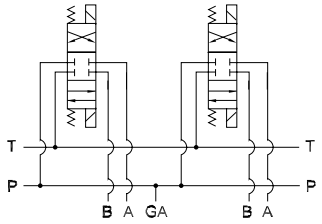
Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation. (Use with cavity option codes C or S only.)

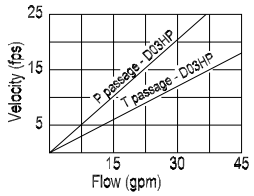
D03 High Flow Parallel Circuit Manifold - Flange Ports



Parallel Circuit



Flow Curve



Rated flow Pressure 21 gpm @ 15 fps
Rated flow Tank 37 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08
"A" length inch [mm]	4.75 [120.7]	8.75 [222.3]	12.75 [323.9]	16.75 [425.5]	20.75 [527.1]	24.75 [628.7]	28.75 [730.3]	32.75 [831.9]
apx. weight alum lb [kg]	12 [5.5]	22 [10]	32 [14.5]	42 [19]	52 [23.5]	62 [28]	72 [33]	82 [37]
apx. weight iron lb [kg]	31 [14]	57 [26]	83 [38]	109 [49]	135 [61]	161 [73]	187 [85]	213 [97]

* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port
F	#10-24 UNC x 0.63 [16] DP	0.38-16 UNC x 0.75 [19] DP	ISO 6162 Type II - Inch	**-6** SAE J1926
F / M	M5 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 0.75 [19] DP	ISO 6162 Type I - metric	NONE

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum or Ductile Iron	
01...08	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	0.75 CODE 61	1.00 CODE 61

Options

See next page for available options and ordering codes.

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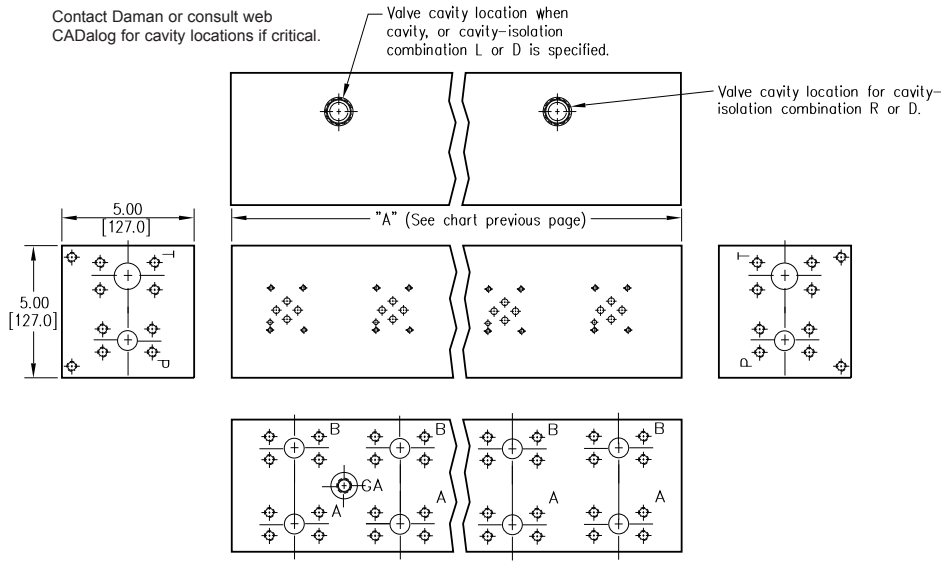
Options - D03 High Flow Parallel Manifold Flange Ports



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

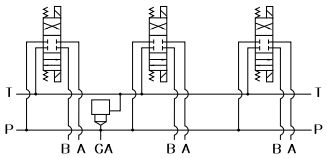
* Stations are numbered left to right.

NOTES:

1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

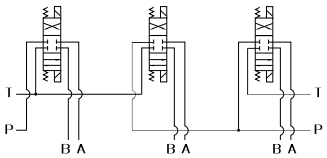
2) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Parallel Circuit with Cavity



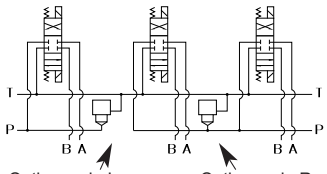
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

Ordering Information

. . . /	Thread Type	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 4

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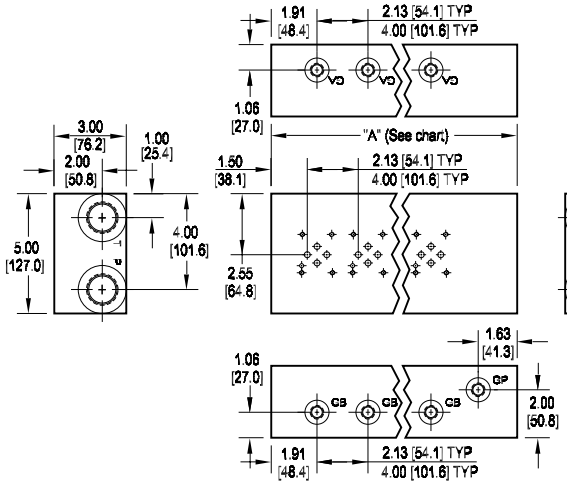
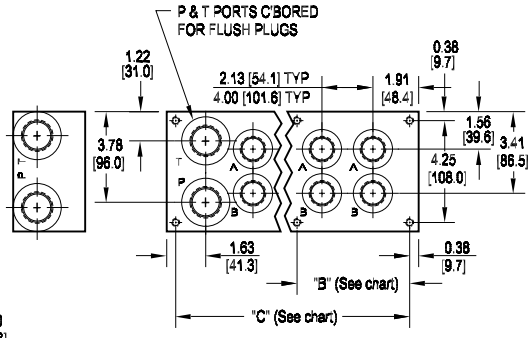
D03 High Flow Bottom Ported Manifold

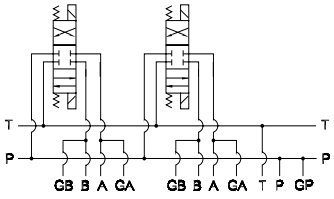


Mounting hardware is NOT supplied.

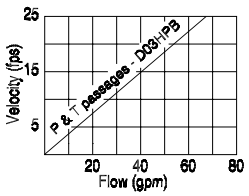


Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14.3] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M5 ISO 6H x 0.56 [14.3] DP	M10 ISO 6H x 1.00 [25.4] DP

Parallel Circuit



Flow Curve



Rated flow 41 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07	08	09	10
"A" length (code 2 spa.) inch [mm]	5.50 [139.7]	7.63 [193.7]	9.75 [247.7]	11.88 [301.6]	14.00 [355.6]	16.13 [409.6]	18.25 [463.6]	20.38 [517.5]	22.50 [571.5]	24.63 [625.5]
"B" dim (code 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.97 [227.8]	11.09 [281.8]	11.09 [281.8]
"C" dim (code 2 spa.) inch [mm]	4.75 [120.7]	6.88 [174.6]	9.00 [228.6]	11.13 [282.6]	13.25 [336.6]	15.38 [390.5]	17.50 [444.5]	19.63 [498.5]	21.75 [552.5]	23.88 [606.4]
apx. weight alum lb [kg]	8 [4]	11 [5]	15 [7]	18 [8]	21 [10]	24 [11]	27 [12]	31 [14]	34 [15]	37 [17]
apx. weight iron lb [kg]	21 [10]	30 [13]	38 [17]	46 [21]	55 [25]	63 [29]	71 [32]	79 [36]	88 [40]	96 [44]

No. of stations	02	03	04	05	06
"A" length (code 4 spa.) inch [mm]	9.50 [241.3]	13.50 [342.9]	17.50 [444.5]	21.50 [546.1]	25.50 [647.7]
"B" dim (code 4 spa.) inch [mm]	--	--	--	11.53 [292.9]	11.53 [292.9]
"C" dim (code 4 spa.) inch [mm]	8.75 [222.3]	12.75 [323.9]	16.75 [425.5]	20.75 [527.1]	24.75 [628.7]
apx. weight alum lb [kg]	14 [6]	20 [9]	26 [12]	32 [15]	38 [17]
apx. weight iron lb [kg]	37 [17]	53 [24]	68 [31]	84 [38]	99 [45]

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

HPB	Parallel Circuit High Flow Bottom Ported

No. of Stations

Aluminum	
01...10	Available with spacing code 2
02...06	Available with spacing code 4
Ductile Iron	
01...10	Available with spacing code 2
02...06	Available with spacing code 4

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Port Threads

		P & T	A & B	G*
P	NPTF • ANSI B1.20.3	1.00	0.75	0.25
S	SAE • ISO 11926	-16	-12	-4
B	BSPP • ISO 1179	1.00	0.75	0.25
M	ISO • ISO 6149	M33	M27	M10
T	BSPT • ISO 7	1.00	0.75	0.25

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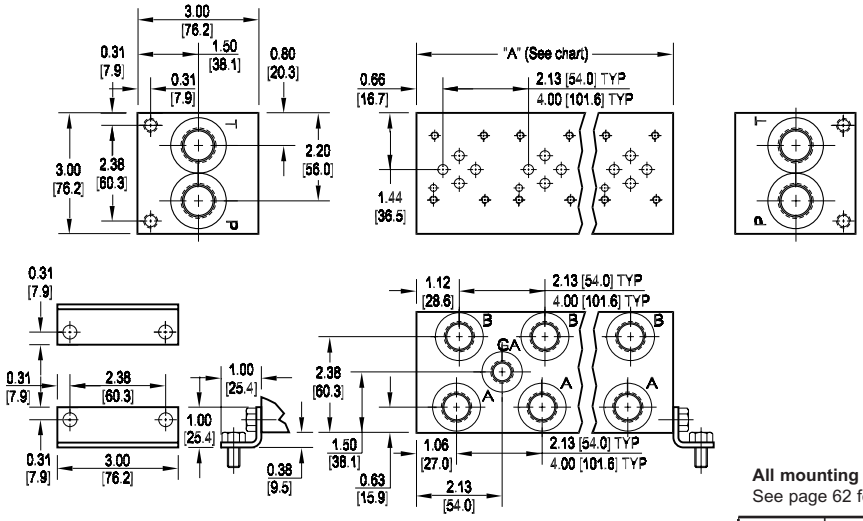
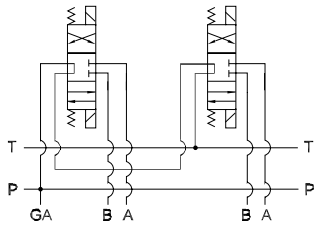
D03 Series Circuit Manifolds ☞

D03 Series Circuit Manifold



Series Circuit



No. of stations	02	03	04	05	06	07	08
"A" length (code 2 spa.) inch [mm]	4.25 [108.0]	6.38 [162.1]	8.50 [215.9]	10.63 [270.0]	12.75 [323.9]	14.88 [378.0]	17.00 [431.8]
apx. weight alum lb [kg]	4 [2]	6 [3]	8 [4]	9 [4]	11 [5]	12 [5]	14 [6]
apx. weight iron lb [kg]	9 [4]	13 [6]	17 [8]	23 [10]	26 [12]	--	--
"A" length (code 4 spa.) inch [mm]	6.13 [155.7]	10.13 [257.3]	14.13 [358.9]				
apx. weight alum lb [kg]	6 [3]	9 [4]	12 [5]				
apx. weight iron lb [kg]	12 [5]	20 [9]	28 [13]				

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

Note: Both Daman's parallel and series D03 manifolds have pressure and tank lines that run the length of the manifold. Consequently it is commonly assumed that an error was made by marking a parallel manifold incorrectly as a series. Upon closer inspection it can be seen that the valve patterns are indeed connected in series.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

S	Series Circuit

No. of Stations

Aluminum	
02...08	Available with spacing code 2
02...04	Available with spacing code 4
Ductile Iron	
02...06	Available with spacing code 2
02...04	Available with spacing code 4

Valve Spacing

2	2.13 inch 38.1 mm
4	4.00 inch 101.6 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-10	-8	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M22	M18	none
T	BSPT • ISO 7	0.50	0.38	none

Options

See next page for available options and ordering codes.

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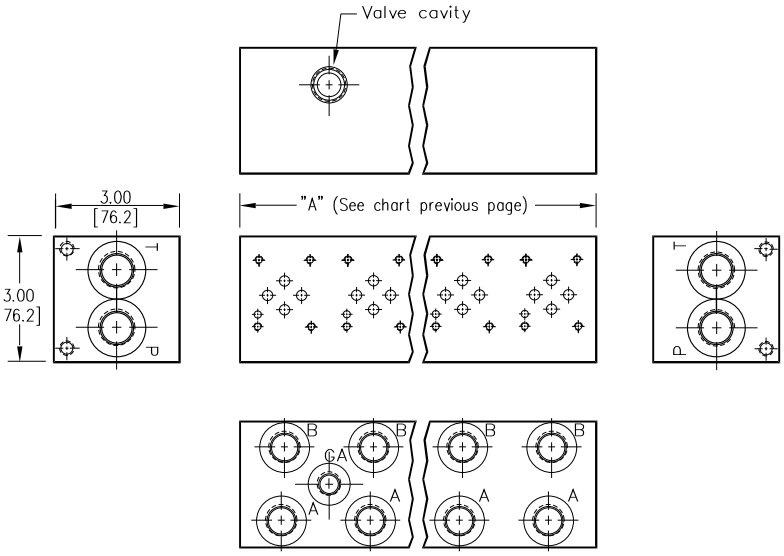
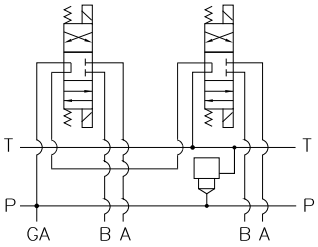
Options - D03 Series Manifold

Contact Daman or consult web
CADalog for cavity locations if critical.



Series Circuit with Cavity



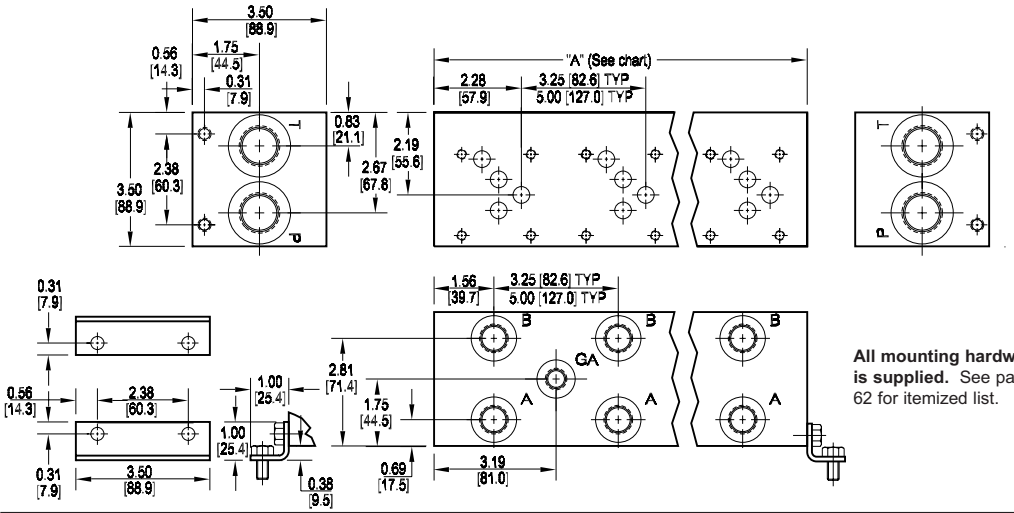
Valves with P in the nose and T out the side must be used.

Ordering Information

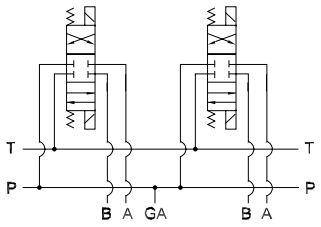
... /	Cavity

Cavity	
Omit if cavity not required	
C	Common cavity: No solenoid clearance. C-10-2 (P in nose)
S	Sun Cavity: T-10A (P in nose) See Tech Info for valves.

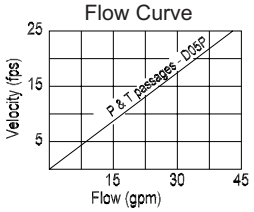
D05 Standard Flow Parallel Manifold



Parallel Circuit



Flow Curve



Rated flow 25 gpm @ 15 fps

All mounting hardware is supplied. See page 62 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
"A" length (code 3 spa.) inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]	26.00 [660.4]	29.25 [743.0]	32.50 [825.5]	35.75 [908.1]	39.00 [990.6]	42.25 [1073.2]	45.50 [1155.7]	48.75 [1238.3]	52.00 [1320.8]	55.25 [1403.4]	58.50 [1485.9]	61.75 [1568.5]	65.00 [1651.0]	68.25 [1733.6]
apx. weight alum lb [kg]	4 [2]	8 [4]	11 [5]	14 [7]	17 [8]	21 [10]	24 [11]	27 [12]	30 [14]	34 [15]	37 [17]	41 [19]	44 [20]	47 [21]	51 [23]	55 [25]	58 [26]	61 [28]	64 [29]	67 [30]	71 [32]
apx. weight iron lb [kg]	9 [4]	17 [8]	26 [12]	34 [15]	43 [20]	51 [23]	60 [27]	68 [31]	77 [35]	85 [39]	94 [43]	102 [46]	--	--	--	--	--	--	--	--	--
"A" length (code 5 spa.) inch [mm]	--	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]	28.25 [717.6]	33.25 [844.6]	38.25 [971.6]	43.25 [1098.6]	48.25 [1225.6]	53.25 [1352.6]	58.25 [1479.6]	63.25 [1606.6]	68.25 [1733.6]							
apx. weight alum lb [kg]	--	9 [4]	15 [7]	20 [9]	25 [11]	30 [14]	35 [16]	41 [19]	46 [21]	50 [23]	55 [25]	60 [27]	65 [29]	71 [32]							
apx. weight iron lb [kg]	--	22 [10]	36 [16]	49 [22]	62 [28]	76 [34]	89 [40]	102 [46]	116 [53]	--	--	--	--	--							

* Length of 01 station with relief cavity is 4.50 [114.3]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M8 ISO 6H x 0.44 [11.1] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...21	Available with spacing code 3
02...14	Available with spacing code 5
Ductile Iron	
01...12	Available with spacing code 3
02...09	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-6
B	BSPP • ISO 1179	0.75	0.50	none
M	ISO • ISO 6149	M27	M18	none
T	BSPT • ISO 7	0.75	0.50	none

Options

See next page for available options and ordering codes.

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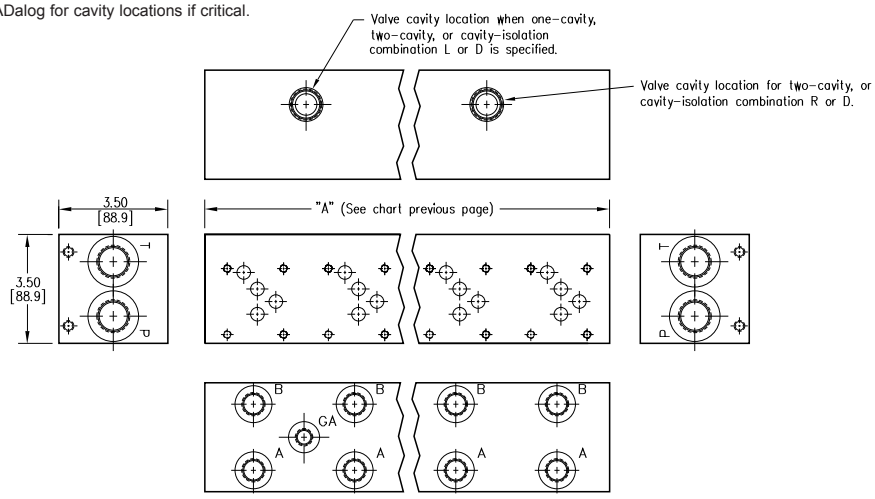
Options - D05 Standard Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



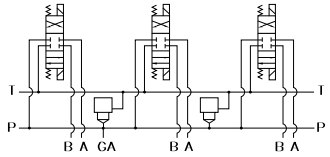
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-17
J	09 & 10	10-18
5.00 [127.0] spacing		
A	01 & 02	02-07
B	02 & 03	03-08
C	03 & 04	04-09
D	04 & 05	05-10
E	05 & 06	06-11
F	06 & 07	07-12

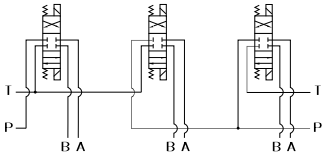
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



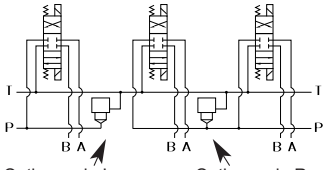
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible with spacing code 3. Consult factory to determine availablity.

Ordering Information

. . . /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavities not required

C	One Common cavity: With solenoid clearance. C-10-2 (P in nose)
CC	Two Common cavities: With solenoid clearance. C-10-2 (P in nose) Available 03-21 stations with spacing code 3; Available 02-14 stations with spacing code 5. Not available in combination with isolation options.
S	One Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 3
PA...PF	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

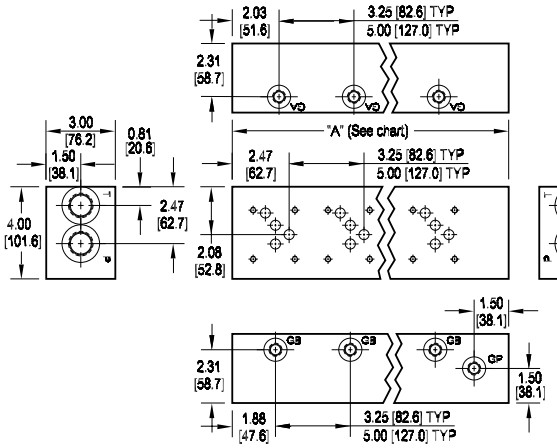
TA...TJ	Available with spacing code 3
TA...TF	Available with spacing code 5

Cavity & Isolation Combinations

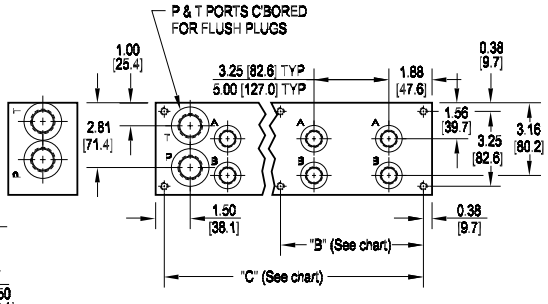
Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation. (Use with cavity option codes C or S only.)

D05 Standard Flow Bottom Ported Manifold

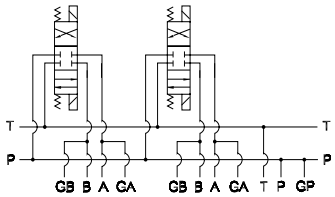


Mounting hardware is NOT supplied.

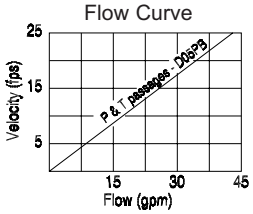


Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.56 [14.3] DP	0.38-16 UNC x 0.69 [17.5] DP
B, M, T	M6 ISO 6H x 0.56 [14.3] DP	M10 ISO 6H x 0.69 [17.5] DP

Parallel Circuit



Flow Curve



Rated flow 25 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07	08	09	10
"A" length (code 3 spa.) inch [mm]	5.00 [127.0]	8.25 [209.6]	11.50 [292.1]	14.75 [374.7]	18.00 [457.2]	21.25 [539.8]	24.50 [622.3]	27.75 [704.9]	31.00 [787.4]	34.25 [870.0]
"B" dim (code 3 spa.) inch [mm]	--	--	--	--	--	9.63 [244.5]	9.63 [244.5]	12.88 [327.0]	12.88 [327.0]	16.13 [409.6]
"C" dim (code 3 spa.) inch [mm]	4.25 [108.0]	7.50 [190.5]	10.75 [273.1]	14.00 [355.6]	17.25 [438.2]	20.50 [520.7]	23.75 [603.3]	27.00 [685.8]	30.25 [768.4]	33.50 [850.9]
apx. weight alum lb [kg]	6 [3]	10 [4]	14 [6]	18 [8]	22 [10]	26 [12]	29 [13]	33 [15]	37 [17]	41 [19]
apx. weight iron lb [kg]	16 [7]	26 [12]	36 [16]	46 [21]	56 [25]	66 [30]	76 [35]	87 [39]	97 [44]	107 [48]

No. of stations	02	03	04	05	06
"A" length (code 5 spa.) inch [mm]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]
"B" dim (code 5 spa.) inch [mm]	--	--	9.00 [228.6]	14.00 [355.6]	14.00 [355.6]
"C" dim (code 5 spa.) inch [mm]	9.25 [235.0]	14.25 [362.0]	19.25 [489.0]	24.25 [616.0]	29.25 [743.0]
apx. weight alum lb [kg]	12 [5]	18 [8]	24 [11]	30 [14]	36 [16]
apx. weight iron lb [kg]	31 [14]	47 [21]	62 [28]	78 [35]	94 [42]

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

PB	Parallel Circuit Standard Flow Bottom Ported

No. of Stations

Aluminum	
01...10	Available with spacing code 3
02...06	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...06	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	G*
P	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-4
B	BSPP • ISO 1179	0.75	0.50	0.25
M	ISO • ISO 6149	M27	M18	M10
T	BSPT • ISO 7	0.75	0.50	0.25

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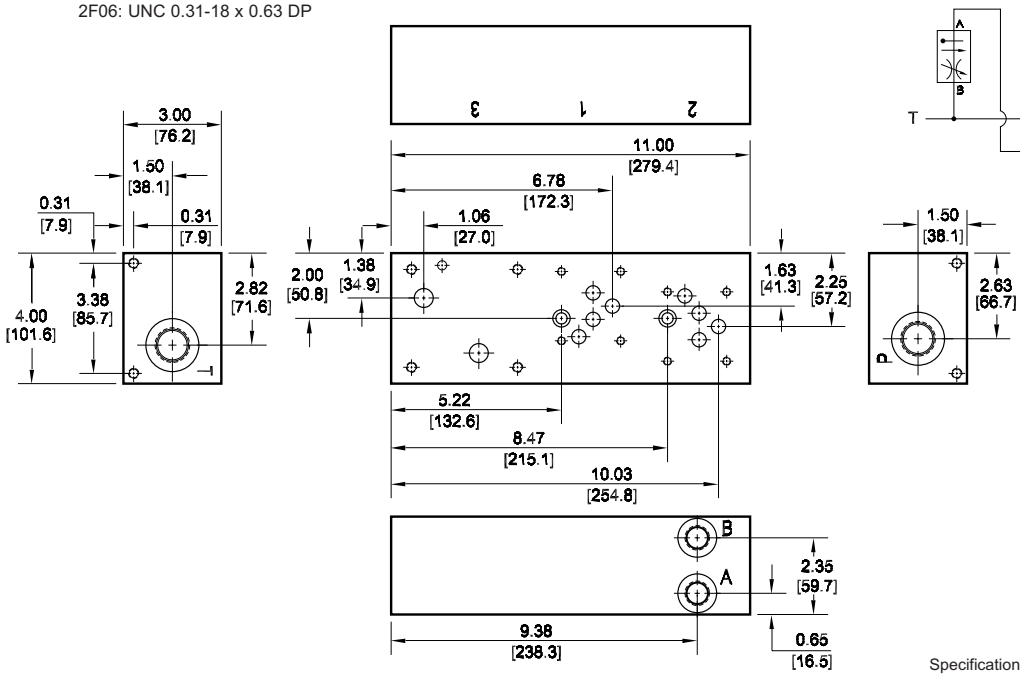
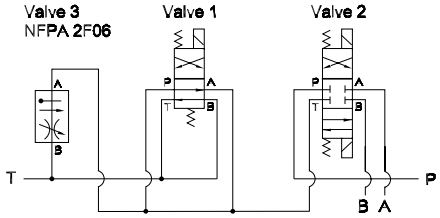
D05 Tank Line Feed Circuit Manifold

D05 Directional Valves
2F06 Flow Control Valve

Valve mtg: D05: UNC 0.25-20 x 0.50 DP
2F06: UNC 0.31-18 x 0.63 DP



"Meter Out" Tank Feed Circuit



Manifold Mounting:
Manifold bracket mounting kit is supplied. See page 62 for itemized mounting kit list.
Two SHCS clearance holes are provided for optional 5/16 (M8) SHCS mounting. Screws are user provided; miminum 3.00 in [75mm] long GR8 SHCS should be used.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Flow Control Pattern (REF):
2F06 Pattern
ISO 6263-06-05
NFPA T3.5.1-2F06

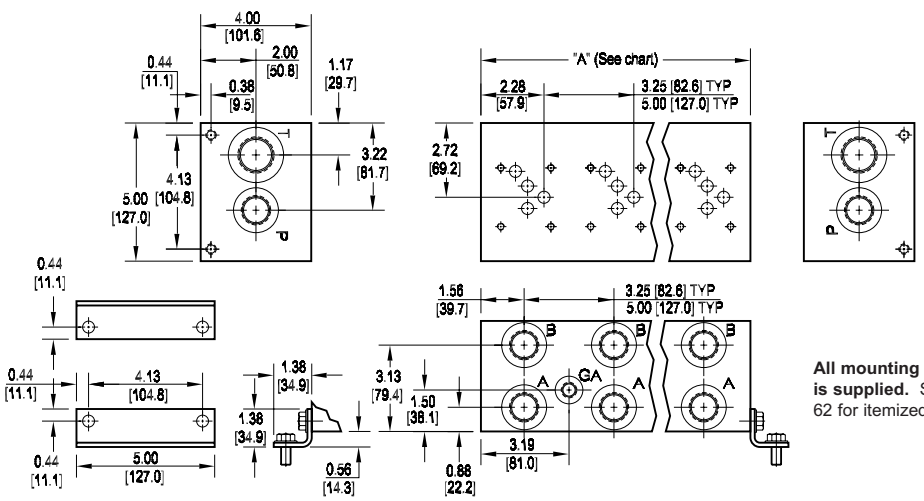
Circuit

TF	Tank Line Feed Circuit

Port Threads

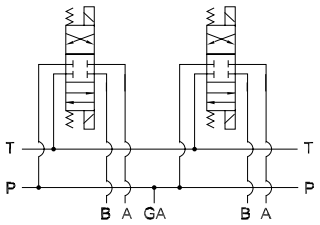
		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.50
S	SAE • ISO 11926	-12	-8

D05 High Flow Parallel Circuit Manifold

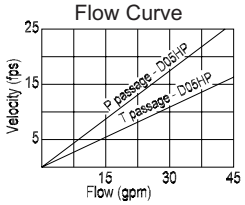


All mounting hardware is supplied. See page 62 for itemized list.

Parallel Circuit



Flow Curve



Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
"A" length (code 3 spa.) inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]	26.00 [660.4]	29.25 [743.0]	32.50 [825.5]	35.75 [908.1]	39.00 [990.6]	42.25 [1073.2]	45.50 [1155.7]	48.75 [1238.3]	52.00 [1320.8]	55.25 [1403.4]	58.50 [1485.9]	61.75 [1568.5]	65.00 [1651.0]	68.25 [1733.6]
apx. weight alum lb [kg]	7 [3]	12 [5]	17 [8]	22 [10]	27 [12]	33 [15]	38 [17]	43 [20]	48 [22]	53 [24]	58 [26]	63 [29]	68 [31]	74 [34]	79 [36]	84 [38]	89 [40]	94 [43]	99 [45]	104 [47]	110 [50]
apx. weight iron lb [kg]	19 [9]	38 [17]	57 [26]	75 [34]	85 [39]	113 [51]	132 [60]	151 [69]	170 [77]	189 [86]	208 [94]	226 [103]	--	--	--	--	--	--	--	--	--
"A" length (code 5 spa.) inch [mm]	--	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]	28.25 [717.6]	33.25 [844.6]	38.25 [971.6]	43.25 [1098.6]	48.25 [1225.6]	53.25 [1352.6]	58.25 [1479.6]	63.25 [1606.6]	68.25 [1733.6]							
apx. weight alum lb [kg]	--	18 [8]	26 [12]	33 [15]	41 [19]	48 [22]	56 [25]	63 [29]	71 [32]	79 [36]	87 [39]	95 [43]	103 [47]	111 [50]							
apx. weight iron lb [kg]	--	48 [22]	77 [35]	106 [48]	135 [61]	164 [74]	188 [85]	222 [101]	251 [114]	--	--	--	--	--							

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

* Length of 01 station with relief cavity is 4.50 [114.3]. Gauge port not available on 01 station.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...21	Available with spacing code 3
02...14	Available with spacing code 5
Ductile Iron	
01...12	Available with spacing code 3
02...09	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options

See next page for available options and ordering codes.

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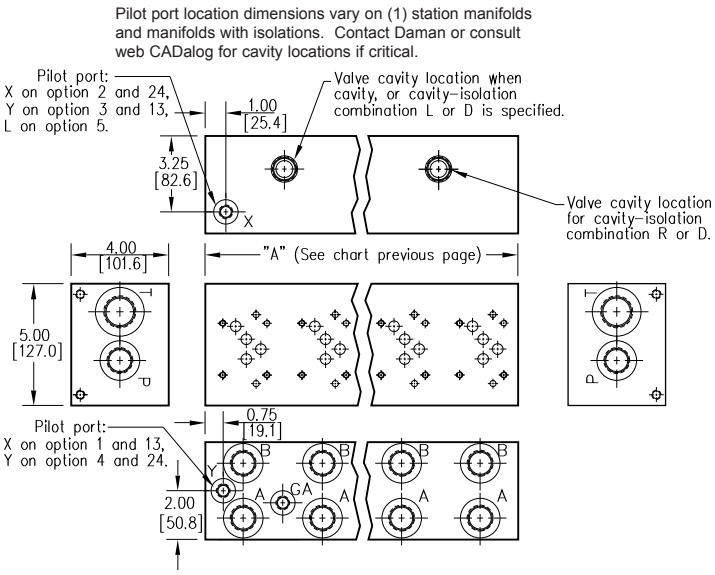
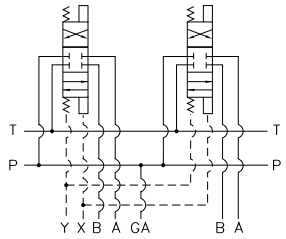
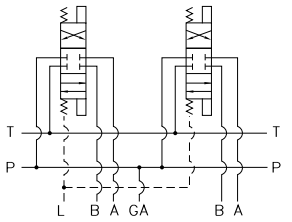
Options - D05 High Flow Parallel Manifold



Parallel Circuit with X & Y



Parallel Circuit with L



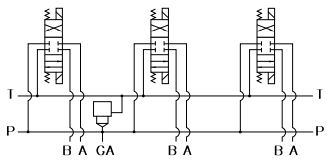
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-17
J	09 & 10	10-18
5.00 [127.0] spacing		
A	01 & 02	02-07
B	02 & 03	03-08
C	03 & 04	04-09
D	04 & 05	05-10
E	05 & 06	06-11
F	06 & 07	07-12

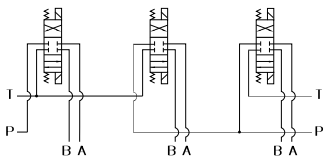
* Stations are numbered left to right.

Parallel Circuit with Cavity



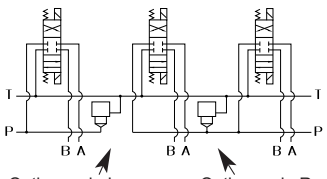
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

. . . /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if pilot ports not required

1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

Pilot ports available from 01-11 stations (3.25 spacing); 02-07 stations (5.00 spacing)

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance. C-10-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 3
PA...PF	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

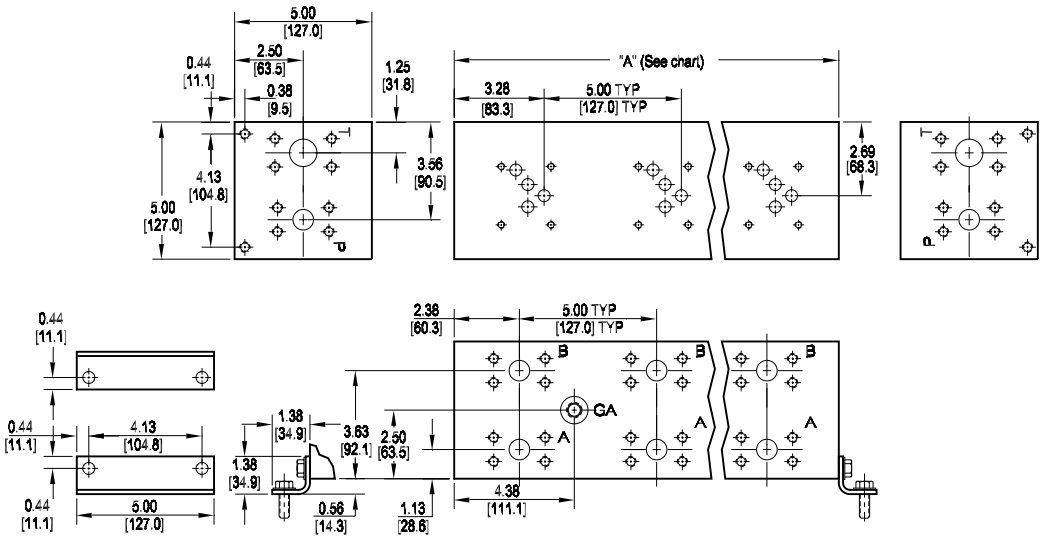
TA...TJ	Available with spacing code 3
TA...TF	Available with spacing code 5

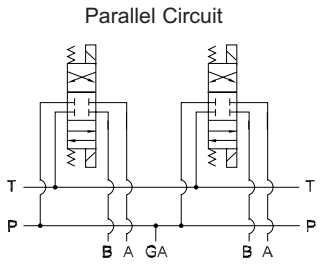
Cavity & Isolation Combinations

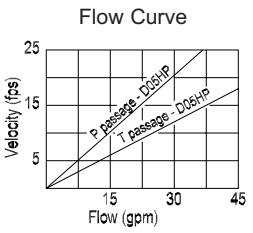
Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D05 High Flow Parallel Circuit Manifold - Flange Ports







Rated flow Pressure 21 gpm @ 15 fps
Rated flow Tank 37 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09
"A" length inch [mm]	5.00 [127.0]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]	35.00 [889.0]	40.00 [1016.0]	45.00 [1143.0]
apx. weight alum lb [kg]	13 [5.7]	25 [11]	38 [17]	50 [23]	63 [28]	75 [34]	88 [40]	100 [45]	112 [51]
apx. weight iron lb [kg]	34 [15.3]	68 [31]	101 [46]	135 [61]	169 [77]	203 [92]	236 [107]	270 [123]	--

* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

All mounting hardware is supplied. See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port	Pilot Ports *
F	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-6** SAE J1926
F / M	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP	ISO 6162 Type I - metric	NONE	**M14** ISO 6149

* Pilot ports are optional. See options on next page.

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...09	Available with spacing code 5
Ductile Iron	
01...08	Available with spacing code 5

Valve Spacing

5	5.00 inch 127.0 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	0.75 CODE 61	1.00 CODE 61

Options

See next page for available options and ordering codes.

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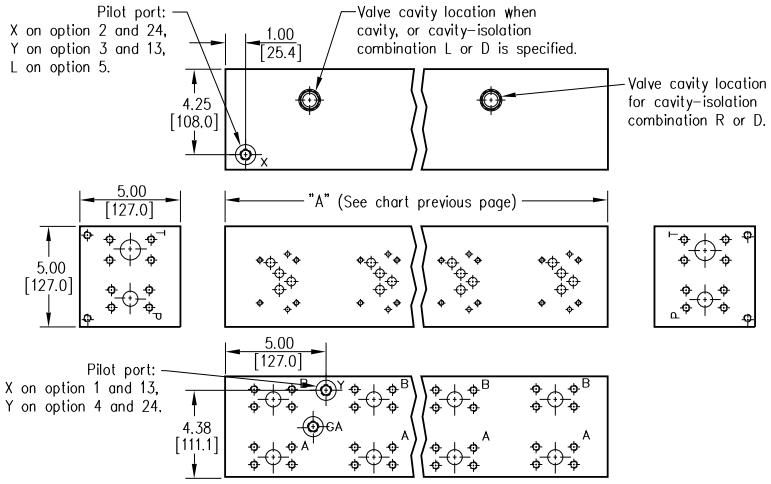
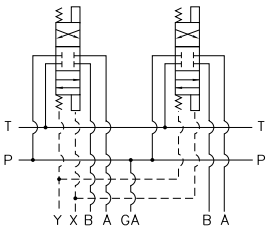
Options - D05 High Flow Parallel Manifold Flange Ports

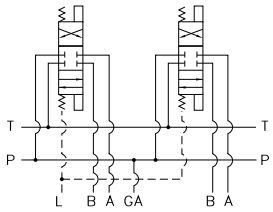
Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

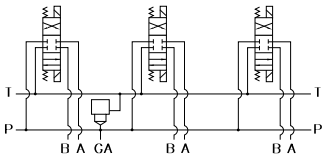
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-09
C	03 & 04	04-09
D	04 & 05	05-09
E	05 & 06	06-09
F	06 & 07	07-09
G	07 & 08	08-09

* Stations are numbered left to right.

NOTES:

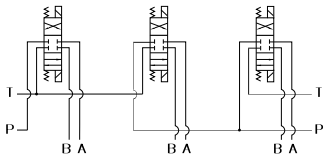
1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Cavity



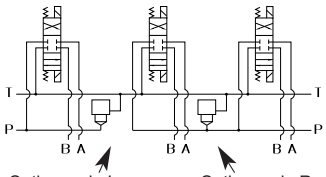
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

Ordering Information

. . . /	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Pilot Ports

Omit if pilot ports not required

1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

Pilot ports available from 01-08 stations

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

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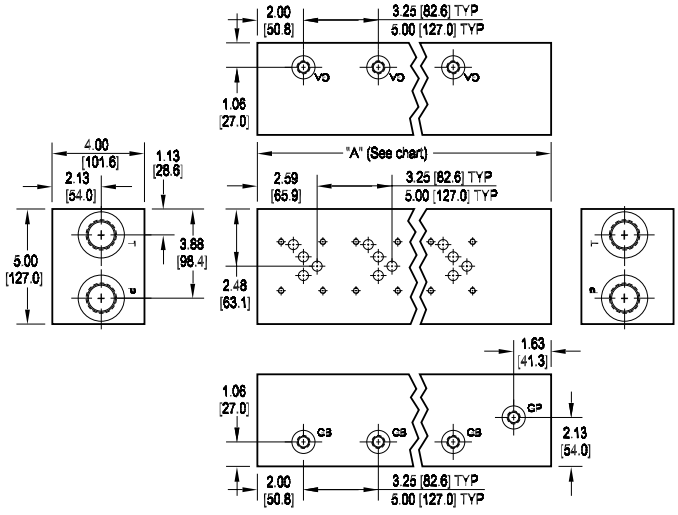
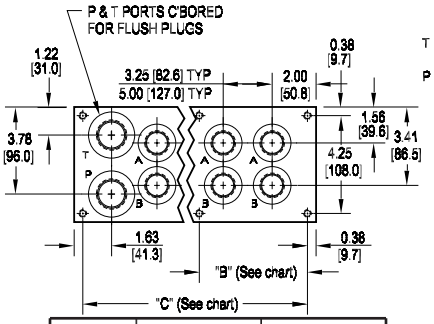
D05 High Flow Bottom Ported Manifold

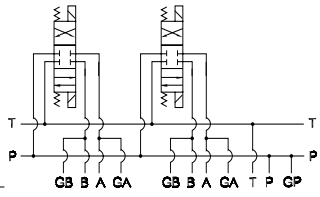


Mounting hardware is NOT supplied.

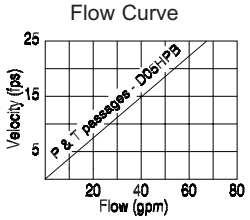


Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.63 [16] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M6 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 1.00 [25.4] DP

Parallel Circuit



Flow Curve



Rated flow 41 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07	08	09	10	No. of stations	02	03	04	05	06
"A" length (code 3 spa.) inch [mm]	5.75 [146.1]	9.00 [228.6]	12.25 [311.2]	15.50 [393.7]	18.75 [476.3]	22.00 [558.8]	25.25 [641.4]	28.50 [723.9]	31.75 [806.5]	35.00 [889.0]	"A" length (code 5 spa.) inch [mm]	10.75 [273.1]	15.75 [400.1]	20.75 [527.1]	25.75 [654.1]	30.75 [781.1]
"B" dim (code 3 spa.) inch [mm]	--	--	--	--	--	9.75 [247.7]	13.00 [330.2]	13.00 [330.2]	16.25 [412.8]	16.25 [412.8]	"B" dim (code 5 spa.) inch [mm]	--	--	9.38 [238.1]	9.38 [238.1]	14.38 [365.1]
"C" dim (code 3 spa.) inch [mm]	5.00 [127.0]	8.25 [209.6]	11.50 [292.1]	14.75 [374.7]	18.00 [457.2]	21.25 [539.8]	24.50 [622.3]	27.75 [704.9]	31.00 [787.4]	34.25 [870.0]	"C" dim (code 5 spa.) inch [mm]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]
apx. weight alum lb [kg]	12 [5]	18 [8]	25 [11]	31 [14]	38 [17]	44 [20]	51 [23]	57 [26]	64 [29]	70 [32]	apx. weight alum lb [kg]	22 [10]	32 [14]	42 [19]	52 [23]	62 [28]
apx. weight iron lb [kg]	30 [14]	47 [21]	64 [29]	81 [37]	98 [44]	114 [52]	131 [60]	148 [67]	165 [75]	182 [83]	apx. weight iron lb [kg]	56 [25]	82 [37]	108 [49]	134 [61]	160 [73]

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

Circuit

HPB	Parallel Circuit High Flow Bottom Ported

No. of Stations

Aluminum	
01...10	Available with spacing code 3
02...06	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...06	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	X,Y,L optional	G*
P	NPTF • ANSI B1.20.3	1.00	0.75	0.38	0.25
S	SAE • ISO 11926	-16	-12	-6	-4
B	BSPP • ISO 1179	1.00	0.75	0.38	0.25
M	ISO • ISO 6149	M33	M27	M14	M10
T	BSPT • ISO 7	1.00	0.75	0.38	0.25

Options

See next page for available options and ordering codes.

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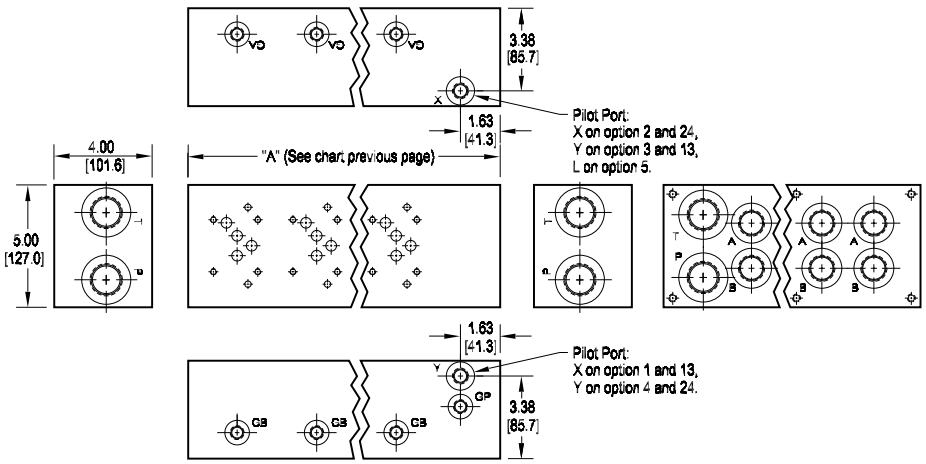
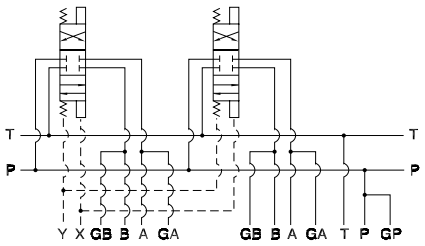
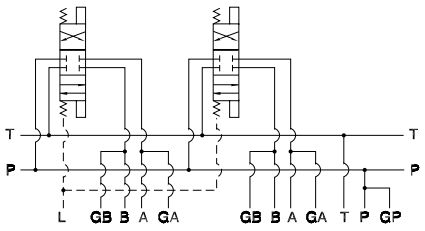
Options - D05 High Flow Parallel Manifold Bottom Ported



Parallel Circuit with X & Y



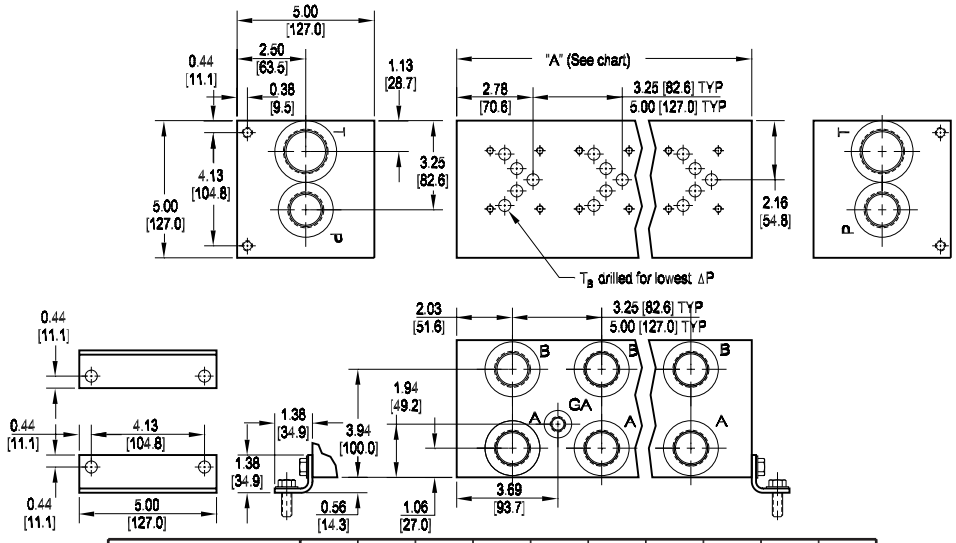
Parallel Circuit with L

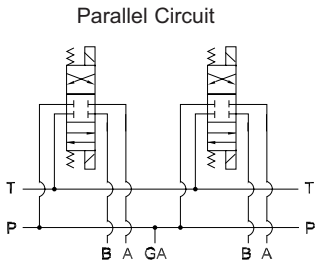


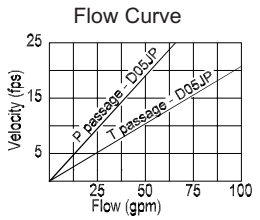
Ordering Information

Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

D05 Extra High Flow Parallel Circuit Manifold







Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length (code 3 spa.) inch [mm]	4.25 [108.0]	7.50 [190.5]	10.75 [273.1]	14.00 [355.6]	17.25 [438.2]	20.50 [520.7]	23.75 [603.3]	27.00 [685.8]	30.25 [768.4]	33.50 [850.9]
apx. weight alum lb [kg]	10 [5]	18 [8]	26 [12]	35 [16]	43 [20]	51 [23]	59 [27]	67 [30]	75 [34]	83 [38]
apx. weight iron lb [kg]	27 [12]	48 [22]	69 [31]	91 [41]	112 [51]	133 [60]	154 [70]	175 [79]	196 [89]	217 [99]
"A" length (code 5 spa.) inch [mm]	--	9.25 [235.0]	14.25 [362.0]	19.25 [489.0]	24.25 [616.0]	29.25 [743.0]				
apx. weight alum lb [kg]	--	23 [10]	35 [16]	48 [22]	60 [27]	73 [33]				
apx. weight iron lb [kg]	--	60 [27.2]	92 [41.8]	125 [56.8]	157 [71.3]	190 [86.3]				

* Length of 01 station with relief cavity is 5.50 [139.7]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

JP	Parallel Circuit Extra High Flow

No. of Stations

Aluminum	
01...10	Available with spacing code 3
02...06	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...06	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25
S	SAE • ISO 11926	-16	-20	-6	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	none
M	ISO • ISO 6149	M33	M42	M14	none
T	BSPT • ISO 7	1.00	1.25	0.38	none

Options

See next page for available options and ordering codes.

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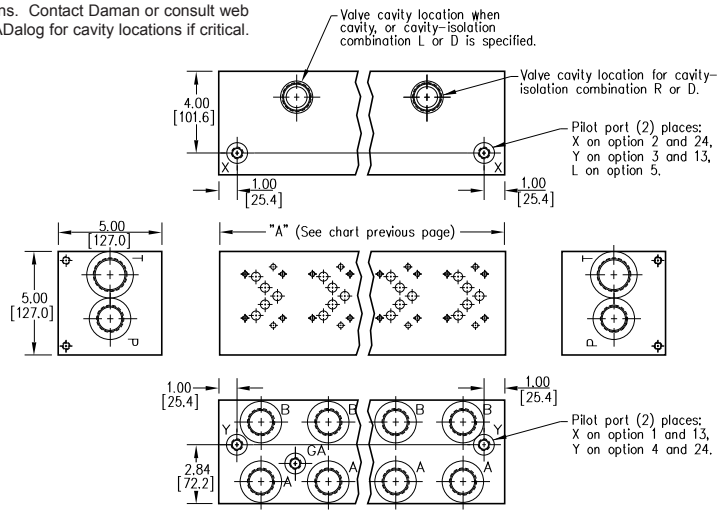
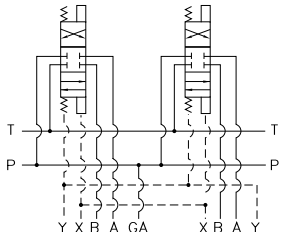
Options - D05 Extra High Flow Parallel Manifold

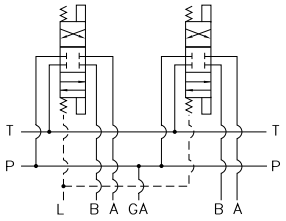
Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



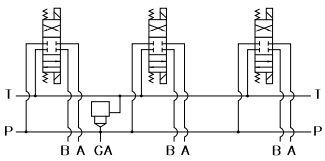
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10
5.00 [127.0] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

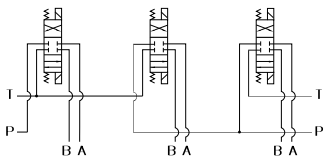
* Stations are numbered left to right.

Parallel Circuit with Cavity



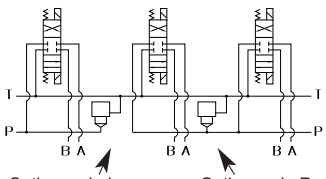
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

. . . /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if pilot ports not required

1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 3
PA...PE	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

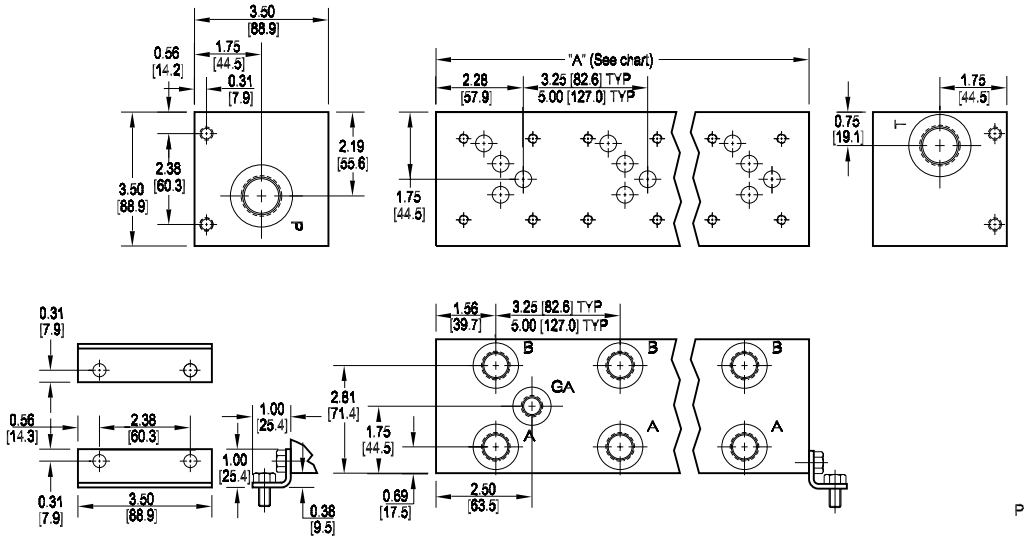
TA...TJ	Available with spacing code 3
TA...TE	Available with spacing code 5

Cavity & Isolation Combinations

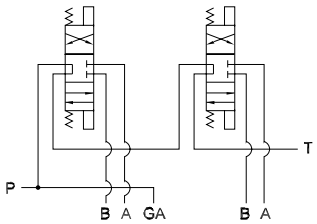
Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D05 Standard Flow Series Circuit Manifold



Series Circuit



No. of stations	02	03	04
"A" length (code 3 spa.) inch [mm]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]
apx. weight alum lb [kg]	8 [4]	11 [5]	14 [7]
apx. weight iron lb [kg]	17 [8]	26 [12]	34 [15]
"A" length (code 5 spa.) inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
apx. weight alum lb [kg]	9 [4]	15 [7]	20 [9]
apx. weight iron lb [kg]	22 [10]	36 [16]	49 [22]

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M8 ISO 6H x 0.44 [11.1] DP

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO-4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

S	Series Circuit Standard Flow

No. of Stations

Aluminum	
02...04	Available with spacing code 3
02...04	Available with spacing code 5
Ductile Iron	
02...04	Available with spacing code 3
02...04	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-6
B	BSPP • ISO 1179	0.75	0.50	none
M	ISO • ISO 6149	M27	M18	none
T	BSPT • ISO 7	0.75	0.50	none

Options

See next page for available options and ordering codes.

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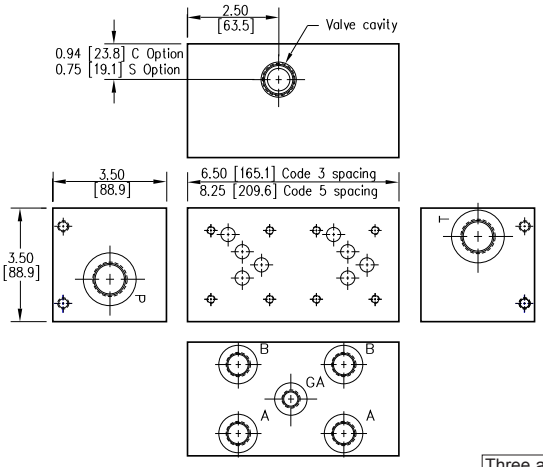
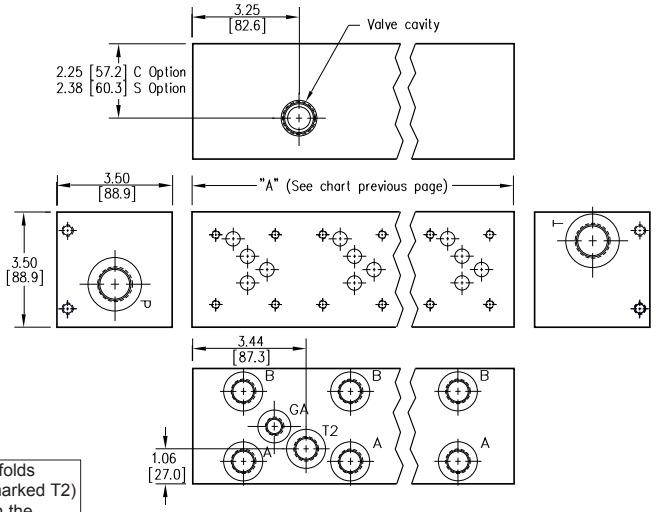
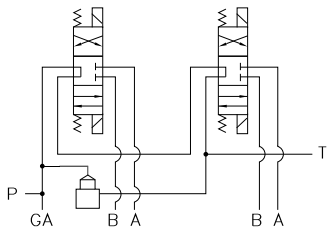
Options - D05 Standard Flow Series Manifold



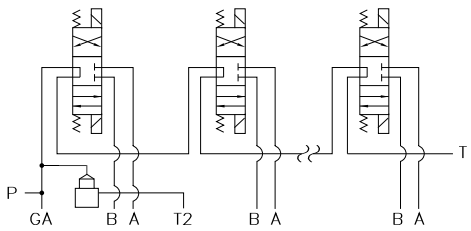


Three and Four station manifolds have a separate side port (marked T2) for the valve. Valve with P in the nose, T out the side, must be used.

Series Circuit with Cavity - (2) station



Series Circuit with Cavity - (3) or (4) station



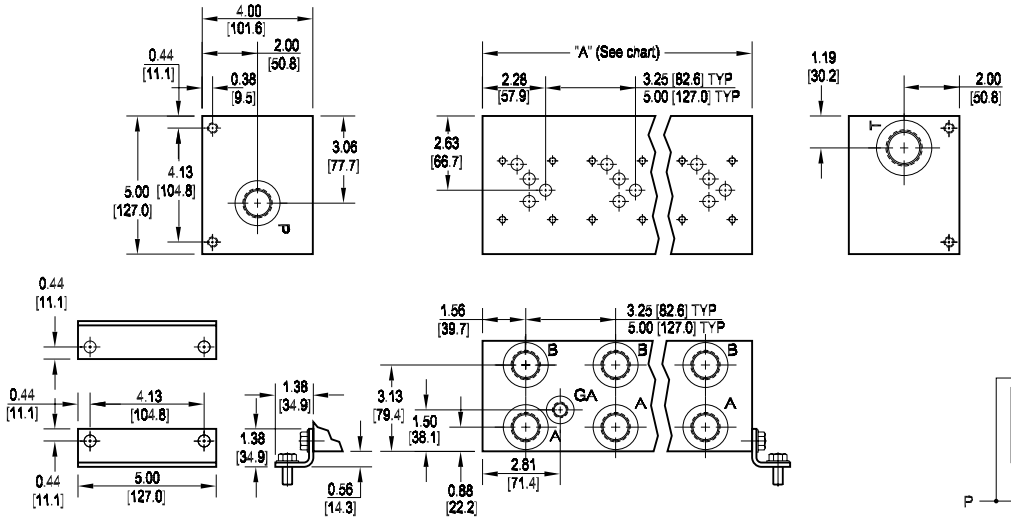
Ordering Information

... /	Cavity

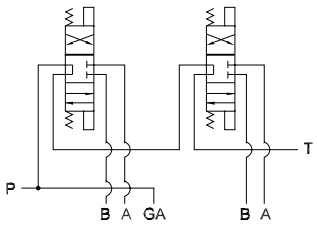
Cavity	
Omit if cavity not required.	
C	Common cavity: 2-station has solenoid clearance. 3 & 4 station does not have solenoid clearance. C-10-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Port Code (ref.)	T2 Port Size 3 and 4 Station Manifold
P	0.50 NPTF • ANSI B1.20.3
S	-8 SAE • ISO 11926
B	0.50 BSPP • ISO 1179
M	M18 ISO • ISO 6149
T	0.50 BSPT • ISO 7

D05 High Flow Series Circuit Manifold



Series Circuit



No. of stations	02	03	04
"A" length (code 3 spa.) inch [mm]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]
apx. weight alum lb [kg]	12 [5]	17 [8]	22 [10]
apx. weight iron lb [kg]	38 [17]	57 [26]	75 [34]
"A" length (code 5 spa.) inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
apx. weight alum lb [kg]	18 [8]	26 [12]	33 [15]
apx. weight iron lb [kg]	48 [22]	77 [35]	106 [48]

All mounting hardware is supplied.
See page 62 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

HS	Series Circuit High Flow

No. of Stations

Aluminum	
02...04	Available with spacing code 3
02...04	Available with spacing code 5
Ductile Iron	
02...04	Available with spacing code 3
02...04	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

Port Threads		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options

See next page for available options and ordering codes.

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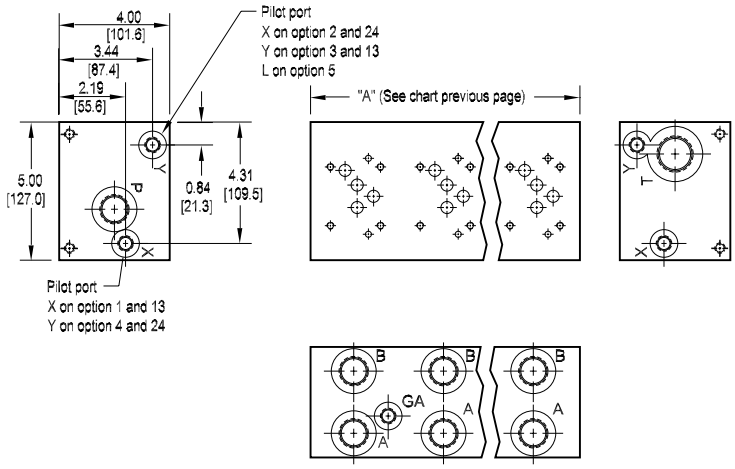
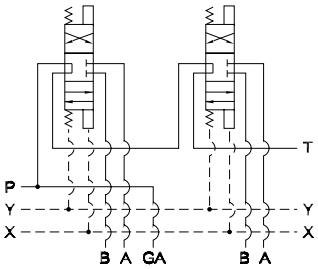
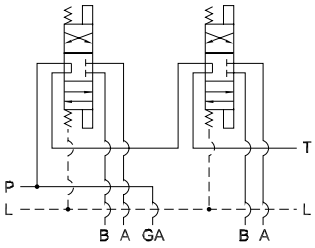
Options - D05 High Flow Series Manifold



Series Circuit with X & Y



Series Circuit with L

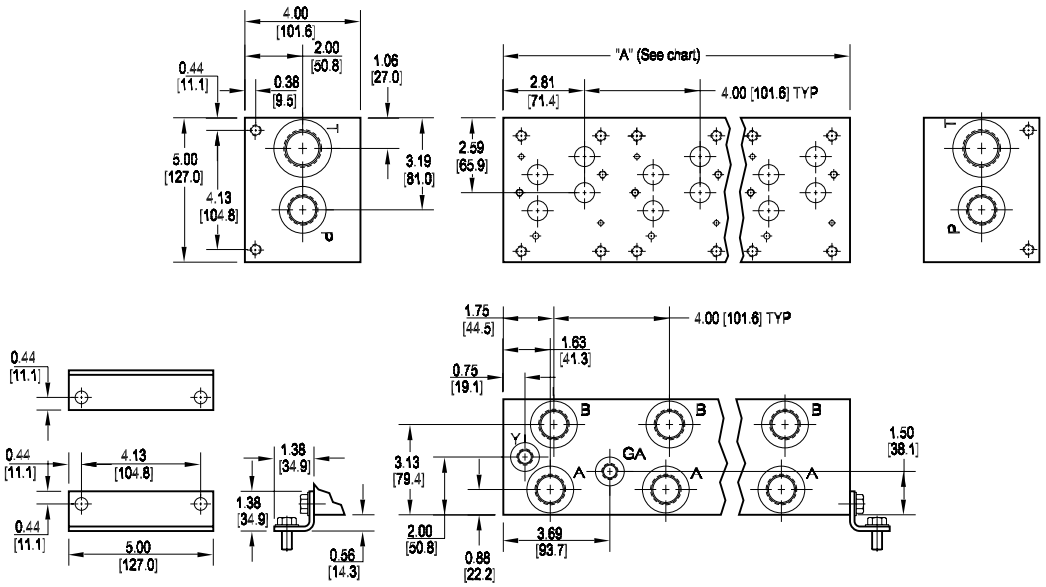


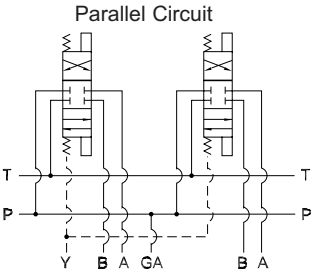
Ordering Information

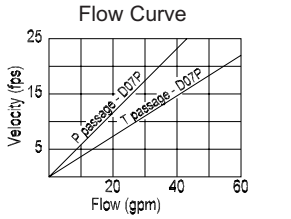
... /	Pilot Ports

Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

D07 Standard Flow Parallel Circuit Manifold







Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

All mounting hardware is supplied.
See page 63 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08
"A" length (code 4 spa.) inch [mm]	4.00 [101.6]	8.00 [203.2]	12.00 [304.8]	16.00 [406.4]	20.00 [508.0]	24.00 [609.6]	28.00 [711.2]	32.00 [812.8]
apx. weight alum lb [kg]	6 [3]	14 [6]	22 [10]	30 [14]	38 [17]	46 [21]	52 [24]	60 [27]
apx. weight iron lb [kg]	24 [11]	46 [21]	69 [31]	90 [41]	114 [52]	135 [61]	158 [72]	180 [82]

* Length of 01 sta. with "C" relief cavity 5.50 [139.7]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit

P	Parallel Manifold Standard Flow

No. of Stations

Aluminum	
01...08	Available with spacing code 4
Ductile Iron	
01...08	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Options

See next page for available options and ordering codes.

Port Threads

Port Threads		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25	0.25
S	SAE • ISO 11926	-12	-16	-6	-4	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	0.25	none
M	ISO • ISO 6149	M27	M33	M14	M10	none
T	BSPT • ISO 7	0.75	1.00	0.38	0.25	none

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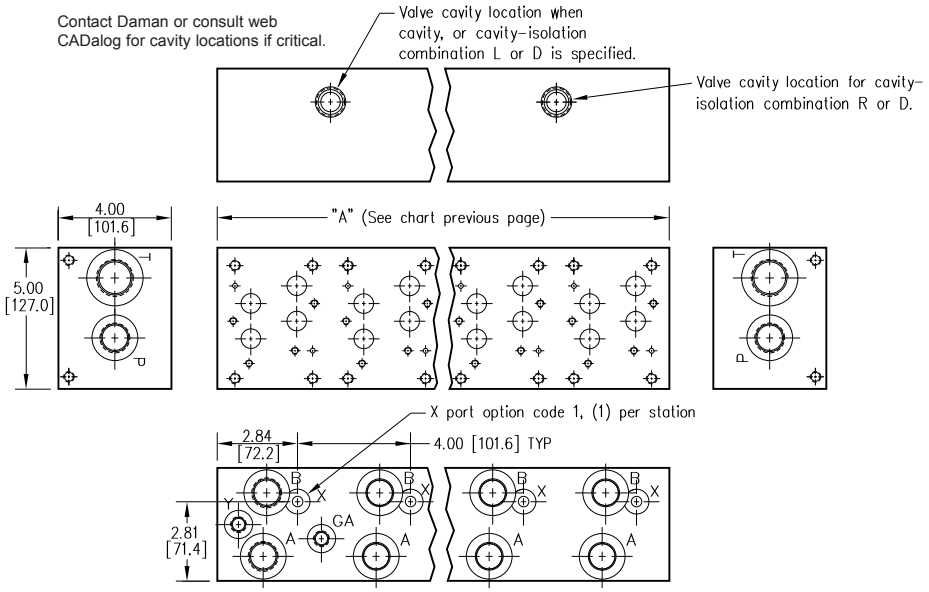
Options - D07 Standard Flow Parallel Manifold



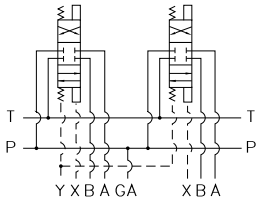
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

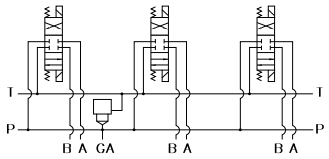
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

Parallel Circuit with X

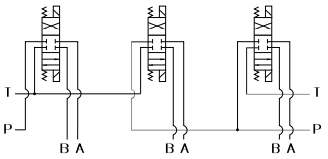


Parallel Circuit with Cavity



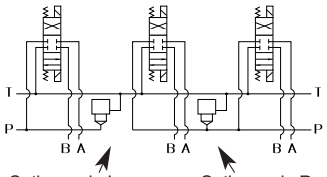
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-07-06 NFPA T3.5.1-D07

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance. C-10-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

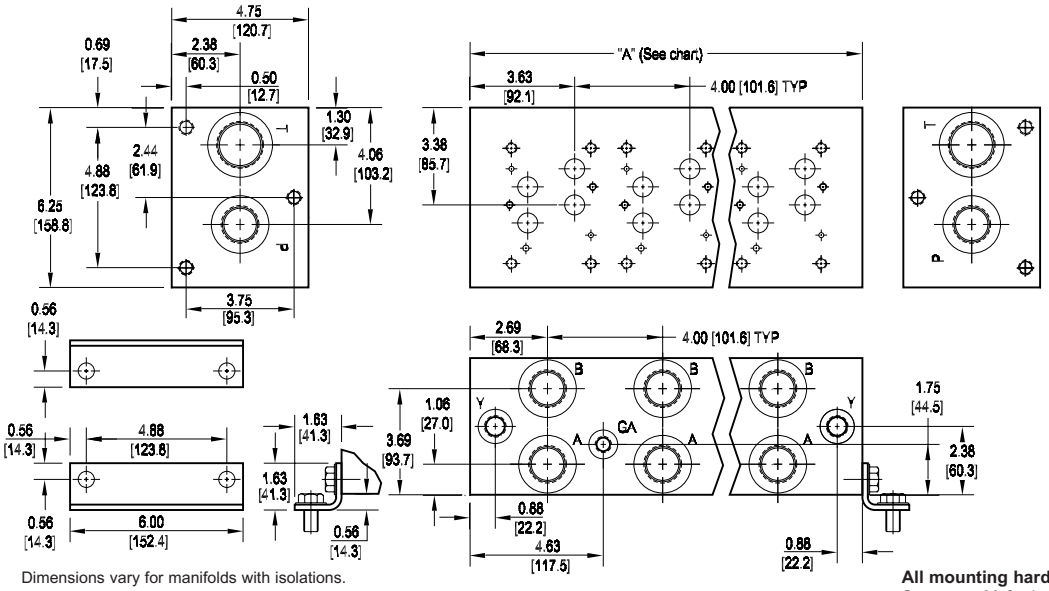
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

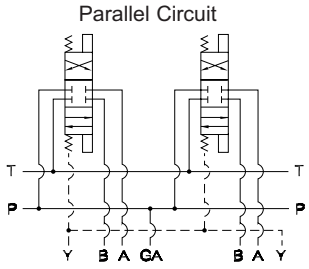
PA...PG	Available with spacing code 4

D07 High Flow Parallel Circuit Manifold

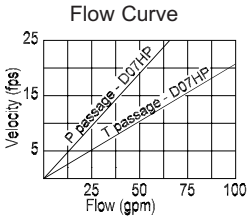


Dimensions vary for manifolds with isolations.

Parallel Circuit



Flow Curve



Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

All mounting hardware is supplied.
See page 63 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08
"A" length (code 4 spa.) inch [mm]	5.63 [142.9]	9.63 [244.5]	13.63 [346.1]	17.63 [447.7]	21.63 [549.3]	25.63 [650.9]	29.63 [752.5]	33.63 [854.1]
apx. weight alum lb [kg]	17 [8]	29 [13]	41 [18]	52 [24]	64 [29]	76 [35]	88 [40]	100 [45]
apx. weight iron lb [kg]	43 [20]	74 [34]	105 [47]	136 [62]	167 [76]	198 [90]	228 [103]	260 [118]

* Length of 01 station with Sun relief cavity 7.00 [177.8]. Length of 01 station with Common relief cavity 6.75 [171.5]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22.3] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...08	Available with spacing code 4
Ductile Iron	
01...08	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.50	0.25	0.25
S	SAE • ISO 11926	-16	-20	-8	-4	-6
B	BSPP • ISO 1179	1.00	1.25	0.50	0.25	none
M	ISO • ISO 6149	M33	M42	M16	M10	none
T	BSPT • ISO 7	1.00	1.25	0.50	0.25	none

Options

See next page for available options and ordering codes.

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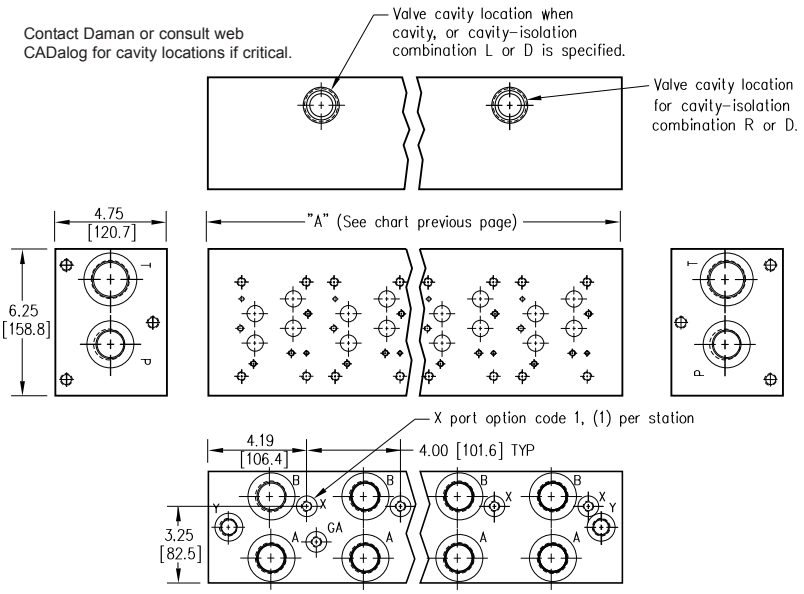
Options - D07 High Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



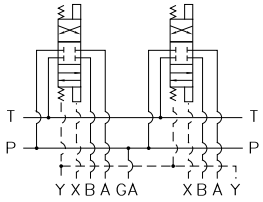
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

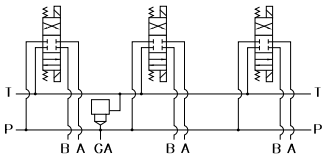
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

Parallel circuit with X

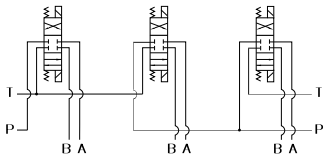


Parallel Circuit with Cavity



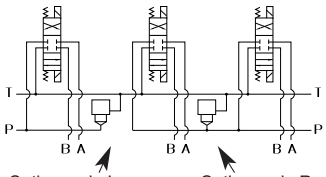
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

. . . /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-07-06 NFPA T3.5.1-D07

Cavity

Omit if relief not required

C	Common cavity: With solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 4

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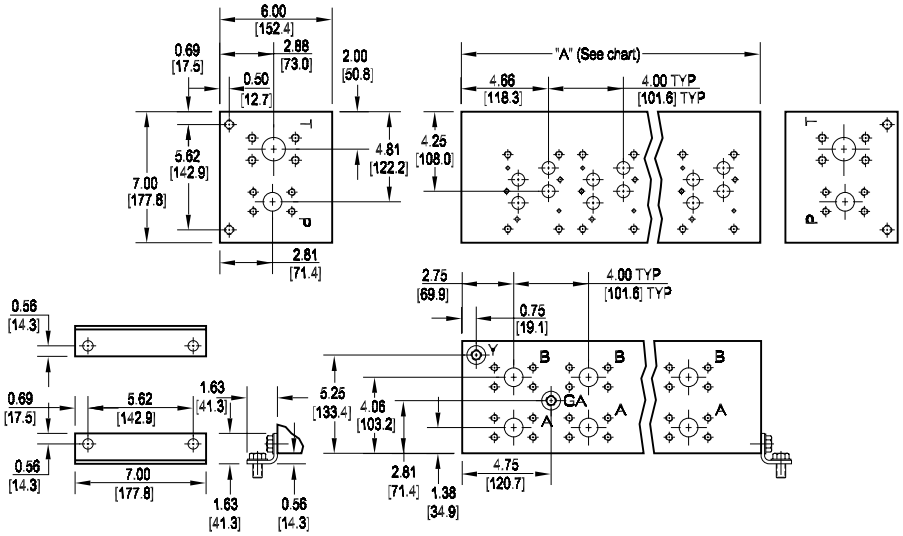
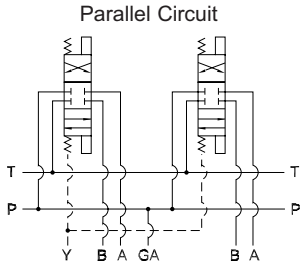
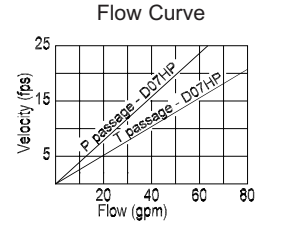
D07 High Flow Parallel Circuit Manifold - Flange Ports







Rated flow Pressure 37 gpm @ 15 fps
Rated flow Tank 57 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06
"A" length inch [mm]	6.63 [168.3]	10.63 [269.9]	14.63 [371.5]	18.63 [473.1]	22.63 [574.7]	26.63 [676.3]
apx. weight alum lb [kg]	28 [12.6]	45 [20]	61 [28]	78 [36]	95 [43]	112 [51]
apx. weight iron lb [kg]	75 [34]	120 [55]	166 [75]	211 [96]	257 [116]	302 [137]

* Length of 01 station with relief cavity 7.13 [181.0]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port	Y Port	X Port *
F	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-6** SAE J1926	**-4** SAE J1926
F / M	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	**M14** ISO 6149	**M10** ISO 6149

* X port is optional. See options on next page.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum or Ductile Iron	
01...06	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.00 CODE 61	1.25 CODE 61

Options

See next page for available options and ordering codes.

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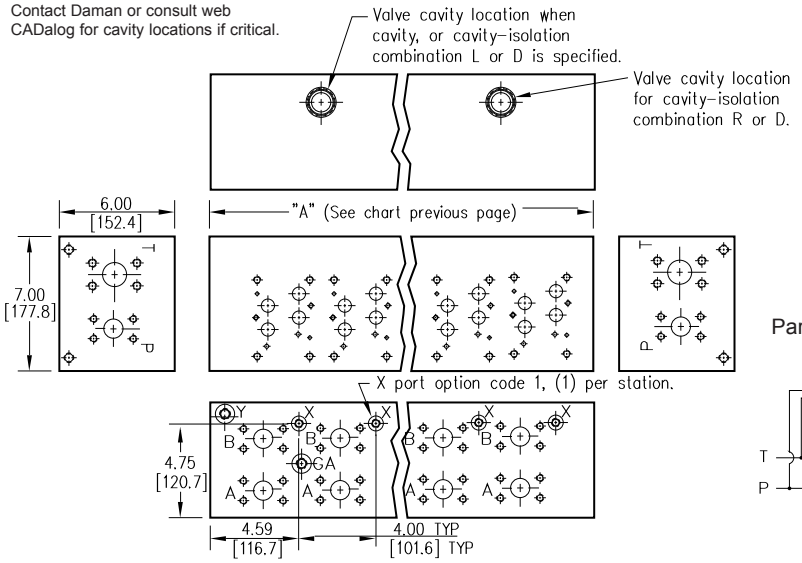
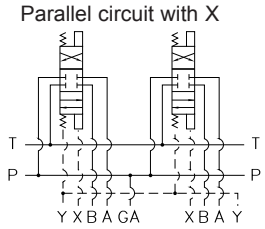
Options - D07 High Flow Parallel Manifold Flange Ports





ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

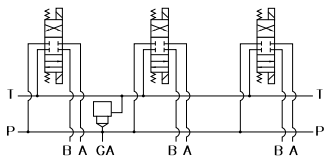
* Stations are numbered left to right.

NOTES:

1) The GA port is not available on a (1) station manifold.

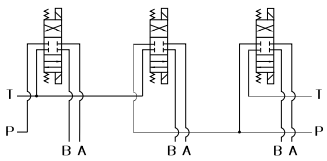
2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Cavity



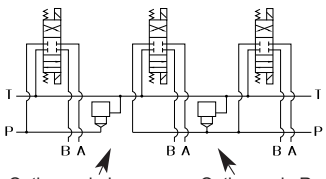
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

Ordering Information

... /	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Cavity

Omit if cavity not required

C	Common cavity: No solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TE	Available with spacing code 4

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-07-06 NFPA T3.5.1-D07

Pressure Isolation

Omit if P isolation not required

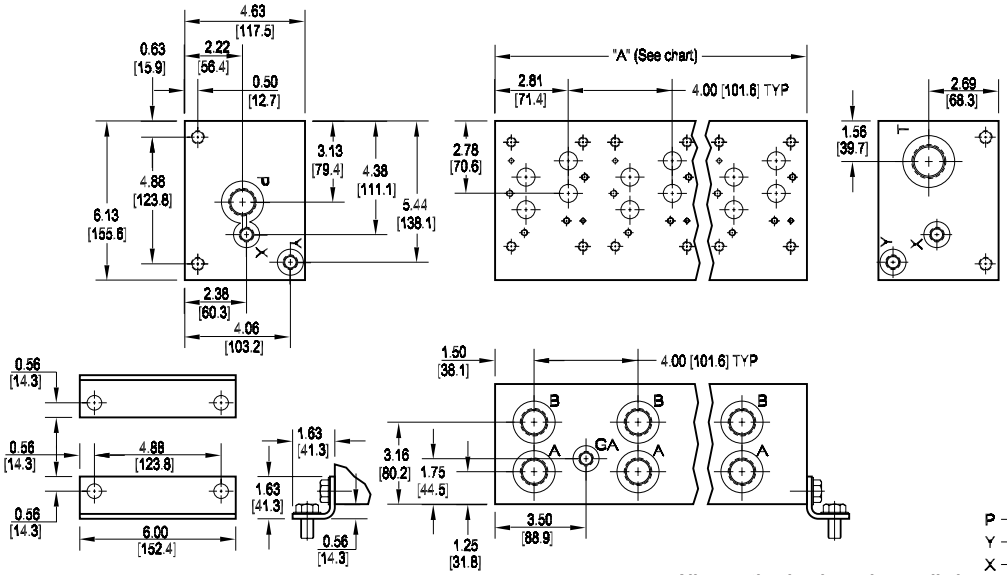
PA...PE	Available with spacing code 4

Cavity & Isolation Combinations

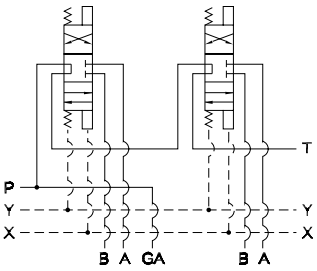
Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D07 Series Circuit Manifold



Series Circuit



All mounting hardware is supplied.
See page 63 for itemized list.

No. of stations	02	03	04
"A" length (code 4 spa.) inch [mm]	8.00 [203.2]	12.00 [304.8]	16.00 [406.4]
apx. weight alum lb [kg]	23 [10]	32 [15]	40 [18]
apx. weight iron lb [kg]	68 [31]	103 [47]	137 [62]

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22.3] DP

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit

S	Series Circuit

No. of Stations

Aluminum	
02...04	Available with spacing code 4
Ductile Iron	
02...04	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T	X & Y	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options

No options available.

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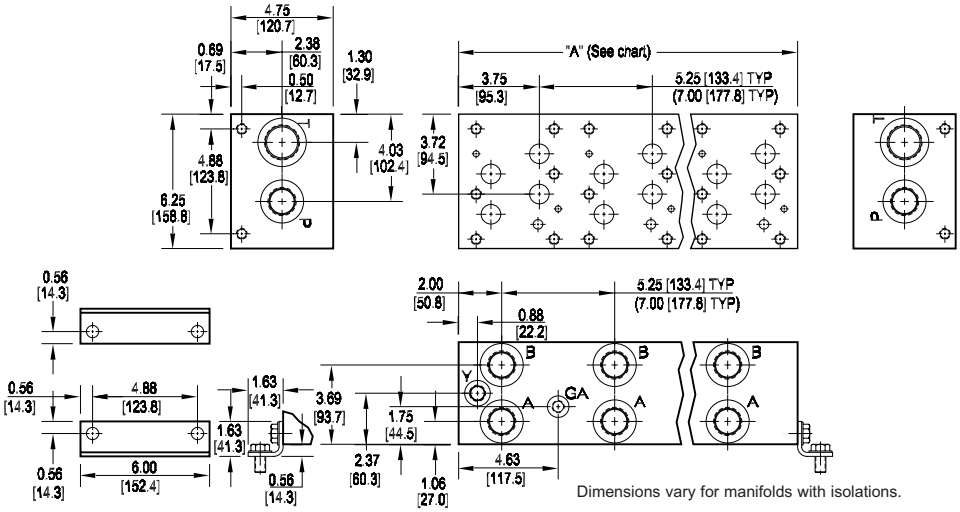
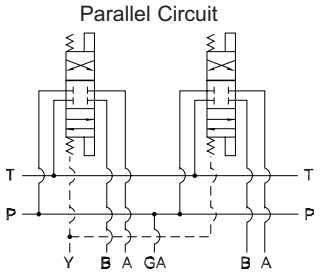
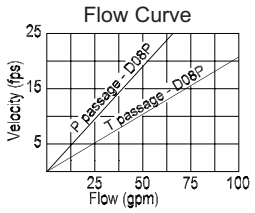
D08 Manifolds ☞

D08 Standard Flow Parallel Manifold



Dimensions vary for manifolds with isolations.





Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	5.25 [133.4]	10.50 [266.7]	15.75 [400.1]	21.00 [533.4]	26.25 [666.8]	31.50 [800.1]	36.75 [933.5]
apx. weight alum lb [kg]	12 [5]	24 [11]	35 [16]	49 [22]	61 [28]	75 [34]	89 [40]
apx. weight iron lb [kg]	45 [20]	90 [41]	136 [62]	181 [82]	226 [103]	271 [123]	356 [162]
"A" length (code 7 spa.) inch [mm]	--	12.25 [311.2]	19.25 [489.0]	26.25 [666.8]	33.25 [844.6]		
apx. weight alum lb [kg]	--	28 [13]	44 [20]	64 [29]	74 [34]		
apx. weight iron lb [kg]	--	105 [48]	166 [75]	226 [103]	286 [130]		

* Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...07	Available with spacing code 5
02...05	Available with spacing code 7
Ductile Iron	
01...07	Available with spacing code 5
02...05	Available with spacing code 7

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25	0.25
S	SAE • ISO 11926	-16	-20	-8	-4	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	0.25	none
M	ISO • ISO 6149	M33	M42	M14	M10	none
T	BSPT • ISO 7	1.00	1.25	0.38	0.25	none

Options

See next page for available options and ordering codes.

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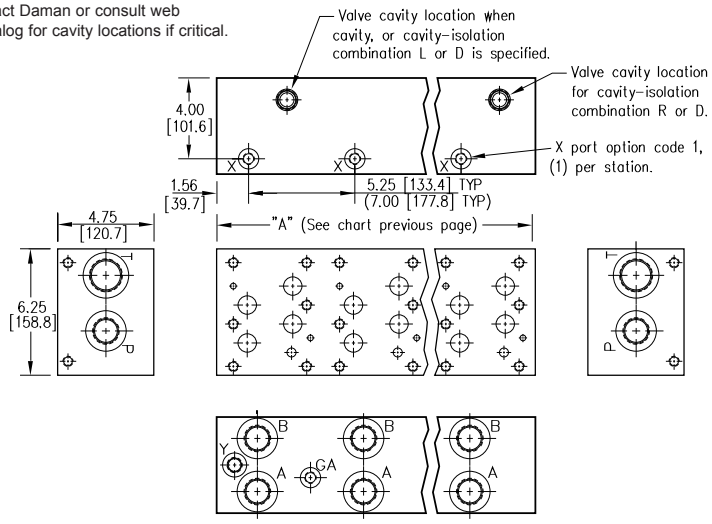
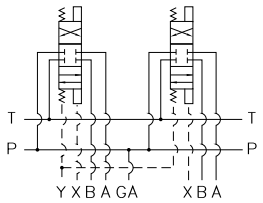
Options - D08 Standard Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X



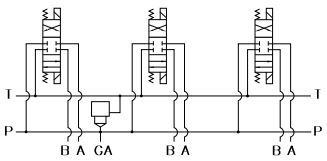
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

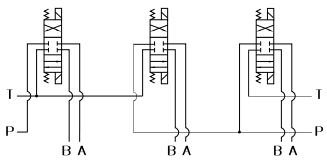
* Stations are numbered left to right.

Parallel Circuit with Cavity



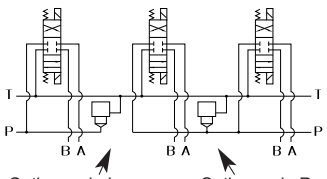
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

. . . /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required	
1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Cavity

Omit if cavity not required	
C	Common cavity: With solenoid clearance C-10-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required	
PA...PF	Available with spacing code 5
PA...PD	Available with spacing code 7

Tank Isolation

Omit if T isolation not required	
TA...TF	Available with spacing code 5
TA...TD	Available with spacing code 7

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

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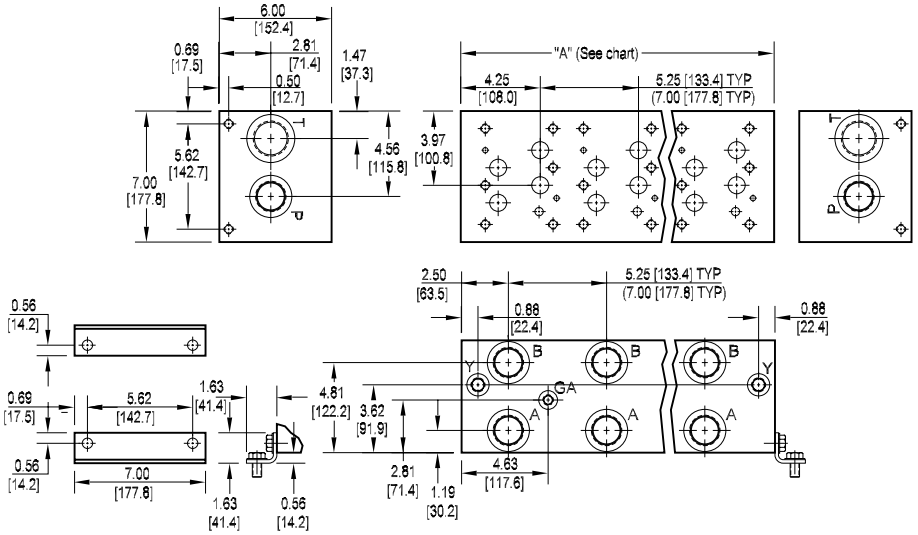
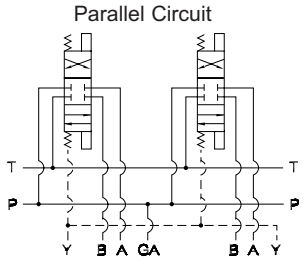
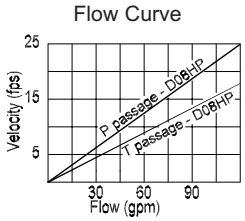
D08 High Flow Parallel Circuit Manifold







Rated flow Pressure 72 gpm @ 15 fps
Rated flow Tank 100 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	6.25 [158.8]	11.50 [292.1]	16.75 [425.5]	22.00 [558.8]	27.25 [692.2]	32.50 [825.5]	37.75 [958.9]
apx. weight alum lb [kg]	26 [12]	48 [22]	70 [32]	92 [42]	114 [52]	136 [62]	158 [72]
apx. weight iron lb [kg]	69 [31]	126 [57]	183 [83]	240 [109]	298 [135]	355 [161]	412 [187]
"A" length (code 7 spa.) inch [mm]	--	13.25 [336.6]	20.25 [514.4]	27.25 [692.2]	34.25 [870.0]		
apx. weight alum lb [kg]	--	55 [25]	85 [39]	114 [52]	143 [65]		
apx. weight iron lb [kg]	--	145 [66]	221 [100]	298 [135]	374 [170]		

* Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...07	Available with spacing code 5
02...05	Available with spacing code 7
Ductile Iron	
01...07	Available with spacing code 5
02...05	Available with spacing code 7

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	1.25	1.50	0.38	0.25	0.25
S	SAE • ISO 11926	-20	-24	-8	-4	-6
B	BSPP • ISO 1179	1.25	1.50	0.50	0.25	none
M	ISO • ISO 6149	M42	M48	M16	M10	none
T	BSPT • ISO 7	1.25	1.50	0.50	0.25	none

Options

See next page for available options and ordering codes.

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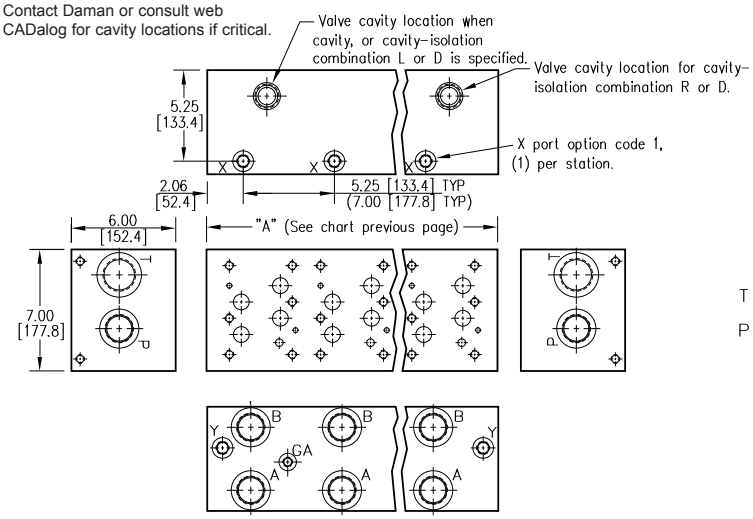
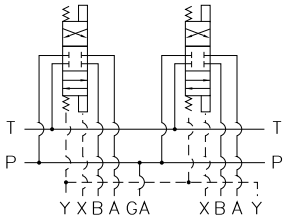
Options - D08 High Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X



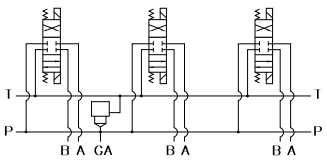
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

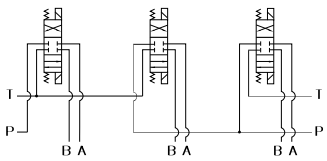
* Stations are numbered left to right.

Parallel Circuit with Cavity



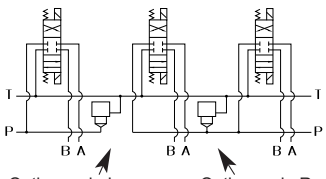
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

. . . /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PF	Available with spacing code 5
PA...PD	Available with spacing code 7

Tank Isolation

Omit if T isolation not required

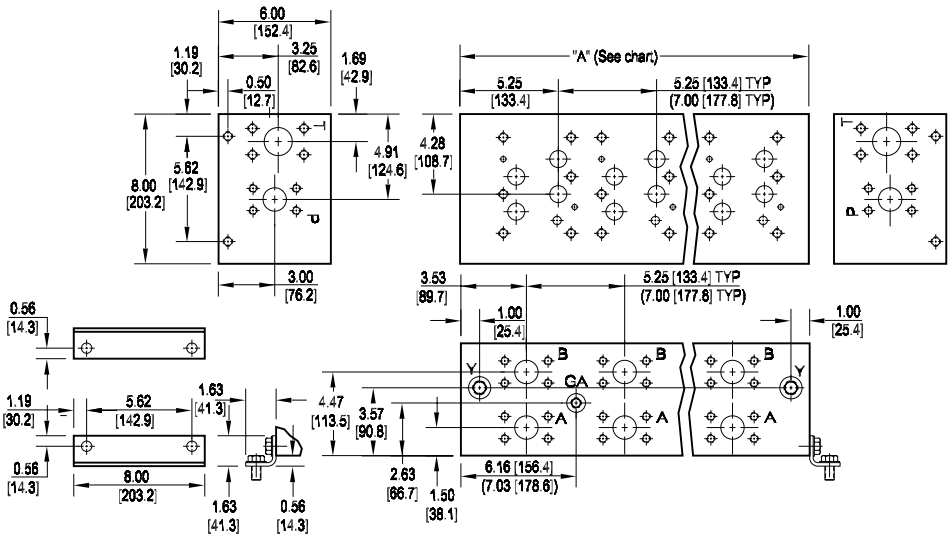
TA...TF	Available with spacing code 5
TA...TD	Available with spacing code 7

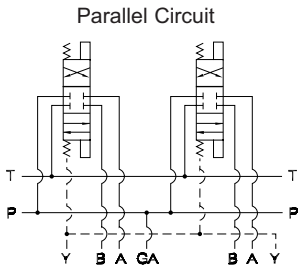
Cavity & Isolation Combinations

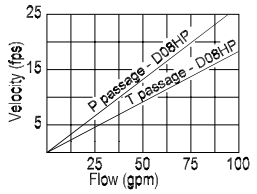
Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D08 High Flow Parallel Circuit Manifold - Flange Ports







Rated flow Pressure 57 gpm @ 15 fps
Rated flow Tank 83 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	7.63 [193.7]	12.88 [327.0]	18.13 [460.4]	23.38 [593.7]	28.63 [727.1]	33.88 [860.4]	39.13 [993.8]
apx. weight alum lb [kg]	37 [16.6]	62 [28]	87 [40]	112 [51]	137 [62]	163 [74]	188 [85]
apx. weight iron lb [kg]	99 [45]	167 [76]	235 [107]	303 [137]	--	--	--
"A" length (code 7 spa.) inch [mm]	--	14.63 [371.5]	21.63 [549.3]	28.63 [727.1]	35.63 [904.9]		
apx. weight alum lb [kg]	--	70 [32]	104 [47]	137 [62]	171 [78]		
apx. weight iron lb [kg]	--	190 [86]	280 [127]	--	--		

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA port	Y port	X port *
F	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-8** SAE J1926	**-4** SAE J1926
F / M	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	**M16** ISO 6149	**M10** ISO 6149

* X port is optional. See options on next page.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...07	Available with spacing code 5
02...05	Available with spacing code 7
Ductile Iron	
01...04	Available with spacing code 5
02...03	Available with spacing code 7

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.25 CODE 61	1.50 CODE 61

Options

See next page for available options and ordering codes.

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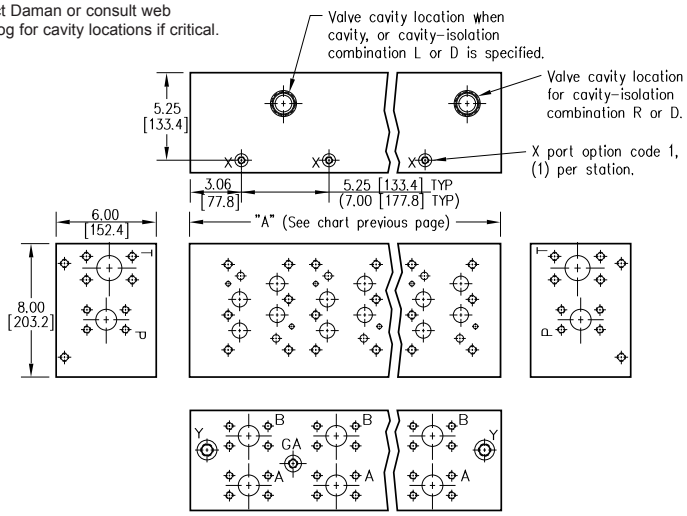
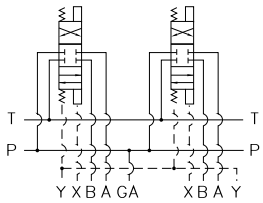
Options - D08 High Flow Parallel Manifold Flange Ports

Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X



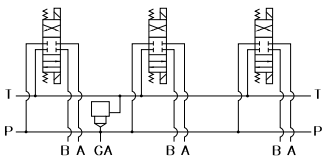
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

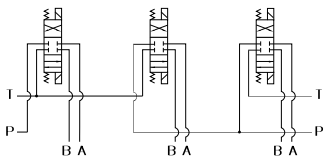
* Stations are numbered left to right.

Parallel Circuit with Cavity



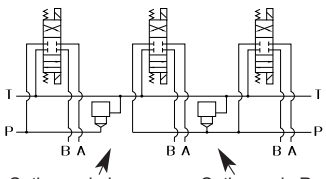
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

... /	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Cavity

Omit if cavity not required

C	Common cavity: No solenoid clearance C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PF	Available with spacing code 5
PA...PD	Available with spacing code 7

Tank Isolation

Omit if T isolation not required

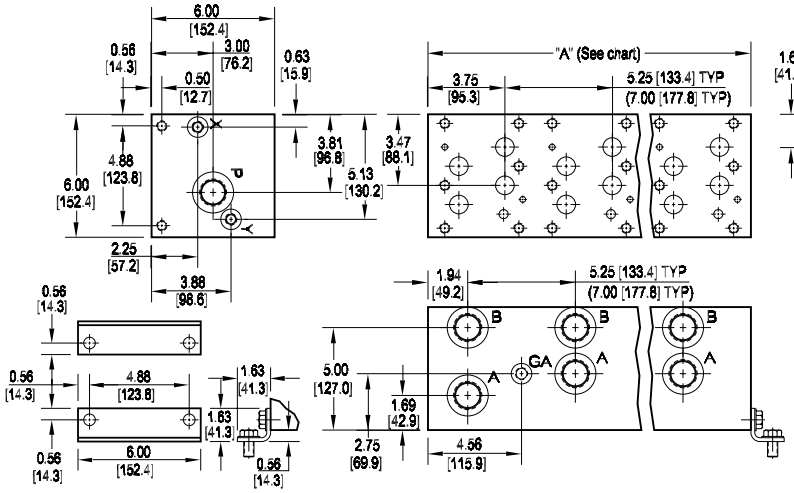
TA...TF	Available with spacing code 5
TA...TD	Available with spacing code 7

Relief / Isolation Combinations

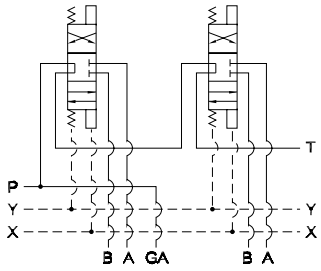
Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

D08 Series Circuit Manifold



Series Circuit



No. of stations	02	03
"A" length (code 5 spa.) inch [mm]	10.50 [266.7]	15.75 [400.1]
apx. weight alum lb [kg]	37 [17]	51 [23]
apx. weight iron lb [kg]	109 [49]	164 [74]
"A" length (code 7 spa.) inch [mm]	12.25 [311.2]	19.25 [489.0]
apx. weight alum lb [kg]	51 [23]	63 [29]
apx. weight iron lb [kg]	127 [58]	200 [91]

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern	
D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit	
S	Series Circuit

No. of Stations	
Aluminum	
02...03	Available with spacing code 5
02...03	Available with spacing code 7
Ductile Iron	
02...03	Available with spacing code 5
02...03	Available with spacing code 7

Valve Spacing	
5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads		P,A,B	T	X & Y	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25
S	SAE • ISO 11926	-16	-20	-6	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	none
M	ISO • ISO 6149	M33	M42	M14	none
T	BSPT • ISO 7	1.00	1.25	0.38	none

Options
No options available.

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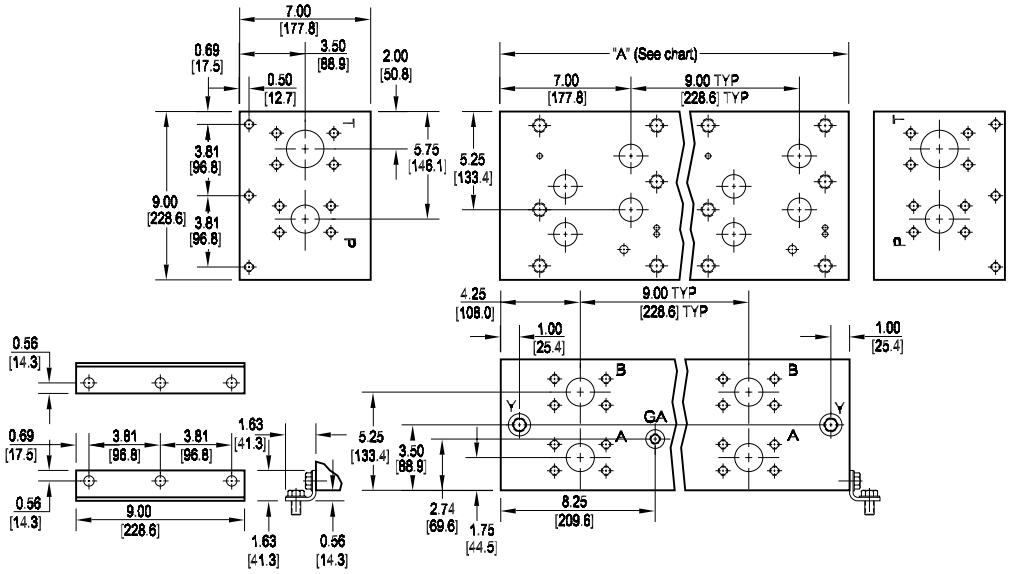
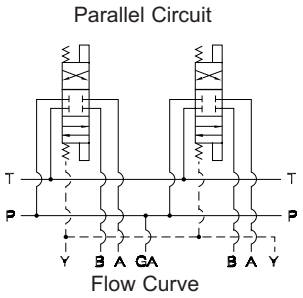
D10 Manifolds ☞

D10 Parallel Circuit Manifold - Flange Ports





Rated flow Pressure 83 gpm @ 15 fps
Rated flow Tank 147 gpm @ 15 fps

No. of stations	01	02	03	04
"A" length inch [mm]	10.00 [254.0]	19.00 [482.6]	28.00 [711.2]	37.00 [939.8]
apx. weight alum lb [kg]	63 [29]	120 [54]	176 [80]	233 [106]
apx. weight iron lb [kg]	170 [77]	323 [147]	--	--

All mounting hardware is supplied.
See page 63 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA port	Y port	X port
F	0.75-10 UNC x 1.63 [41] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-8** SAE J1926	**-6** SAE J1926
F / M	M20 ISO 6H x 1.63 [41] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	**M16** ISO 6149	**M14** ISO 6149

* X port is optional. See options on next page.

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...04	Available with spacing code 9
Ductile Iron	
01...02	Available with spacing code 9

Valve Spacing

9	9.00 inch 228.6 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.50 CODE 61	2.00 CODE 61

Options

See next page for available options and ordering codes.

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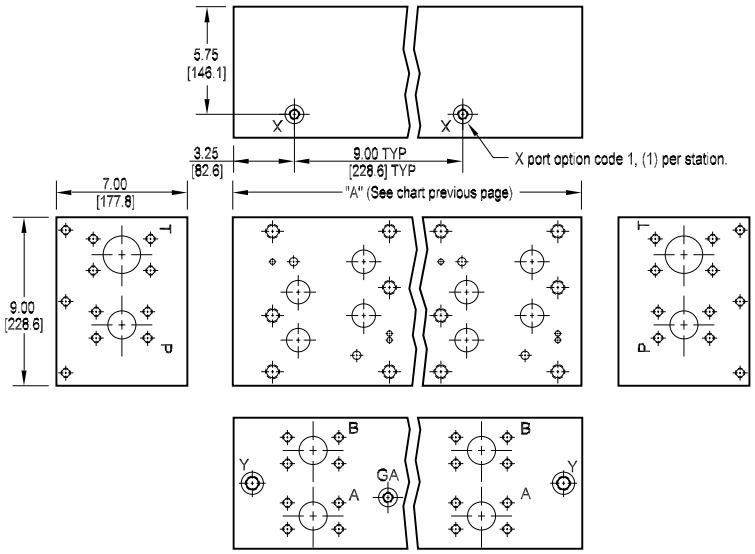
Options - D10 Parallel Manifold - Flange Ports



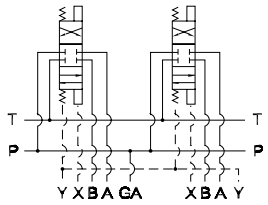
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

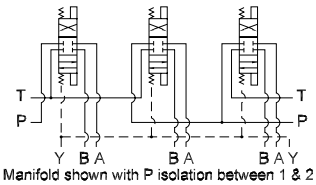
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-04
B	02 & 03	03-04
C	03 & 04	04

* Stations are numbered left to right.

Parallel Circuit with X



Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Ordering Information

... /	Thread Type	Pilot Ports	Pressure Isolation	Tank Isolation

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Pressure Isolation

Omit if P isolation not required

PA...PC	Available with spacing code 9

Tank Isolation

Omit if T isolation not required

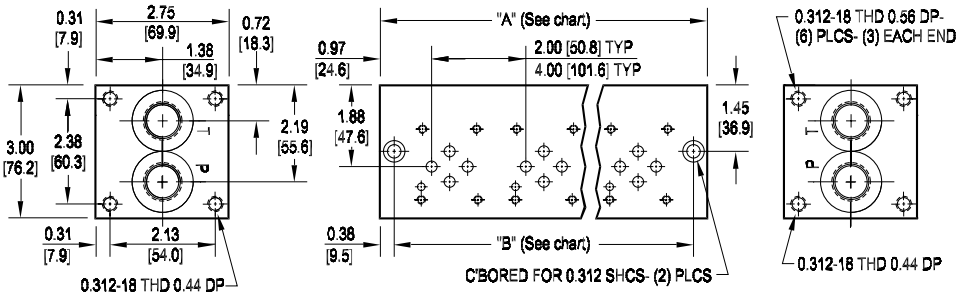
TA...TC	Available with spacing code 9

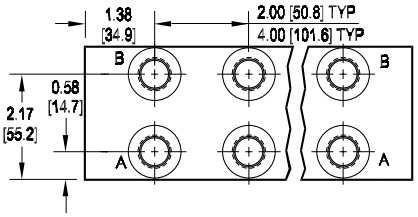
Pilot Ports

Omit if X ports not required

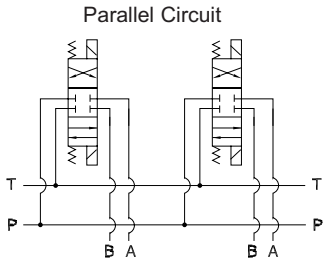
1	X port ISO 4401-08-07 NFPA T3.5.1-D08

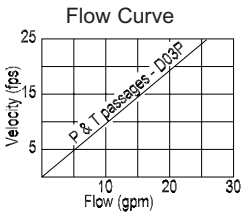
D03 LC Parallel Circuit Manifold





! NOTE:
Mounting hardware is ordered separately.
See page 60 for available bracket or screw mounting kits at no extra charge. Flange and gasket kits are also available for a nominal charge.





Rated flow 14 gpm @ 15 fps

Code 2 (2.00") valve spacing							Code 4 (4.00") valve spacing			
No. of stations	* 01	02	03	04	05	06	No. of stations	02	03	04
"A" length inch [mm]	2.75 [69.9]	4.75 [120.7]	6.75 [171.5]	8.75 [222.3]	10.75 [273.1]	12.75 [323.9]	"A" length inch [mm]	6.75 [171.5]	10.75 [273.1]	14.75 [374.7]
"B" dimension inch [mm]	2.00 [50.8]	4.00 [101.6]	6.00 [152.4]	8.00 [203.2]	10.00 [254.0]	12.00 [304.8]	"B" dimension inch [mm]	6.00 [152.4]	10.00 [254.0]	14.00 [355.6]
apx. weight alum lb [kg]	2.5 [1.2]	4 [2]	6 [3]	7.5 [4]	9 [4.5]	11 [5]	apx. weight alum lb [kg]	6 [3]	9 [4.5]	13 [6]
apx. weight iron lb [kg]	6 [3]	10.5 [5]	15 [7]	19 [9]	23 [11]	28 [13]	apx. weight iron lb [kg]	15 [8]	23 [12]	32 [15]

* "A" length of 01 station with relief cavity is 3.75 [95.3]. "B" dimension is 3.00 [76.2].

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

P	Parallel Circuit Standard Flow

Valve Spacing

2	2.00 inch [50.8 mm]
4	4.00 inch [101.6 mm]

Options

See next page for available options and ordering codes.

Product Line

L	Low Cost

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

No. of Stations

Aluminum	
01...06	Available with spacing code 2
02...04	Available with spacing code 4
Ductile Iron	
01...06	Available with spacing code 2
02...04	Available with spacing code 4

Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.50	0.38
S	SAE • ISO 11926	-10	-8

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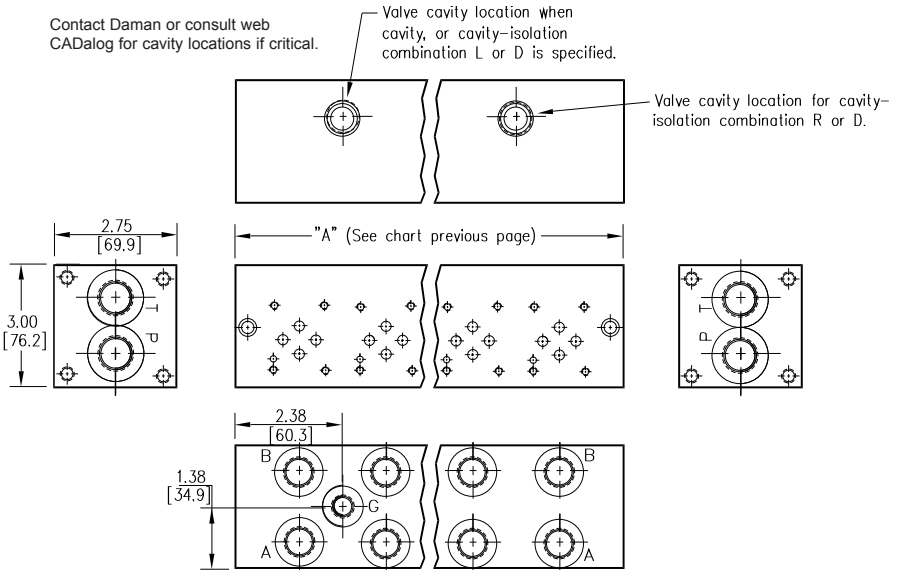
Options - D03 LC Parallel Manifold



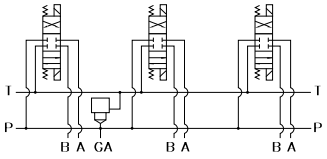
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.00 [50.8] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06
4.00 [101.6] spacing		
A	01 & 02	02-04
B	02 & 03	03-04
C	03 & 04	04

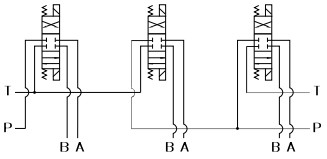
* Stations are numbered left to right.

Parallel Circuit with Cavity and Gauge Port



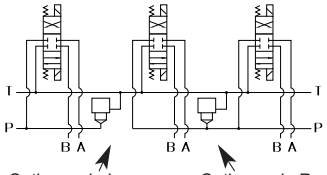
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is specified.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

. . . /	Gauge Port	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Gauge Port

Omit if gauge port not required.

G	Gauge Port for system pressure

If Port Thread code is:
P, then Gauge port = 0.25 NPTF
S, then Gauge port = -4 SAE

Cavity

Omit if cavity not required.

C	Common cavity: No solenoid clearance C-10-2 (P in nose)
S	Sun Cavity: T-10A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required.

TA...TE	Available with spacing code 2
TA...TC	Available with spacing code 4

Relief / Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required.
Not available with G option.

PA...PE	Available with spacing code 2
PA...PC	Available with spacing code 4

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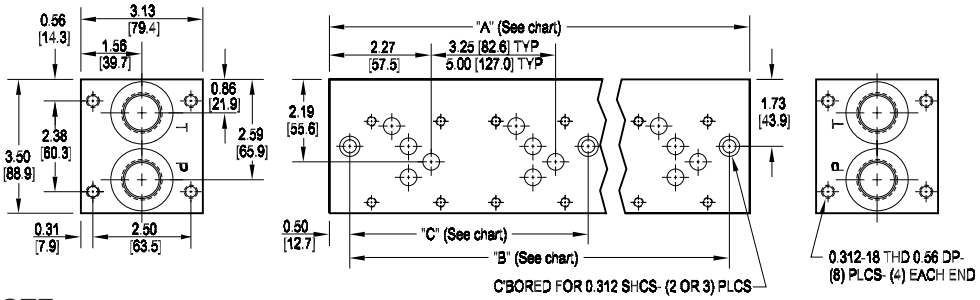
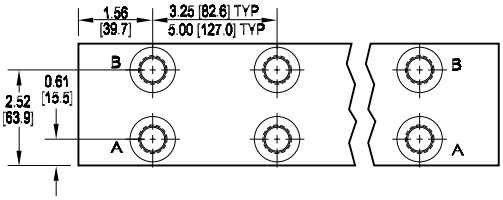
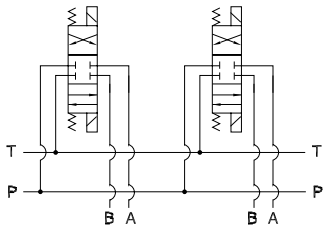
D05 LC Parallel Circuit Manifold



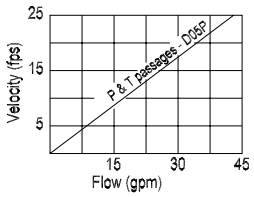
! NOTE:
Mounting hardware is ordered separately.
See page 60 for available bracket or screw mounting kits at no extra charge. Flange and gasket kits are also available for a nominal charge.



Parallel Circuit



Flow Curve



Rated flow 25 gpm @ 15 fps

Code 3 (3.25") valve spacing							Code 5 (5.00") valve spacing			
No. of stations	* 01	02	03	04	05	06	No. of stations	02	03	04
"A" length inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	"A" length inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
"B" dimension inch [mm]	2.25 [57.2]	5.50 [139.7]	8.75 [222.3]	12.00 [304.8]	15.25 [387.4]	18.50 [469.9]	"B" dimension inch [mm]	7.25 [184.2]	12.25 [311.2]	17.25 [438.2]
"C" dimension inch [mm]	--	--	--	--	6.00 [152.4]	9.25 [235.0]	"C" dimension inch [mm]	--	--	8.63 [219.1]
apx. weight alum lb [kg]	4 [2]	7.5 [3]	11 [5]	14.5 [7]	18 [8]	21.5 [10]	apx. weight alum lb [kg]	9 [4]	15 [7]	20 [9]
apx. weight iron lb [kg]	9.5 [4.5]	19 [8.5]	28 [13]	37 [17]	46.5 [21]	56 [25.5]	apx. weight iron lb [kg]	24 [11]	38 [17]	52 [24]

* "A" length of 01 station with relief cavity is 4.50 [114.3]. "B" dimension is 3.50 [88.9].

Ordering Information

Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

P	Parallel Circuit Standard Flow

Valve Spacing

3	3.25 inch [82.6 mm]
5	5.00 inch [127.0 mm]

Options

See next page for available options and ordering codes.

Product Line

L	Low Cost

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

No. of Stations

Aluminum	
01...06	Available with spacing code 3
02...04	Available with spacing code 5
Ductile Iron	
01...06	Available with spacing code 3
02...04	Available with spacing code 5

Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.50
S	SAE • ISO 11926	-12	-8

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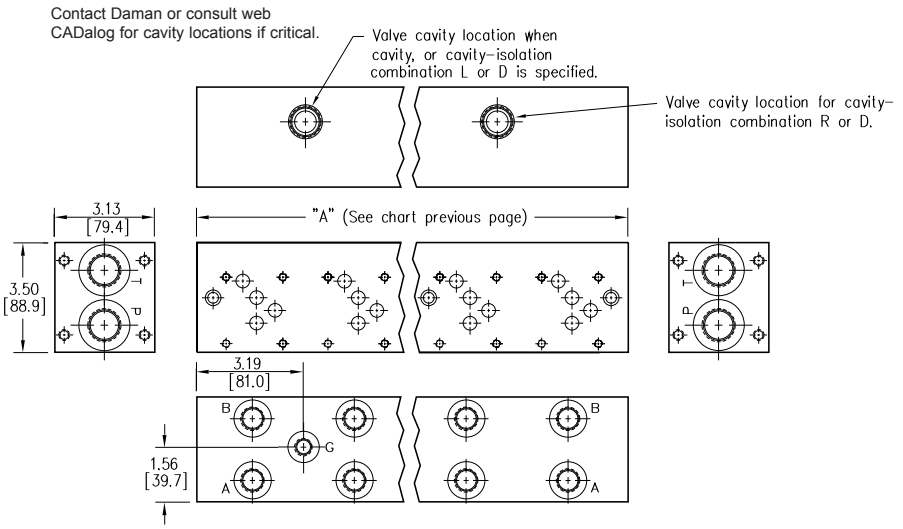
Options - D05 LC Parallel Manifold



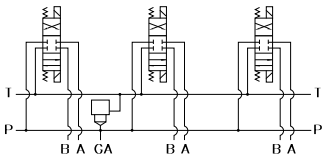
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06
5.00 [127.0] spacing		
A	01 & 02	02-04
B	02 & 03	03-04
C	03 & 04	04

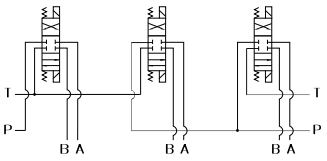
* Stations are numbered left to right.

Parallel Circuit with Cavity and Gauge Port



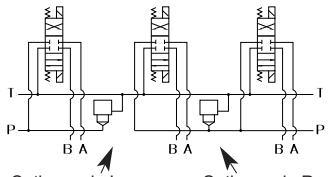
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is specified.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Gauge Port	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Gauge Port

Omit if gauge port not required.

G	Gauge Port for system pressure

If Port Thread code is:
P, then Gauge port = 0.25 NPTF
S, then Gauge port = -4 SAE

Cavity

Omit if cavity not required.

C	Common cavity: With solenoid clearance C-10-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required.

TA...TE	Available with spacing code 3
TA...TC	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required. Not available with G option.

PA...PE	Available with spacing code 3
PA...PC	Available with spacing code 5

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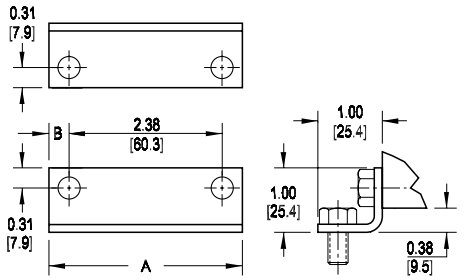
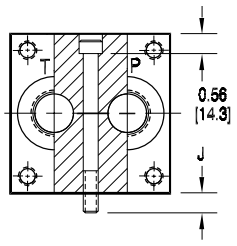
Mounting Kits for LC Manifolds

Mounting Bracket

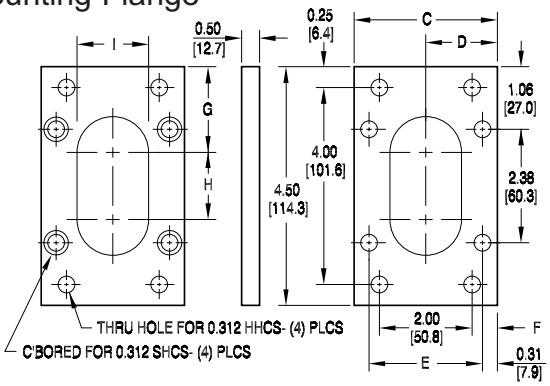


Dim	A	B	C	D	E	F	G	H	I	J	K
D03	3.00 [76.2]	0.31 [7.9]	2.75 [69.9]	1.38 [34.9]	2.13 [54.0]	0.38 [9.5]	1.47 [37.3]	1.47 [37.3]	1.33 [33.7]	0.56 [14.3]	3.25 [82.6]
D05	3.50 [88.9]	0.56 [14.3]	3.13 [79.4]	1.56 [39.7]	2.50 [63.5]	0.56 [14.3]	1.36 [34.6]	1.73 [44.0]	1.61 [41.0]	0.69 [17.5]	3.53 [89.7]

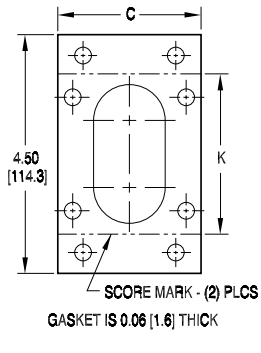
Mounting Screw



Mounting Flange



Gasket



Bill of Materials				
Mounting Bracket and Mounting Flange Kits	185-D03MKL	185-D03MKV	185-D05MKL	185-D05MKV
(2) zinc coated steel brackets	●		●	
(1) zinc coated steel end mounting plate		●		●
(8) 0.312-18 x 0.63 long hex washer head cap screws	●		●	
(1) 0.312-18 x 0.50 long socket head cap screw		●		
(3) 0.312-18 x 0.63 long socket head cap screws		●		
(4) 0.312-18 x 0.75 long socket head cap screws				●
(4) 0.312-18 x 1.00 long hex head cap screws		●		●
(4) 0.312 high collar lock washers		●		●
(1) Tank top gasket		●		●
Mounting Screw Kits	185-D03MKB2	185-D05MKB2	185-D05MKB3	
(2) 0.312-18 x 2.75 long socket head cap screws	●			
(2) 0.312-18 x 3.25 long socket head cap screws		●		
(3) 0.312-18 x 3.25 long socket head cap screws			●	

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Inventory Number	—	Manifold Size	Mounting Kit	Mounting Configuration	Number of Screws

185
(Inventory Number)

Manifold Size	
D03	D03 Manifold
D05	D05 Manifold

Configuration	
L	Mounting Bracket kit
B	Mounting Screw kit
V	Mounting Flange kit (Includes Gasket)
G	Gasket only

Mounting Kit	
MK	Mounting Kit

No. of Screws	
Specifiy for Mounting Screw kits (type B) only.	
2	Two mounting holes on manifold. LC D03 1-6 stations. LC D05 1-4 stations with code 3 spacing. LC D05 2-3 stations with code 5 spacing.
3	Three mounting holes on manifold. LC D05 5-6 stations with code 3 spacing. LC D05 4 station with code 5 spacing.

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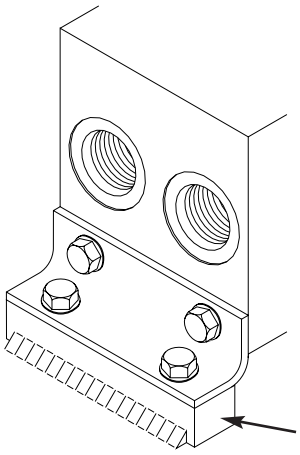
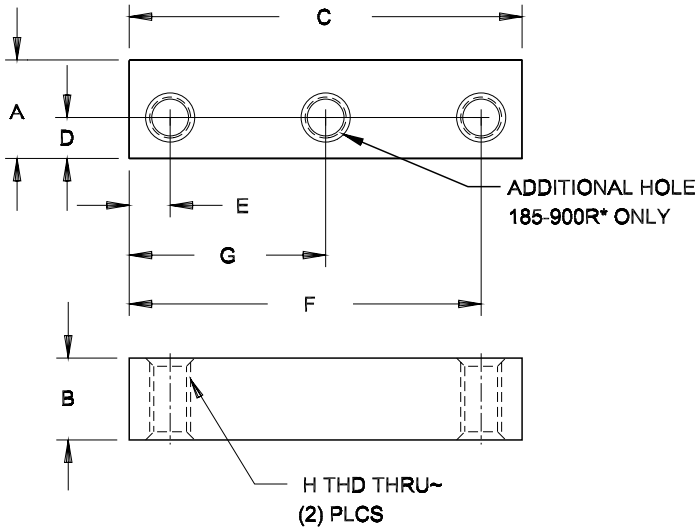
Mounting Bracket Riser Blocks



Riser block
Material mild steel
Weldable ● uncoated



Part No.	A	B	C	D	E	F	G	H THD
185-250RU	0.63 [16.0]	0.50 [12.7]	2.50 [63.5]	0.25 [6.4]	0.25 [6.4]	2.25 [57.2]	--	0.250-20 UNC-2B
185-250RM								M6 x 1 ISO 6H
185-300RU	0.75 [19.1]	0.63 [16.0]	3.00 [76.2]	0.31 [7.9]	0.31 [7.9]	2.69 [68.3]	--	0.312-18 UNC-2B
185-300RM								M8 x 1.25 ISO 6H
185-350RU	0.75 [19.1]	0.63 [16.0]	3.50 [88.9]	0.31 [7.9]	0.56 [14.2]	2.94 [74.6]	--	0.312-18 UNC-2B
185-350RM								M8 x 1.25 ISO 6H
185-400RU	0.75 [19.1]	0.63 [16.0]	4.00 [101.6]	0.31 [7.9]	0.31 [7.9]	3.69 [93.7]	--	0.312-18 UNC-2B
185-400RM								M8 x 1.25 ISO 6H
185-500RU	1.00 [25.4]	0.75 [19.1]	5.00 [127.0]	0.44 [11.2]	0.44 [11.2]	4.56 [115.9]	--	0.375-16 UNC-2B
185-500RM								M10 x 1.5 ISO 6H

Part No.	A	B	C	D	E	F	G	H THD
185-600RU	1.25 [31.8]	1.00 [25.4]	6.00 [152.4]	0.56 [14.2]	0.56 [14.2]	5.44 [138.1]	--	0.500-13 UNC-2B
185-600RM								M12 x 1.75 ISO 6H
185-700RU	1.25 [31.8]	1.00 [25.4]	7.00 [177.8]	0.56 [14.2]	0.69 [17.5]	6.31 [160.3]	--	0.500-13 UNC-2B
185-700RM								M12 x 1.75 ISO 6H
185-800RU	1.25 [31.8]	1.00 [25.4]	8.00 [203.2]	0.56 [14.2]	1.19 [30.2]	6.81 [173.0]	--	0.500-13 UNC-2B
185-800RM								M12 x 1.75 ISO 6H
185-900RU	1.25 [31.8]	1.00 [25.4]	9.00 [228.6]	0.56 [14.2]	0.69 [17.5]	8.31 [211.1]	4.50 [114.3]	0.500-13 UNC-2B
185-900RM								M12 x 1.75 ISO 6H

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Ordering Information

Inventory Number	—	Bracket Size	Riser	Thread Type

185
(Inventory Number)

Bracket Size	
250	2.50" Bracket
300	3.00" Bracket
350	3.50" Bracket
400	4.00" Bracket
500	5.00" Bracket
600	6.00" Bracket
700	7.00" Bracket
800	8.00" Bracket
900	9.00" Bracket

R
(Riser Block)

Thread Type	
U	UNC Inch Threads
M	Metric Threads

Manifold Mounting Hardware

Part no.	Cat. pg.	Mtg. Kit no.	Gauge Port Plug	Mounting Screws	Brackets
* D02 P 01 1 P	6-7	250-MKO	n/a	(8) UNC 0.25-20 x 0.50 long hex washer cap screw	(2) Steel brackets
* D02 P 01 1 S	6-7	250-MKO	n/a		
* D02 * ** 1 P	6-9	250-MKP	(1) 0.25-18 NPTF LSPP		
* D02 * ** 1 S	6-9	250-MKS	(1) -6 SAE hex socket plug		
* D02 * ** 1 B	6-9	250-MKM	n/a	(8) ISO 6H M6-1.0 x 12mm HHCS and (8) 0.25 SAE N series washers	
* D02 * ** 1 M	6-9	250-MKM	n/a		
* D02 * ** 1 T	6-9	250-MKM	n/a		
* D03 P 01 2 P	10-11	300-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 P 01 2 S	10-11	300-MKO	n/a		
* D03 * ** * P	10-11, 20-21	300-MKP	(1) 0.25-18 NPTF LSPP		
* D03 * ** * S	10-11, 20-21	300-MKS	(1) -6 SAE hex socket plug		
* D03 * ** * B	10-11, 20-21	300-MKM	n/a	(8) ISO 6H M8-1.25 x 16mm HHCS and (8) 0.31 SAE N series washers	
* D03 * ** * M	10-11, 20-21	300-MKM	n/a		
* D03 * ** * T	10-11, 20-21	300-MKM	n/a		
* D03 TF *	13	400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 HP 01 2 P	14-15	400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 HP 01 2 S	14-15	400-MKO	n/a		
* D03 HP ** * P	14-15	400-MKP	(1) 0.25-18 NPTF LSPP		
* D03 HP ** * S	14-15	400-MKS	(1) -6 SAE hex socket plug		
* D03 HP ** * B	14-15	400-MKM	n/a	(8) ISO 6H M8-1.25 x 16mm HHCS and (8) 0.31 SAE N series washers	
* D03 HP ** * M	14-15	400-MKM	n/a		
* D03 HP ** * T	14-15	400-MKM	n/a		
* D03 HP 01 4 F	16-17	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D03 HP ** 4 F	16-17	500-MKS	(1) -6 SAE hex socket plug		
* D03 HP ** 4 F/M	16-17	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 P 01 3 P	22-23	350-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D05 P 01 3 S	22-23	350-MKO	n/a		
* D05 * ** * P	22-23, 34-35	350-MKP	(1) 0.25-18 NPTF LSPP		
* D05 * ** * S	22-23, 34-35	350-MKS	(1) -6 SAE hex socket plug		
* D05 * ** * B	22-23, 34-35	350-MKM	n/a	(8) ISO 6H M8-1.25 x 16mm HHCS and (8) 0.31 SAE N series washers	
* D05 * ** * M	22-23, 34-35	350-MKM	n/a		
* D05 * ** * T	22-23, 34-35	350-MKM	n/a		
* D05 TF *	25	400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D05 HP 01 3 P	26-27	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 HP 01 3 S	26-27	500-MKO	n/a		
* D05 H* ** * P	26-27, 36-37	500-MKP	(1) 0.25-18 NPTF LSPP		
* D05 H* ** * S	26-27, 36-37	500-MKS	(1) -6 SAE hex socket plug		
* D05 H* ** * B	26-27, 36-37	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* D05 H* ** * M	26-27, 36-37	500-MKM	n/a		
* D05 H* ** * T	26-27, 36-37	500-MKM	n/a		
* D05 HP 01 5 F	28-29	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 HP ** 5 F	28-29	500-MKS	(1) -6 SAE hex socket plug		
* D05 HP ** 5 F/M	28-29	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets

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Manifold Mounting Hardware

Part no.	Cat. pg.	Mtg. Kit no.	Gauge Port Plug	Mounting Screws	Brackets
* D05 JP 01 3 P	32-33	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 JP 01 3 S	32-33	500-MKO	n/a		
* D05 JP ** * P	32-33	500-MKP	(1) 0.25-18 NPTF LSPP		
* D05 JP ** * S	32-33	500-MKS	(1) -6 SAE hex socket plug		
* D05 JP ** * B	32-33	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* D05 JP ** * M	32-33	500-MKM	n/a		
* D05 JP ** * T	32-33	500-MKM	n/a		
* D07 P 01 3 P	38-39	500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D07 P 01 3 S	38-39	500-MKO	n/a		
* D07 P ** * P	38-39	500-MKP	(1) 0.25-18 NPTF LSPP		
* D07 P ** * S	38-39	500-MKS	(1) -6 SAE hex socket plug		
* D07 P ** * B	38-39	500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* D07 P ** * M	38-39	500-MKM	n/a		
* D07 P ** * T	38-39	500-MKM	n/a		
* D07 HP 01 4 P	40-41	600-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 HP 01 4 S	40-41	600-MKO	n/a		
* D07 HP ** 4 P	40-41	600-MKP	(1) 0.25-18 NPTF LSPP		
* D07 HP ** 4 S	40-41	600-MKS	(1) -6 SAE hex socket plug		
* D07 HP ** 4 B	40-41	600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D07 HP ** 4 M	40-41	600-MKM	n/a		
* D07 HP ** 4 T	40-41	600-MKM	n/a		
* D07 HP 01 4 F	42-43	700-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 HP ** 4 F	42-43	700-MKS	(1) -6 SAE hex socket plug		
* D07 HP ** 4 F/M	42-43	700-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 S ** 4 P	44	600-MKP	(1) 0.25-18 NPTF LSPP	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 S ** 4 S	44	600-MKS	(1) -6 SAE hex socket plug		
* D07 S ** 4 B	44	600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D07 S ** 4 M	44	600-MKM	n/a		
* D07 S ** 4 T	44	600-MKM	n/a		
* D08 P 01 5 P	46-47	600-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D08 P 01 5 S	46-47	600-MKO	n/a		
* D08 * ** * P	46-47, 52	600-MKP	(1) 0.25-18 NPTF LSPP		
* D08 * ** * S	46-47, 52	600-MKS	(1) -6 SAE hex socket plug		
* D08 * ** * B	46-47, 52	600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D08 * ** * M	46-47, 52	600-MKM	n/a		
* D08 * ** * T	46-47, 52	600-MKM	n/a		
* D08 HP 01 5 P	48-49	700-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D08 HP 01 5 S	48-49	700-MKO	n/a		
* D08 HP ** * P	48-49	700-MKP	(1) 0.25-18 NPTF LSPP		
* D08 HP ** * S	48-49	700-MKS	(1) -6 SAE hex socket plug		
* D08 HP ** * B	48-49	700-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D08 HP ** * M	48-49	700-MKM	n/a		
* D08 HP ** * T	48-49	700-MKM	n/a		
* D08 HP ** * F	50-51	800-MKS	(1) -6 SAE hex socket plug	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D08 HP ** * F/M	50-51	800-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D10 P ** 9 F	54-55	900-MKS	(1) -6 SAE hex socket plug	(12) UNC 0.50-13 x 1.00 long HHCS and (12) 0.50 SAE N series washers	(2) Steel brackets
* D10 P ** 9 F/M	54-55	900-MKM	n/a	(12) ISO 6H M12-1.75 x 25mm HHCS and (12) 0.50 SAE N series washers	(2) Steel brackets

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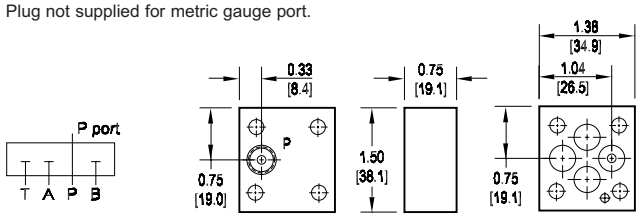
COVER PLATES

D02 Cover Plates

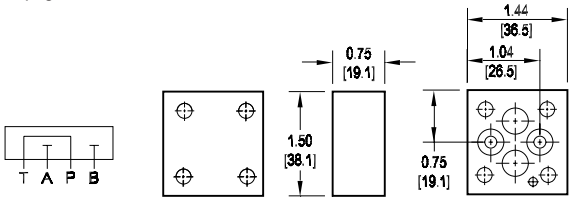
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.



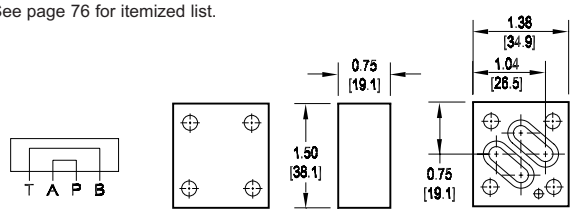
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

Circuit

CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)

Gauge Port

Required with CPP circuit. Omit on CPS and COP circuits.

G	0.125 NPTF or 0.125 BSPT (M option)

Bolt Threads

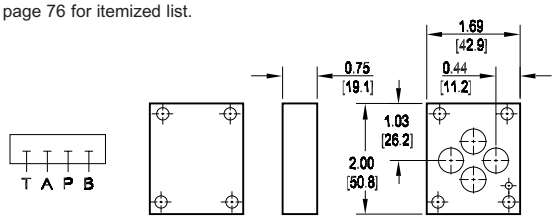
Omit for inch (UNC) bolt kit.

M	Metric (ISO 6H) bolt kit

D03 Cover Plates

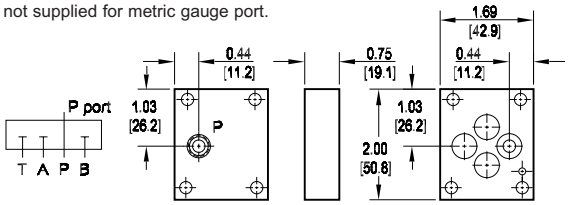
Parallel Circuit Cover Plate

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



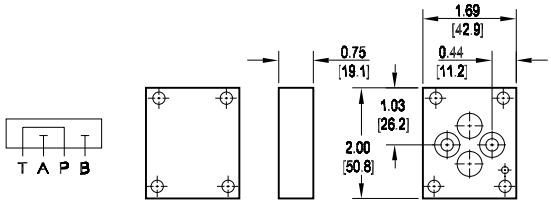
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.



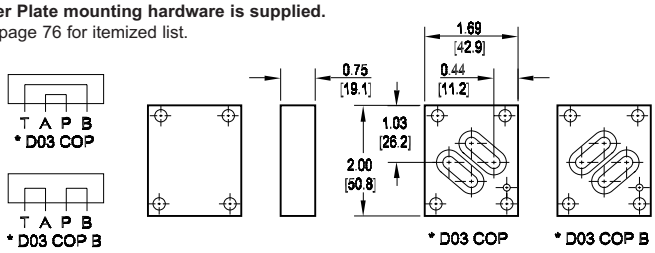
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T or P to B; A to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)
COPB	Crossover Circuit (P to B, A to T)

Gauge Port

Available with parallel circuit only. Omit if not required.

G	0.125 NPTF or 0.125 BSPT (M option)

Bolt Threads

Omit for inch (UNC) bolt kit.

M	Metric (ISO 6H) bolt kit

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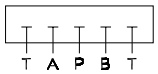
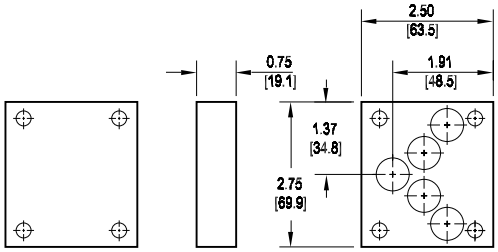
D05 Cover Plates

Parallel Circuit Cover Plate

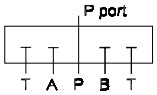
Cover Plate mounting hardware is supplied.
See page 76 for itemized list.

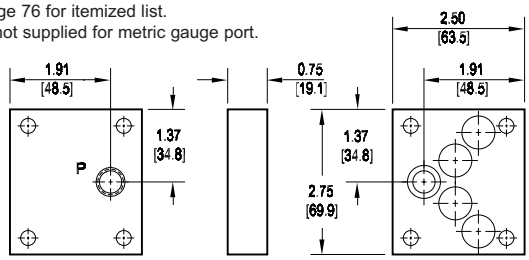




Parallel Circuit Cover Plate with Gauge Port

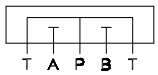
Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.

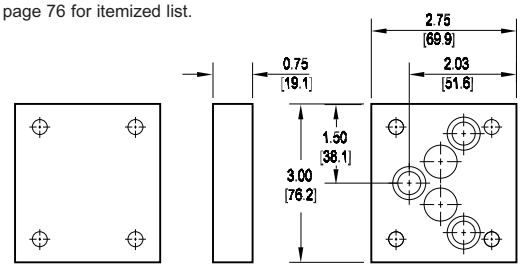




Series Circuit Cover Plate: P to T

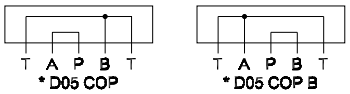
Cover Plate mounting hardware is supplied.
See page 76 for itemized list.

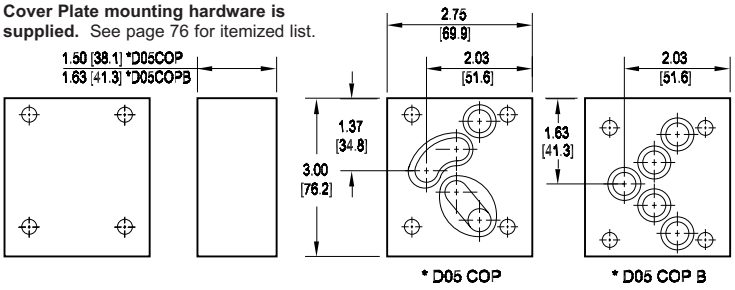




Crossover Cover Plate: P to A; B to T or P to B; A to T

Cover Plate mounting hardware is supplied. See page 76 for itemized list.





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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads

Material

A	Aluminum - 6061-T6 CPP, CPS • 3000† psi • 20.7 MPa COP, COPB • 1500† psi • 10.3 MPa
D	Ductile Iron - D4512 CPP, CPS • 5000† psi • 34.5 MPa COP, COPB • 3000† psi • 20.7 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)
COPB	Crossover Circuit (P to B, A to T)

Gauge Port

Available with parallel circuit only. Omit if not required.

G	0.250 NPTF or 0.250 BSPT (M option)

Bolt Threads

Omit for inch (UNC) bolt kit.

M	Metric (ISO 6H) bolt kit

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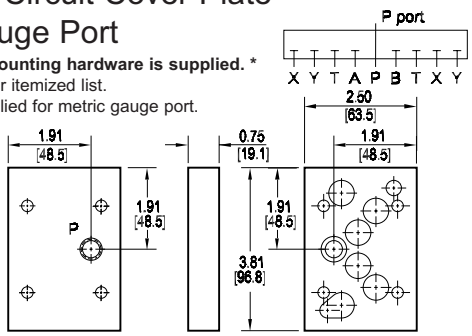
D05 Cover Plates with Pilot Ports

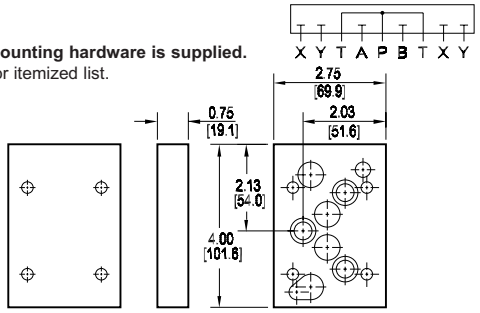
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.



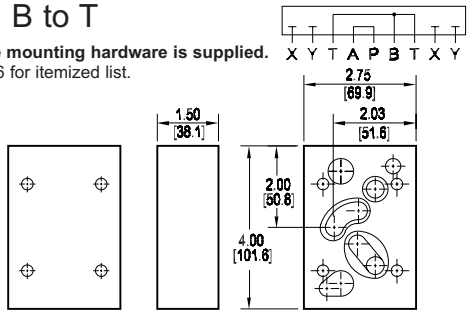
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads

Material

A	Aluminum - 6061-T6 CPP, CPS • 3000† psi • 20.7 MPa COP • 1500† psi • 10.3 MPa
D	Ductile Iron - D4512 CPP, CPS • 5000† psi • 34.5 MPa COP • 3000† psi • 20.7 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)

Bolt Threads

Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Pattern

D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Information

Gauge Port

Required with parallel circuit. Omit on S and COP circuits.

G	0.250 NPTF or 0.250 BSPT (M option)

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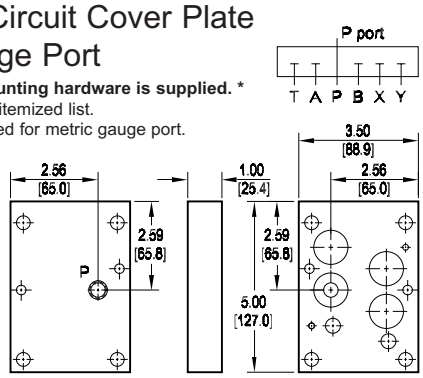
D07 Cover Plates

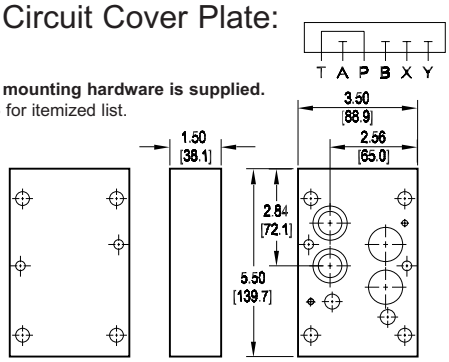
Parallel Circuit Cover Plate with Gauge Port

Cover Plate mounting hardware is supplied. *
See page 76 for itemized list.
* Plug not supplied for metric gauge port.



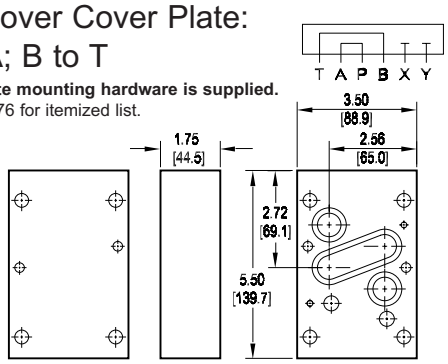
Series Circuit Cover Plate: P to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.
See page 76 for itemized list.



Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads

Material

A	Aluminum - 6061-T6 CPP, CPS • 3000† psi • 20.7 MPa COP • 2000† psi • 10.3 MPa
D	Ductile Iron - D4512 CPP, CPS • 5000† psi • 34.5 MPa COP • 4000† psi • 20.7 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit

CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)

Gauge Port

Required with parallel circuit. Omit on S and COP circuits.

G	0.250 NPTF or 0.250 BSPT (M option)

Bolt Threads

Omit for inch (UNC) bolt kit.

M	Metric (ISO 6H) bolt kit

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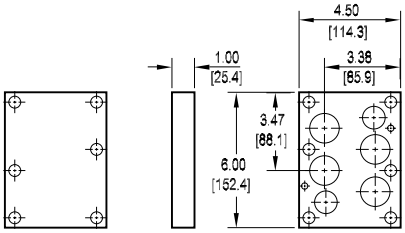
D08 Cover Plates

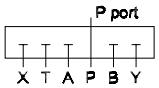
Parallel Circuit Cover Plate

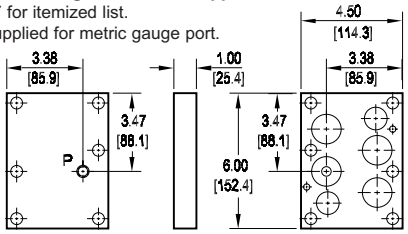
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate with Gauge Port

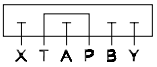
Cover Plate mounting hardware is supplied. *
See page 77 for itemized list.
* Plug not supplied for metric gauge port.

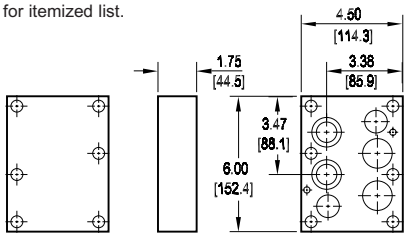




Series Circuit Cover Plate: P to T

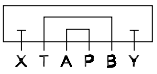
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.

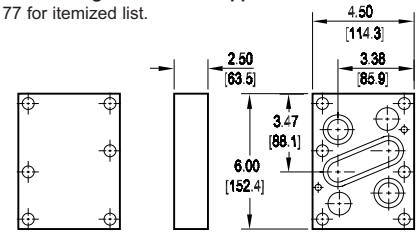




Crossover Cover Plate: P to A; B to T

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.





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Ordering Information

Material	Valve Pattern	Circuit	Gauge Port	Bolt Threads

Material

A	Aluminum - 6061-T6 CPP, CPS • 3000† psi • 20.7 MPa COP • 2000† psi • 10.3 MPa
D	Ductile Iron - D4512 CPP, CPS • 5000† psi • 34.5 MPa COP • 4000† psi • 20.7 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

CPP	Parallel Circuit
CPS	Series Circuit
COP	Crossover Circuit (P to A, B to T)

Bolt Threads

Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Gauge Port

Available with parallel circuit only. Omit if not required.

G	0.250 NPTF or 0.250 BSPT (M option)

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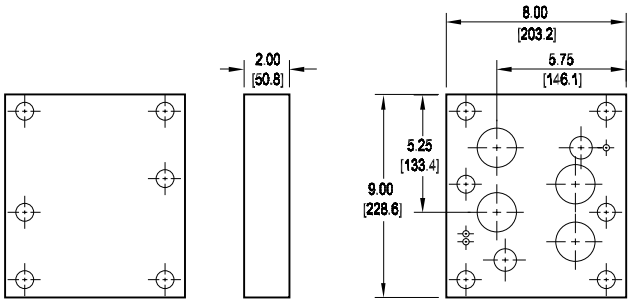
D10 Cover Plates

Parallel Circuit Cover Plate

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Ordering Information

Material	Valve Pattern	Circuit	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

CPP	Parallel Circuit

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

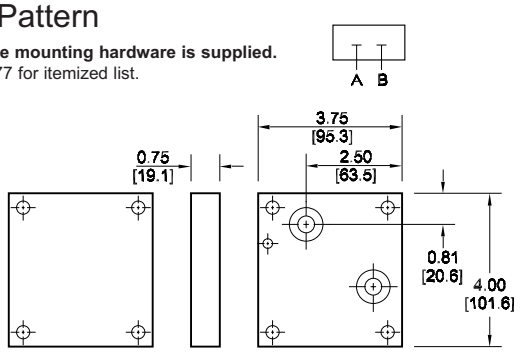
Valve Pattern

D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

2F06, 2F07 Flow Control Cover Plates

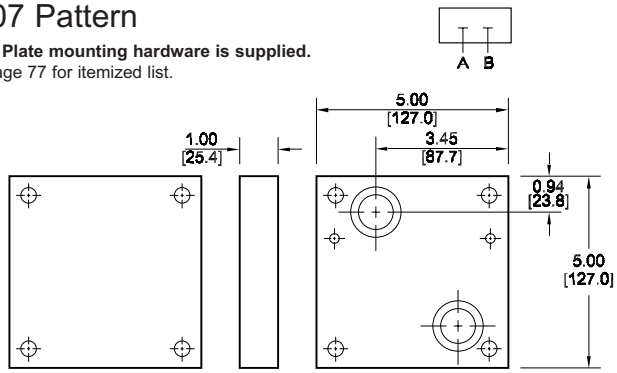
Parallel Circuit Cover Plate
2F06 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate
2F07 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

CPP	Parallel Circuit

Bolt Threads

Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

Valve Pattern

2F06	ISO 6263-06-05 NFPA T3.5.1-2F06 See Tech Information
2F07	ISO 6263-07-09 NFPA T3.5.1-2F07 See Tech Information

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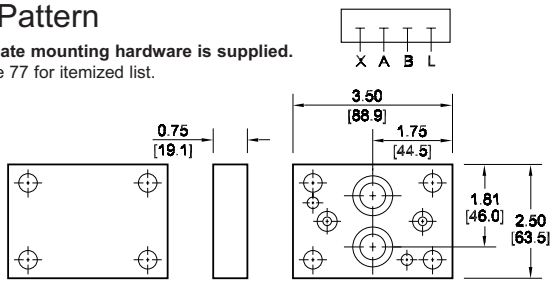
P06, P08, P10 Pressure Control Cover Plates

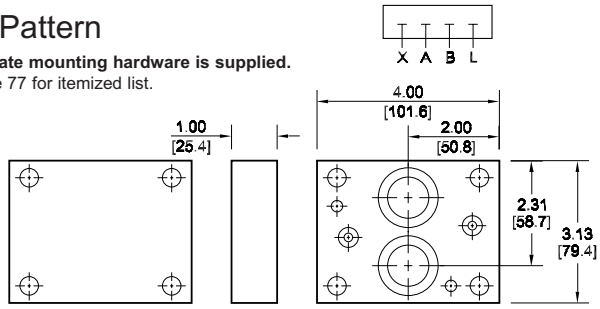
Parallel Circuit Cover Plate
P06 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



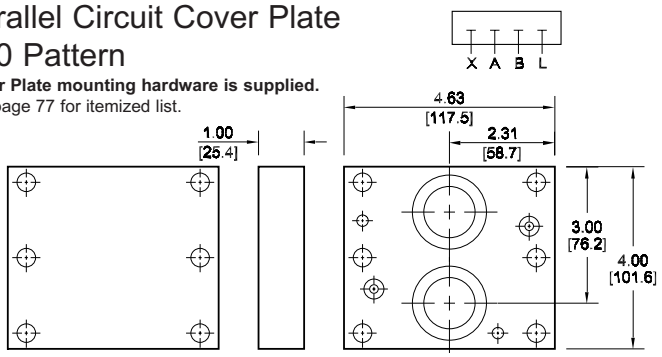
Parallel Circuit Cover Plate
P08 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate
P10 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Ordering Information

Material	Valve Pattern	Circuit	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

P06	ISO 6264-06-07 ISO 5781-06-07 NFPA T3.5.1-[R]P06 See Tech Information
P08	ISO 6264-08-11 ISO 5781-08-10 NFPA T3.5.1-[R]P08 See Tech Information
P10	ISO 6264-10-15 ISO 5781-10-13 NFPA T3.5.1-[R]P10 See Tech Information

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

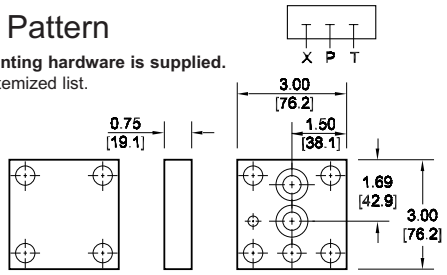
Circuit

CPP	Parallel Circuit

R06, R08, I08, R10, I10 Relief Valve Cover Plates

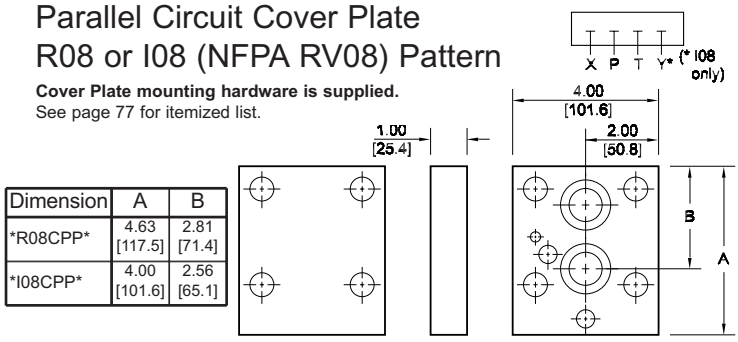
Parallel Circuit Cover Plate R06 (I06) Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate R08 or I08 (NFPA RV08) Pattern

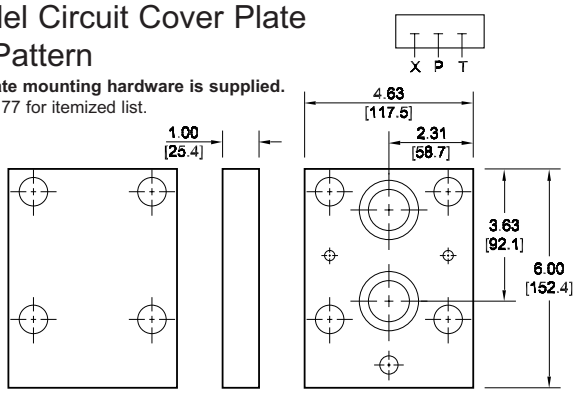
Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Dimension	A	B
R08CPP	4.63 [117.5]	2.81 [71.4]
I08CPP	4.00 [101.6]	2.56 [65.1]

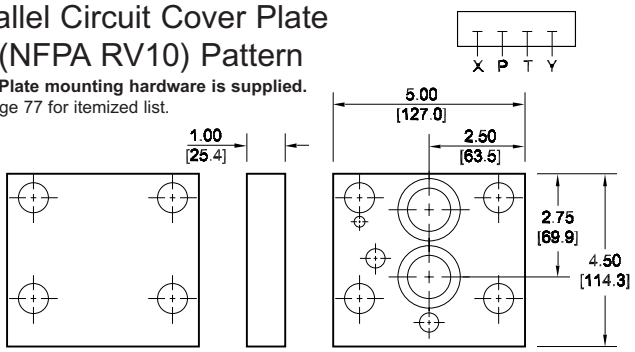
Parallel Circuit Cover Plate R10 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate I10 (NFPA RV10) Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



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Ordering Information

Material	Valve Pattern	Circuit	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

R06	ISO 6264-06-09 NFPA T3.5.1-R06 See Tech Information
R08	ISO 6264-08-13 NFPA T3.5.1-R08 See Tech Information
I08	NFPA T3.5.1-RV08 See Tech Information
R10	ISO 6264-10-17 NFPA T3.5.1-R10 See Tech Information
I10	NFPA T3.5.1-RV10 See Tech Information

Circuit

CPP	Parallel Circuit

Bolt Threads

Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

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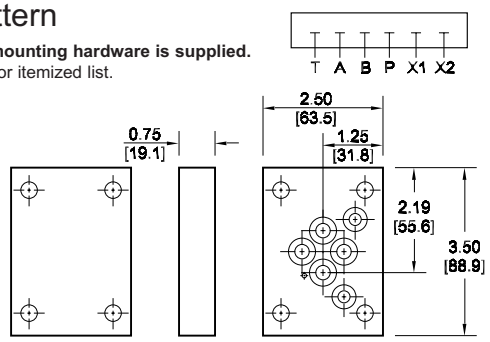
S04, S06 Servo Valve Cover Plates

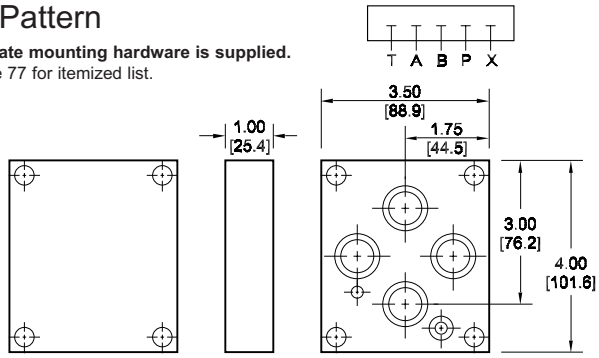
Parallel Circuit Cover Plate
S04 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Parallel Circuit Cover Plate
S06 Pattern

Cover Plate mounting hardware is supplied.
See page 77 for itemized list.



Ordering Information

Material	Valve Pattern	Circuit	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

CPP	Parallel Circuit

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

Valve Pattern

S04	ISO 10372-04-04 Daman std. S04 See Tech Information
S06	ISO 10372-06-04 Daman std. S04 See Tech Information

Cover Plate Mounting Hardware

Part no.	Pg.	GA port Plug	Viton O-rings, 75 duro.	Mounting Screws	Locating Pins
* D02 CP P G	65	(1) 0.12-27 NPTF	(4) -010	(4) UNC #10-24 x 1.00 long SHCS	(1) 0.12 dia x 0.25 long
* D02 CP S		n/a	(4) -010		
* D02 COP		n/a	(2) -015		
* D02 CP P G M	65	n/a	(4) -010	(4) ISO 6H M5-0.8 x 25mm SHCS	
* D02 CP S M		n/a	(4) -010		
* D02 COP M		n/a	(2) -015		
* D03 CP P	66	n/a	(4) -012	(4) UNC #10-24 x 1.00 long SHCS	(1) 0.12 dia x 0.25 long
* D03 CP P G		(1) 0.12-27 NPTF	(4) -012		
* D03 CP S		n/a	(4) -012		
* D03 COP		n/a	(2) -016		
* D03 COPB		n/a	(2) -016		
* D03 CP P M	66	n/a	(4) -012	(4) ISO 6H M5-0.8 x 25mm SHCS	
* D03 CP P G M		n/a	(4) -012		
* D03 CP S M		n/a	(4) -012		
* D03 COP M		n/a	(2) -016		
* D03 COPB M		n/a	(2) -016		
* D05 CP P	67	n/a	(5) -014	(4) UNC 0.25-20 x 1.25 long SHCS	n/a
* D05 CP P G		(1) 0.25-18 NPTF	(5) -014	(4) UNC 0.25-20 x 1.25 long SHCS	
* D05 CP S		n/a	(5) -014	(4) UNC 0.25-20 x 1.25 long SHCS	
* D05 COP		n/a	(1) -014; (2) -022	(4) UNC 0.25-20 x 2.00 long SHCS	
* D05 COPB		n/a	(5) -014	(4) UNC 0.25-20 x 2.00 long SHCS	
* D05 CP P M	67	n/a	(5) -014	(4) ISO 6H M6-1.0 x 30mm SHCS	
* D05 CP P G M		n/a	(5) -014	(4) ISO 6H M6-1.0 x 30mm SHCS	
* D05 CP S M		n/a	(5) -014	(4) ISO 6H M6-1.0 x 30mm SHCS	
* D05 COP M		n/a	(1) -014; (2) -022	(4) ISO 6H M6-1.0 x 50mm SHCS	
* D05 COPB M		n/a	(5) -014	(4) ISO 6H M6-1.0 x 50mm SHCS	
* D05H CP P G	68	(1) 0.25-18 NPTF	(1) -011; (6) -014; (1) -016	(4) UNC 0.25-20 x 1.25 long SHCS	n/a
* D05H CP S		n/a	(1) -011; (6) -014; (1) -016	(4) UNC 0.25-20 x 1.25 long SHCS	
* D05H COP		n/a	(1) -011; (2) -014; (1) -016; (2) -022	(4) UNC 0.25-20 x 2.00 long SHCS	
* D05H CP P G M	68	n/a	(1) -011; (6) -014; (1) -016	(4) ISO 6H M6-1.0 x 30mm SHCS	
* D05H CP S M		n/a	(1) -011; (6) -014; (1) -016	(4) ISO 6H M6-1.0 x 30mm SHCS	
* D05H COP M		n/a	(1) -011; (2) -014; (1) -016; (2) -022	(4) ISO 6H M6-1.0 x 50mm SHCS	
* D07 CP P G	69	(1) 0.25-18 NPTF	(2) -011; (4) -210	(4) UNC 0.38-16 x 1.75 long and (2) UNC 0.25-20 x 1.50 long SHCS	(2) 0.12 dia x 0.25 long
* D07 CP S		n/a	(2) -011; (4) -210	(4) UNC 0.38-16 x 2.00 long and (2) UNC 0.25-20 x 2.00 long SHCS	
* D07 COP		n/a	(2) -011; (2) -210; (1) -225	(4) UNC 0.38-16 x 2.50 long and (2) UNC 0.25-20 x 2.25 long SHCS	
* D07 CP P G M	69	n/a	(2) -011; (4) -210	(4) ISO 6H M10-1.5 x 40mm and (2) ISO 6H M6-1.0 x 35mm SHCS	
* D07 CP S M		n/a	(2) -011; (4) -210	(4) ISO 6H M10-1.5 x 50mm and (2) ISO 6H M6-1.0 x 50mm SHCS	
* D07 COP M		n/a	(2) -011; (2) -210; (1) -225	(4) ISO 6H M10-1.5 x 60mm and (2) ISO 6H M6-1.0 x 55mm SHCS	

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Cover Plate Mounting Hardware

Part no.	Pg.	GA port Plug	Viton O-rings, 75 duro.	Mounting Screws	Locating Pins
* D08 CP P	70	n/a	(2) -210; (4) -215	(6) UNC 0.50-13 x 1.75 long SHCS	(2) 0.25 dia x 0.50 long
* D08 CP P G		(1) 0.25-18 NPTF	(2) -210; (4) -215	(6) UNC 0.50-13 x 1.75 long SHCS	
* D08 CP S		n/a	(2) -210; (4) -215	(6) UNC 0.50-13 x 2.50 long SHCS	
* D08 COP		n/a	(2) -210; (2) -215; (1) -231	(6) UNC 0.50-13 x 3.50 long SHCS	
* D08 CP P M	70	n/a	(2) -210; (4) -215	(6) ISO 6H M12-1.75 x 45mm SHCS	
* D08 CP P G M		n/a	(2) -210; (4) -215	(6) ISO 6H M12-1.75 x 45mm SHCS	
* D08 CP S M		n/a	(2) -210; (4) -215	(6) ISO 6H M12-1.75 x 65mm SHCS	
* D08 COP M		n/a	(2) -210; (2) -215; (1) -231	(6) ISO 6H M12-1.75 x 90mm SHCS	
* D10 CP P	71	n/a	(2) -210; (4) -222	(6) UNC 0.75-10 x 3.25 long SHCS	(2) 0.25 dia x 0.50 long
* D10 CP P M		n/a	(2) -210; (4) -222	(6) ISO 6H M20-2.5 x 80mm SHCS	
* 2F06 CP P	72	n/a	(2) -018	(4) UNC 0.31-18 x 1.25 long SHCS	(1) 0.25 d. x 0.50 long
* 2F07 CP P		n/a	(2) -215	(4) UNC 0.38-16 x 1.75 long SHCS	(2) 0.25 d. x 0.50 long
* 2F06 CP P M	72	n/a	(2) -018	(4) ISO 6H M8-1.25 x 35mm SHCS	(1) 0.25 d. x 0.50 long
* 2F07 CP P M		n/a	(2) -215	(4) ISO 6H M10-1.5 x 45mm SHCS	(2) 0.25 d. x 0.50 long
* P06 CP P	73	n/a	(2) -011; (2) -018	(4) UNC 0.38-16 x 1.50 long SHCS	(2) 0.25 dia x 0.50 long
* P08 CP P		n/a	(2) -011; (2) -215	(4) UNC 0.38-16 x 1.50 long SHCS	
* P10 CP P		n/a	(2) -011; (2) -220	(6) UNC 0.38-16 x 1.75 long SHCS	
* P06 CP P M	73	n/a	(2) -011; (2) -018	(4) ISO 6H M10-1.5 x 35mm SHCS	(2) 0.25 dia x 0.50 long
* P08 CP P M		n/a	(2) -011; (2) -215	(4) ISO 6H M10-1.5 x 40mm SHCS	
* P10 CP P M		n/a	(2) -011; (2) -220	(6) ISO 6H M10-1.5 x 45mm SHCS	
* R06 CP P	74	n/a	(1) -012; (2) -018	(4) UNC 0.50-13 x 1.50 long SHCS	(1) 0.25 d. x 0.50 long
* R08 CP P		n/a	(1) -012; (2) -216	(4) UNC 0.63-11 x 2.00 long SHCS	(1) 0.25 d. x 0.50 long
* R10 CP P		n/a	(1) -012; (2) -220	(4) UNC 0.75-10 x 2.25 long SHCS	(2) 0.25 d. x 0.50 long
* R06 CP P M	74	n/a	(1) -012; (2) -018	(4) ISO 6H M12-1.75 x 35mm SHCS	(1) 0.25 d. x 0.50 long
* R08 CP P M		n/a	(1) -012; (2) -216	(4) ISO 6H M16-2 x 50mm SHCS	(1) 0.25 d. x 0.50 long
* R10 CP P M		n/a	(1) -012; (2) -220	(4) ISO 6H M20-2.5 x 55mm SHCS	(2) 0.25 d. x 0.50 long
* I08 CP P	74	n/a	(2) -012; (2) -216	(4) UNC 0.63-11 x 2.00 long SHCS	(1) 0.25 dia x 0.50 long
* I10 CP P		n/a	(2) -012; (2) -220	(4) UNC 0.75-10 x 2.25 long SHCS	
* I08 CP P M	74	n/a	(2) -012; (2) -216	(4) ISO 6H M16-2 x 50mm SHCS	(1) 0.25 dia x 0.50 long
* I10 CP P M		n/a	(2) -012; (2) -220	(4) ISO 6H M20-2.5 x 55mm SHCS	
* S04 CP P	75	n/a	(2) -012; (4) -013	(4) UNC 0.31-18 x 1.50 long SHCS	(1) 0.09 d. x 0.25 long
* S06 CP P		n/a	(1) -012; (4) -019	(4) UNC 0.38-16 x 1.75 long SHCS	(1) 0.25 d. x 0.50 long
* S04 CP P M	75	n/a	(2) -012; (4) -013	(4) ISO 6H M8-1.25 x 30mm SHCS	(1) 0.09 d. x 0.25 long
* S06 CP P M		n/a	(1) -012; (4) -019	(4) ISO 6H M10-1.5 x 45mm SHCS	(1) 0.25 d. x 0.50 long

Better System Design Begins with a Manifold.

VALVE ADAPTORS

Directional Valve Adaptors

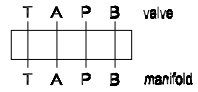
Relief Valve Adaptors

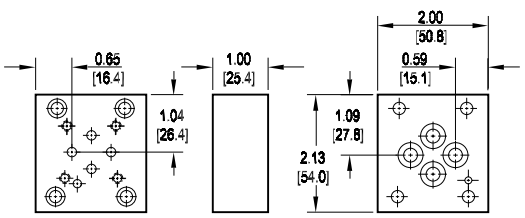
"Obsolete Valve" Adaptors

Valve Adaptors for D03 Manifolds

Adapt D02 valve to D03 manifold

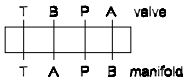
Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

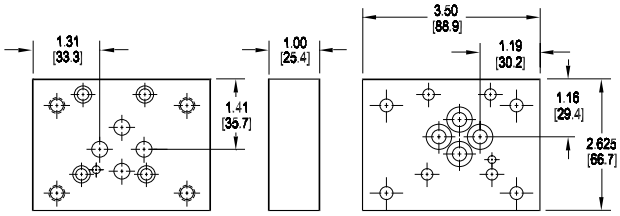




Adapt S04 valve to D03 manifold • BA oriented

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8 x 1.25mm ISO 6H x [22.2] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

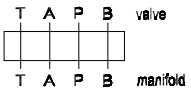


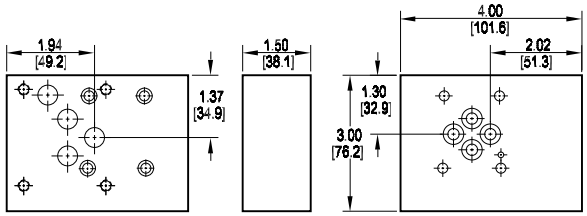


This adaptor does not orient the A & B ports on the manifold to the respective valve solenoids.

Adapt D05 valve to D03 manifold • style A

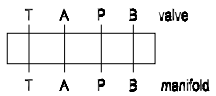
Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

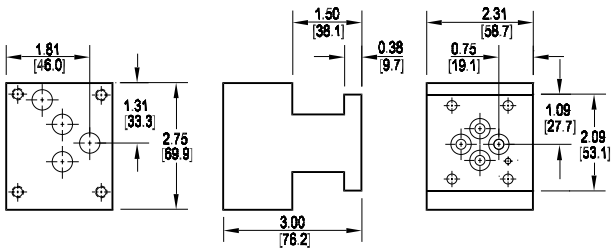




Adapt D05 valve to D03 manifold • style B

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.





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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Style	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information
S04	ISO 10372-04-04 Daman standard S04 See Tech Information

Manifold Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Product Type

VA	Valve Adaptor

Port Orientation

AB	A_V common to A_m B_V common to B_m
BA	A_V common to B_m B_V common to A_m S04 valve pattern only.

D05-D03 Style

Required with D05 valve pattern.
Omit with D02 or S04 patterns.

A	Style A Low height, wide design
B	Style B Tall height, narrow design

Bolt Threads

Omit for inch (UNC) bolt kit.	
M	Metric (ISO 6H) bolt kit

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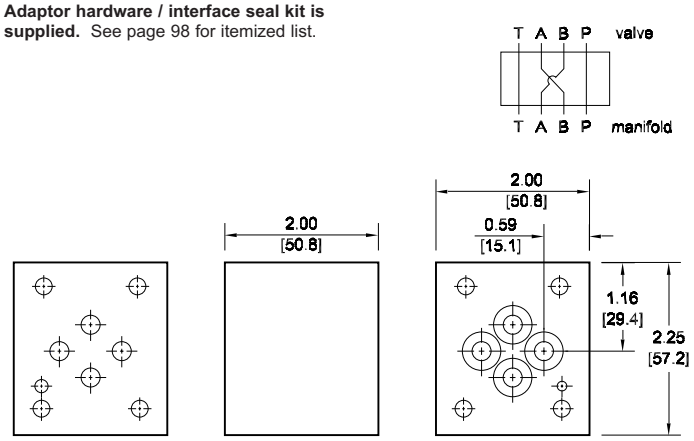
Valve Adaptors for D03 Manifolds

D03 A & B Port Swap Block • (BA oriented)

Adaptor hardware / interface seal kit is supplied. See page 98 for itemized list.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Manifold Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Product Type

VA	Valve Adaptor

Port Orientation

BA	B_V common to A_m A_V common to B_m D03 valve pattern only.

Bolt Threads

	Omit: Mounting holes sized for inch (UNC) bolts.
M	Mounting holes sized for Metric (ISO 6H) bolts.

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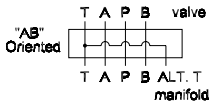
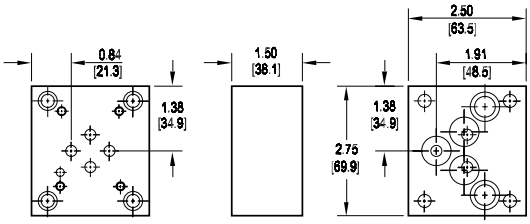
Valve Adaptors for D05 Manifolds

Adapt D03 valve to D05 manifold • AB oriented

Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

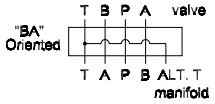


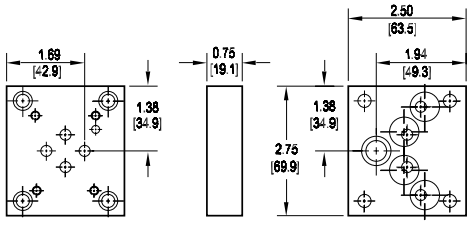


This adaptor permits the installation of a D03 valve on a D05 manifold. This adaptor, unlike *D03D05VABA*, properly orients the A & B ports on the manifold to the respective valve solenoids.

Adapt D03 valve to D05 manifold • BA oriented

Valve mtg: UNC #10-24 x 0.44 DP or
Metric M5 x 0.8mm ISO 6H x [11] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

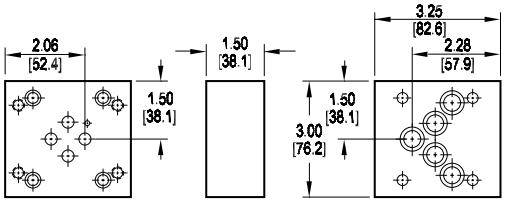




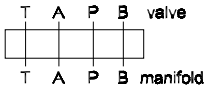
This adaptor permits the installation of a D03 valve on a D05 manifold. This adaptor, while low in cost, does not orient the A & B ports on the manifold to the respective valve solenoids.

Adapt S04 valve to D05 manifold • AB oriented

Valve mtg: UNC 0.31-18 x 0.63 DP or
Metric M8 x 1.25mm ISO 6H x [15.9] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



This adaptor properly orients the A & B ports on the manifold to the respective valve solenoids.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Port Orientation

AB	A_v common to A_m B_v common to B_m
BA	B_v common to A_m A_v common to B_m D03 valve pattern only.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information
S04	ISO 10372-04-04 Daman standard S04 See Tech Information

Product Type

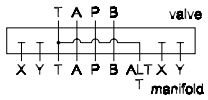
VA	Valve Adaptor

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

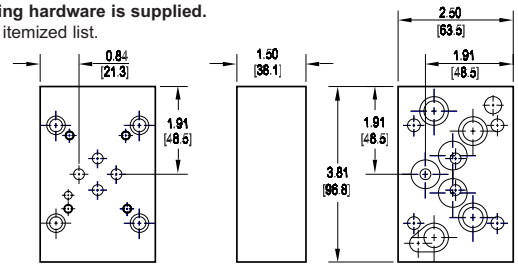
Valve Adaptors for D05 Manifolds with Pilot Ports

Adapt D03 valve to D05H manifold



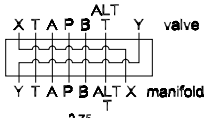
Valve mtg: #10-24 UNC x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP

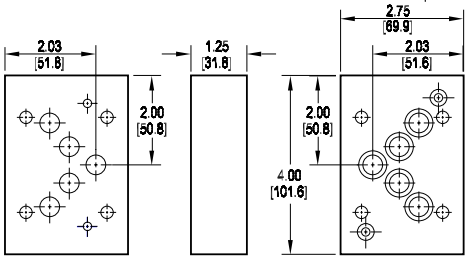
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Adapt D05HE valve to D05H manifold

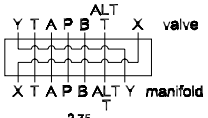
Adaptor interface seal kit is supplied.
See page 98 for itemized list.

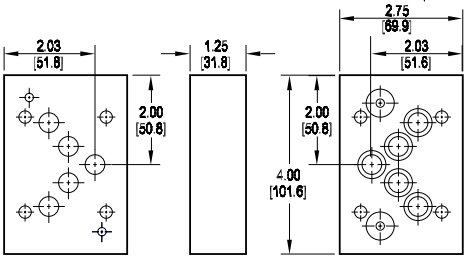




Adapt D05H valve to D05HE manifold

Adaptor interface seal kit is supplied.
See page 98 for itemized list.





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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern

See Tech Information

D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A

Port Orientation

AB	A_V common to A_m B_V common to B_m

Valve Pattern

See Tech Information

D03	ISO 4401-03-02 NFPA T3.5.1-D03
D05H	(USA std) NFPA T3.5.1-D05 Alt B
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A

Product Type

VA	Valve Adaptor

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

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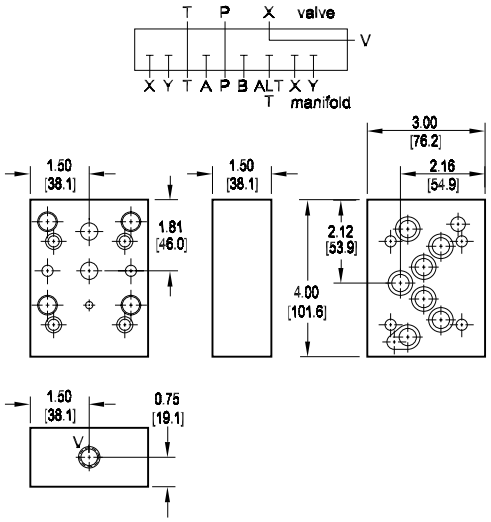
Relief Valve Adaptors for D05(H) Manifolds

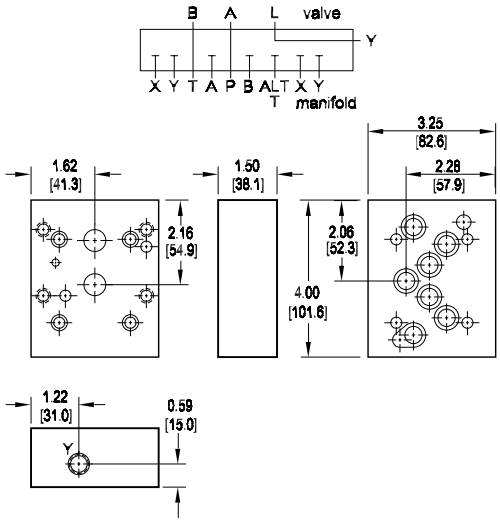
Adapt I06 (NFPA R06) valve to D05H manifold

Valve mtg: UNC 0.50-13 x 1.00 DP or
Metric M12 x 1.75mm ISO 6H x [25.4] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Adapt P06 valve to D05H manifold

Valve mtg: UNC 0.38-16 x 1.00 DP or
Metric M10-1.5mm ISO 6H x [25.4] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern

D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Tech Information

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

Valve Pattern

I06	ISO 6264-06-09-*-97 NFPA T3.5.1-R06 See Tech Information
P06	ISO 6264-06-07-*-97 ISO 5781-06-07-0-00 NFPA T3.5.1-RP06 See Tech Information

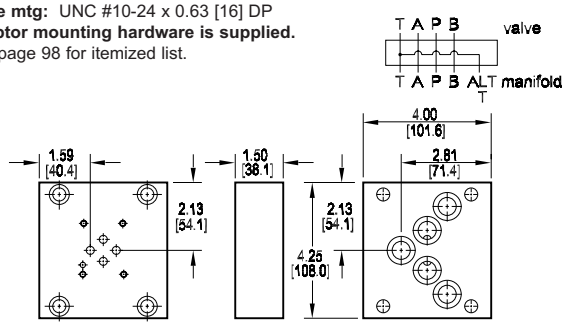
Product Type

RVA	Relief Valve Adaptor

Valve Adaptors for D06 Manifolds

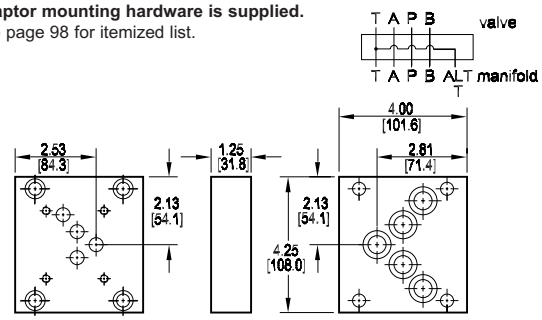
Adapt D03 valve to D06 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



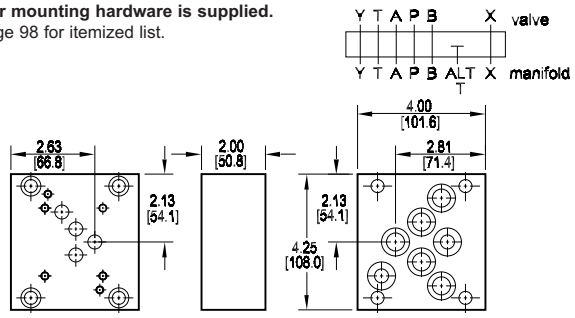
Adapt D05 valve to D06 manifold

Valve mtg: UNC 0.25-20 x 0.56 [14.2] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Adapt D05H valve to D06H manifold

Valve mtg: UNC 0.25-20 x 0.50 [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern
See Tech Information

D06	NFPA T3.5.1-D06 (X & Y omitted)
D06H	NFPA T3.5.1-D06 (X & Y included)

Port Orientation

AB	A_v common to A_m B_v common to B_m

Valve Pattern
See Tech Information

D03	ISO 4401-03-02 NFPA T3.5.1-D03
D05	ISO 4401-05-04 NFPA T3.5.1-D05
D05H	(USA std) NFPA T3.5.1-D05 Alt B

Product Type

VA	Valve Adaptor

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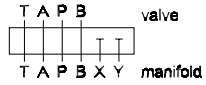
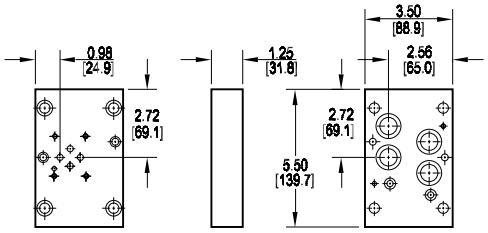
Valve Adaptors for D07 Manifolds

Adapt D03 valve to D07 manifold

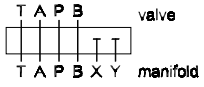
Valve mtg: UNC #10-24 x 0.44 DP or
Metric M5-0.8mm ISO 6H x [11.1] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

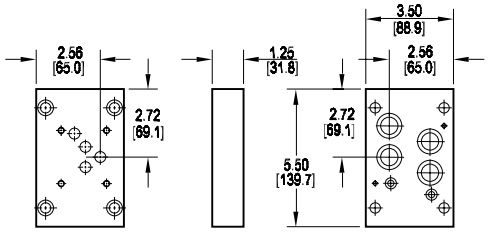




Adapt D05 valve to D07 manifold

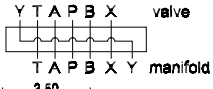
Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

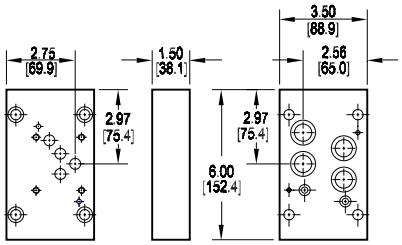




Adapt D05H valve to D07 manifold

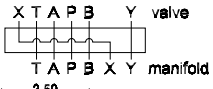
Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.

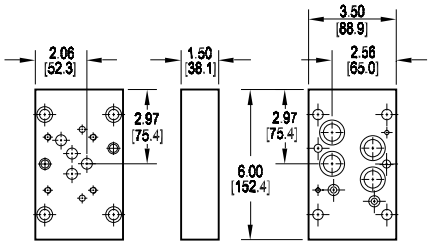




Adapt D05HE valve to D07 manifold

Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.





Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
See Tech Information

D03	ISO 4401-03-02 NFPA T3.5.1-D03
D05	ISO 4401-05-04 NFPA T3.5.1-D05
D05H	(USA std) NFPA T3.5.1-D05 Alt B
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A

Manifold Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Product Type

VA	Valve Adaptor

Port Orientation

AB	A_V common to A_m B_V common to B_m

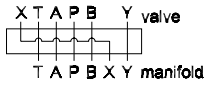
Bolt Threads

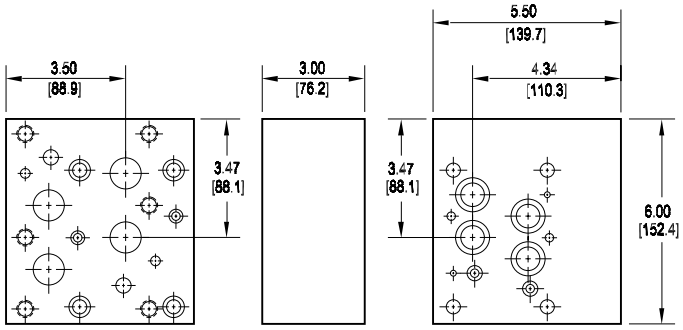
	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

Valve Adaptors for D07 Manifolds

Adapt D08 valve to D07 manifold

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP
Adaptor mounting hardware is supplied.
See page 98 for itemized list.





Note: This adaptor is too wide to use on any position other than station one of a multi-station manifold.

Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Manifold Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Product Type

VA	Valve Adaptor

Port Orientation

AB	A_v common to A_m B_v common to B_m

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

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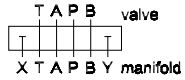
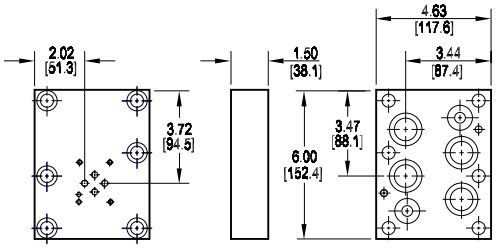
Valve Adaptors for D08 Manifolds

Adapt D03 valve to D08 manifold

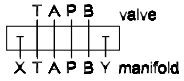
Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

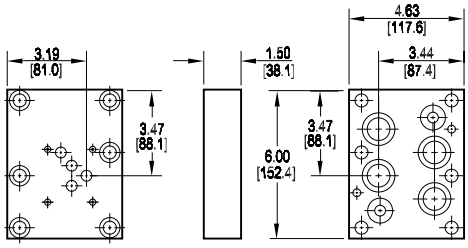




Adapt D05 valve to D08 manifold

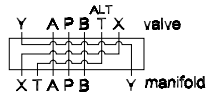
Valve mtg: UNC 0.25-20 x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

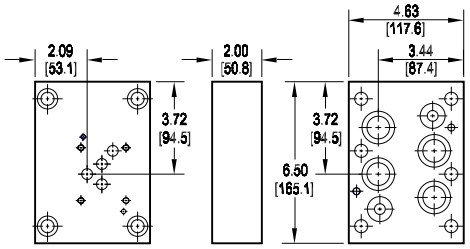




Adapt D05H valve to D08 manifold

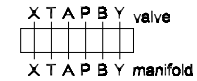
Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

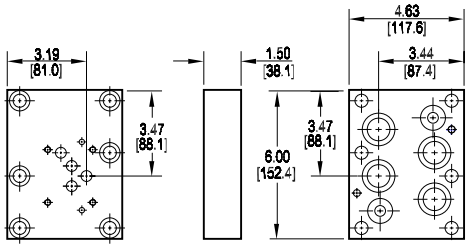




Adapt D05HE valve to D08 manifold

Valve mtg: 0.25-20 UNC x 0.50 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.





Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
See Tech Information

D03	ISO 4401-03-02 NFPA T3.5.1-D03
D05	ISO 4401-05-04 NFPA T3.5.1-D05
D05H	(USA std) NFPA T3.5.1-D05 Alt B
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A

Manifold Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Product Type

VA	Valve Adaptor

Port Orientation

AB	A_V common to A_m B_V common to B_m

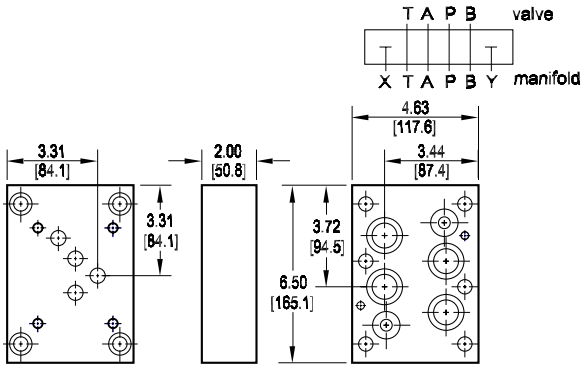
Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

Valve Adaptors for D08 Manifolds

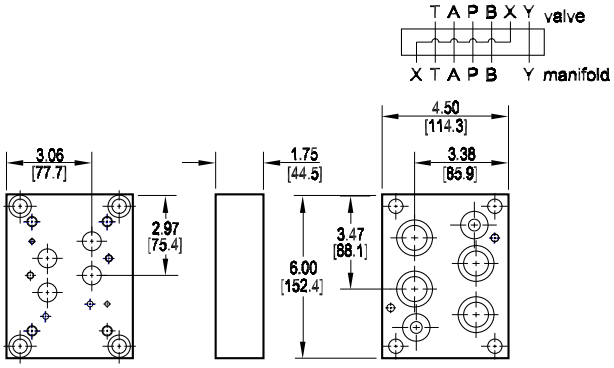
Adapt D06 valve to D08 manifold

Valve mtg: UNC 0.38-16 x 0.75 DP or
Metric M10-1.5mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D07 valve to D08 manifold

Valve mtg: UNC 0.38-16 x 0.75 DP or
Metric M10-1.5mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Port Orientation

AB	A_V common to A_m B_V common to B_m

Product Type

VA	Valve Adaptor

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

Valve Pattern

D06	NFPA T3.5.1-D06 See Tech Information
D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

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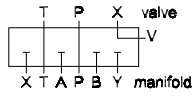
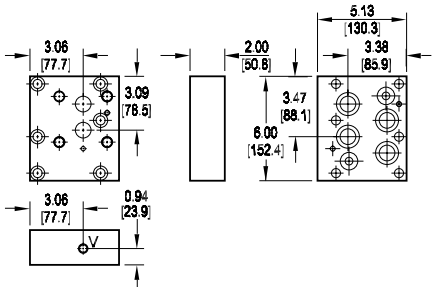
Relief Valve Adaptors for D08 Manifolds

Adapt I08 (NFPA RV08) valve to D08 manifold

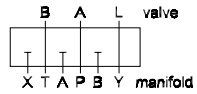
Valve mtg: UNC 0.63-11 x 0.94 DP or
Metric M16-2mm ISO 6H x [23.8] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

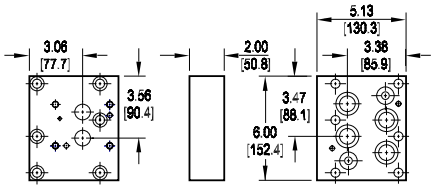




Adapt P08 valve to D08 manifold

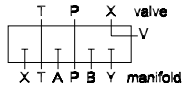
Valve mtg: UNC 0.38-16 x 0.75 DP or
Metric M10-1.5mm ISO 6H x [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

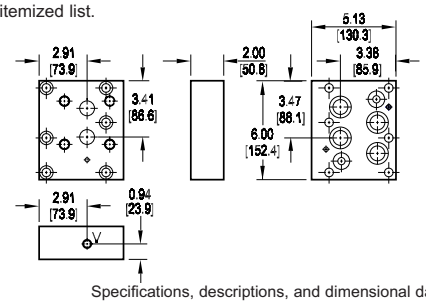




Adapt R08 valve to D08 manifold

Valve mtg: UNC 0.63-11 x 0.94 DP or
Metric M16-2.0mm ISO 6H x [23.8] DP
Vent port: 0.25 NPTF or 0.25 BSPT (M option).
Adaptor mounting hardware is supplied.
See page 99 for itemized list.





Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
See Tech Information

I08	NFPA T3.5.1-RV08
P08	ISO 6264-08-11-*-97 ISO 5781-08-10-0-00 NFPA T3.5.1-RP08
R08	ISO 6264-06-09-*-97 NFPA T3.5.1-R08

Manifold Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Product Type

RVA	Relief Valve Adaptor

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

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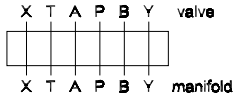
Valve Adaptors for D10 Manifolds

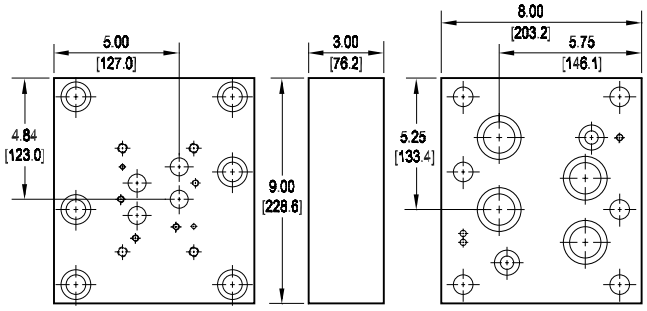
Adapt D07 valve to D10 manifold

Valve mtg: 0.25-20 UNC x 0.75 DP and
0.38-16 UNC x 1.00 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP and
M10-1.5mm ISO 6H x [25.4] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.



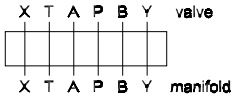


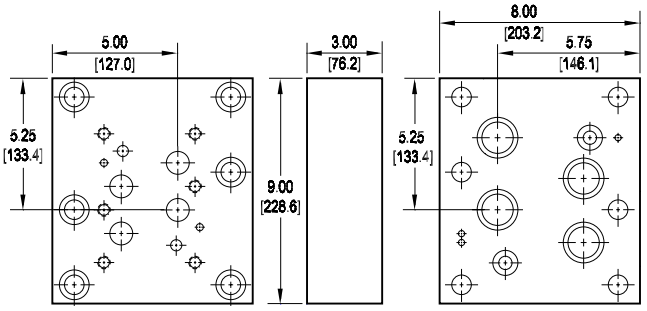
Adapt D08 valve to D10 manifold

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP

Adaptor mounting hardware is supplied.

See page 99 for itemized list.





Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information
D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Manifold Pattern

D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

Product Type

VA	Valve Adaptor

Port Orientation

AB	A_V common to A_m B_V common to B_m

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

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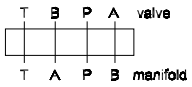
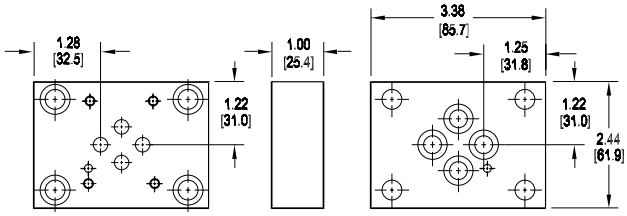
D03 / D05 Valve Adaptors for S04 Subplates

Adapt D03 valve to S04 manifold • BA oriented

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5 x 0.8mm ISO 6H x [15.9] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

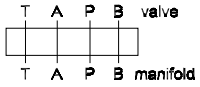


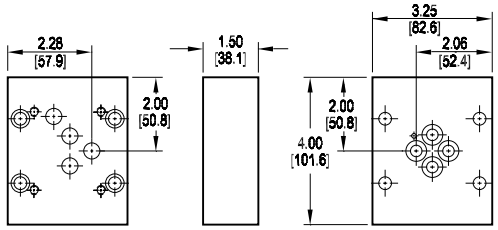


This adaptor does not orient the A & B ports on the manifold to the respective valve solenoids.

Adapt D05 valve to S04 manifold • AB oriented

Valve mtg: UNC 0.25-20 x 0.63 DP or
Metric M6 x 1.0mm ISO 6H x [15.9] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.





This adaptor properly orients the A & B ports on the manifold to the respective valve solenoids.

Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation	Bolt Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern

S04	ISO 10372-04-04 Daman std. S04 See Tech Information

Port Orientation

BA	B_V common to A_m A_V common to B_m D03 valve pattern only
AB	A_V common to A_m B_V common to B_m D05 valve pattern only

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Product Type

VA	Valve Adaptor

Bolt Threads

	Omit for inch (UNC) bolt kit.
M	Metric (ISO 6H) bolt kit

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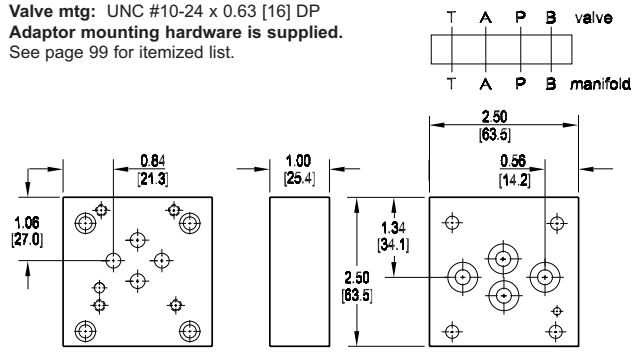
D03 to “Obsolete Valve” Adaptors

Adapt D03 valve to Racine 01Q manifold

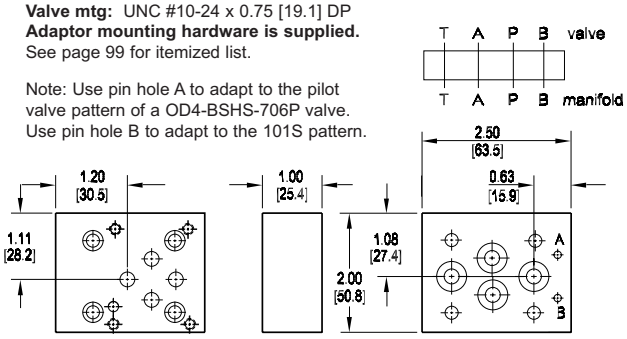
Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D03 valve to Racine 01S manifold

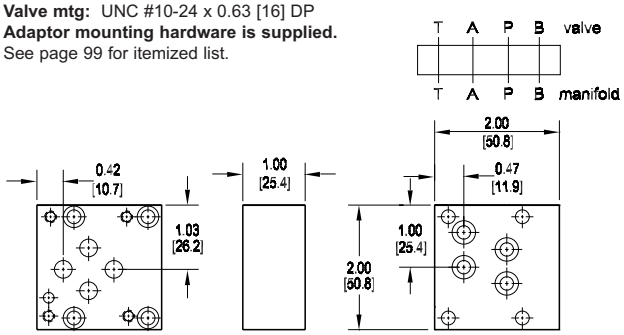
Valve mtg: UNC #10-24 x 0.75 [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

Note: Use pin hole A to adapt to the pilot valve pattern of a OD4-BSHS-706P valve. Use pin hole B to adapt to the 101S pattern.



Adapt D03 valve to Parker D1B manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern

See Tech Information

01Q	Racine FD4-D*HS-*01Q-*
01S	Racine OD4-D*HS-101S
D1B	Parker D1BW-****

Port Orientation

AB	A_V common to A_m B_V common to B_m

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Product Type

VA	Valve Adaptor

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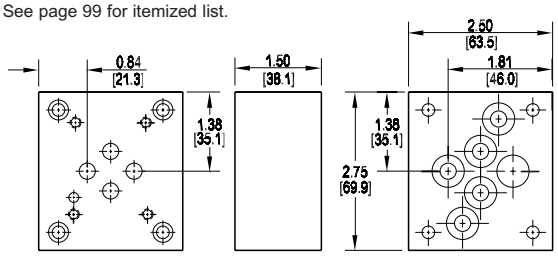
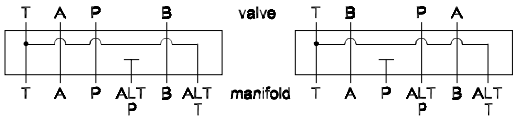
D03 to "Obsolete Valve" Adaptors

Adapt D03 valve to Denison D1D04 manifold

Valve mtg: UNC #10-24 x 0.50 [12.7] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



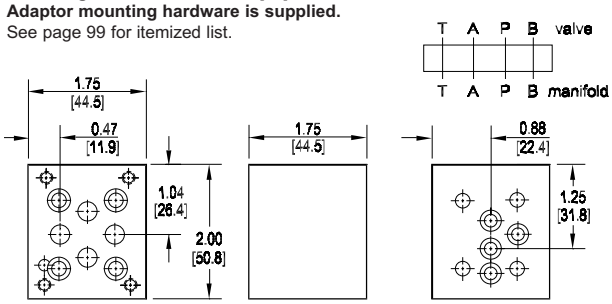


Schematic of typical installation. Replaces D1D04 valves that utilized the standard P port.

Schematic of optional installation. Replaces D1D04 pilot valves that utilized the alternate P port. The adaptor is rotated 180° in this case, which swaps A & B orientation.

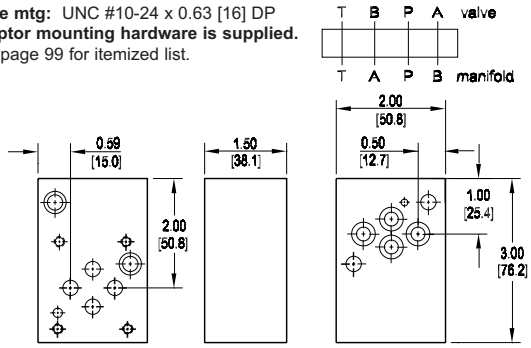
Adapt D03 valve to Vickers D1L manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Adapt D03 valve to Vickers DG4M4 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



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Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern
See Tech Information

D1D04	Denison D1D04-3*...
D1L	Vickers D1L...
DG4M4	Vickers DG4M4...

Port Orientation

AB	A_v common to A_m B_v common to B_m (D1D04 and D1L)
BA	B_v common to A_m A_v common to B_m (DG4M4 only)

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

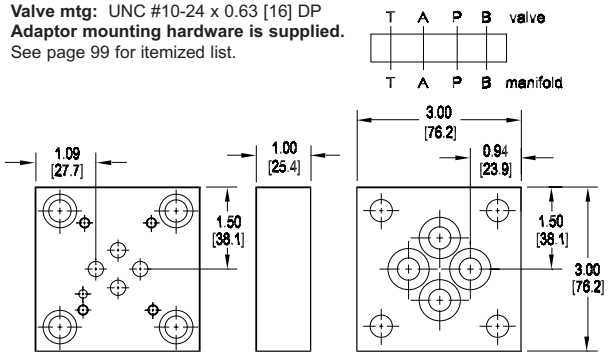
Product Type

VA	Valve Adaptor

D03 to “Obsolete Valve” Adaptors

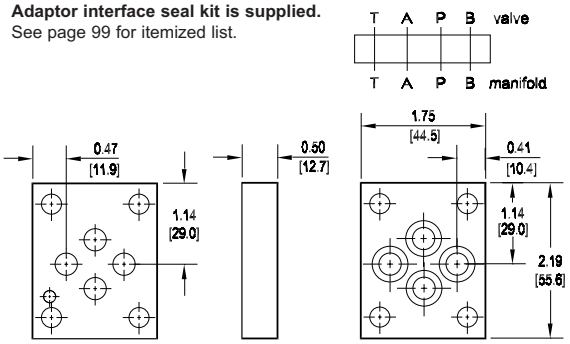
Adapt D03 valve to Republic R8143 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



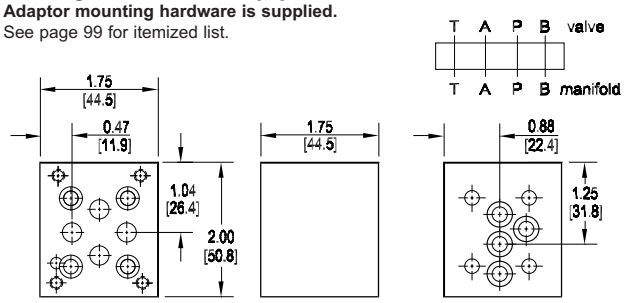
Adapt D03 valve to Rivett RVT65 manifold

Adaptor interface seal kit is supplied.
See page 99 for itemized list.



Adapt D03 valve to Rexroth WE5 manifold

Valve mtg: UNC #10-24 x 0.63 [16] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern
See Tech Information

R8143	Republic R-8143...
RVT65	Rivett 65**-01-70
WE5	Rexroth WE5...

Port Orientation

AB	A_V common to A_m B_V common to B_m

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Product Type

VA	Valve Adaptor

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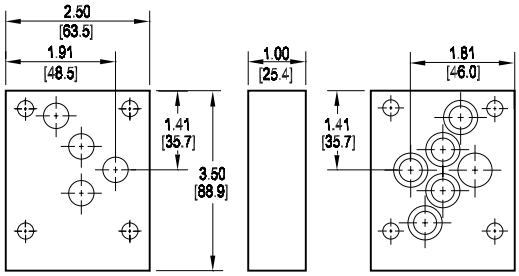
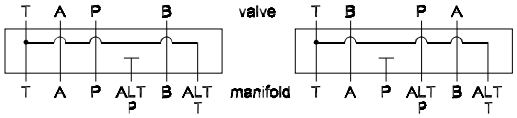
D05 to “Obsolete Valve” Adaptors

Adapt D05 valve to Denison D1D04 manifold

Adaptor interface seal kit is supplied.
See page 99 for itemized list.



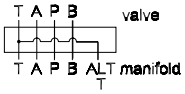


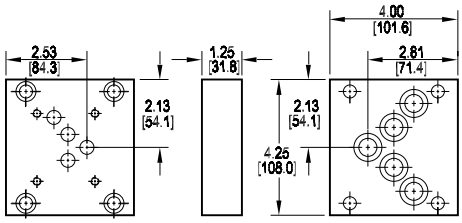
Schematic of typical installation. Replaces D1D04 valves that utilized the standard P port.

Schematic of optional installation. Replaces D1D04 pilot valves that utilized the alternate P port. The adaptor is rotated 180° in this case, which swaps A & B orientation.

Adapt D05 valve to Vickers DG4S4-02 manifold

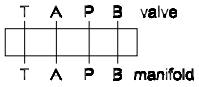
Valve mtg: UNC 0.25-20 x 0.56 [14.2] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.

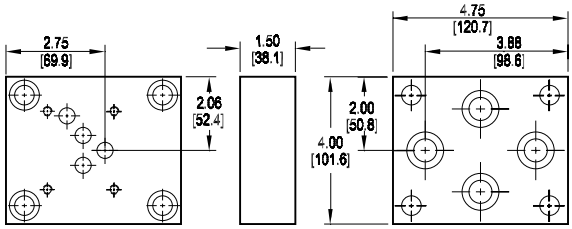




Adapt D05 valve to Denison DD063 manifold

Valve mtg: UNC 0.25-20 x 0.75 [19.1] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.





Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern
See Tech Information

D06	Vickers DG4S4-02 NFPA T3.5.1-D06
D1D04	Denison D1D04-3...
DD063	Denison DD063...

Port Orientation

AB	A_v common to A_m B_v common to B_m

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Product Type

VA	Valve Adaptor

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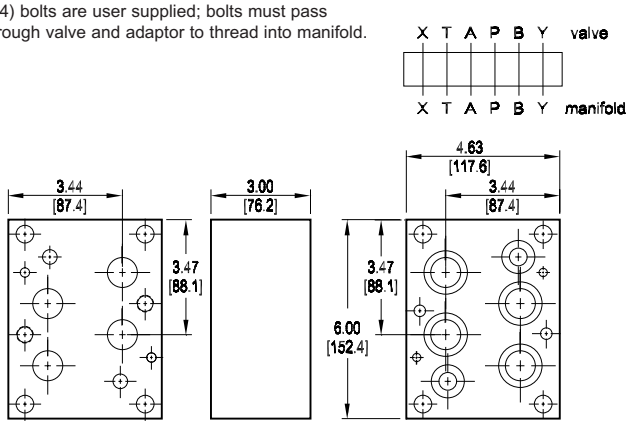
D08 to “Obsolete Valve” Adaptors

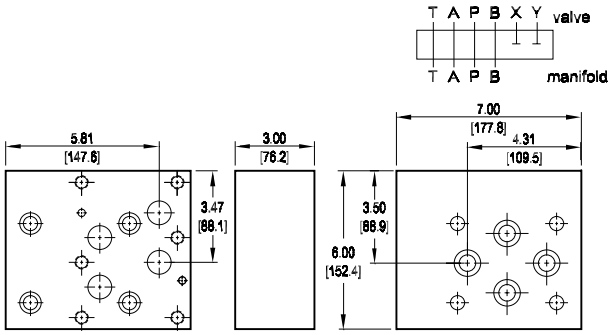
Adapt D08 valve to Denison D1D12 manifold

Valve mtg: (2) UNC 0.50-13 x 0.75 [19.1] DP
Adaptor mounting hardware is supplied.*
See page 99 for itemized list.
* (4) bolts are user supplied; bolts must pass through valve and adaptor to thread into manifold.



Adapt D08 valve to Denison D2D06 manifold

Valve mtg: UNC 0.50-13 x 1.19 [30.2] DP
Adaptor mounting hardware is supplied.
See page 99 for itemized list.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern
See Tech Information

D1D12	Denison D1D12-3...
D2D06	Denison D2D06...

Port Orientation

AB	A_V common to A_m B_V common to B_m

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Product Type

VA	Valve Adaptor

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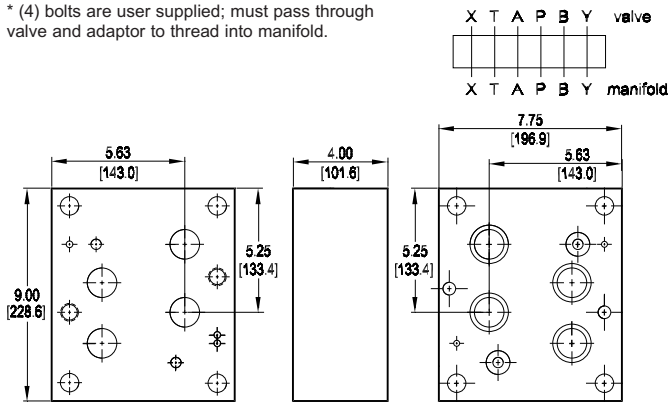
D10 to “Obsolete Valve” Adaptors

Adapt D10 valve to Denison D1D24 manifold

Valve mtg: (2) UNC 0.75-10 x 1.12 [28.4] DP
Adaptor mounting hardware is supplied.*
See page 99 for itemized list.
* (4) bolts are user supplied; must pass through valve and adaptor to thread into manifold.



Ordering Information

Material	Valve Pattern	Manifold Pattern	Product Type	Port Orientation

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Manifold Pattern
See Tech Information

D1D24	Denison D1D24-3...

Port Orientation

AB	A_v common to A_m B_v common to B_m

Valve Pattern

D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

Product Type

VA	Valve Adaptor

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Valve Adaptor Mounting Hardware

Part no.	Cat. pg.	Viton O-rings 75 durometer	Mounting Screws	Locating Pins	Plugs
* D02 D03 VA AB	79	(4) -012	(4) UNC #10-24 x 0.88 long SHCS	(1) 0.12 dia x 0.25 long	n/a
* D05 D03 VA AB A	79	(4) -012	(4) UNC #10-24 x 1.50 long SHCS		
* D05 D03 VA AB B	79	(4) -012	(4) UNC #10-24 x 0.75 long SHCS		
* S04 D03 VA BA	79	(4) -012	(4) UNC #10-24 x 1.00 long SHCS		
* D03 D03 VA BA	80	(4) -012	n/a		
* D02 D03 VA AB M	79	(4) -012	(4) ISO 6H M5-0.8 x 20mm SHCS	(1) 0.12 dia x 0.25 long	n/a
* D05 D03 VA AB A M	79	(4) -012	(4) ISO 6H M5-0.8 x 40mm SHCS		
* D05 D03 VA AB B M	79	(4) -012	(4) ISO 6H M5-0.8 x 20mm SHCS		
* S04 D03 VA BA M	79	(4) -012	(4) ISO 6H M5-0.8 x 25mm SHCS		
* D03 D03 VA BA M	80	(4) -012	n/a		
* D03 D05 VA AB	81	(5) -014	(4) UNC 0.25-20 x 1.25 long SHCS	n/a	n/a
* D03 D05 VA BA	81	(5) -014	(4) UNC 0.25-20 x 0.75 long SHCS		
* S04 D05 VA AB	81	(5) -014	(4) UNC 0.25-20 x 1.50 long SHCS		
* D03 D05 VA AB M	81	(5) -014	(4) ISO 6H M6-1.0 x 35mm SHCS	n/a	n/a
* D03 D05 VA BA M	81	(5) -014	(4) ISO 6H M6-1.0 x 20mm SHCS		
* S04 D05 VA AB M	81	(5) -014	(4) ISO 6H M6-1.0 x 40mm SHCS		
* D03 D05H VA AB	82	(1) -011, (6) -014, (1) -016	(4) UNC 0.25-20 x 1.50 long SHCS	n/a	n/a
* D05HE D05H VA AB	82	(2) -011, (5) -014	n/a		
* D05H D05HE VA AB	82	(7) -014	n/a		
* D03 D05H VA AB M	82	(1) -011, (6) -014, (1) -016	(4) ISO 6H M6-1.0 x 35mm SHCS	n/a	n/a
* D05HE D05H VA AB M	82	(2) -011, (5) -014	n/a		
* D05H D05HE VA AB M	82	(7) -014	n/a		
* I06 D05H RVA	83	(1) -011, (6) -014, (1) -016	(4) UNC 0.25-20 x 1.50 long SHCS	n/a	(1) 0.25 NPTF LSPP
* P06 D05H RVA	83	(1) -011, (6) -014, (1) -016	(4) UNC 0.25-20 x 1.50 long SHCS		
* I06 D05H RVA M	83	(1) -011, (6) -014, (1) -016	(4) ISO 6H M6-1.0 x 40mm SHCS	n/a	n/a
* P06 D05H RVA M	83	(1) -011, (6) -014, (1) -016	(4) ISO 6H M6-1.0 x 40mm SHCS		
* D03 D06 VA AB	84	(5) -018	(4) UNC 0.38-16 x 1.25 long SHCS	n/a	n/a
* D05 D06 VA AB	84	(5) -018	(4) UNC 0.38-16 x 1.25 long SHCS		
* D05H D06H VA AB	84	(7) -018	(4) UNC 0.38-16 x 2.00 long SHCS		
* D03 D07 VA AB	85	(2) -011, (4) -210	(2) UNC 0.25-20 x 1.25 long and (4) UNC 0.38-16 x 1.25 long SHCS	(2) 0.12 dia x 0.25 long	n/a
* D05 D07 VA AB	85	(2) -011, (4) -210	(4) UNC 0.38-16 x 1.25 long SHCS		
* D05H D07 VA AB	85	(2) -011, (4) -210	(4) UNC 0.38-16 x 1.25 long SHCS		
* D05HE D07 VA AB	85	(3) -011, (1) -014, (4) -210	(2) UNC 0.25-20 x 1.50 long and (4) UNC 0.38-16 x 1.50 long SHCS		
* D08 D07 VA AB	86	(2) -011, (4) -210	(2) UNC 0.25-20 x 3.00 long and (4) UNC 0.38-16 x 3.00 long SHCS		
* D03 D07 VA AB M	85	(2) -011, (4) -210	(2) ISO 6H M6-1.0 x 35mm and (4) ISO 6H M10-1.5 x 35mm SHCS	(2) 0.12 dia x 0.25 long	n/a
* D05 D07 VA AB M	85	(2) -011, (4) -210	(4) ISO 6H M10-1.5 x 35mm SHCS		
* D05H D07 VA AB M	85	(2) -011, (4) -210	(4) ISO 6H M10-1.5 x 35mm SHCS		
* D05HE D07 VA AB M	85	(3) -011, (1) -014, (4) -210	(2) ISO 6H M6-1.0 x 40mm and (4) ISO 6H M10-1.5 x 40mm SHCS		
* D08 D07 VA AB M	86	(2) -011, (4) -210	(2) ISO 6H M6-1.0 x 75mm and (4) ISO 6H M10-1.5 x 75mm SHCS		

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Valve Adaptor Mounting Hardware

Part no.	Cat. pg.	Viton O-rings 75 durometer	Mounting Screws	Locating Pins	Plugs
* D03 D08 VA AB	87	(2) -210, (4) -215	(6) UNC 0.50-13 x 1.50 long SHCS		
* D05 D08 VA AB	87	(2) -210, (4) -215	(6) UNC 0.50-13 x 1.50 long SHCS		
* D05H D08 VA AB	87	(2) -210, (4) -215	(4) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia	
* D05HE D08 VA AB	87	(2) -210, (4) -215	(6) UNC 0.50-13 x 1.50 long SHCS	x 0.50 long	n/a
* D06 D08 VA AB	88	(2) -210, (4) -215	(4) UNC 0.50-13 x 2.00 long SHCS		
* D07 D08 VA AB	88	(2) -210, (4) -215	(4) UNC 0.50-13 x 1.50 long SHCS		
* D03 D08 VA AB M	87	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 40mm SHCS		
* D05 D08 VA AB M	87	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 40mm SHCS		
* D05H D08 VA AB M	87	(2) -210, (4) -215	(4) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia	
* D05HE D08 VA AB M	87	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 40mm SHCS	x 0.50 long	n/a
* D06 D08 VA AB M	88	(2) -210, (4) -215	(4) ISO 6H M12-1.75 x 50mm SHCS		
* D07 D08 VA AB M	88	(2) -210, (4) -215	(4) ISO 6H M12-1.75 x 40mm SHCS		
* I08 D08 RVA	89	(2) -210, (4) -215	(6) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia x 0.50 long	(1) 0.25 NPTF LSPP
* P08 D08 RVA	89	(2) -210, (4) -215	(6) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia x 0.50 long	n/a
* R08 D08 RVA	89	(2) -210, (4) -215	(6) UNC 0.50-13 x 2.00 long SHCS	(2) 0.25 dia x 0.50 long	(1) 0.25 NPTF LSPP
* I08 D08 RVA M	89	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia x 0.50 long	
* P08 D08 RVA M	89	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia x 0.50 long	n/a
* R08 D08 RVA M	89	(2) -210, (4) -215	(6) ISO 6H M12-1.75 x 50mm SHCS	(2) 0.25 dia x 0.50 long	
* D07 D10 VA AB	90	(2) -210, (4) -222	(6) UNC 0.75-10 x 3.00 SHCS	(2) 0.25 dia x 0.50 long	n/a
* D08 D10 VA AB	90	(2) -210, (4) -222	(6) UNC 0.75-10 x 3.00 SHCS	(2) 0.25 dia x 0.50 long	
* D07 D10 VA AB M	90	(2) -210, (4) -222	(6) ISO 6H M20-2.5 x 80mm SHCS	(2) 0.25 dia x 0.50 long	n/a
* D08 D10 VA AB M	90	(2) -210, (4) -222	(6) ISO 6H M20-2.5 x 80mm SHCS	(2) 0.25 dia x 0.50 long	
* D03 S04 VA BA	91	(4) -013	(4) UNC 0.31-18 x 1.00 long SHCS	(2) 0.09 dia x 0.25 long	n/a
* D05 S04 VA AB	91	(4) -013	(4) UNC 0.31-18 x 1.50 long SHCS	(2) 0.09 dia x 0.25 long	
* D03 S04 VA BA M	91	(4) -013	(4) ISO 6H M8-1.25 x 25mm SHCS	(2) 0.09 dia x 0.25 long	n/a
* D05 S04 VA AB M	91	(4) -013	(4) ISO 6H M8-1.25 x 40mm SHCS	(2) 0.09 dia x 0.25 long	
* D03 01Q VA AB	92	(4) -012	(4) UNC #10-24 x 1.00 long SHCS	(1) 0.12 dia x 0.25 long	
* D03 01S VA AB	92	(4) -012	(4) UNC 0.25-20 x 1.25 long SHCS	(1) 0.12 dia x 0.25 long	n/a
* D03 D1B VA AB	92	(4) -010	(4) UNF #10-32 x 1.00 long SHCS	n/a	
* D03 D1D04 VA AB	93	(6) -013	(4) UNC 0.25-20 x 1.50 long SHCS	n/a	
* D03 D1L VA AB	93	(4) -008	(4) UNC #10-24 x 1.75 long SHCS	n/a	n/a
* D03 DG4M4 VA BA	93	(4) -011	(2) UNC 0.25-20 x 1.50 long SHCS	(1) 0.12 dia x 0.25 long	
* D03 R8143 VA AB	94	(4) -016	(4) UNC 0.38-16 x 1.00 long SHCS	n/a	
* D03 RVT65 VA AB	94	(4) -012	n/a	n/a	n/a
* D03 WE5 VA AB	94	(4) -010	(4) UNC #10-24 x 1.75 long SHCS	n/a	
* D05 D06 VA AB	95	(5) -018	(4) UNC 0.38-16 x 1.25 long SHCS	n/a	
* D05 D1D04 VA AB	95	(6) -013	n/a	n/a	n/a
* D05 DD063 VA AB	95	(4) -210	(4) UNC 0.50-13 x 1.50 long SHCS	n/a	
* D08 D1D12 VA AB	96	(2) -210, (4) -215	(2) UNC 0.31-18 x 1.00 long SHCS	(2) 0.25 dia x 0.50 long	
* D08 D2D06 VA AB	96	(4) -210	(4) UNC 0.50-13 x 3.00 long SHCS	n/a	n/a
* D10 D1D24 VA AB	97	(2) -210, (4) -222	(2) UNC 0.50-13 x 1.50 long SHCS	(2) 0.25 dia x 0.50 long	

Hydraulic Valve Manifolds

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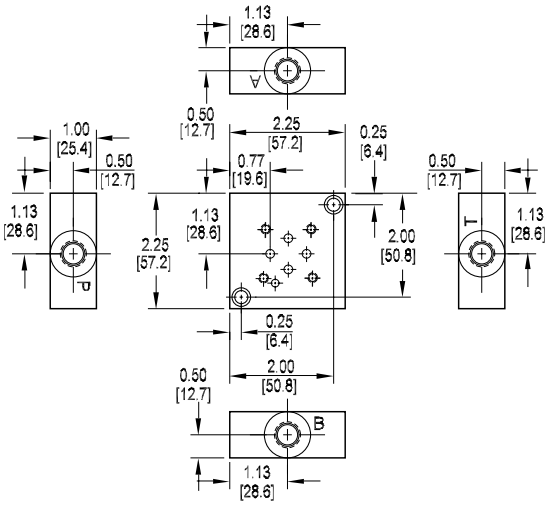
SUBPLATES

D02 Subplates

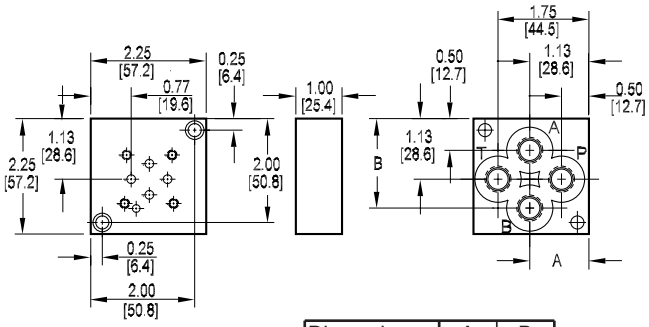
Side Ported Subplate

Valve mtg: UNC #10-24 x 0.56 DP or
Metric M5-0.8mm ISO 6H x [14] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Back Ported Subplate

Valve mtg: UNC #10-24 x 0.56 DP or
Metric M5-0.8mm ISO 6H x [14] DP
Subplate mounting hardware is supplied.
See page 121 for itemized list.



Dimension	A	B
*D02SPB4P *D02SPB4T	1.22 [31.0]	1.88 [47.6]
*D02SPB4S *D02SPB4B *D02SPB4M	1.13 [28.6]	1.75 [44.5]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Location

S	Side ported
B	Back Ported

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

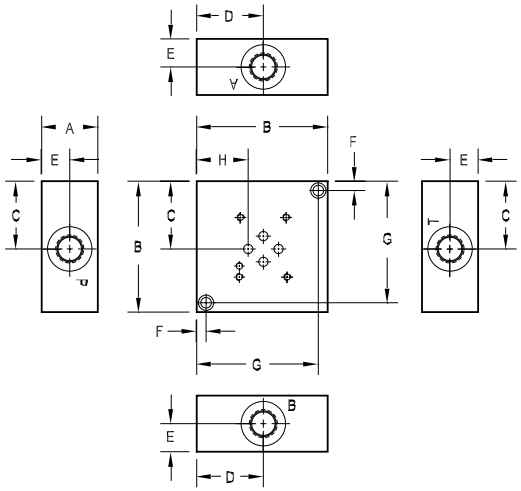
Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

D03 Subplates

Side Ported Subplate

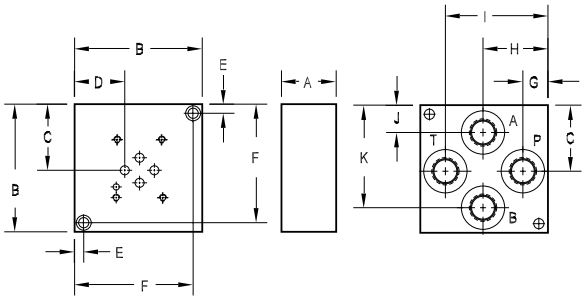
Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



A	B	C	D	E	F	G	H
1.00 [25.4]	2.50 [63.5]	1.31 [33.3]	1.25 [31.8]	0.50 [12.7]	0.25 [6.4]	2.25 [57.2]	0.88 [22.4]
1.50 [38.1]	3.50 [88.9]	1.81 [46.0]	1.78 [45.2]	0.75 [19.1]	0.25 [6.4]	3.25 [82.6]	1.38 [34.9]
1.75 [44.5]	4.00 [101.6]	2.06 [52.4]	2.03 [51.6]	0.88 [22.2]	0.38 [9.5]	3.63 [92.1]	1.63 [41.3]

Back Ported Subplate

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K
*D03SPB4P	1.00 [25.4]	2.50 [63.5]	1.31 [33.3]	0.88 [22.4]	0.25 [6.4]	2.25 [57.2]	0.66 [16.7]	1.28 [32.5]	1.91 [48.4]	0.75 [19.1]	1.88 [47.6]
*D03SPB6B	1.00 [25.4]	2.50 [63.5]	1.25 [31.8]	0.84 [21.4]	0.25 [6.4]	2.25 [57.2]	0.51 [13.0]	1.25 [31.8]	1.98 [50.4]	0.52 [13.2]	1.97 [50.0]
*D03SPB6[M,P,S,T]	1.00 [25.4]	2.50 [63.5]	1.31 [33.3]	0.88 [22.4]	0.25 [6.4]	2.25 [57.2]	0.59 [15.1]	1.28 [32.5]	1.97 [50.0]	0.69 [17.5]	1.94 [49.2]
D03SPB8	1.50 [38.1]	3.50 [88.9]	1.81 [46.0]	1.38 [34.9]	0.25 [6.4]	3.25 [82.6]	0.69 [17.5]	1.78 [45.2]	2.81 [71.4]	0.75 [19.1]	2.81 [71.4]
D03SPB12	1.50 [38.1]	4.50 [114.3]	2.31 [58.8]	1.88 [47.6]	0.38 [9.5]	4.13 [104.8]	0.94 [23.8]	2.28 [57.9]	3.56 [90.5]	0.94 [23.8]	3.56 [90.5]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Port Location

S	Side ported
B	Back Ported

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3				
6P	0.38-18 NPTF ANSI B1.20.3	**8P**	0.50-14 NPTF ANSI B1.20.3	**12P**	0.75-14 NPTF ANSI B1.20.3
6S	-6 SAE ISO 11926; SAE 1926	**8S**	-8 SAE ISO 11926; SAE 1926	**12S**	-12 SAE ISO 11926; SAE 1926
6B	0.38-19 BSPP ISO 1179; BS 2779	**8B**	0.50-14 BSPP ISO 1179; BS 2779	**12B**	0.75-14 BSPP ISO 1179; BS 2779
6M	M14 x 1.5 ISO 6149	**8M**	M18 x 1.5 ISO 6149	**12M**	M27 x 2.0 ISO 6149
6T	0.38-19 BSPT ISO 7; BS 21	**8T**	0.50-14 BSPT ISO 7; BS 21	**12T**	0.75-14 BSPT ISO 7; BS 21

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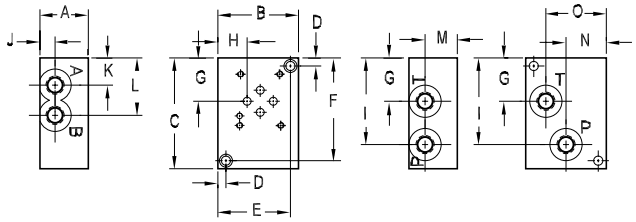
D03 Subplates

Dual Ported Subplate

Valve mtg: UNC #10-24 x 0.50 DP or
Metric M5-0.8mm ISO 6H x [12.7] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.

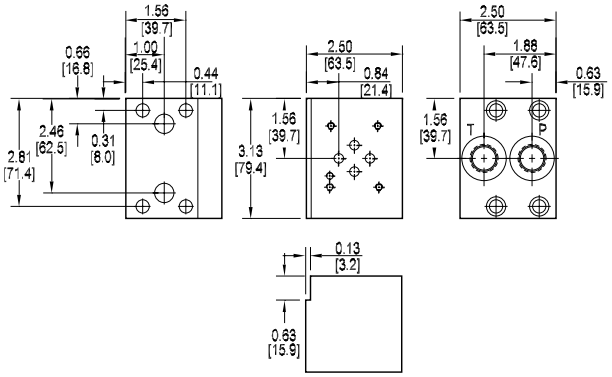


Dimension	A	B	C	D	E	F	G	H
D03SPSB6	1.50 [38.1]	2.50 [63.5]	3.44 [87.4]	0.25 [6.4]	2.25 [57.2]	3.19 [81.0]	1.34 [34.0]	0.91 [23.1]
D03SPSB8	2.00 [50.8]	2.75 [69.9]	3.75 [95.3]	0.25 [6.4]	2.50 [63.5]	3.50 [88.9]	1.34 [34.0]	0.91 [23.1]

Dimension	I	J	K	L	M	N	O
*D03SPSB6B	2.69 [68.3]	0.50 [12.7]	0.72 [18.3]	1.78 [45.2]	1.00 [25.4]	1.25 [31.8]	1.88 [47.8]
*D03SPSB6[M,P,S,T]	2.69 [68.3]	0.47 [11.9]	0.84 [21.4]	1.78 [45.2]	1.00 [25.4]	1.25 [31.8]	1.88 [47.8]
*D03SPSB8B	3.00 [76.2]	0.88 [22.2]	0.69 [17.5]	1.97 [50.0]	1.38 [34.9]	1.44 [36.5]	1.94 [49.2]
*D03SPSB8[M,P,S,T]	3.00 [76.2]	0.88 [22.2]	0.69 [17.5]	1.94 [49.2]	1.38 [34.9]	1.44 [36.5]	1.94 [49.2]

Motor Mounted Subplate

Available with NPTF or SAE ports only.
Valve mtg: UNC #10-24 x 0.63 DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Product Type

SP	Subplate

Port Location

SB	Side P,A,B,T ports Back P & T ports
M	Motor mounting 8P or 8S ports only

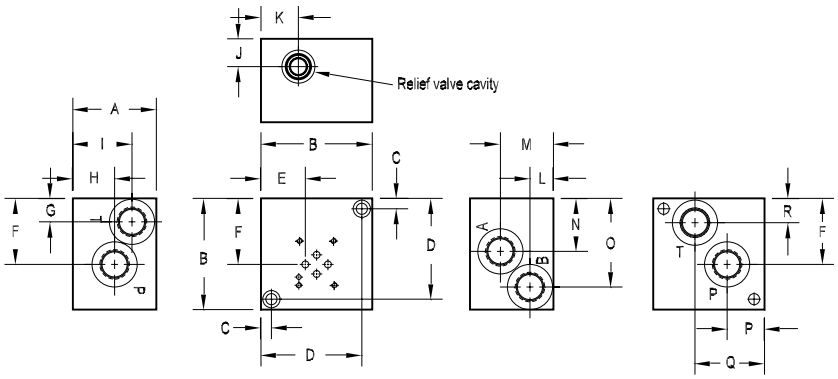
Port Threads

Port location SB only		Port location SB or M	
6P	0.38-18 NPTF ANSI B1.20.3	**8P**	0.50-14 NPTF ANSI B1.20.3
6S	-6 SAE ISO 11926; SAE 1926	**8S**	-8 SAE ISO 11926; SAE 1926
6B	0.38-19 BSPP ISO 1179; BS 2779	Port location SB only	
6M	M14 x 1.5 ISO 6149	**8B**	0.50-14 BSPP ISO 1179; BS 2779
6T	0.38-19 BSPT ISO 7; BS 21	**8M**	M18 x 1.5 ISO 6149
		8T	0.50-14 BSPT ISO 7; BS 21

D03 Subplates with Relief Cavity

Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
*D03SPRV*6*	2.25 [57.2]	3.00 [76.2]	0.31 [7.9]	2.69 [68.3]	0.97 [24.6]	2.00 [50.8]	0.69 [17.5]	1.66 [42.1]	1.66 [42.1]	0.88 [22.2]	0.84 [21.3]	0.88 [22.2]	1.63 [41.3]	1.53 [38.9]	2.37 [60.2]	0.97 [24.6]	1.69 [42.9]	0.69 [17.5]
*D03SPRV*8*	3.00 [76.2]	3.50 [88.9]	0.38 [9.5]	3.12 [79.4]	1.34 [34.1]	2.19 [55.6]	0.81 [20.6]	1.50 [38.1]	2.00 [50.8]	1.00 [25.4]	1.09 [22.8]	0.84 [21.4]	1.91 [48.4]	1.72 [43.6]	2.53 [64.3]	1.09 [22.8]	2.25 [57.2]	0.81 [20.6]
*D03SPRV*12*	3.00 [76.2]	4.00 [101.6]	0.38 [9.5]	3.63 [92.1]	1.59 [40.5]	2.38 [60.3]	0.84 [21.4]	1.50 [38.1]	2.13 [54.0]	1.00 [25.4]	1.34 [34.1]	0.84 [21.4]	1.91 [48.4]	1.91 [48.4]	3.19 [81.0]	1.34 [34.1]	2.50 [63.5]	0.88 [22.2]

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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Relief Cavity

C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-10A (P in nose) See Tech Info for valves

Port Threads

6P	0.38-18 NPTF ANSI B1.20.3	**8P**	0.50-14 NPTF ANSI B1.20.3	**12P**	0.75-14 NPTF ANSI B1.20.3
6S	-6 SAE ISO 11926; SAE 1926	**8S**	-8 SAE ISO 11926; SAE 1926	**12S**	-12 SAE ISO 11926; SAE 1926
6B	0.38-19 BSPP ISO 1179; BS 2779	**8B**	0.50-14 BSPP ISO 1179; BS 2779	**12B**	0.75-14 BSPP ISO 1179; BS 2779
6M	M14 x 1.5 ISO 6149	**8M**	M18 x 1.5 ISO 6149	**12M**	M27 x 2.0 ISO 6149
6T	0.38-19 BSPT ISO 7; BS 21	**8T**	0.50-14 BSPT ISO 7; BS 21	**12T**	0.75-14 BSPT ISO 7; BS 21

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

RV	Main Relief P to T

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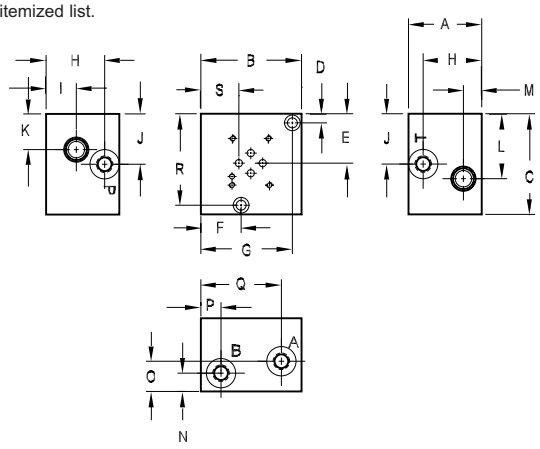
D03 Subplates with Relief Cavity

Side Ported Subplate with Cylinder Port Crossover Relief Cavities

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
*D03SPCR*6*	2.50 [63.5]	3.50 [88.9]	3.50 [88.9]	0.31 [7.9]	1.69 [42.9]	1.41 [35.7]	3.19 [81.0]	2.00 [50.8]	1.03 [26.2]	1.72 [43.7]	1.22 [31.0]	2.22 [56.4]	0.63 [16.0]	0.63 [16.0]	1.03 [26.2]	0.69 [17.5]	2.81 [71.4]	3.19 [81.0]	1.33 [33.7]
*D03SPCR*12*	4.00 [101.6]	5.00 [127.0]	4.50 [114.3]	0.38 [9.5]	2.00 [50.8]	2.50 [63.5]	2.50 [63.5]	3.00 [76.2]	1.25 [31.8]	2.00 [50.8]	1.50 [38.1]	2.50 [63.5]	1.00 [25.4]	1.25 [31.8]	1.38 [35.1]	1.00 [25.4]	4.00 [101.6]	4.13 [104.8]	2.06 [52.8]

Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Product Type

SP	Subplate

Circuit

CR	Crossover Reliefs A to B and B to A

Relief Cavity

C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-10A (P in nose) See Tech Info for valves

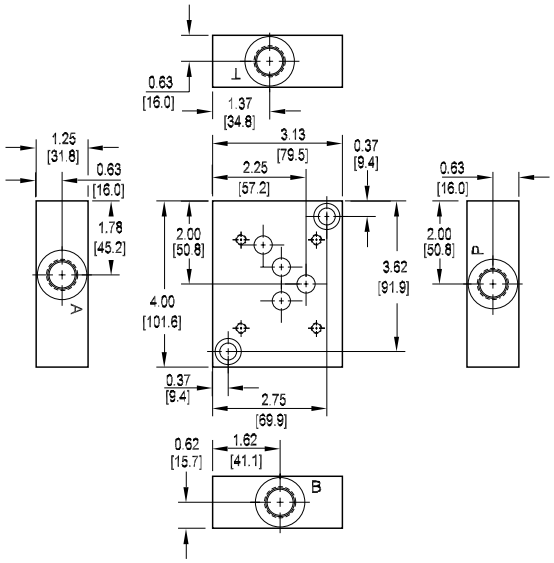
Port Threads

6P	0.38-18 NPTF ANSI B1.20.3	12P	0.75-14 NPTF ANSI B1.20.3
6S	-6 SAE ISO 11926; SAE 1926	12S	-12 SAE ISO 11926; SAE 1926
6B	0.38-19 BSPP ISO 1179; BS 2779	12B	0.75-14 BSPP ISO 1179; BS 2779
6M	M14 x 1.5 ISO 6149	12M	M27 x 2.0 ISO 6149
6T	0.38-19 BSPT ISO 7; BS 21	12T	0.75-14 BSPT ISO 7; BS 21

D05 Subplates

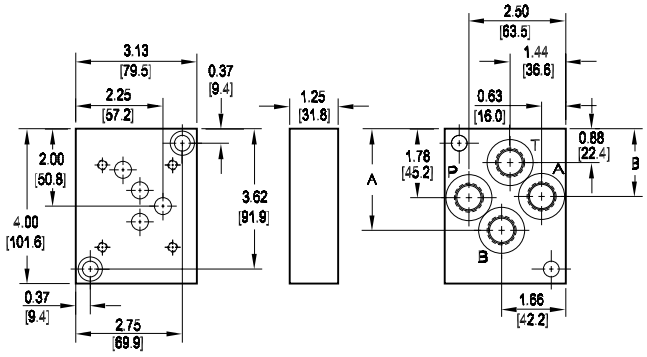
Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Back Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B
*D05SPB6P	2.63 [66.8]	1.75 [44.5]
*D05SPB8B	2.94 [74.6]	2.00 [50.8]
*D05SPB8[M,P,S,T]	2.63 [66.8]	1.75 [44.5]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Product Type

SP	Subplate

Port Location

S	Side ported
B	Back Ported

Port Threads

6P	0.38-18 NPTF ANSI B1.20.3
8P	0.50-14 NPTF ANSI B1.20.3
8S	-8 SAE ISO 11926; SAE 1926
8B	0.50-14 BSPP ISO 1179; BS 2779
8M	M18 x 1.5 ISO 6149
8T	0.50-14 BSPT ISO 7; BS 21

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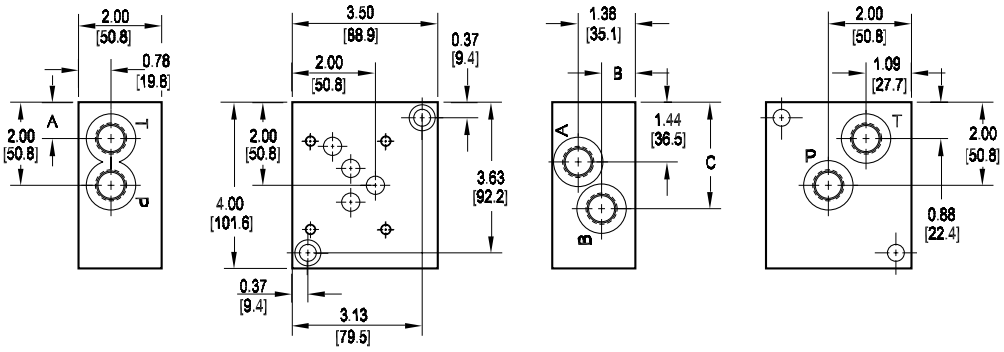
D05 Subplates

Dual Ported Subplate

Valve mtg: UNC 0.25-20 x 0.56 DP or
Metric M6-1.0mm ISO 6H x [14.2] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C
*D05SPSB8B	0.66 [16.7]	0.78 [19.8]	2.81 [71.4]
*D05SPSB8[M,P,S,T]	0.88 [22.2]	1.38 [35.1]	2.56 [65.1]

Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Product Type

SP	Subplate

Port Location

SB	Side P,A,B,T ports Back P & T ports

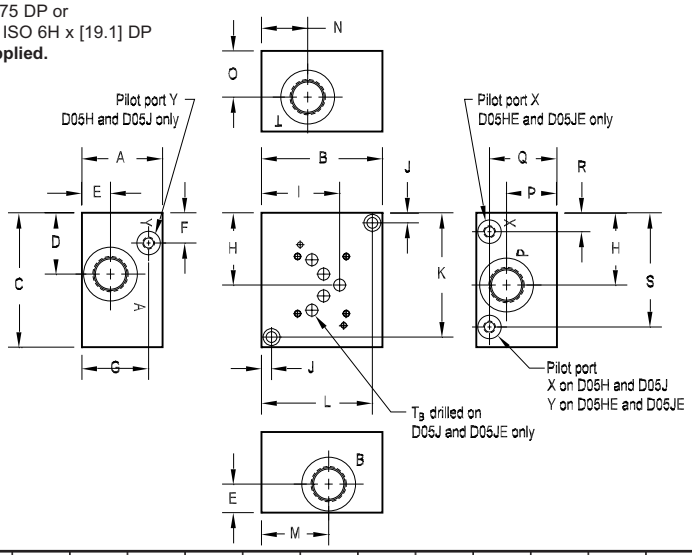
Port Threads

8P	0.50-14 NPTF ANSI B1.20.3
8S	-8 SAE ISO 11926; SAE 1926
8B	0.50-14 BSPP ISO 1179; BS 2779
8M	M18 x 1.5 ISO 6149
8T	0.50-14 BSPT ISO 7; BS 21

D05 High Flow Subplates with Pilot Ports

Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
D05HSPS12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.13 [54.1]	0.88 [22.4]	0.81 [20.6]	0.88 [22.4]	2.37 [60.2]	2.53 [64.3]	0.38 [9.5]	4.37 [111.0]	3.38 [85.9]	1.88 [47.8]	1.88 [47.8]	0.88 [22.4]	0.88 [22.4]	0.88 [22.4]	--	3.94 [100.1]
D05HESPS12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.13 [54.1]	0.88 [22.4]	--	--	2.37 [60.2]	2.53 [64.3]	0.38 [9.5]	4.37 [111.0]	3.38 [85.9]	1.88 [47.8]	1.88 [47.8]	0.88 [22.4]	0.88 [22.4]	0.44 [11.2]	1.00 [25.4]	3.94 [100.1]
D05JSPS16	3.00 [76.2]	4.50 [114.3]	5.00 [127.0]	2.28 [57.9]	1.06 [27.0]	1.25 [31.8]	2.50 [63.5]	2.69 [68.3]	2.91 [73.8]	0.38 [9.5]	4.63 [117.5]	4.13 [104.8]	2.50 [63.5]	1.72 [43.7]	1.72 [43.7]	1.88 [47.6]	2.50 [63.5]	--	4.19 [106.4]
D05JESPS16	3.00 [76.2]	4.50 [114.3]	5.00 [127.0]	2.28 [57.9]	1.06 [27.0]	--	--	2.69 [68.3]	2.91 [73.8]	0.38 [9.5]	4.63 [117.5]	4.13 [104.8]	2.50 [63.5]	1.72 [43.7]	1.72 [43.7]	1.88 [47.6]	2.25 [57.2]	1.13 [28.6]	4.25 [108.0]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

See Tech Information

D05H	(USA std.) NFPA T3.5.1-D05 Alt B High flow
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A High flow
D05J	(USA std.) NFPA T3.5.1-D05 Alt B Extra high flow
D05JE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A Extra high flow

Product Type

SP	Subplate

Port Location

S	Side ported

P, T, A, B Port Threads

D05H or D05HE only		D05J or D05JE only		X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3	**16P**	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	**16S**	-16 SAE ISO 11926; SAE 1926	-4 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	**16B**	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	**16M**	M33 x 2.0 ISO 6149	M10 x 1.0 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	**16T**	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

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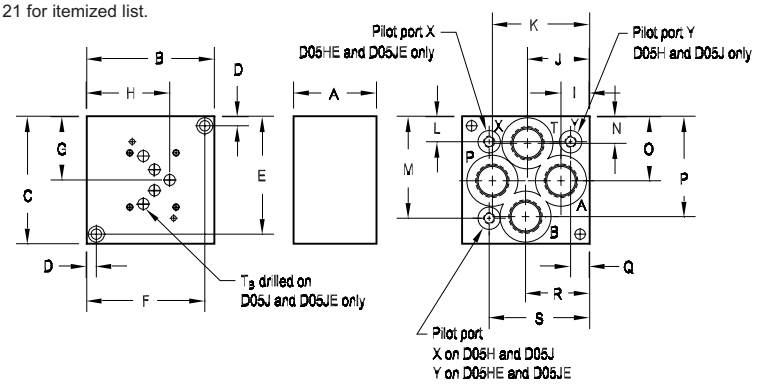
D05 High Flow Subplates with Pilot Ports

Back Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
D05HSPB12	1.75 [44.5]	4.50 [114.3]	4.75 [120.7]	0.38 [9.5]	4.38 [111.3]	4.13 [104.9]	2.37 [60.2]	2.91 [73.9]	1.13 [28.6]	2.19 [55.6]	3.31 [84.1]	0.88 [22.2]	3.88 [98.4]	1.13 [28.7]	2.38 [60.5]	3.56 [90.4]	0.59 [15.1]	2.25 [57.2]	3.56 [90.5]
D05HESPB12	1.75 [44.5]	4.50 [114.3]	4.75 [120.7]	0.38 [9.5]	4.38 [111.3]	4.13 [104.9]	2.37 [60.2]	2.91 [73.9]	1.13 [28.6]	2.25 [57.2]	3.31 [84.1]	0.81 [20.6]	3.94 [100.1]	1.13 [28.7]	2.38 [60.5]	3.56 [90.4]	--	2.25 [57.2]	3.50 [88.9]
*D05JSPB16B	3.25 [82.6]	5.00 [127.0]	5.00 [127.0]	0.38 [9.5]	4.63 [117.5]	4.63 [117.5]	2.50 [63.5]	3.25 [82.6]	1.00 [25.4]	2.44 [81.9]	3.84 [97.6]	0.88 [22.2]	4.13 [104.8]	1.00 [25.4]	2.53 [64.3]	4.00 [101.6]	0.75 [19.1]	2.44 [81.9]	4.25 [108.0]
*D05JSPB16[M,P,S,T]	3.25 [82.6]	5.00 [127.0]	5.00 [127.0]	0.38 [9.5]	4.63 [117.5]	4.63 [117.5]	2.50 [63.5]	3.25 [82.6]	1.13 [28.6]	2.44 [81.9]	3.81 [96.8]	1.06 [27.0]	4.00 [101.6]	1.06 [27.0]	2.53 [64.3]	3.94 [100.1]	0.75 [19.1]	2.44 [81.9]	3.94 [100.1]
D05JESPB16	3.25 [82.6]	5.00 [127.0]	5.00 [127.0]	0.38 [9.5]	4.63 [117.5]	4.63 [117.5]	2.50 [63.5]	3.25 [82.6]	1.00 [25.4]	2.44 [81.9]	3.84 [97.6]	1.06 [27.0]	4.00 [101.6]	1.06 [27.0]	2.53 [64.3]	4.00 [101.6]	--	2.44 [81.9]	3.94 [100.1]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
See Tech Information

D05H	(USA std.) NFPA T3.5.1-D05 Alt B High flow
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A High flow
D05J	(USA std.) NFPA T3.5.1-D05 Alt B Extra high flow
D05JE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A Extra high flow

Product Type

SP	Subplate

Port Location

B	Back ported

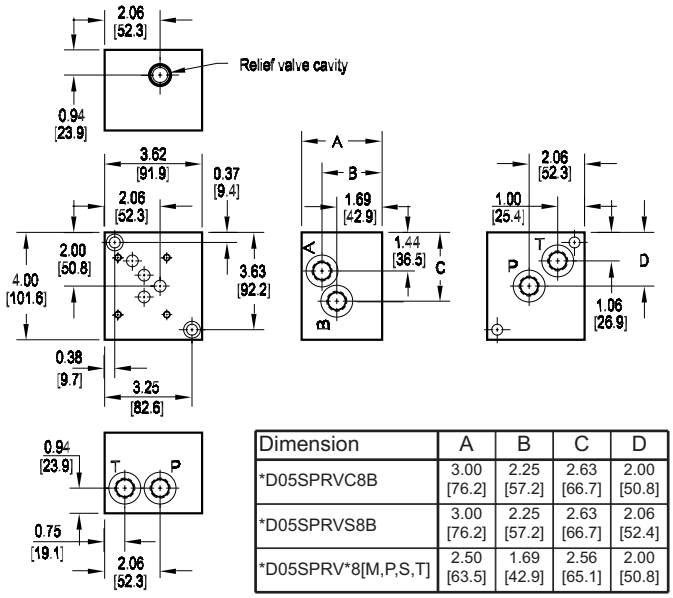
P, T, A, B Port Threads

D05H or D05HE only		D05J or D05JE only		X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3	**16P**	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	**16S**	-16 SAE ISO 11926; SAE 1926	-4 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	**16B**	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	**16M**	M33 x 2.0 ISO 6149	M10 x 1.0 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	**16T**	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

D05 Subplates with Relief Cavity

Dual Ported Subplate with Main Relief Cavity

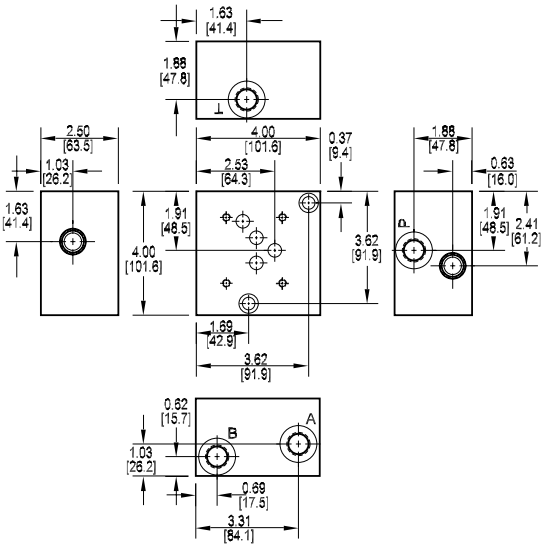
Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 121 for itemized list.



Dimension	A	B	C	D
*D05SPRVC8B	3.00 [76.2]	2.25 [57.2]	2.63 [66.7]	2.00 [50.8]
*D05SPRVS8B	3.00 [76.2]	2.25 [57.2]	2.63 [66.7]	2.06 [52.4]
*D05SPRV*8[M,P,S,T]	2.50 [63.5]	1.69 [42.9]	2.56 [65.1]	2.00 [50.8]

Side Ported Subplate with Cylinder Port Crossover Relief Cavities

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Relief Cavity

C	Common cavity C-10-2 (P in nose)
S	Sun Cavity T-10A (P in nose) See Tech Info for valves.

Port Threads

8P	0.50-14 NPTF ANSI B1.20.3
8S	-8 SAE ISO 11926; SAE 1926
8B	0.50-14 BSPP ISO 1179; BS 2779
8M	M18 x 1.5 ISO 6149
8T	0.50-14 BSPT ISO 7; BS 21

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

RV	Main Relief P to T
CR	Crossover Reliefs A to B and B to A

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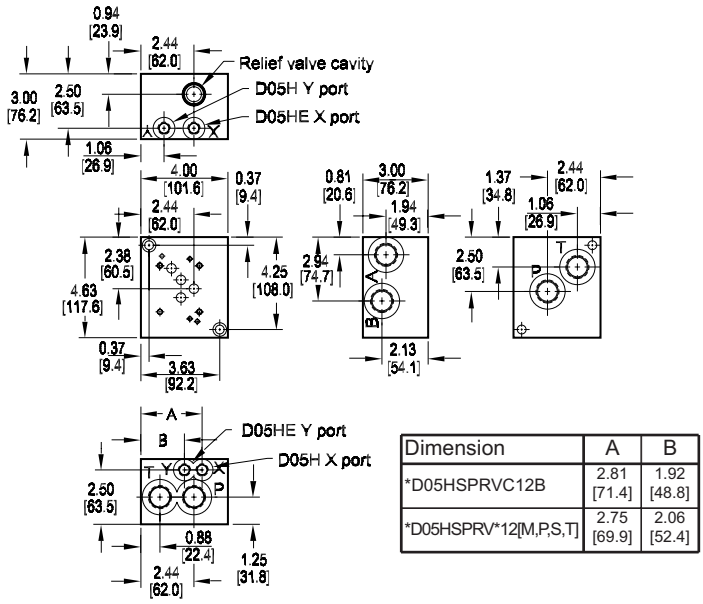
D05 High Flow Subplates with Pilot Ports and Relief Cavity

D05H High Flow Subplate with Main Relief Cavity

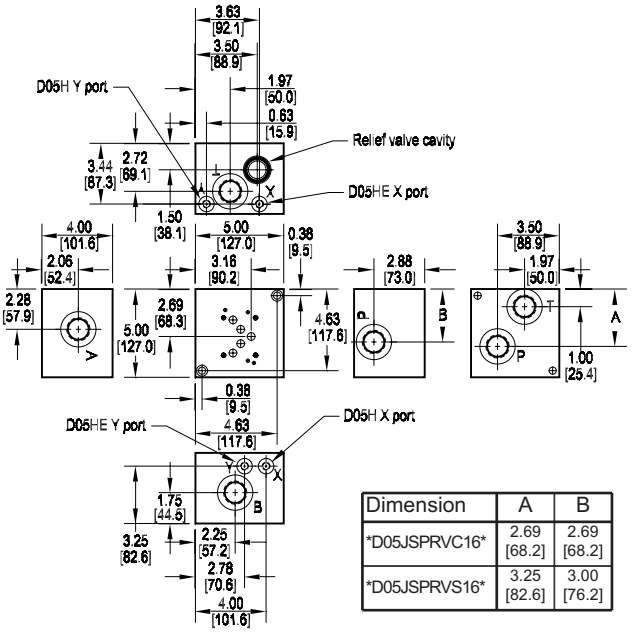
Valve mtg: UNC 0.25-20 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied. See page 121 for itemized list.



Dimension	A	B
*D05HSPRVC12B	2.81 [71.4]	1.92 [48.8]
*D05HSPRV*12[M,P,S,T]	2.75 [69.9]	2.06 [52.4]

D05J Extra High Flow Subplate with Main Relief Cavity

Valve mtg: UNC 0.25-20 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied. See page 122 for itemized list.



Dimension	A	B
D05JSPRVC16	2.69 [68.2]	2.69 [68.2]
D05JSPRVS16	3.25 [82.6]	3.00 [76.2]

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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type	
SP	Subplate

Circuit	
RV	Main Relief P to T

Valve Pattern	See Tech Information
D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B High flow
D05J	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B Extra high flow

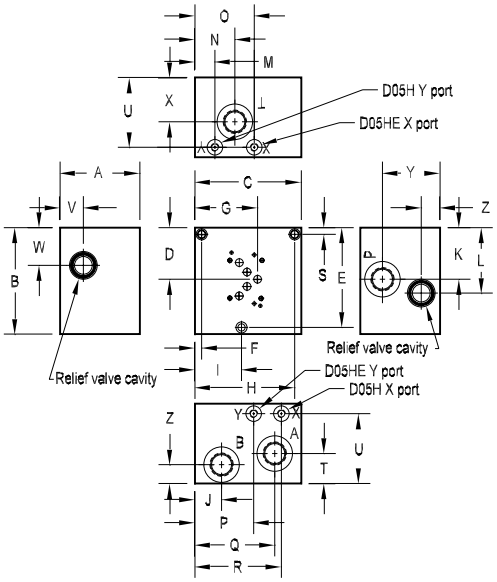
Relief Cavity	
C	Common cavity C-10-2 on D05H (P in nose) C-16-2 on D05J (P in nose)
S	Sun Cavity T-3A on D05H (P in nose) T-16A on D05J (P in nose) See Tech Info for valves

P, T, A,B Port Threads				X & Y port size (reference)
D05H only		D05J only		
12P	0.75-14 NPTF ANSI B1.20.3	16P	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	16S	-16 SAE ISO 11926; SAE 1926	-4 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	16B	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	16M	M33 x 2.0 ISO 6149	M10 x 1.0 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	16T	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

D05 High Flow Subplates with Pilot Ports and Relief Cavity

Side Ported Subplate with Cylinder Port Crossover Relief Cavities

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Dimension	A	B	C	D	E	F	G	H	I
*D05HSPCR*12*	4.50 [114.3]	5.00 [127.0]	5.00 [127.0]	2.41 [61.1]	4.63 [117.5]	--	3.03 [77.0]	4.63 [117.5]	2.13 [54.0]
D05JSPCRC16	4.50 [114.3]	5.00 [127.0]	5.00 [127.0]	2.41 [61.1]	4.63 [117.5]	--	3.03 [77.0]	4.63 [117.5]	2.13 [54.0]
D05JSPCRS16	4.50 [114.3]	6.00 [152.4]	6.00 [152.4]	2.91 [73.8]	5.63 [142.9]	0.38 [9.7]	3.53 [89.7]	5.63 [142.9]	2.63 [66.7]

Dimension	J	K	L	M	N	O	P	Q	R
*D05HSPCR*12*	1.00 [25.4]	2.41 [61.1]	3.00 [76.2]	0.63 [15.9]	2.00 [50.8]	2.85 [72.3]	2.81 [71.4]	4.00 [101.6]	4.38 [111.1]
D05JSPCRC16	1.00 [25.4]	2.41 [61.1]	3.00 [76.2]	0.63 [15.9]	1.75 [44.5]	2.85 [72.3]	2.81 [71.4]	4.00 [101.6]	4.38 [111.1]
D05JSPCRS16	1.50 [38.1]	2.91 [73.8]	3.69 [93.7]	1.13 [28.6]	2.25 [57.2]	3.35 [85.0]	3.31 [84.1]	4.50 [114.3]	4.88 [124.0]

Dimension	S	T	U	V	W	X	Y	Z
D05HSPCRC12	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.47 [37.3]	1.75 [44.5]	2.50 [63.5]	3.25 [82.6]	1.28 [32.5]
D05HSPCRS12	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.31 [33.3]	1.75 [44.5]	2.50 [63.5]	3.25 [82.6]	1.06 [27.0]
D05JSPCRC16	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.31 [33.3]	1.75 [44.5]	2.50 [63.5]	3.25 [82.6]	1.06 [27.0]
D05JSPCRS16	0.38 [9.5]	1.69 [42.9]	3.94 [100.0]	1.31 [33.3]	2.13 [54.0]	2.50 [63.5]	3.25 [82.6]	1.06 [27.0]

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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern
See Tech Information

D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B High flow
D05J	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B Extra high flow

Product Type

SP	Subplate

Circuit

CR	Crossover Reliefs A to B and B to A

Relief Cavity

C	Common cavity C-10-2 on D05H (P in nose) C-16-2 on D05J (P in nose)
S	Sun Cavity T-3A on D05H (P in nose) T-16A on D05J (P in nose) See Tech Info for valves

P, T, A, B Port Threads

D05H only		D05J only		X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3	**16P**	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	**16S**	-16 SAE ISO 11926; SAE 1926	-4 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	**16B**	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	**16M**	M33 x 2.0 ISO 6149	M10 x 1.0 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	**16T**	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

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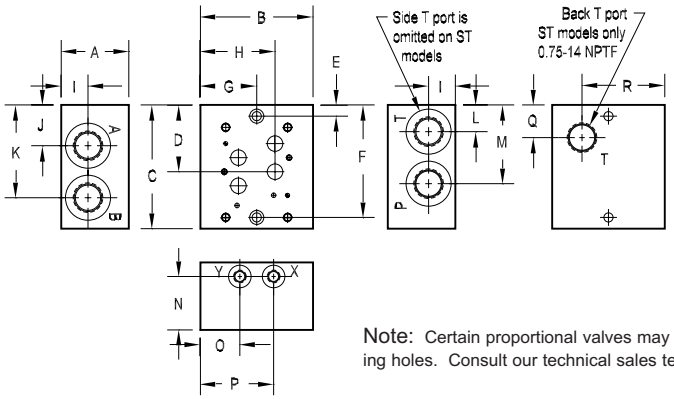
D07 Subplates

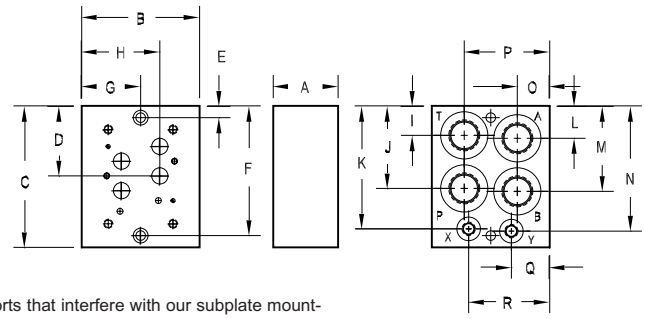
Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP and UNC 0.38-16 x 1.00 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP and M10-1.5mm ISO 6H x [25.4] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Back Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP and UNC 0.38-16 x 1.00 DP or
Metric M6-1.0mm ISO 6H x [19.1] DP and M10-1.5mm ISO 6H x [25.4] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Note: Certain proportional valves may have ports that interfere with our subplate mounting holes. Consult our technical sales team for information or custom subplate pricing.

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
D07SPSO12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.38 [111.3]	1.88 [47.8]	2.69 [68.3]	0.81 [20.6]	1.50 [38.1]	3.13 [79.5]	1.19 [30.2]	2.78 [70.6]	1.25 [31.8]	1.12 [28.4]	2.62 [66.5]	--	--
D07SPST12	1.75 [44.5]	3.75 [95.3]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.38 [111.3]	1.88 [47.8]	2.69 [68.3]	0.81 [20.6]	1.50 [38.1]	3.13 [79.5]	--	2.78 [70.6]	1.25 [31.8]	1.12 [28.4]	2.62 [66.5]	1.09 [27.7]	2.69 [68.3]
D07SPSO16	3.00 [76.2]	5.00 [127.0]	5.50 [139.7]	2.97 [75.4]	0.50 [12.7]	5.00 [127.0]	2.50 [63.5]	3.31 [84.2]	1.19 [30.2]	1.81 [46.0]	4.13 [104.8]	1.19 [30.2]	3.50 [88.9]	2.38 [60.3]	1.75 [44.5]	3.25 [82.6]	--	--
*D07SPB12B	1.50 [38.1]	4.00 [101.6]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.37 [111.0]	2.00 [50.8]	2.81 [71.4]	1.09 [27.7]	2.75 [69.9]	4.00 [101.6]	1.19 [30.2]	2.81 [71.4]	4.09 [103.9]	1.13 [28.7]	2.94 [74.7]	1.13 [28.7]	2.94 [74.7]
*D07SPB12[M,P,S,T]	1.50 [38.1]	4.00 [101.6]	4.75 [120.7]	2.34 [59.4]	0.38 [9.5]	4.37 [111.0]	2.00 [50.8]	2.81 [71.4]	1.09 [27.7]	2.81 [71.4]	4.00 [101.6]	1.25 [31.8]	2.91 [73.9]	4.09 [103.9]	1.13 [28.7]	2.94 [74.7]	1.13 [28.7]	2.94 [74.7]
D07SPB16	2.75 [69.9]	5.00 [101.6]	6.00 [152.4]	2.97 [75.4]	0.50 [12.7]	5.50 [139.7]	2.50 [63.5]	3.31 [84.2]	1.25 [31.8]	3.50 [88.9]	5.31 [134.9]	1.38 [34.9]	3.63 [92.1]	5.31 [134.9]	1.38 [34.9]	3.63 [92.1]	1.63 [41.3]	3.44 [87.3]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Product Type

SP	Subplate

Port Location

SO	Side ported
ST	Side P,A,B ports Back T port. Available on 12P and 12S only
B	Back ported

P, T, A, B Port Threads*

				X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3	**16P**	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	**16S**	-16 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	**16B**	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	**16M**	M33 x 2.0 ISO 6149	M14 x 1.5 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	**16T**	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

* T port is always 0.75-14 NPTF on ST models.

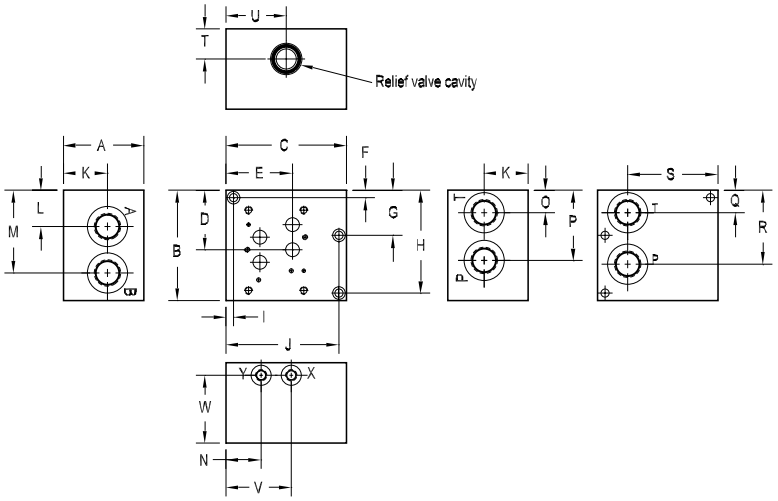
D07 Subplates with Relief Cavity

Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC 0.25-20 x 0.50 DP and UNC 0.38-16 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [12.7] DP and M10-1.5mm ISO 6H x [19.1] DP

Subplate hardware kit is supplied.

See page 122 for itemized list.



Dimension	A	B	C	D	E	F	G	H
D07SPRVC12	2.75 [69.9]	4.75 [120.7]	4.00 [101.6]	2.34 [59.4]	2.81 [71.4]	0.38 [9.5]	--	4.37 [111.0]
D07SPRVS12	2.50 [63.5]	4.75 [120.7]	4.00 [101.6]	2.34 [59.4]	2.81 [71.4]	0.38 [9.5]	--	4.37 [111.0]
D07SPRVC16	4.00 [101.6]	5.50 [139.7]	6.00 [152.4]	2.97 [75.4]	3.31 [84.2]	0.38 [9.5]	2.25 [57.2]	5.13 [130.2]
D07SPRVS16	4.00 [101.6]	5.50 [139.7]	6.00 [152.4]	2.97 [75.4]	3.31 [84.2]	0.38 [9.5]	2.25 [57.2]	5.13 [130.2]

Dimension	I	J	K	L	M	N	O	P
D07SPRVC12	1.38 [35.1]	2.00 [50.8]	1.50 [38.1]	1.50 [38.1]	3.12 [79.2]	1.19 [30.2]	1.19 [30.2]	2.78 [70.6]
D07SPRVS12	1.38 [35.1]	2.00 [50.8]	1.25 [31.8]	1.50 [38.1]	3.12 [79.2]	1.19 [30.2]	1.19 [30.2]	2.78 [70.6]
D07SPRVC16	0.38 [9.5]	5.63 [142.9]	2.19 [55.6]	1.81 [46.0]	4.13 [104.8]	1.75 [44.5]	1.00 [25.4]	3.50 [88.9]
D07SPRVS16	0.38 [9.5]	5.63 [142.9]	2.19 [55.6]	1.81 [46.0]	4.13 [104.8]	1.75 [44.5]	1.13 [28.6]	3.50 [88.9]

Dimension	Q	R	S	T	U	V	W
D07SPRVC12	1.13 [28.6]	2.75 [69.9]	2.81 [71.4]	1.75 [44.5]	2.22 [56.4]	2.81 [71.4]	2.25 [57.2]
D07SPRVS12	1.13 [28.6]	2.75 [69.9]	2.81 [71.4]	1.25 [31.8]	2.31 [58.7]	2.81 [71.4]	2.00 [50.8]
D07SPRVC16	1.13 [28.6]	3.69 [93.7]	4.50 [114.3]	1.50 [38.1]	3.00 [76.2]	3.25 [82.6]	3.38 [85.7]
D07SPRVS16	1.13 [28.6]	3.69 [93.7]	4.50 [114.3]	1.50 [38.1]	3.00 [76.2]	3.25 [82.6]	3.38 [85.7]

Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Circuit

RV	Main Relief P to T

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Relief Cavity

C	Common cavity C-10-2 w/ 12* ports (P in nose) C-16-2 w/ 16* ports (P in nose)
S	Sun Cavity T-3A w/ 12* ports (P in nose) T-16A w/ 16* ports (P in nose) See Tech Info for valves

P, T, A, B Port Threads

				X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3	**16P**	1.00-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
12S	-12 SAE ISO 11926; SAE 1926	**16S**	-16 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926
12B	0.75-14 BSPP ISO 1179; BS 2779	**16B**	1.00-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
12M	M27 x 2.0 ISO 6149	**16M**	M33 x 2.0 ISO 6149	M14 x 1.5 ISO 6149
12T	0.75-14 BSPT ISO 7; BS 21	**16T**	1.00-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

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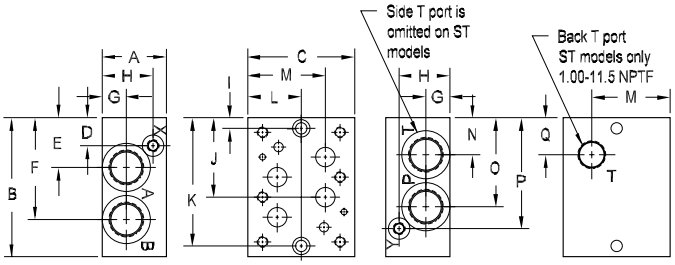
D08 Subplates

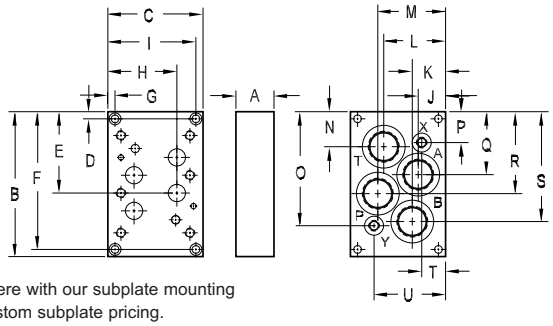
Side Ported Subplate

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Back Ported Subplate

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Note: Certain proportional valves may have ports that interfere with our subplate mounting holes. Consult our technical sales team for information or custom subplate pricing.

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
*D08SPSO12P, *D08SPSO16*	2.00 [50.8]	6.13 [155.7]	4.50 [114.3]	1.19 [30.2]	2.53 [64.3]	4.53 [115.1]	1.00 [25.4]	1.00 [25.4]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.25 [57.2]	3.38 [85.9]	1.56 [39.7]	3.59 [91.2]	4.94 [125.5]	--	--	--	--	--
*D08SPST12P, *D08SPST16*	2.00 [50.8]	6.13 [155.7]	4.50 [114.3]	1.19 [30.2]	2.53 [64.3]	4.53 [115.1]	1.00 [25.4]	1.00 [25.4]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.25 [57.2]	3.38 [85.9]	--	3.59 [91.2]	4.94 [125.5]	1.66 [42.1]	3.38 [85.9]	--	--	--
D08SPSO20	3.00 [76.2]	6.50 [165.1]	5.00 [127.0]	1.31 [33.3]	2.33 [59.2]	4.77 [121.2]	1.13 [28.6]	2.38 [60.3]	0.50 [12.7]	3.72 [94.5]	6.00 [152.4]	2.50 [63.5]	3.63 [92.2]	1.73 [43.9]	4.17 [105.9]	5.19 [131.8]	--	--	--	--	--
*D08SPSO20M	4.00 [101.6]	6.50 [165.1]	5.00 [127.0]	1.38 [34.9]	2.33 [59.2]	4.77 [121.2]	1.63 [41.3]	3.13 [79.4]	0.50 [12.7]	3.72 [94.5]	6.00 [152.4]	2.50 [63.5]	3.63 [92.2]	1.73 [43.9]	4.17 [105.9]	5.13 [130.2]	--	--	--	--	--
*D08SPB16B	1.50 [38.1]	6.13 [155.7]	4.63 [117.6]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.31 [58.7]	3.44 [87.4]	--	1.19 [30.2]	1.19 [30.2]	3.44 [87.4]	3.44 [87.4]	1.53 [38.9]	5.16 [131.0]	0.97 [24.6]	2.47 [62.7]	3.66 [92.9]	4.59 [116.7]	1.25 [31.8]	3.38 [85.9]
*D08SPB12P, *D08SPB16[M,P,S,T]	1.50 [38.1]	6.13 [155.7]	4.63 [117.6]	0.50 [12.7]	3.53 [89.7]	5.62 [142.7]	2.31 [58.7]	3.44 [87.4]	--	1.19 [30.2]	1.19 [30.2]	3.44 [87.4]	3.44 [87.4]	1.66 [42.2]	4.94 [125.5]	1.19 [30.2]	2.59 [65.8]	3.53 [89.7]	4.47 [113.5]	1.25 [31.8]	3.38 [85.9]
D08SPB20	2.00 [50.8]	7.63 [193.8]	5.00 [127.0]	0.38 [9.7]	4.28 [108.7]	7.25 [184.2]	0.38 [9.7]	3.63 [92.2]	4.63 [117.6]	1.44 [36.6]	1.75 [44.5]	3.25 [82.6]	3.56 [90.4]	1.84 [46.7]	6.00 [152.4]	1.63 [41.3]	3.31 [84.1]	4.31 [109.5]	5.78 [146.8]	1.44 [36.6]	3.56 [90.4]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Product Type

SP	Subplate

Port Location

SO	Side ported
ST	Side P,A,B ports; back T port. Available on 12P, 16P and 16S only
B	Back ported

P, T, A, B Port Threads*

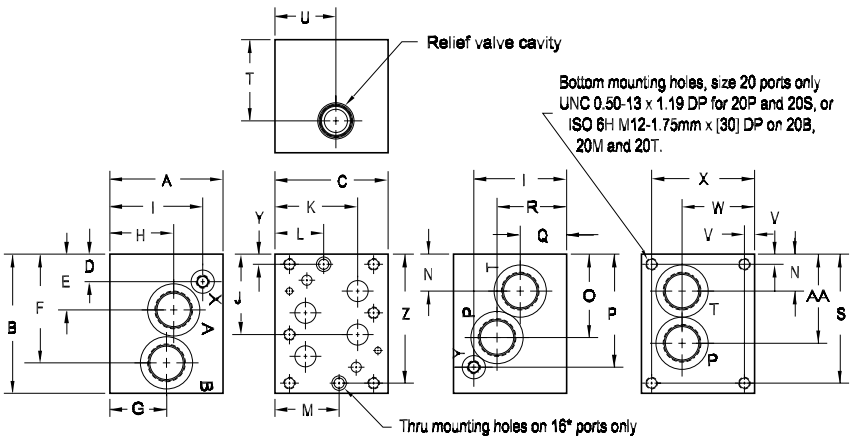
				X & Y port size (reference)
12P	0.75-14 NPTF ANSI B1.20.3			0.25-18 NPTF ANSI B1.20.3
16P	1.00-11.5 NPTF ANSI B1.20.3	**20P**	1.25-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
16S	-16 SAE ISO 11926; SAE 1926	**20S**	-20 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926
16B	1.00-11 BSPP ISO 1179; BS 2779	**20B**	1.25-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
16M	M33 x 2.0 ISO 6149	**20M**	M42 x 2.0 ISO 6149	M14 x 1.5 ISO 6149
16T	1.00-11 BSPT ISO 7; BS 21	**20T**	1.25-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

* T port is always 1.00-11.5 NPTF on ST models.

D08 Subplates with Relief Valve

Dual Ported Subplate with Main Relief Cavity

Valve mtg: UNC 0.50-13 x 1.19 DP or
Metric M12-1.75mm ISO 6H x [30.2] DP
Subplate hardware kit is supplied.
See page 122 for itemized list.



Note: Certain proportional valves may have ports that interfere with our subplate mounting holes. Consult our technical sales team for information or custom subplate pricing.

Dimension	A	B	C	D	E	F	G
D08SPRVC16	3.00 [76.2]	6.00 [152.4]	4.50 [114.3]	0.91 [23.1]	2.41 [61.2]	4.53 [115.1]	1.87 [47.5]
D08SPRVS16	3.00 [76.2]	6.00 [152.4]	4.50 [114.3]	0.91 [23.1]	2.41 [61.2]	4.53 [115.1]	1.87 [47.5]
*D08SPRV*20*	4.88 [124.0]	6.00 [152.4]	4.88 [124.0]	1.19 [30.2]	2.41 [61.2]	4.69 [119.1]	2.75 [69.9]
*D08SPRV*20M	4.88 [124.0]	6.00 [152.4]	4.88 [124.0]	1.19 [30.2]	2.41 [61.2]	4.69 [119.1]	2.00 [50.8]

Dimension	H	I	J	K	L	M	N
D08SPRVC16	1.87 [47.5]	1.25 [31.8]	3.47 [88.1]	3.38 [85.9]	1.68 [42.7]	2.56 [65.0]	1.47 [37.3]
D08SPRVS16	1.87 [47.5]	1.25 [31.8]	3.47 [88.1]	3.38 [85.9]	1.68 [42.7]	2.56 [65.0]	1.47 [37.3]
*D08SPRV*20*	2.75 [69.9]	4.00 [101.6]	3.47 [88.1]	3.56 [90.4]	--	--	1.59 [40.4]
*D08SPRV*20M	2.75 [69.9]	4.00 [101.6]	3.47 [88.1]	3.56 [90.4]	--	--	1.59 [40.4]

Dimension	O	P	Q	R	S	T	U
D08SPRVC16	3.59 [91.2]	5.09 [129.3]	1.87 [47.5]	1.87 [47.5]	--	1.25 [31.8]	2.47 [62.7]
D08SPRVS16	3.59 [91.2]	5.09 [129.3]	1.87 [47.5]	1.87 [47.5]	--	1.87 [47.5]	2.81 [71.4]
*D08SPRV*20*	3.60 [91.4]	4.88 [124.0]	2.00 [50.8]	3.00 [76.2]	5.56 [141.2]	3.50 [88.9]	2.63 [66.7]
*D08SPRV*20M	4.00 [101.6]	4.88 [124.0]	2.00 [50.8]	2.38 [60.3]	5.56 [141.2]	3.50 [88.9]	2.63 [66.7]

Dimension	V	W	X	Y	Z	AA
D08SPRVC16	--	3.50 [88.9]	--	0.44 [11.2]	5.56 [141.2]	3.59 [91.2]
D08SPRVS16	--	3.50 [88.9]	--	0.44 [11.2]	5.56 [141.2]	3.59 [91.2]
*D08SPRV*20*	0.44 [11.2]	3.13 [79.5]	4.44 [112.8]	--	--	3.84 [97.6]
*D08SPRV*20M	0.44 [11.2]	3.13 [79.5]	4.44 [112.8]	--	--	4.00 [101.6]

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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Relief Cavity	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Circuit

RV	Main Relief P to T

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Technical Info

Relief Cavity

C	Common cavity C-10-2 w/ 16* ports (P in nose) C-16-2 w/ 20* ports (P in nose)
S	Sun Cavity T-3A w/ 16* ports (P in nose) T-16A w/ 20* ports (P in nose) See Tech Info for valves

P, T, A, B Port Threads

				X & Y port size (reference)
16P	1.00-11.5 NPTF ANSI B1.20.3	**20P**	1.25-11.5 NPTF ANSI B1.20.3	0.25-18 NPTF ANSI B1.20.3
16S	-16 SAE ISO 11926; SAE 1926	**20S**	-20 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926
16B	1.00-11 BSPP ISO 1179; BS 2779	**20B**	1.25-11 BSPP ISO 1179; BS 2779	0.25-19 BSPP ISO 1179; BS 2779
16M	M33 x 2.0 ISO 6149	**20M**	M42 x 2.0 ISO 6149	M14 x 1.5 ISO 6149
16T	1.00-11 BSPT ISO 7; BS 21	**20T**	1.25-11 BSPT ISO 7; BS 21	0.25-19 BSPT ISO 7; BS 21

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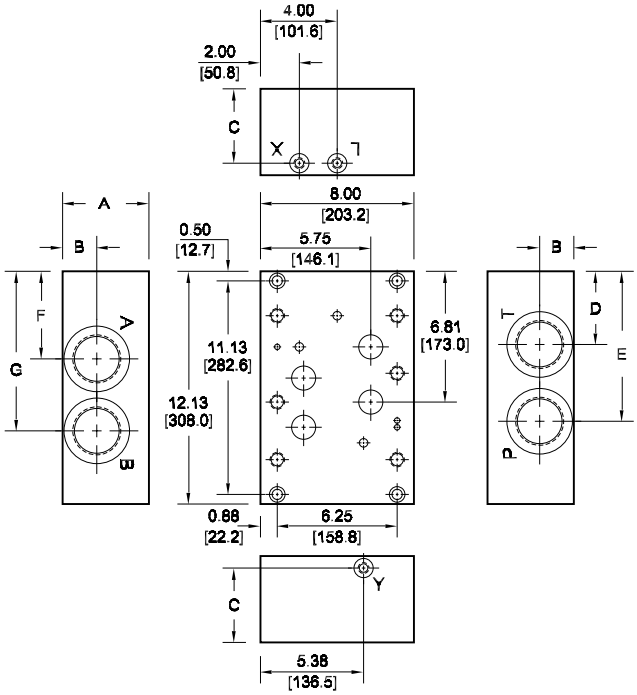
D10 Subplates

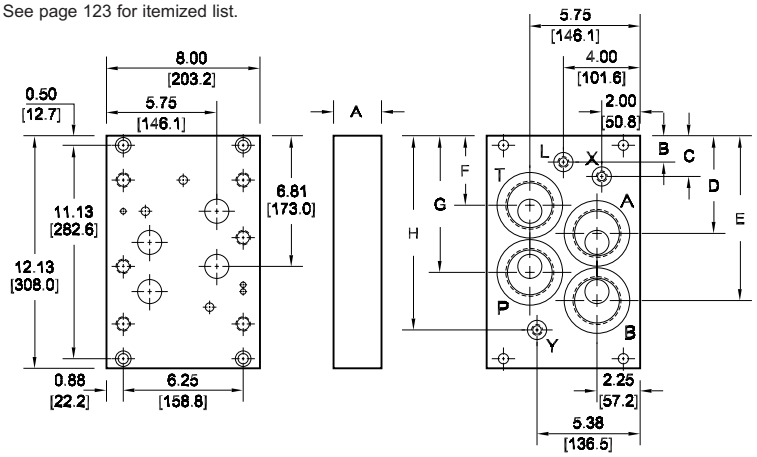
Side Ported Subplate

Valve mtg: UNC 0.75-10 x 1.63 [41.3] DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



Back Ported Subplate

Valve mtg: UNC 0.75-10 x 1.63 [41.3] DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



Dimension	A	B	C	D	E	F	G	H
*D10SPSO20P	3.50 [88.9]	1.75 [44.5]	2.88 [73.0]	3.81 [96.8]	7.13 [181.0]	5.22 [132.6]	8.31 [211.2]	--
D10SPSO24	4.00 [101.6]	1.75 [44.5]	3.38 [85.7]	3.81 [96.8]	7.13 [181.0]	5.22 [132.6]	8.31 [211.2]	--
D10SPSO32	4.50 [114.3]	1.78 [45.2]	3.88 [98.4]	3.81 [96.8]	7.81 [198.4]	4.56 [115.9]	8.31 [211.2]	--
*D10SPB20P *D10SPB24*	2.00 [50.8]	2.31 [58.7]	3.94 [100.0]	5.81 [147.6]	8.61 [218.7]	3.94 [100.0]	6.81 [173.0]	8.94 [227.0]
D10SPB32	2.50 [63.5]	1.38 [34.9]	2.13 [54.0]	5.09 [129.4]	8.59 [218.3]	3.63 [92.1]	7.13 [181.0]	10.13 [257.2]

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Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material	
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type	
SP	Subplate

Valve Pattern	
D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

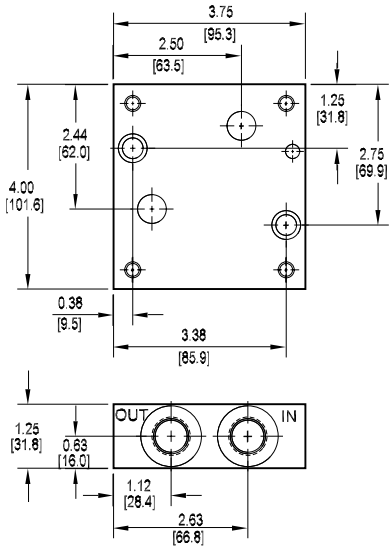
Port Location	
SO	Side ported
B	Back ported

P, T, A, B Port Threads				X, Y, & L port size (reference)
20P	1.25-11.5 NPTF ANSI B1.20.3			0.38-18 NPTF ANSI B1.20.3
24P	1.50-11.5 NPTF ANSI B1.20.3	32P	2.00-11.5 NPTF ANSI B1.20.3	0.38-18 NPTF ANSI B1.20.3
24S	-24 SAE ISO 11926; SAE 1926	32S	-32 SAE ISO 11926; SAE 1926	-6 SAE ISO 11926; SAE 1926

2F06, 2F07 Flow Control Subplates

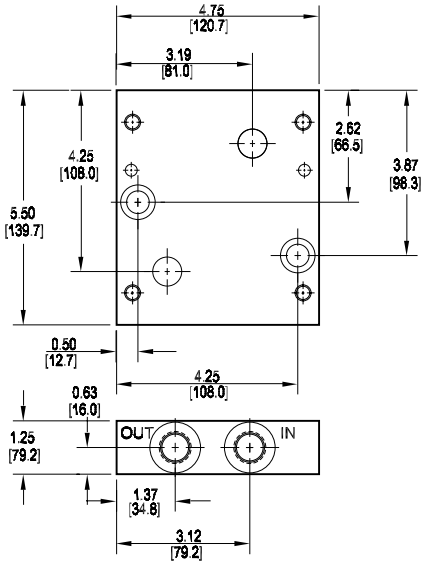
2F06 Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



2F07 Side Ported Subplate

Valve mtg: UNC 0.38-16 x 1.00 DP
Subplate hardware kit is supplied.
See page 123 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

2F06	ISO 6263-06-05 NFPA T3.5.1-2F06 See Tech Information
2F07	ISO 6263-07-09 NFPA T3.5.1-2F07 See Tech Information

Product Type

SP	Subplate

Port Location

S	Side ported

Port Threads

	2F06 only
6P	0.38-18 NPTF ANSI B1.20.3
	2F06 or 2F07
8P	0.50-14 NPTF ANSI B1.20.3
8S	-8 SAE ISO 11926; SAE 1926

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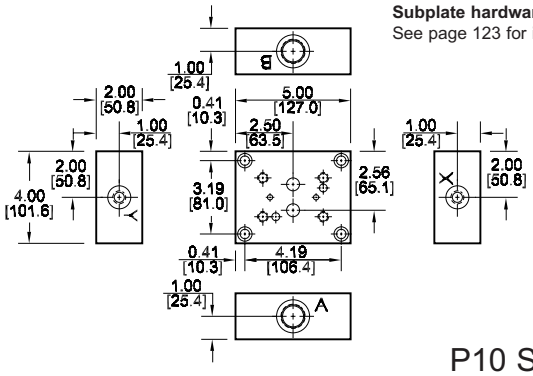
P06, P08, P10 Pressure Control Subplates

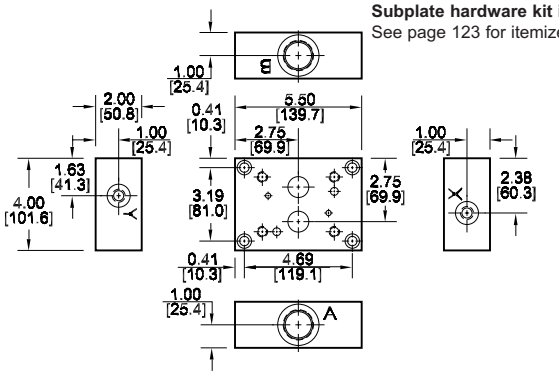
P06 Side Ported Subplate

Valve mtg: UNC 0.38-16 x 1.00 [25] DP
X & Y Ports: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.



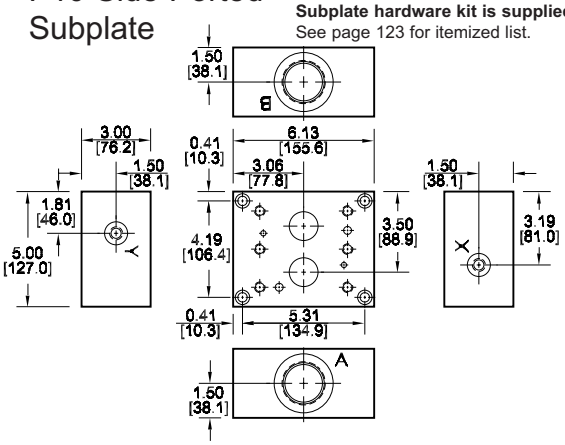
P08 Side Ported Subplate

Valve mtg: UNC 0.38-16 x 1.00 [25] DP
X & Y Ports: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.



P10 Side Ported Subplate

Valve mtg: UNC 0.38-16 x 1.00 [25] DP
X & Y Ports: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

P06	ISO 6264-06-07 ISO 5781-06-07 NFPA T3.5.1-[R]P06 See Tech Information
P08	ISO 6264-08-11 ISO 5781-08-10 NFPA T3.5.1-[R]P08 See Tech Information
P10	ISO 6264-10-15 ISO 5781-10-13 NFPA T3.5.1-[R]P10 See Tech Information

Product Type

SP	Subplate

Port Location

S	Side ported

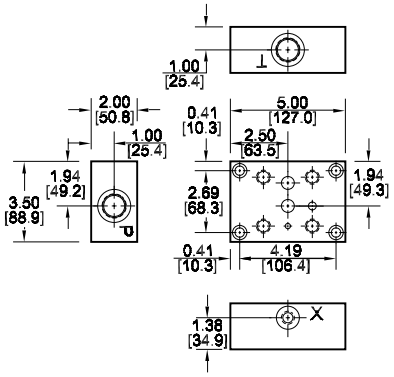
Port Threads

P06 only			
08P	0.50-14 NPTF ANSI B1.20.3	**08S**	-8 SAE ISO 11926; SAE 1926
P06 or P08			
12P	0.75-14 NPTF ANSI B1.20.3	**12S**	-12 SAE ISO 11926; SAE 1926
P08 only			
16P	1.00-11.5 NPTF ANSI B1.20.3	**16S**	-16 SAE ISO 11926; SAE 1926
P10 only			
20P	1.25-11.5 NPTF ANSI B1.20.3	**20S**	-20 SAE ISO 11926; SAE 1926
24P	1.50-11.5 NPTF ANSI B1.20.3	**24S**	-24 SAE ISO 11926; SAE 1926

R06, R08, I08, R10, I10 Relief Valve Subplates

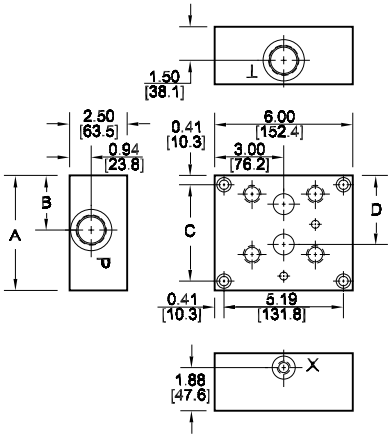
R06 (I06) Side Ported Subplate

Valve mtg: UNC 0.50-13 x 1.00 [25] DP
X Port: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.



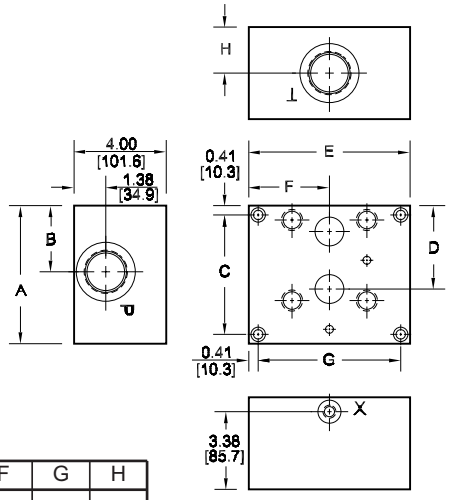
R08, I08 Side Ported Subplate

Valve mtg: UNC 0.63-11 x 1.44 [36] DP
X Port: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.



R10, I10 Side Ported Subplate

Valve mtg: UNC 0.75-10 x 1.63 [41] DP
X Port: 0.38-18 NPTF or -6 SAE.
Subplate hardware kit is supplied.
See page 123 for itemized list.



Dimension	A	B	C	D	E	F	G	H
R08SPS12 *R08SPS16*	5.00 [127.0]	2.38 [60.3]	4.19 [106.4]	3.00 [76.2]	--	--	--	--
I08SPS12 *I08SPS16*	4.50 [114.3]	2.44 [61.9]	3.69 [93.7]	2.75 [69.9]	--	--	--	--
R10SPS20 *R10SPS24*	6.00 [152.4]	2.88 [73.0]	5.19 [131.8]	3.63 [92.1]	7.00 [177.8]	3.50 [88.9]	6.19 [157.2]	2.00 [50.8]
I10SPS20 *I10SPS24*	5.00 [127.0]	2.38 [60.3]	4.19 [106.4]	3.06 [77.8]	7.38 [187.3]	3.69 [93.7]	6.56 [166.7]	2.63 [66.7]

Ordering Information

Material	Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

R06	ISO 6264-06-09 NFPA T3.5.1-R06 See Tech Information
R08	ISO 6264-08-13 NFPA T3.5.1-R08 See Tech Information
I08	NFPA T3.5.1-RV08 See Tech Information
R10	ISO 6264-10-17 NFPA T3.5.1-R10 See Tech Information
I10	NFPA T3.5.1-RV10 See Tech Information

Product Type

SP	Subplate

Port Location

S	Side ported

Port Threads

R06 only			
08P	0.50-14 NPTF ANSI B1.20.3	**08S**	-8 SAE ISO 11926; SAE 1926
R06, R08, or I08			
12P	0.75-14 NPTF ANSI B1.20.3	**12S**	-12 SAE ISO 11926; SAE 1926
R08 or I08			
16P	1.00-11.5 NPTF ANSI B1.20.3	**16S**	-16 SAE ISO 11926; SAE 1926
R10 or I10			
20P	1.25-11.5 NPTF ANSI B1.20.3	**20S**	-20 SAE ISO 11926; SAE 1926
24P	1.50-11.5 NPTF ANSI B1.20.3	**24S**	-24 SAE ISO 11926; SAE 1926

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Subplate Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Plugs
* D02 SP * 4P, 4S	101	(2) UNC 0.25-20 x 0.88 long SHCS	n/a
* D02 SP * 4B, 4M, 4T	101	(2) ISO 6H M6-1.0 x 22mm SHCS	n/a
* D03 SP * 4P, 6P, 6S	102	(2) UNC 0.25-20 x 0.88 long SHCS	n/a
* D03 SP * 6B, 6M, 6T	102	(2) ISO 6H M6-1.0 x 22mm SHCS	n/a
* D03 SP * 8P, 8S	102	(2) UNC 0.25-20 x 1.50 long SHCS	n/a
* D03 SP * 8B, 8M, 8T	102	(2) ISO 6H M6-1.0 x 40mm SHCS	n/a
* D03 SP S 12P, 12S	102	(2) UNC 0.38-16 x 1.75 long SHCS	n/a
* D03 SP S 12B, 12M, 12T	102	(2) ISO 6H M10-1.5 x 45mm SHCS	n/a
* D03 SP B 12P, 12S	102	(2) UNC 0.38-16 x 1.50 long SHCS	n/a
* D03 SP B 12B, 12M, 12T	102	(2) ISO 6H M10-1.5 x 40mm SHCS	n/a
* D03 SP SB 6P	103	(2) UNC 0.25-20 x 1.50 long SHCS	(2) 0.38-18 NPTF LSPP
* D03 SP SB 6S	103		(2) -6 SAE hex socket plug
* D03 SP SB 6B, 6M, 6T	103	(2) ISO 6H M6-1.0 x 40mm SHCS	n/a
* D03 SP SB 8P	103	(2) UNC 0.25-20 x 2.00 long SHCS	(2) 0.50-14 NPTF LSPP
* D03 SP SB 8S	103		(2) -8 SAE hex socket plug
* D03 SP SB 8B, 8M, 8T	103	(2) ISO 6H M6-1.0 x 50mm SHCS	n/a
* D03 SP M 8*	103	(4) UNC 0.31-18 x 2.50 long SHCS	n/a
* D03 SP RV * 6P	104	(2) UNC 0.31-18 x 2.25 long SHCS	(2) 0.38-18 NPTF LSPP
* D03 SP RV * 6S	104		(2) -6 SAE hex socket plug
* D03 SP RV * 6B, 6M, 6T	104	(2) ISO 6H M8-1.25 x 60mm SHCS	n/a
* D03 SP RV * 8P	104	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 0.50-14 NPTF LSPP
* D03 SP RV * 8S	104		(2) -8 SAE hex socket plug
* D03 SP RV * 8B, 8M, 8T	104	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D03 SP RV * 12P	104	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 0.75-14 NPTF LSPP
* D03 SP RV * 12S	104		(2) -12 SAE hex socket plug
* D03 SP RV * 12B, 12M, 12T	104	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D03 SP CR * 6P, 6S	105	(2) UNC 0.31-18 x 2.50 long SHCS	n/a
* D03 SP CR * 6B, 6M, 6T	105	(2) ISO 6H M8-1.25 x 65mm SHCS	n/a
* D03 SP CR * 12P, 12S	105	(2) UNC 0.38-16 x 4.00 long SHCS	n/a
* D03 SP CR * 12B, 12M, 12T	105	(2) ISO 6H M10-1.5 x 100mm SHCS	n/a
* D05 SP S 6P, 8P, 8S	106	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* D05 SP S 8B, 8M, 8T	106	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D05 SP B 6P, 8P, 8S	106	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* D05 SP B 8B, 8M, 8T	106	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D05 SP SB 8P	107	(2) UNC 0.38-16 x 1.50 long SHCS	(2) 0.50-14 NPTF LSPP
* D05 SP SB 8S	107		(2) -8 SAE hex socket plug
* D05 SP SB 8B, 8M, 8T	107	(2) ISO 6H M10-1.5 x 40mm SHCS	n/a
* D05H(E) SP * 12P, 12S	108, 109	(2) UNC 0.38-16 x 1.75 long SHCS	n/a
* D05H(E) SP * 12B, 12M, 12T	108, 109	(2) ISO 6H M10-1.5 x 45mm SHCS	n/a
* D05J(E) SP S 16P, 16S	108, 109	(2) UNC 0.38-16 x 3.00 long SHCS	n/a
* D05J(E) SP S 16B, 16M, 16T	108, 109	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D05J(E) SP B 16P, 16S	108, 109	(2) UNC 0.38-16 x 3.25 long SHCS	n/a
* D05J(E) SP B 16B, 16M, 16T	108, 109	(2) ISO 6H M10-1.5 x 90mm SHCS	n/a
* D05 SP RV * 8P	110	(2) UNC 0.38-16 x 2.50 long SHCS	(2) 0.50-14 NPTF LSPP
* D05 SP RV * 8S	110		(2) -8 SAE hex socket plug
* D05 SP RV * 8B, 8M, 8T	110	(2) ISO 6H M10-1.5 x 65mm SHCS	n/a
* D05H SP RV * 12P	111	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 0.25-18 NPTF LSPP (2) 0.75-14 NPTF LSPP
* D05H SP RV * 12S	111		(2) -4 SAE hex socket plug (2) -12 SAE hex socket plug
* D05H SP RV * 12B, 12M, 12T	111	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a

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Subplate Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Plugs
* D05J SP RV * 16P	111	(2) UNC 0.38-16 x 4.00 long SHCS	(2) 0.25-18 NPTF LSPP (2) 1.00-11.5 NPTF LSPP
* D05J SP RV * 16S	111		(2) -4 SAE hex socket plug (2) -16 SAE hex socket plug
* D05J SP RV * 16B, 16M, 16T	111	(2) ISO 6H M10-1.5 x 100mm SHCS	n/a
* D05 SP CR * 8P, 8S	110	(2) UNC 0.38-16 x 2.00 long SHCS	n/a
* D05 SP CR * 8B, 8M, 8T	110	(2) ISO 6H M10-1.5 x 50mm SHCS	n/a
* D05H SP CR * 12P	112	(2) UNC 0.38-16 x 4.50 long SHCS	(2) 0.25-18 NPTF LSPP
* D05H SP CR * 12S	112		(2) -4 SAE hex socket plug
* D05H SP CR * 12B, 12M, 12T	112	(2) ISO 6H M10-1.5 x 120mm SHCS	n/a
* D05J SP CR * 16P	112	(2) UNC 0.38-16 x 4.50 long SHCS	(2) 0.25-18 NPTF LSPP
* D05J SP CR * 16S	112		(2) -4 SAE hex socket plug
* D05J SP CR * 16B, 16M, 16T	112	(2) ISO 6H M10-1.5 x 120mm SHCS	n/a
* D07 SP S* 12P, 12S	113	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* D07 SP S* 12B, 12M, 12T	113	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D07 SP SO 16P, 16S	113	(2) UNC 0.38-16 x 3.00 long SHCS	n/a
* D07 SP SO 16B, 16M, 16T	113	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D07 SP B 12P, 12S	113	(2) UNC 0.38-16 x 1.50 long SHCS	n/a
* D07 SP B 12B, 12M, 12T	113	(2) ISO 6H M10-1.5 x 35mm SHCS	n/a
* D07 SP B 16P, 16S	113	(2) UNC 0.38-16 x 2.75 long SHCS	n/a
* D07 SP B 16B, 16M, 16T	113	(2) ISO 6H M10-1.5 x 70mm SHCS	n/a
* D07 SP RV C 12P	114	(2) UNC 0.38-16 x 2.75 long SHCS	(2) 0.75-14 NPTF LSPP
* D07 SP RV C 12S	114		(2) -12 SAE hex socket plug
* D07 SP RV C 12B, 12M, 12T	114	(2) ISO 6H M10-1.5 x 70mm SHCS	n/a
* D07 SP RV S 12P	114	(2) UNC 0.38-16 x 2.50 long SHCS	(2) 0.75-14 NPTF LSPP
* D07 SP RV S 12S	114		(2) -12 SAE hex socket plug
* D07 SP RV S 12B, 12M, 12T	114	(2) ISO 6H M10-1.5 x 65mm SHCS	n/a
* D07 SP RV * 16P	114	(2) UNC 0.38-16 x 4.00 long SHCS	(2) 1.00-11.5 NPTF LSPP
* D07 SP RV * 16S	114		(2) -16 SAE hex socket plug
* D07 SP RV * 16B, 16M, 16T	114	(2) ISO 6H M10-1.5 x 100mm SHCS	n/a
* D08 SP S* 12P, 16P, 16S	115	(2) UNC 0.50-13 x 1.75 long SHCS	n/a
* D08 SP S* 16B, 16M, 16T	115	(2) ISO 6H M12-1.75 x 45mm SHCS	n/a
* D08 SP SO 20P, 20S	115	(2) UNC 0.50-13 x 3.00 long SHCS	n/a
* D08 SP SO 20B, 20M, 20T	115	(2) ISO 6H M12-1.75 x 75mm SHCS	n/a
* D08 SP B 12P, 16P, 16S	115	(2) UNC 0.50-13 x 1.50 long SHCS	n/a
* D08 SP B 16B, 16M, 16T	115	(2) ISO 6H M12-1.75 x 40mm SHCS	n/a
* D08 SP B 20P, 20S	115	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* D08 SP B 20B, 20M, 20T	115	(4) ISO 6H M10-1.5 x 50mm SHCS	n/a
* D08 SP RV * 16P	116	(2) UNC 0.38-16 x 3.00 long SHCS	(2) 1.00-11.5 NPTF LSPP
* D08 SP RV * 16S	116		(2) -16 SAE hex socket plug
* D08 SP RV * 16B, 16M, 16T	116	(2) ISO 6H M10-1.5 x 75mm SHCS	n/a
* D08 SP RV * 20P	116	n/a	(2) 1.25-11.5 NPTF LSPP
* D08 SP RV * 20S	116		(2) -20 SAE hex socket plug
* D08 SP RV * 20B, 20M, 20T	116	n/a	n/a

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Subplate Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Plugs
* D10 SP S O 20P	117	(4) UNC 0.50-13 x 3.50 long SHCS	n/a
* D10 SP S O 24P, 24S	117	(4) UNC 0.50-13 x 4.00 long SHCS	n/a
* D10 SP S O 32P, 32S	117	(4) UNC 0.50-13 x 4.50 long SHCS	n/a
* D10 SP B 20P	117	(4) UNC 0.50-13 x 2.00 long SHCS	n/a
* D10 SP B 24P, 24S	117	(4) UNC 0.50-13 x 2.00 long SHCS	n/a
* D10 SP B 32P, 32S	117	(4) UNC 0.50-13 x 2.50 long SHCS	n/a
* 2F06 SP S 6P, 8P, 8S	118	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* 2F07 SP S 8P, 8S	118	(2) UNC 0.38-16 x 1.25 long SHCS	n/a
* P06 SP S 08P, 08S, 12P, 12S	119	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* P08 SP S 12P, 12S, 16P, 16S	119	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* P10 SP S 20P, 20S, 24P, 24S	119	(4) UNC 0.38-16 x 3.00 long SHCS	n/a
* R06 SP S 08P, 08S, 12P, 12S	120	(4) UNC 0.38-16 x 2.00 long SHCS	n/a
* R08 SP S 12P, 12S, 16P, 16S	120	(4) UNC 0.38-16 x 2.50 long SHCS	n/a
* I08 SP S 12P, 12S, 16P, 16S	120	(4) UNC 0.38-16 x 2.50 long SHCS	n/a
* R10 SP S 20P, 20S, 24P, 24S	120	(4) UNC 0.38-16 x 4.00 long SHCS	n/a
* I10 SP S 20P, 20S, 24P, 24S	120	(4) UNC 0.38-16 x 4.00 long SHCS	n/a

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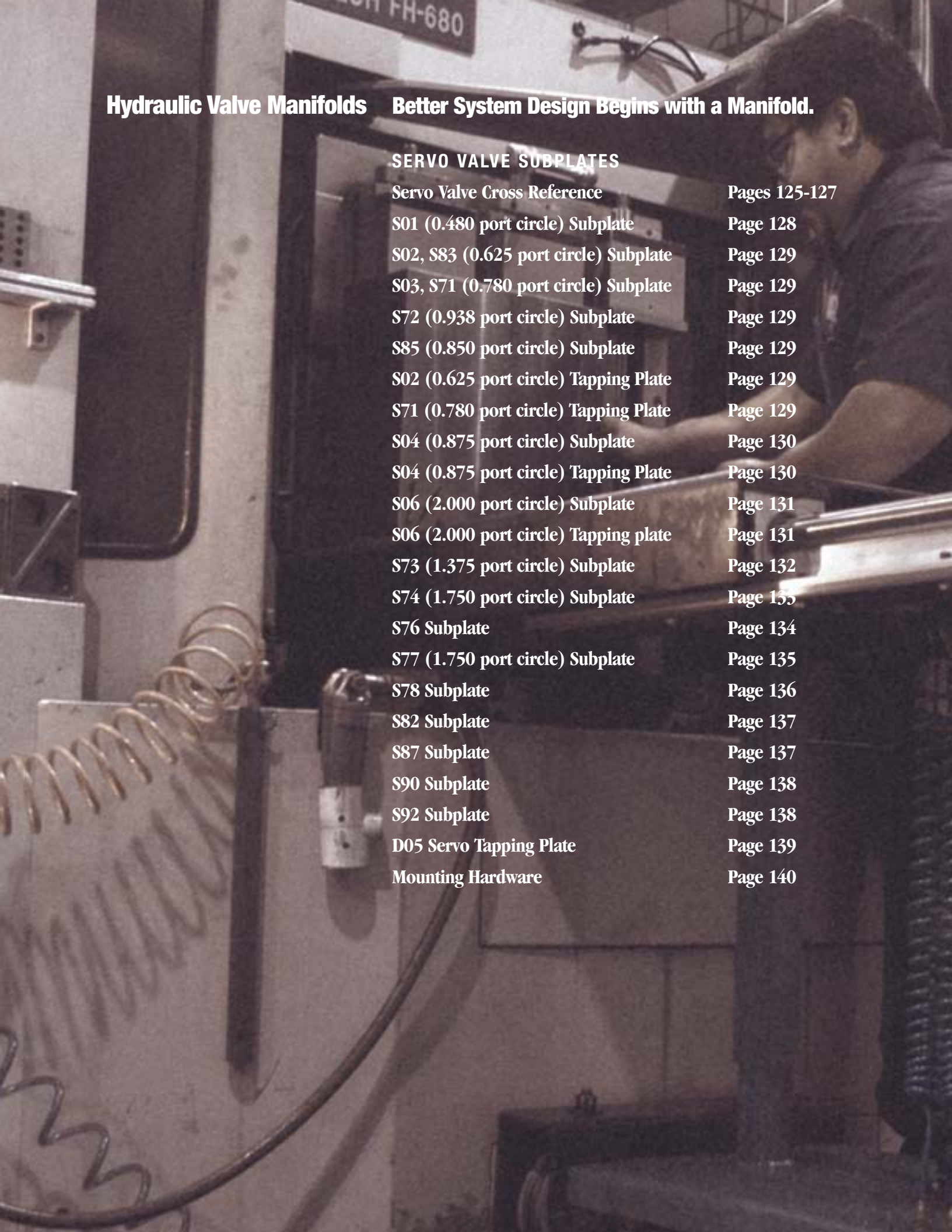

SERVO VALVE SUBPLATES

Servo Valve Cross Reference

Daman pattern no.	ISO no.	Port Circle	HR Textron	Moog	Moog / Atchley	Moog / Pegasus	MTS	Parker	Parker/ Dyval	Rexroth	Vickers
S01	10372-01	0.480	27A [1)5)]	30 [1)5)] 260 [1)5)]	--	--	--	SEMT [1)]	--	--	--
S02	10372-02	0.625	--	31 261 [1)] 77-100 [6)] 771 774	206 [1)6)] 208A [3)] 209 [1)]	20 [2)] 105H [2)] 122A [2)] 125	--	SE05	--	--	--
S03	10372-03	0.780	--	77-200	207-optional [1)7)]	132A [2)12)]	--	--	--	--	SM4-12 SX4-12
S04	10372-04	0.875	27E [1)]	62 730 730-HP8 760 [4)] 760-HP8 761HR [4)] D765 [3)] G761	215A [3)] 320	142M [1)] 142MP [2)4)] 162M [2)] 162MP [2)4)]	252.2X 252.4X	BD15 PH76 SE20 [3)] SE2E [3)]	--	[3)9)] 4WS*2E*10A-4X	SM4-20 [4)] SX4-20 [4)]
S06	10372-06	2.000	--	72 [3)] 79-100 [4)8)] D791 [4)]	261 [1)]	1282A 1282AD 1282ADL 1282B	252.3X	SE60 [3)]	--	[3)10)] 4WS*2E*16A-2X	--
S71	--	0.780	27C	15 32 34 262 [1)] 264 [1)] 755 772 77-200-optional	207 [1)11)] 211A [3)] 214 [1)3)]	--	--	SE10	--	--	--
S72	--	0.938	--	773 77-500	218 [1)]	142A [2)12)] 162A [2)12)] 162R [2)12)] 212 [2)12)] 235 [2)12)]	--	SE15	--	--	SM4-15 SX4-15
S73	--	1.375	--	743 [3)]	225A [3)] 225B [3)]	--	--	SE2N	--	--	--
S74	--	1.750	--	--	--	1330	--	--	--	--	--

NOTES:
1) This valve does not have a locating pin, therefore the pattern does not require a locating pin hole.
2) The A & B (C1 & C2) ports are reversed on these valves compared to the ISO standard or the majority of other manufacturers valves.
3) These valves have an optional pilot port conforming to ISO standards or the majority of other manufacturers valves.
4) These valves have an optional pilot port which does not conform to ISO standards.
5) These valves use mounting threads which do not conform to the ISO standard of M4.
6) The S02 mounting pattern has #10-32 or M5 mounting threads. If using the optional 1/4-20 or M6 bolts use the S83 valve pattern.
7) The S03 mounting pattern has #1/4-20 or M6 mounting threads. If using the optional #10-32 or M5 bolts use the S71 valve pattern.
8) The ports on this valve are 90 degrees out of phase with the ISO standard and all other valves using this pattern.
9) Manufacturer's catalog states that this valve is also in conformance with CETOP RP115H type 4.
10) Manufacturer's catalog states that this valve is also in conformance with CETOP RP115H type 5.
11) The S71 mounting pattern has #10-32 or M5 mounting threads. If using the optional 1/4-20 or M6 bolts use the S03 valve pattern.
12) Manufacturer calls for 1/4-28 valve mounting threads. Daman's S03 & S72 standard products have 1/4-20 threads.

Servo Valve Cross Reference

Daman pattern no.	ISO no.	Port Circle	Continental	HR Textron	Moog	Moog / Atchley	Moog / Pegasus	Parker	Parker / Dyval	Rexroth	Vickers
S75 [1]	--	2.750	--	--	--	3100	--	--	--	--	--
S76	--	--	--	--	62-300	241	--	--	--	--	SM4-30
S77	--	1.750	--	27G [2]	78	240	180L [3][7] 180R [3][7]	BD30	--	--	SM4-40 [4]
S78	--	--	--	--	79-200 79-200HR D792	--	1800	--	--	--	--
S79 [1]	--	--	--	--	D643-optional [5] D644-optional [5]	--	--	--	--	--	--
S81 [1]	--	--	--	--	--	231 242	--	--	--	--	--
S82	--	--	--	--	--	--	--	--	--	4DS*1E02-1X	--
S83	--	0.625	--	--	77-100-optional [6]	206-optional [2][6]	--	--	--	--	SM4-10 SX4-10
S84 [1]	--	0.740	--	--	--	202PN	--	--	--	--	--
S85	--	0.850	SV850M	--	--	--	--	--	DY01 DY1S DY05 DY10 10PS DY12	--	--
S86 [1]	--	1.000	--	--	265 [2] 35	--	--	--	--	--	--
S87	--	1.000	SV1000M	--	--	--	--	--	DY15 DY25	--	--
S88 [1]	--	1.800	SV1800M	--	--	--	--	--	DY45 45PS	--	--
S89 [1]	--	--	--	--	--	--	--	--	PC-2	--	--
S90	--	1.000	--	--	--	--	--	--	DY2S 2-SP	--	--
S91 [1]	--	--	--	--	--	--	--	--	5P 10P	--	--
S92	--	--	--	--	--	--	--	--	DY3H DY6H	--	--

NOTES:
1) These patterns are identified for reference purposes. Standard subplates are not available. See pages 2-3 for information requesting a custom subplate.
2) This valve does not have a locating pin, therefore the pattern does not require a locating pin hole.
3) The A & B (C1 & C2) ports are reversed on these valves compared to the ISO standard or the majority of other manufacturers valves.
4) These valves have an optional pilot port conforming to ISO standards or the majority of other manufacturers valves.
5) The S79 mounting pattern has 7/16-14 mounting threads. If using the optional M12 or 1/2-13 bolts use the D08 valve pattern.
6) The S83 mounting pattern has 1/4-20 or M6 mounting threads. If using the optional #10-32 or M5 bolts use the S02 valve pattern.
7) Manufacturer calls for 5/16-24 valve mounting threads. Daman's S77 standard products have 5/16-18 threads.

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Servo Valve Cross Reference

Daman pattern no.	ISO no.	Port Circle	Continental	Moog	Moog / Atchley	Moog / Pegasus	Parker	Parker/ Dyval	Rexroth	Vickers
S93 [1]	--	0.850	--	--	--	--	--	10-1100	--	--
S94 [1]	--	--	--	744	290	--	--	--	--	--
S95 [1]	--	2.000	--	--	--	--	--	DY90	--	--
D03	4401-03-03	--	--	D633 [5] D635 [5] D636 [5]	--	40	--	--	[2] 4WS*2EM6-1X	--
D05HE	4401-05-05	--	--	D634 [6] D661 [7] D681 [7] D691 [7]	--	--	--	--	--	--
D05-S1	4401-05-05	--	--	631 [4] 631-500 [4] 641 [4] 641-100 [4] 651 [4]	--	--	--	--	--	--
D05-S2	4401-05-05	--	--	G631 [4]	--	--	--	--	--	--
D05-S3	4401-05-05	--	--	--	--	--	SE31 [4]	--	--	--
D05-S4	4401-05-05	--	--	--	--	--	--	--	[4] 3DS*2E*10-2X [4] 4WS*2E*10-4X	--
D07	4401-07-06	--	--	D642 [8] [15] D652 [8] D662 [8] D682 [8]	--	--	--	--	[3] 4WS*2E*16-2X [3] 4WSE3EE16-1X	--
D08	4401-08-07	--	--	D643 [9] D644 [9] D653 [10] D654 [10] D663 [11] D664 [12] D683 [11] D684 [12]	--	--	--	--	[3] 4WSE3EE25-2X	--
D10	4401-10-08	--	--	D645 [13] D665 [14] D685 [14]	--	--	--	--	[3] 4WSE3EE32-4X	--

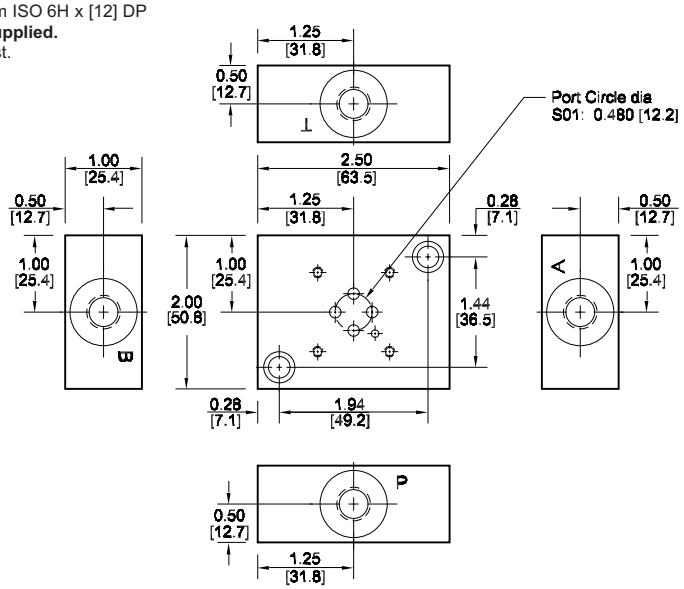
NOTES:
1) These patterns are identified for reference purposes. Standard subplates are not available. See pages 2-3 for information requesting a custom subplate.
2) This valve does not have a locating pin, therefore the pattern does not require a locating pin hole.
3) These valves have an optional pilot port conforming to ISO standards or the majority of other manufacturers valves.
4) These valves have an optional pilot port which does not conform to ISO standards.
5) Pattern conforms to ISO 4401-03-03-0-94 without X port; Y port is optional. Ports are 7.5mm dia for full flow. Mounting threads are M5.
6) Pattern conforms to ISO 4401-05-05-0-94 without X port; Y port is optional. Mounting threads are M6.
7) Pattern conforms to ISO 4401-05-05-0-94 without X port; Y port is optional. Ports are 11.5mm dia for full flow. Mounting threads are M6.
8) Pattern conforms to ISO 4401-07-06-0-94 except ports are 20mm dia for full flow. Mounting threads are M10 and M6.
9) Pattern conforms to ISO 4401-08-07-0-94. Mounting threads are M12. If using the optional 7/16-14 bolts use the S79 valve pattern.
10) Pattern conforms to ISO 4401-08-07-0-94. Mounting threads are M12.
11) Pattern conforms to ISO 4401-08-07-0-94 except ports are 28mm dia for full flow. Mounting threads are M12.
12) Pattern conforms to ISO 4401-08-07-0-94 except ports are 32mm dia for full flow. Mounting threads are M12.
13) Pattern conforms to ISO 4401-10-08-0-94. Mounting threads are M20.
14) Pattern conforms to ISO 4401-10-08-0-94 except ports are 50mm dia for full flow. Mounting threads are M20.

Daman S01 Servo Subplate

0.480 Port Circle

Side Ported Subplate

Valve mtg: UNC #6-32 x 0.50 DP or
Metric M4-0.7mm ISO 6H x [12] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

Servo Pattern

S01	ISO 10372-01-01 Daman std. S01 See page 125 and Tech Info

Port Location

S	Side ported

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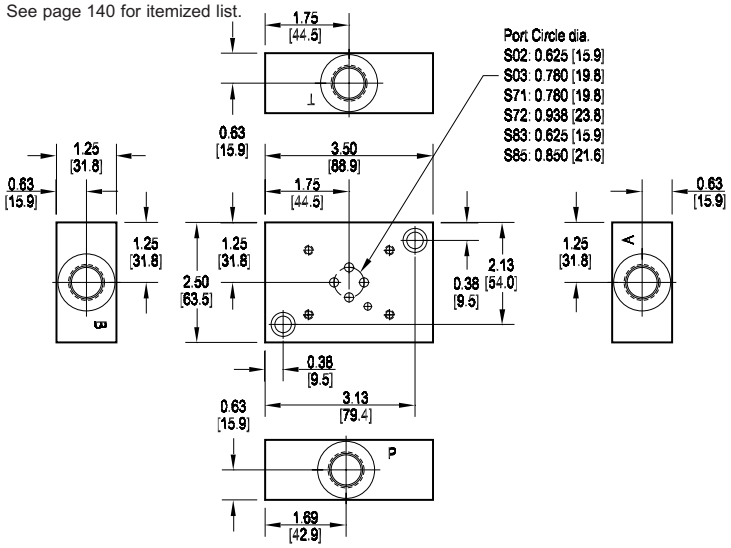
Daman S02, S03, S71, S72, S83, S85 Servo Subplate; S02, S71 Pilot Port Tapping Plate

0.625, 0.780, 0.850, 0.938 Port Circle

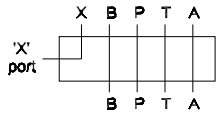
Side Ported Subplate

Valve mtg S02, S71: UNF #10-32 x 0.63 DP or Metric M5-0.8mm ISO 6H x [16] DP
Valve mtg S03: UNF 0.25-28 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19] DP
Valve mtg S72, S83, S85: UNC 0.25-20 x 0.75 DP or Metric M6-1.0mm ISO 6H x [19] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.

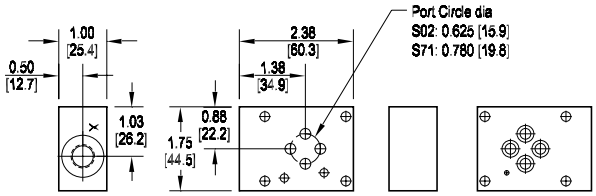


Pilot Port Tapping Plate (S02, S71 Patterns only)

Subplate interface seal kit is supplied.
See page 140 for itemized list.



Use this tapping plate when an external pilot port is required. This tapping plate stacks between the valve and subplate. Valve mounting bolts of sufficient length to pass through the valve and this tapping plate are supplied by the user.



Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location / Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Servo Pattern
See page 125 and Tech Info

S02	ISO 10372-02-02 Daman std. S02
S03	ISO 10372-03-03 Daman std. S03
S71	Daman std. S71
S72	Daman std. S72
S83	Daman std. S83
S85	Daman std. S85

Product Type

SP	Subplate
TP	Tapping Plate S02 or S71 only

Port Loc. / Circuit

S	Side ported (Subplate only)
X	X Port (Tapping Plate only)

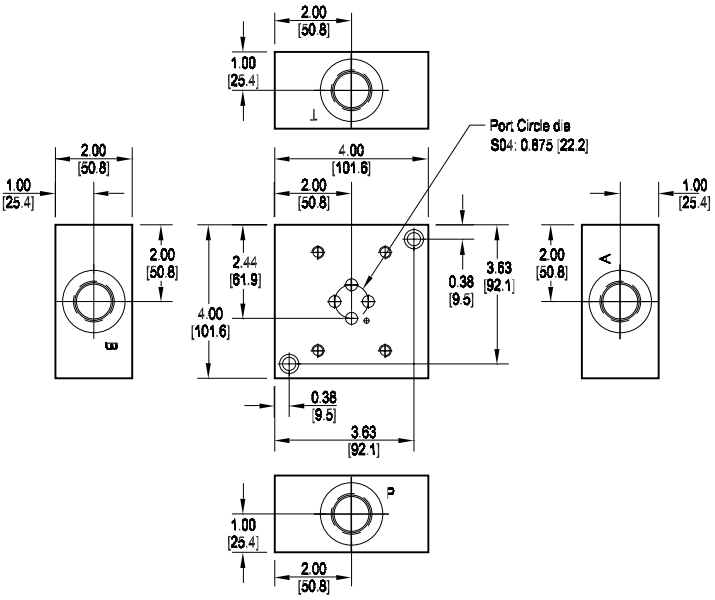
Port Threads

Subplate Port Sizes Only	
8S	-8 SAE ISO 11926; SAE 1926
8M	M18 x 1.5 ISO 6149
Tapping Plate Port Sizes Only	
4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

Daman S04 Servo Subplate, Pilot Port Tapping Plate 0.875 Port Circle

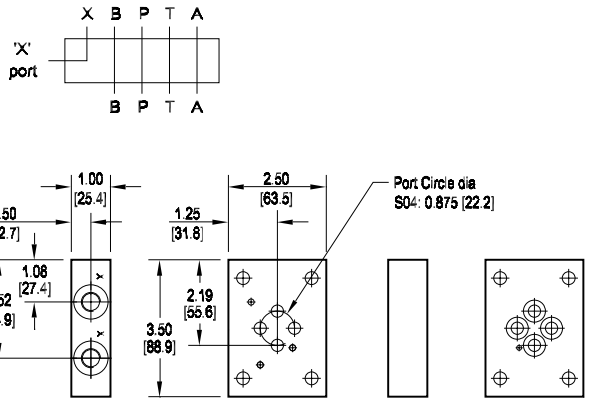
Side Ported Subplate

Valve mtg: UNC 0.31-18 UNC x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



Pilot Port Tapping Plate

Subplate interface seal kit is supplied.*
See page 140 for itemized list.
* Plug not included on metric ported parts.



Use this tapping plate when an external pilot port is required. Two ports are provided to facilitate the various valves available. This tapping plate stacks between the valve and subplate. Valve mounting bolts of sufficient length to pass through the valve and this tapping plate are supplied by the user.

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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location / Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Servo Pattern

See page 125 and Tech Info

S04	ISO 10372-04-04 Daman std. S04

Product Type

SP	Subplate
TP	Tapping Plate

Port Loc. / Circuit

S	Side ported (Subplate only)
X	X Port (Tapping Plate only)

Port Threads

Subplate Port Sizes Only	
12S	-12 SAE ISO 11926; SAE 1926
12M	M27 x 2.0 ISO 6149
Tapping Plate Port Sizes Only	
4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

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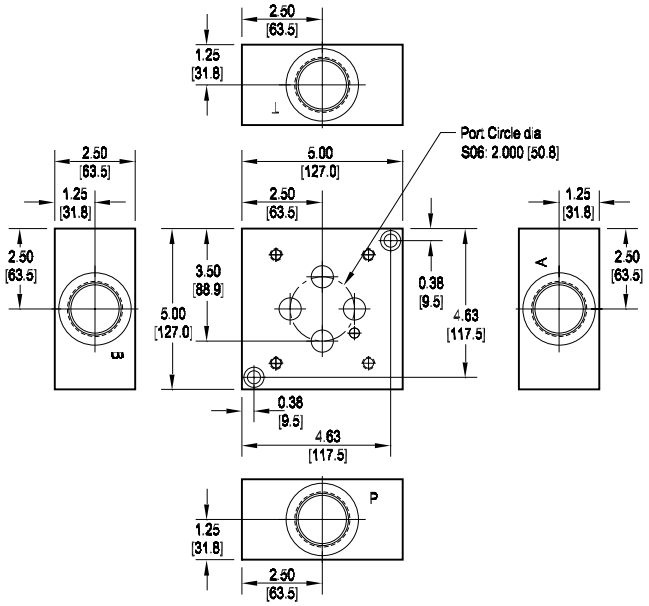
Daman S06 Servo Subplate, Pilot Port Tapping Plate 2.000 Port Circle

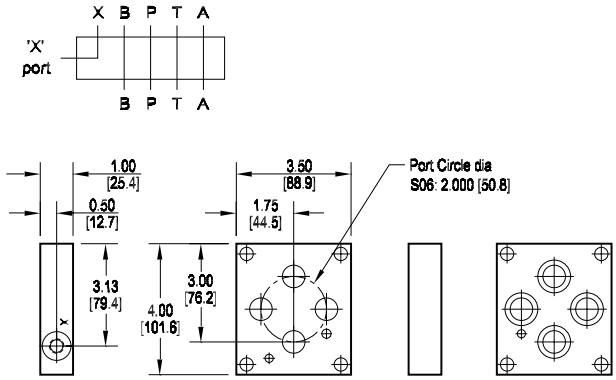
Side Ported Subplate

Valve mtg: UNC 0.38-16 UNC x 1.00 DP or
Metric M10-1.5mm ISO 6H x [25.4] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



Pilot Port Tapping Plate

Subplate interface seal kit is supplied.*
See page 140 for itemized list.
* Plug not included on metric ported parts.



Use this tapping plate when an external pilot port is required. This tapping plate stacks between the valve and subplate. Valve mounting bolts of sufficient length to pass through the valve and this tapping plate are supplied by the user.

Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location / Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Servo Pattern

See page 125 and Tech Info

S06	ISO 10372-06-05 Daman std. S06

Product Type

SP	Subplate
TP	Tapping Plate

Port Loc. / Circuit

S	Side ported (Subplate only)
X	X Port (Tapping Plate only)

Port Threads

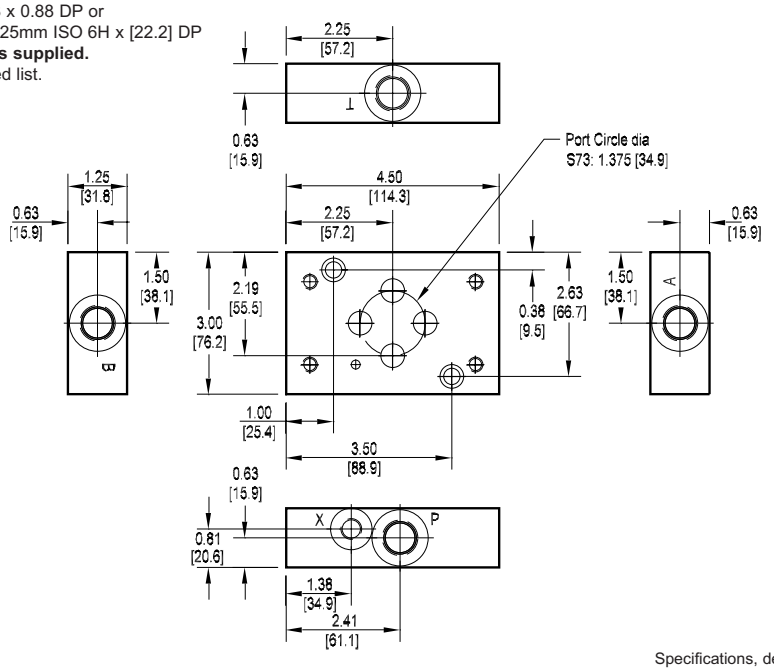
Subplate Port Sizes Only	
20S	-20 SAE ISO 11926; SAE 1926
20M	M42 x 2.0 ISO 6149
Tapping Plate Port Sizes Only	
4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

Daman S73 Servo Subplate

1.375 Port Circle

Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

8S	-8 SAE ISO 11926; SAE 1926 (X port is -4 SAE)
8M	M18 x 1.5 ISO 6149 (X port is M10 x 1.0)

Servo Pattern

S73	Daman S73 See page 125 and Tech Info

Port Location

S	Side ported

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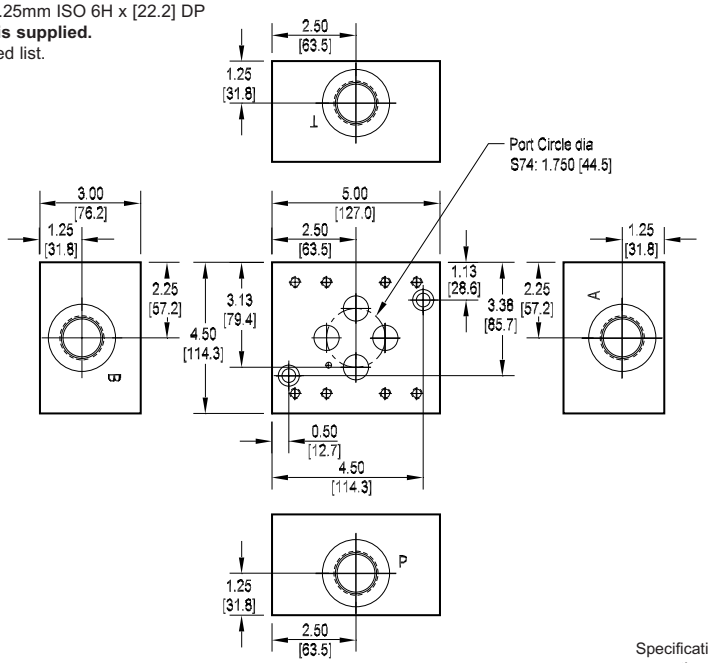
Daman S74 Servo Subplate

1.750 Port Circle

Side Ported Subplate

Valve mtg: UNF 0.31-24 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

16S	-16 SAE ISO 11926; SAE 1926
16M	M33 x 2.0 ISO 6149

Servo Pattern

S74	Daman S74 See page 125 and Tech Info

Port Location

S	Side ported

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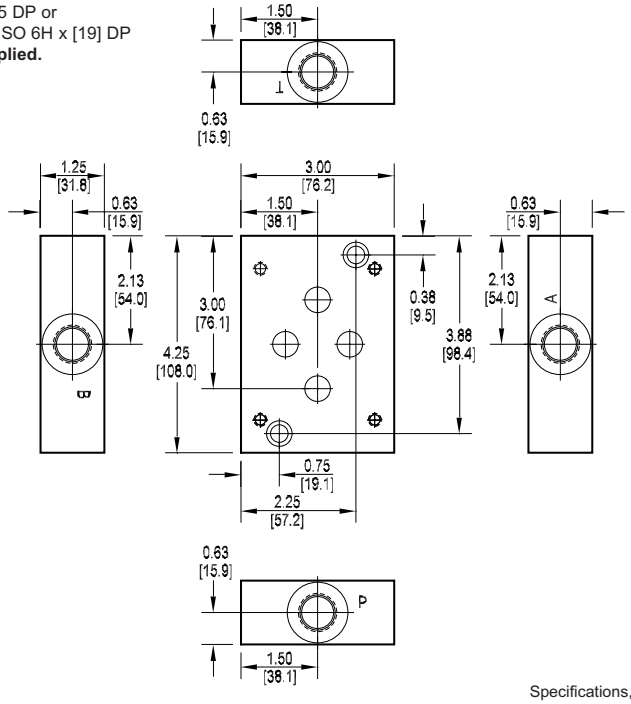
Daman S76 Servo Subplate

Side Ported Subplate

Valve mtg: UNC 0.25-20 x 0.75 DP or
Metric M6-1.0mm ISO 6H x [19] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

8S	-8 SAE ISO 11926; SAE 1926
8M	M18 x 1.5 ISO 6149

Servo Pattern

S76	Daman std. S76 See page 126 and Tech Info

Port Location

S	Side ported

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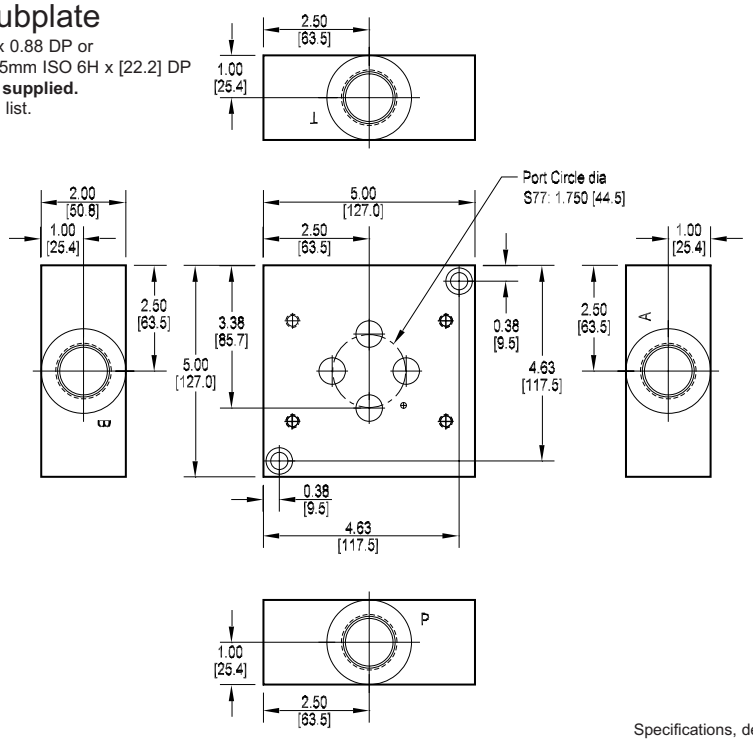
Daman S77 Servo Subplate

1.750 Port Circle

Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22.2] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

16S	-16 SAE ISO 11926; SAE 1926
16M	M33 x 2.0 ISO 6149

Servo Pattern

S77	Daman S77 See page 126 and Tech Info

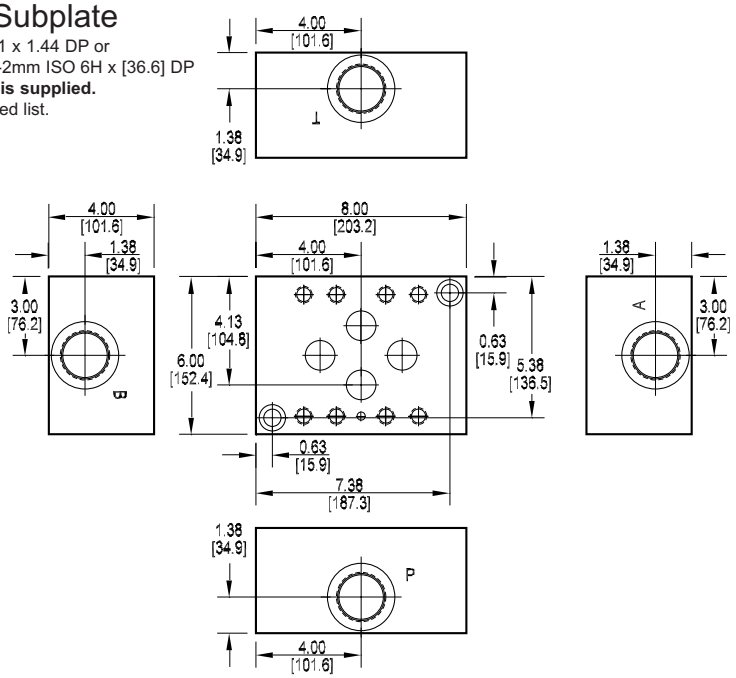
Port Location

S	Side ported

Daman S78 Servo Subplate

Side Ported Subplate

Valve mtg: UNC 0.63-11 x 1.44 DP or
Metric M16-2mm ISO 6H x [36.6] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

24S	-24 SAE ISO 11926; SAE 1926
24M	M48 x 2.0 ISO 6149

Servo Pattern

S78	Daman S78 See page 126 and Tech Info

Port Location

S	Side ported

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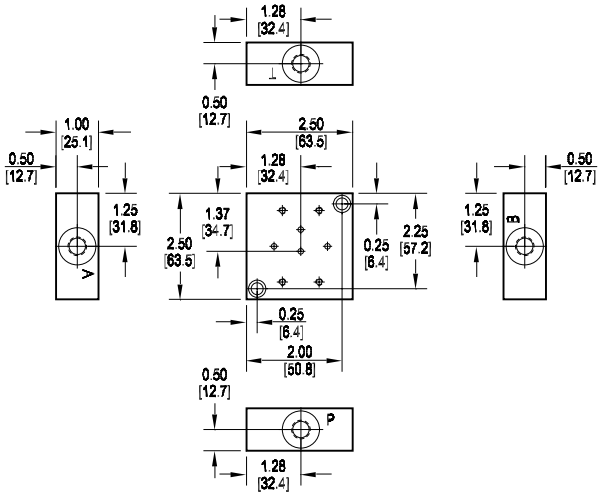
Daman S82, S87 Servo Subplates

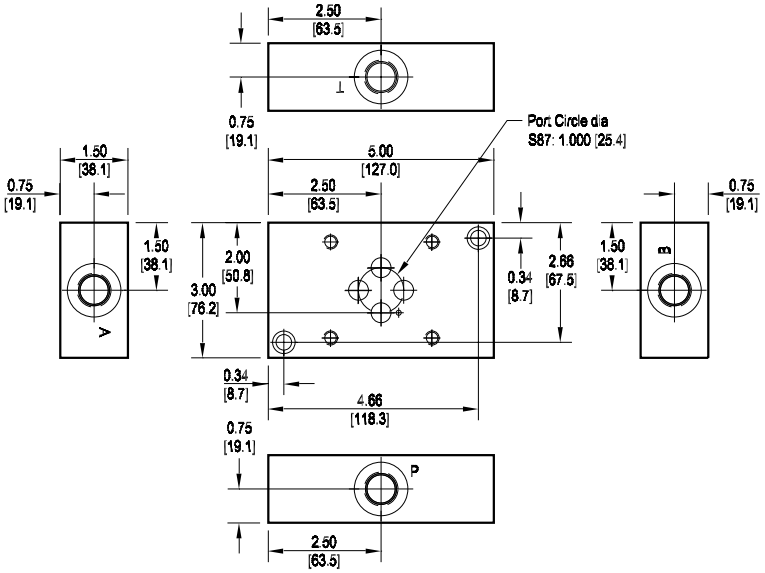
S82 Side Ported Subplate

Valve mtg: Metric M4-0.7mm ISO 6H x 0.50 [12.7] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



S87 Side Ported Subplate

Valve mtg: UNC 0.31-18 x 0.88 DP or
Metric M8-1.25mm ISO 6H x [22] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Servo Pattern

S82	Daman S82 See page 126 and Tech Info
S87	Daman S87 See page 126 and Tech Info

Product Type

SP	Subplate

Port Location

S	Side ported

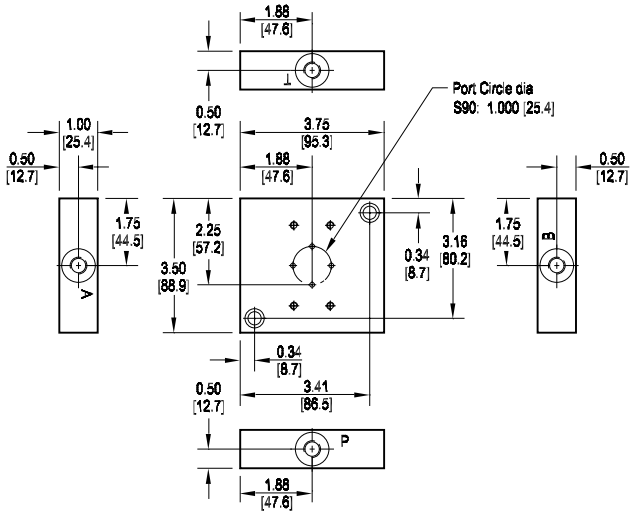
Port Threads

S82 Subplate only	
4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149
S87 Subplate only	
8S	-8 SAE ISO 11926; SAE 1926
8M	M18 x 1.5 ISO 6149

Daman S90, S92 Servo Subplate

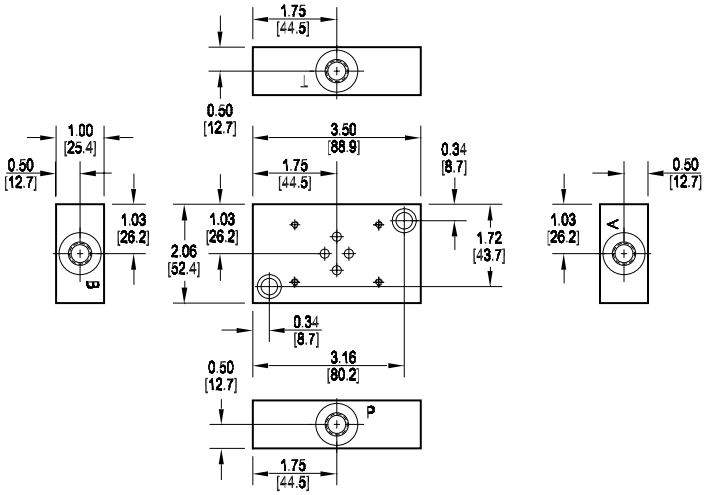
S90 Side Ported Subplate

Valve mtg: UNC #10-24 x 0.63 DP or
Metric M5-0.8mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



S92 Side Ported Subplate

Valve mtg: UNC #8-32 x 0.63 DP or
Metric M4-0.7mm ISO 6H x [16] DP
Subplate hardware kit is supplied.
See page 140 for itemized list.



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Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

SP	Subplate

Port Threads

4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

Servo Pattern

S90	Daman S90 See page 126 and Tech Info
S92	Daman S92 See page 126 and Tech Info

Port Location

S	Side ported

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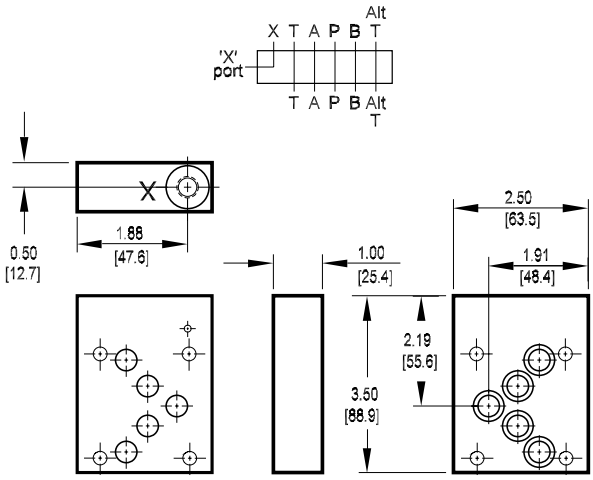
D05 Servo Valve Tapping Plates

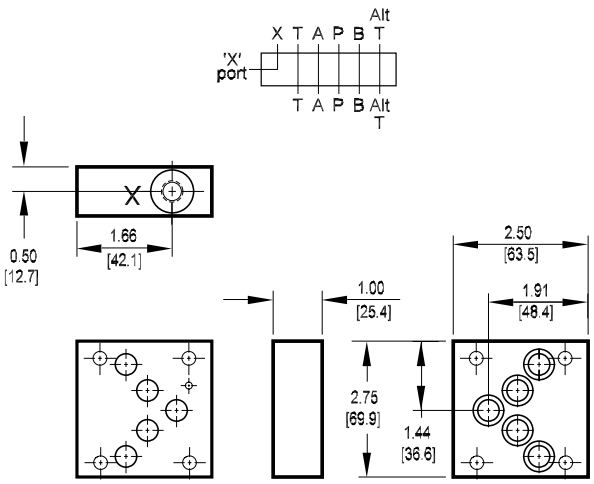
D05-S1, D05-S2, D05-S3 Pilot Port Tapping Plate

Subplate interface seal kit is supplied.
See page 140 for itemized list.



D05-S4 Pilot Port Tapping Plate

Subplate interface seal kit is supplied.
See page 140 for itemized list.



Note: These tapping plates are designed to be used with standard D05 manifolds or subplates. They provide an external pilot port for the servo valves referenced. If the servo valve uses an internal pilot, these tapping plates are not needed. The servo valve may be mounted directly to our D05 manifold or subplate.

Ordering Information

Material	Servo Valve Pattern	Product Type	Port Location	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Product Type

TP	Tapping Plate

Circuit

XA	X port - For D05-S1, D05-S2, or D05-S3 Patterns
XB	X port - For D05-S4 Pattern

Port Threads

4S	-4 SAE ISO 11926; SAE 1926
4M	M10 x 1.0 ISO 6149

Servo Valve Product Mounting Hardware

Part no.	Cat. pg.	Mounting Screws	Viton O-rings	Locating Pins	Plugs
* S01 SP S 4S * S01 SP S 4M	128	(2) UNC 0.25-20 x 0.88 long SHCS (2) ISO 6H M6-1.0 x 22mm SHCS	n/a	n/a	n/a
* S02 SP S 8S * S03 SP S 8S * S71 SP S 8S * S72 SP S 8S * S83 SP S 8S * S85 SP S 8S	129	(2) UNC 0.31-18 x 1.25 long SHCS	n/a	n/a	n/a
* S02 SP S 8M * S03 SP S 8M * S71 SP S 8M * S72 SP S 8M * S83 SP S 8M * S85 SP S 8M	129	(2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S02 TP X 4* * S71 TP X 4*	129	n/a	(4) -010 (4) -011	(1) 0.09 dia x 0.25 long	n/a
* S04 SP S 12S * S04 SP S 12M	130	(2) UNC 0.31-18 x 2.00 long SHCS (2) ISO 6H M8-1.25 x 50mm SHCS	n/a	n/a	n/a
* S04 TP X 4S	130	n/a	(4) -013	(1) 0.12 dia x 0.25 long	(1) -4 SAE hex socket plug
* S04 TP X 4M	130	n/a	(4) -013	(1) 0.12 dia x 0.25 long	n/a
* S06 SP S 20S * S06 SP S 20M	131	(2) UNC 0.38-16 x 2.50 long SHCS (2) ISO 6H M10-1.5 x 65mm SHCS	n/a	n/a	n/a
* S06 TP X 4*	131	n/a	(4) -020	(1) 0.25 dia x 0.38 long	n/a
* S73 SP S 8S * S73 SP S 8M	132	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S74 SP S 16S * S74 SP S 16M	133	(2) UNC 0.38-16 x 3.00 long SHCS (2) ISO 6H M10-1.5 x 75mm SHCS	n/a	n/a	n/a
* S76 SP S 8S * S76 SP S 8M	134	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S77 SP S 16S * S77 SP S 16M	135	(2) UNC 0.38-16 x 2.00 long SHCS (2) ISO 6H M10-1.5 x 50mm SHCS	n/a	n/a	n/a
* S78 SP S 24S * S78 SP S 24M	136	(2) UNC 0.62-11 x 4.00 long SHCS (2) ISO 6H M16-2.0 x 100mm SHCS	n/a	n/a	n/a
* S82 SP S 4S * S82 SP S 4M	137	(2) UNC 0.25-20 x 1.00 long SHCS (2) ISO 6H M6-1.0 x 25mm SHCS	n/a	n/a	n/a
* S87 SP S 8S * S87 SP S 8M	137	(2) UNC 0.31-18 x 1.50 long SHCS (2) ISO 6H M8-1.25 x 40mm SHCS	n/a	n/a	n/a
* S90 SP S 4S * S90 SP S 4M	138	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* S92 SP S 4S * S92 SP S 4M	138	(2) UNC 0.31-18 x 1.25 long SHCS (2) ISO 6H M8-1.25 x 35mm SHCS	n/a	n/a	n/a
* D05 TP XA 4* * D05 TP XB 4*	139	n/a	(5) -014	n/a	n/a

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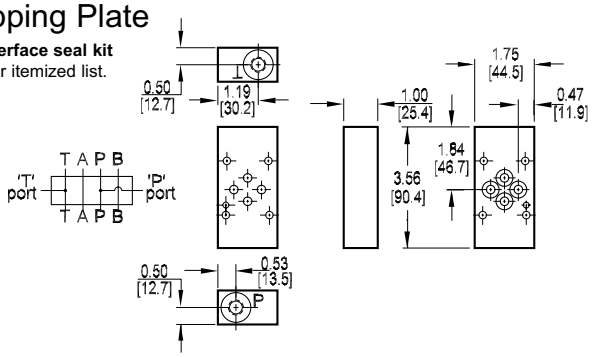
TAPPING PLATES

D03 Tapping Plates

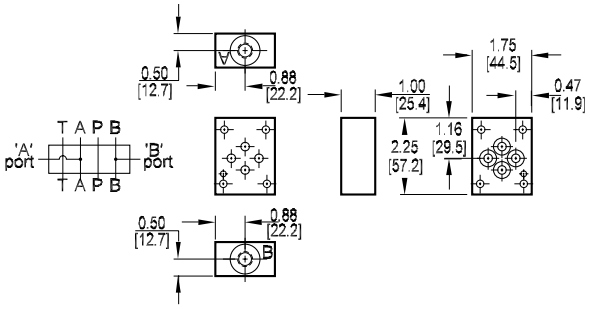
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



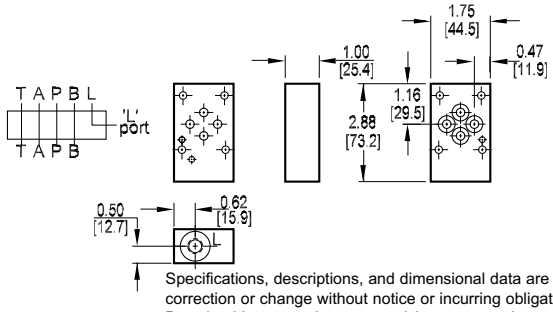
A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



L Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Infomation

Circuit

PT	P and T ports provided
AB	A and B ports provided
L	L port provided

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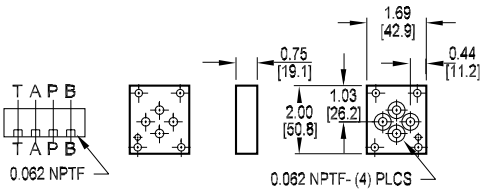
D03 Tapping Plates

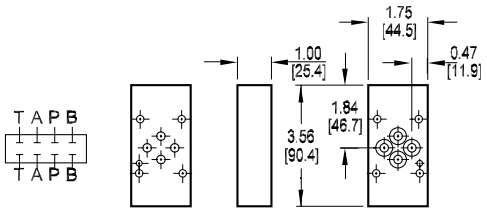
Orifice Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



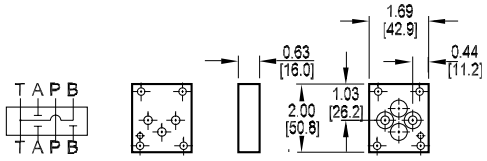
Spot Drilled Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



B to T vent Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Infomation

Circuit

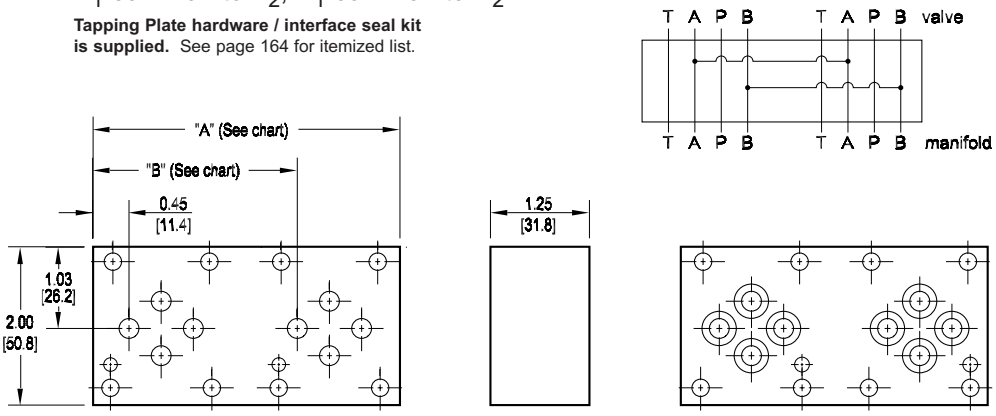
SD	Spot drilled ports
OP	Orifice plate
BTV	B to T vent plate

D03 Tapping Plates

D03 Two Station Tapping Plate

A_1 common to A_2, B_1 common to B_2

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Dimension	A	B
*D03TP022AB	3.88 [98.6]	2.58 [65.5]
*D03TP024AB	5.75 [146.1]	4.45 [113.1]
L*D03TP022AB	3.75 [95.3]	2.45 [62.3]

There are two different tapping plate models with spacing code 2 available. This is necessary to cover the variation of valve spacing between the standard design and the LC (low cost) design of D03 manifolds. The standard manifold design has 2.125" valve spacing while the LC design has 2.000" valve spacing. An L is added to the front of the model number to denote the tapping plate designed to be used with the LC manifold. Note that a single model is required with spacing code 4 as both the standard and LC designs have 4.000 spacing.

Ordering Information

Product Line	Material	Valve Pattern	Product Type	No. of Stations	Valve Spacing	Circuit

Product Line

Omit	For use with standard design D03 manifold.
L	For use with "Low Cost" D03 manifold. Spacing code 2 only.

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Infomation

Product Type

TP	Tapping Plate

No. of Stations

02	02 Stations

Valve Spacing

2	L*D03TP022AB = 2.00 inch (50.8 mm) *D03TP022AB = 2.13 inch (54.0 mm)
4	4.00 inch (101.6 mm) Not available with L.

Circuit

AB	A1 common to A2 B1 common to B2

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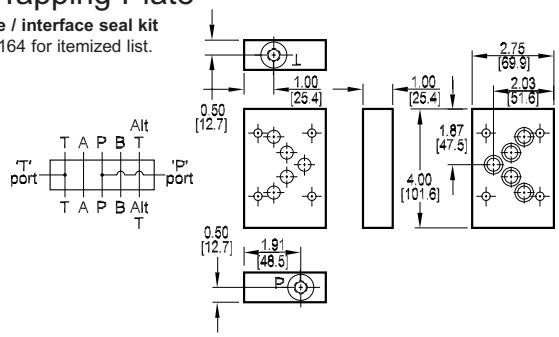
D05 Tapping Plates

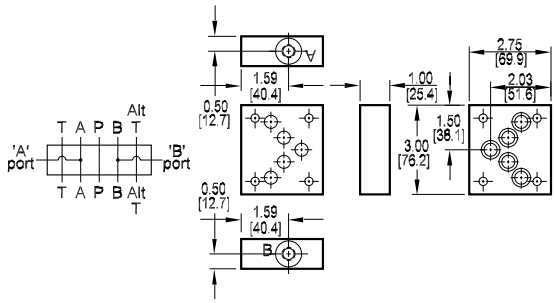
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



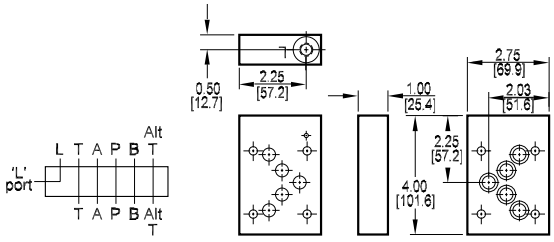
A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



L Port Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

PT	P and T ports provided
AB	A and B ports provided
L	L port provided

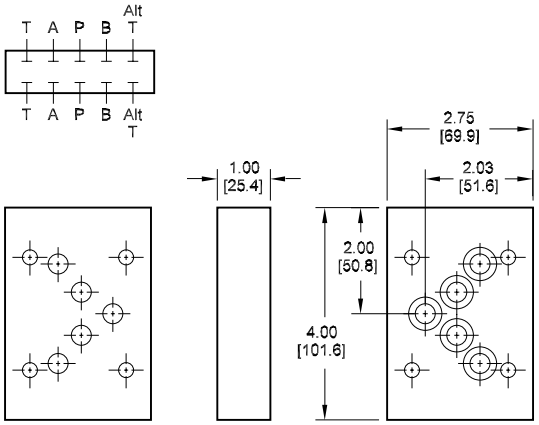
Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

D05 Tapping Plates

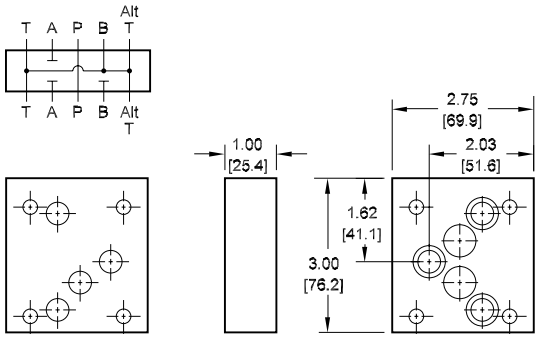
Spot Drilled Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



B to T vent Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

Circuit

SD	Spot drilled ports
BTV	B to T vent plate

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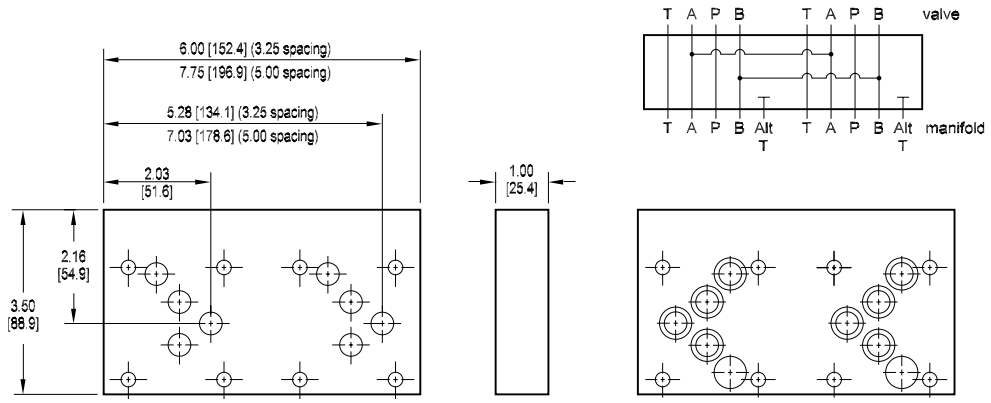
D05 Tapping Plates

D05 Two Station Tapping Plate

A_1 common to A_2, B_1 common to B_2

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	No. of Stations	Valve Spacing	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

Product Type

TP	Tapping Plate

No. of Stations

02	02 Stations

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

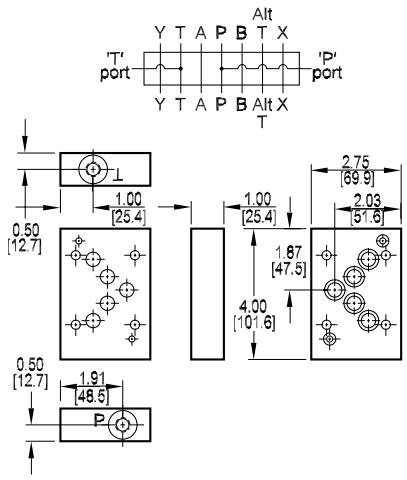
Circuit

AB	A1 common to A2 B1 common to B2

D05 Tapping Plates with USA Pilot Ports

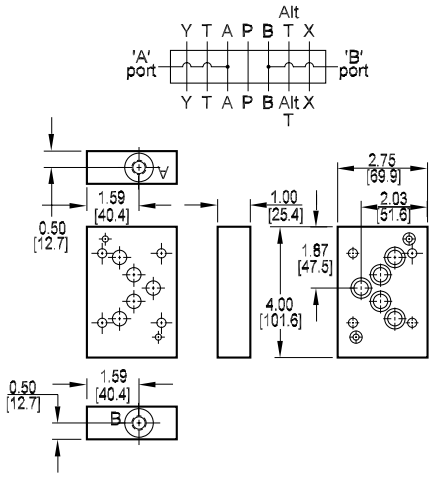
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Valve Pattern

D05H	(USA std) NFPA T3.5.1-D05 Alt B See Tech Infomation

Circuit

PT	P and T ports provided
AB	A and B ports provided

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

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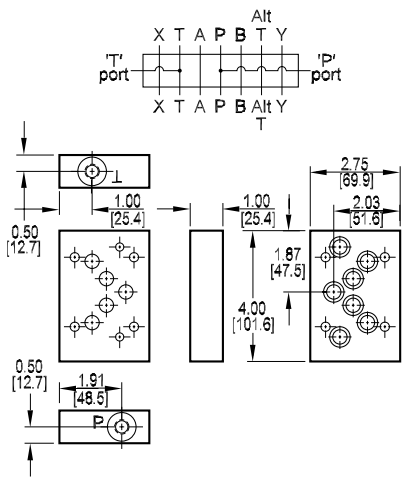
D05 Tapping Plates with ISO Pilot Ports

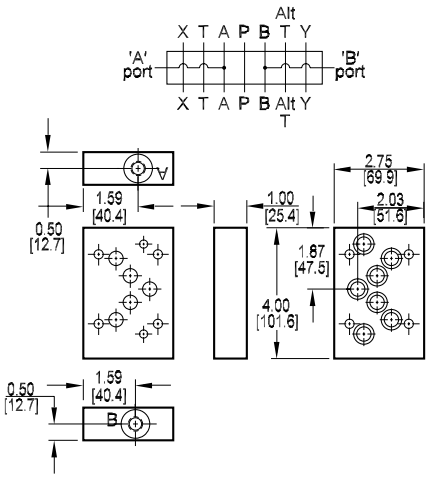
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

Circuit

PT	P and T ports provided
AB	A and B ports provided

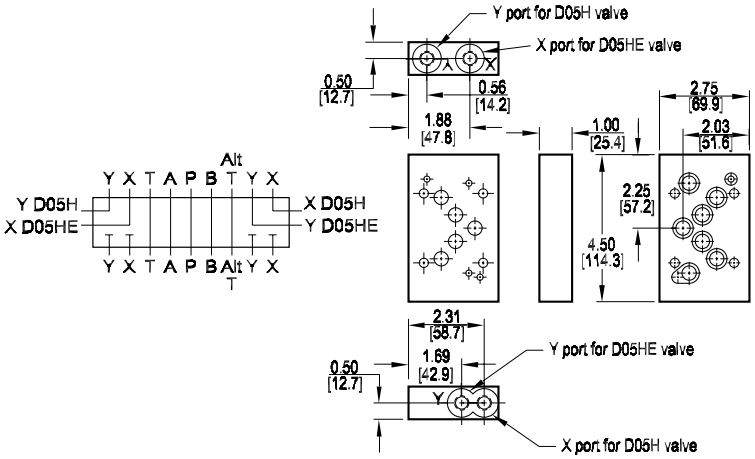
Valve Pattern

D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A See Tech Infomation

D05 Tapping Plates with Pilot Ports

X and Y Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Infomation

Product Type

TP	Tapping Plate

Circuit

XY	X and Y ports provided

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

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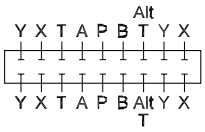
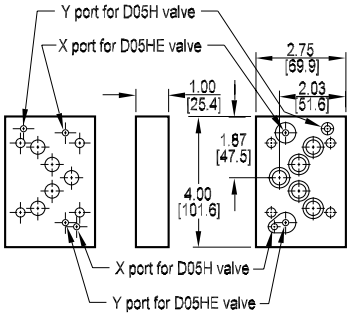
D05 Tapping Plates with Pilot Ports

Spot Drilled Tapping Plate

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.





Ordering Information

Material	Valve Pattern	Product Type	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Circuit

SD	Spot drilled ports

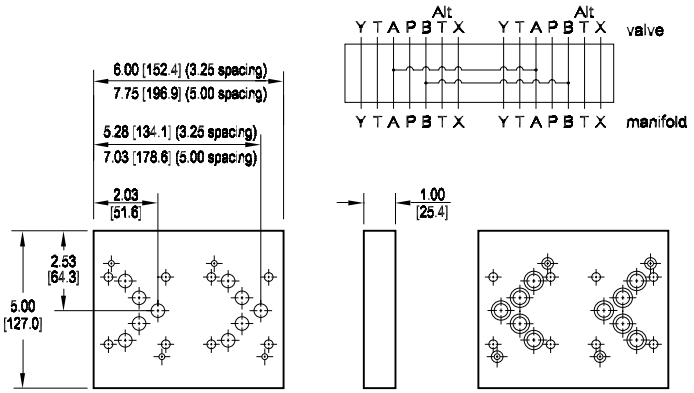
Valve Pattern

D05H	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A & B See Technical Infomation

D05 Tapping Plates with Pilot Ports

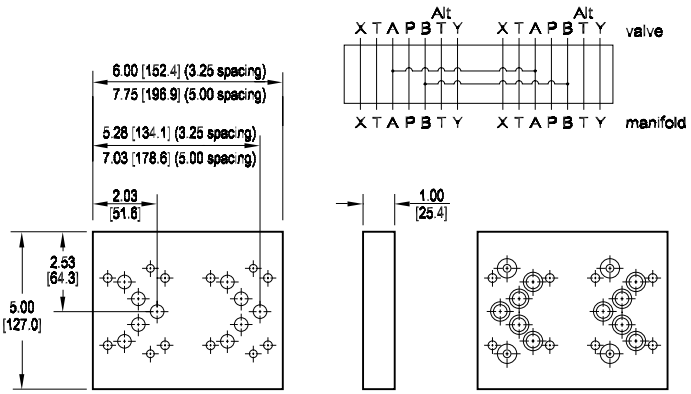
D05(H) Two Station Tapping Plate (USA Pilot Ports) A_1 common to A_2, B_1 common to B_2

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



D05(HE) Two Station Tapping Plate (ISO Pilot Ports) A_1 common to A_2, B_1 common to B_2

Tapping Plate interface seal kit is supplied.
See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	No. of Stations	Valve Spacing	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05H	(USA std) NFPA T3.5.1-D05 Alt B See Tech Information
D05HE	ISO 4401-05-05 NFPA T3.5.1-D05 Alt A See Tech Information

Product Type

TP	Tapping Plate

No. of Stations

02	02 Stations

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Circuit

AB	A1 common to A2 B1 common to B2

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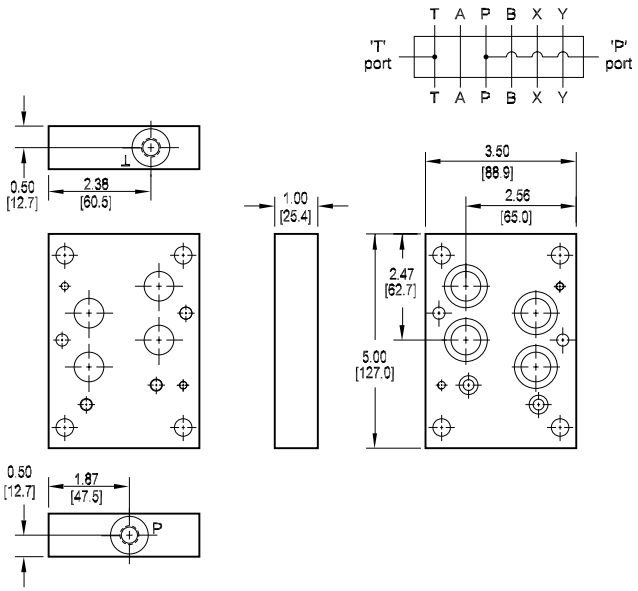
D07 Tapping Plates

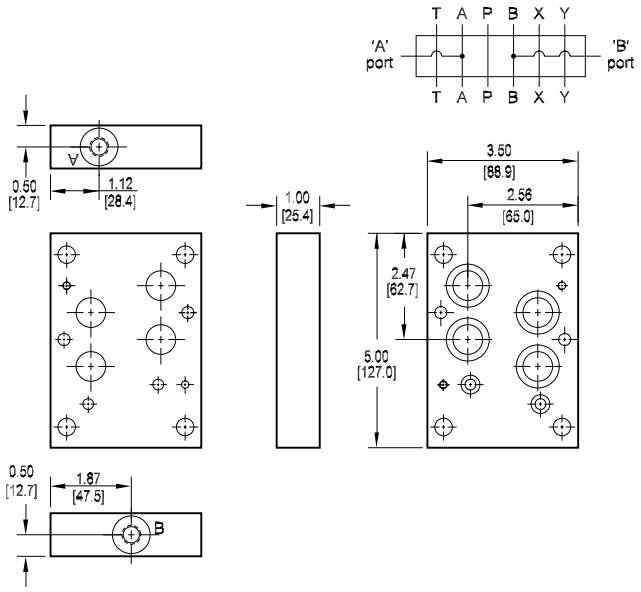
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

PT	P and T ports provided
AB	A and B ports provided

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

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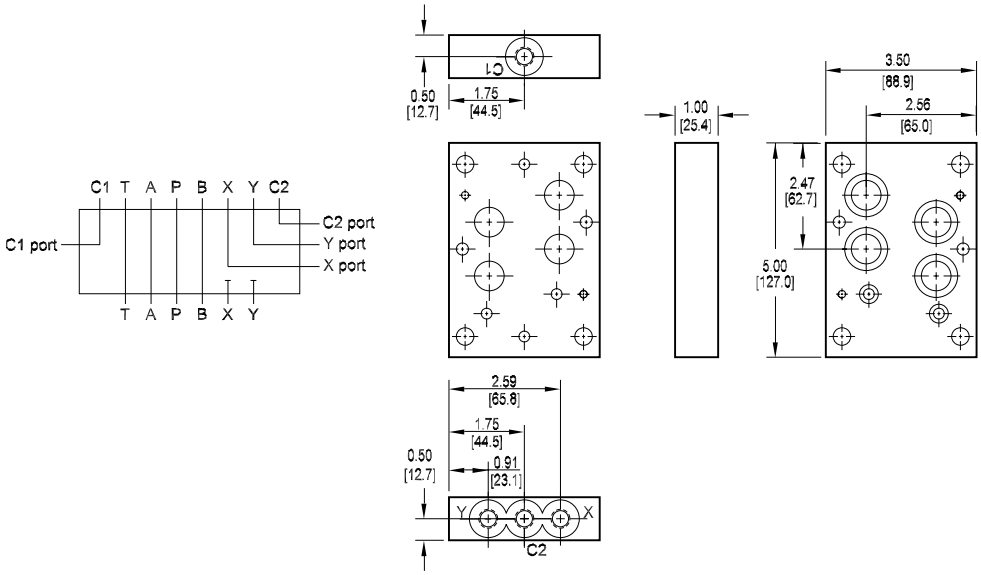
D07 Tapping Plates

X and Y Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

XY	X and Y ports provided

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

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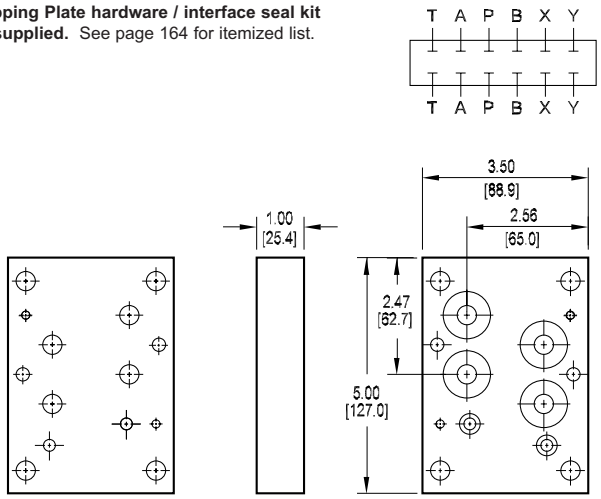
D07 Tapping Plates

Spot Drilled Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

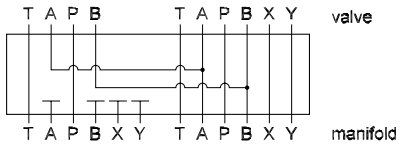
SD	Spot drilled ports

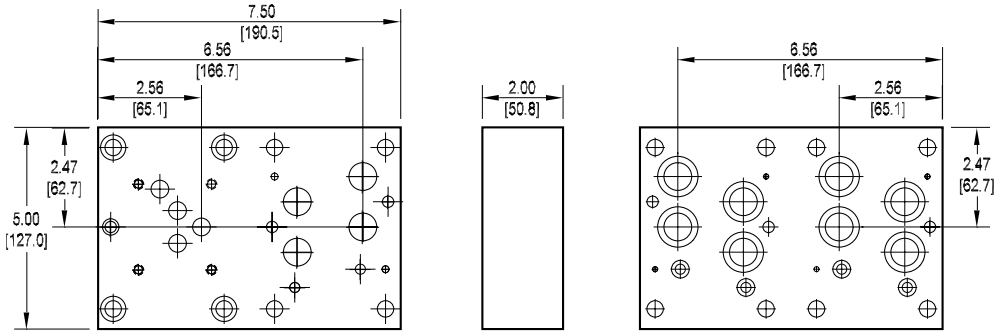
D07 Tapping Plates

D05-D07 Two Station Tapping Plate

A_1 common to A_2, B_1 common to B_2

D05 Valve mtg: UNC 0.25-20 x 0.75 [19] DP
Tapping Plate hardware / interface seal kit is supplied. * See page 164 for itemized list.
* (6) bolts are user supplied and must pass through valve and tapping plate to thread into manifold.





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Ordering Information

Material	Valve Pattern Station 1	Valve Pattern Station 2	Product Type	No. of Stations	Valve Spacing	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Station 1

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

Valve Station 2

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Infomation

Product Type

TP	Tapping Plate

No. of Stations

02	02 Stations

Valve Spacing

4	4.00 inch 101.6 mm

Circuit

AB	A1 common to A2 B1 common to B2

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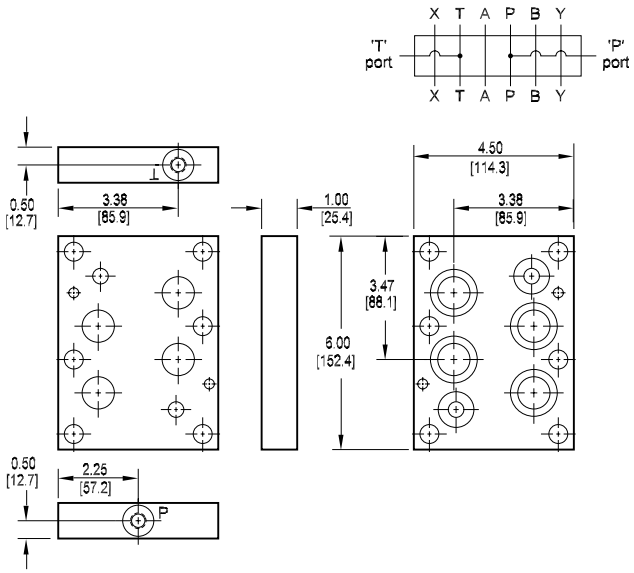
D08 Tapping Plates

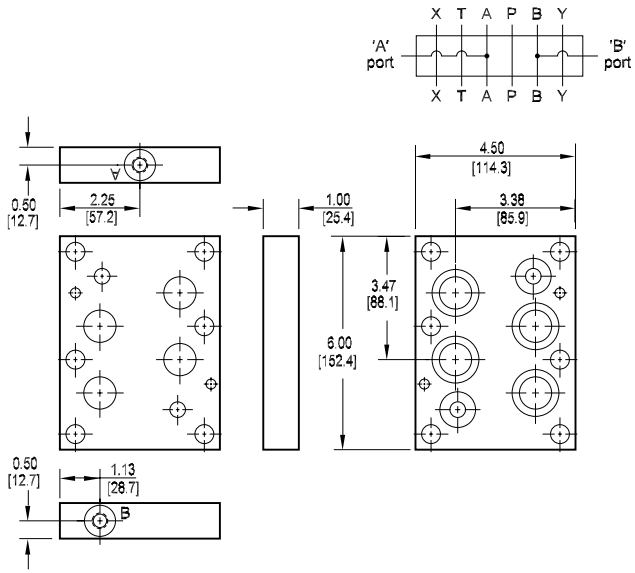
P and T Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



A and B Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

PT	P and T ports provided
AB	A and B ports provided

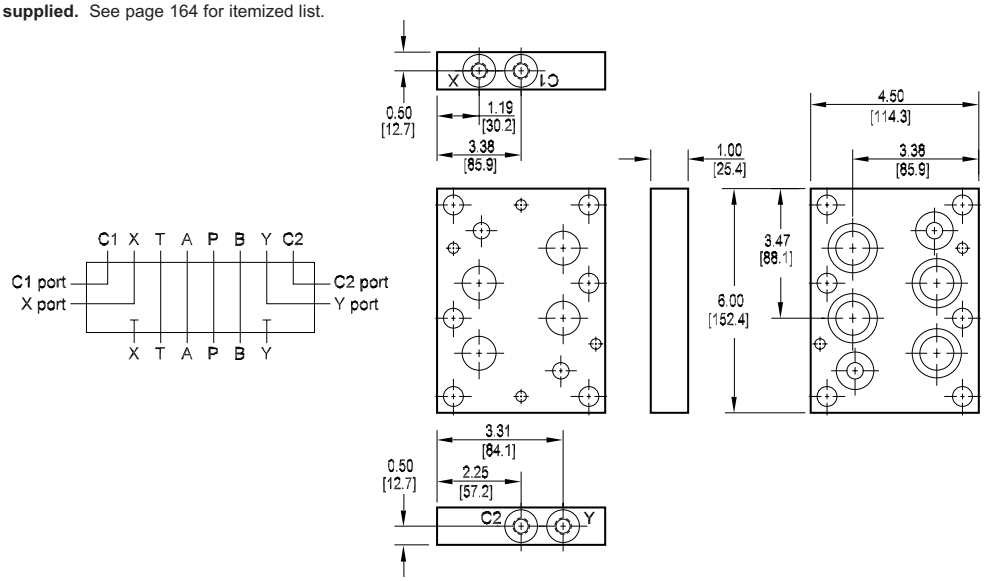
Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

D08 Tapping Plates

X and Y Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

TP	Tapping Plate

Circuit

XY	X and Y ports provided

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Infomation

Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926
4B	0.25-19 BSPP ISO 1179; BS 2779
4M	M10 x 1.0 ISO 6149
4T	0.25-19 BSPT ISO 7; BS 21

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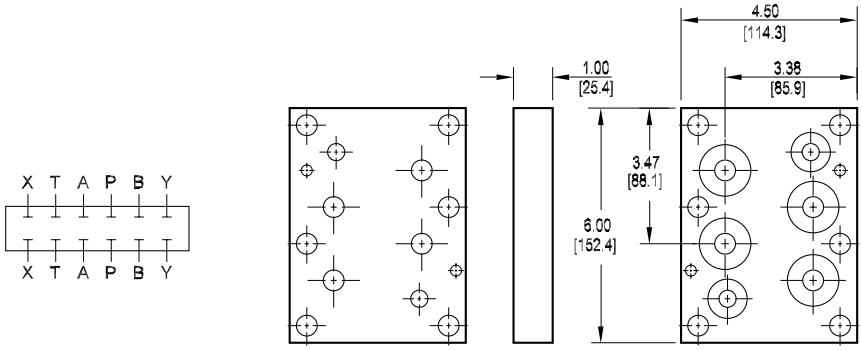
D08 Tapping Plates

Spot Drilled Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

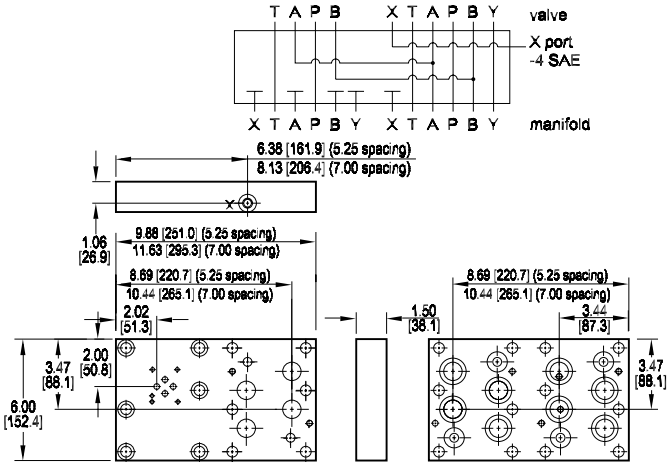
SD	Spot drilled ports

D08 Tapping Plates

D03-D08 Two Station Tapping Plate

A_1 common to A_2, B_1 common to B_2

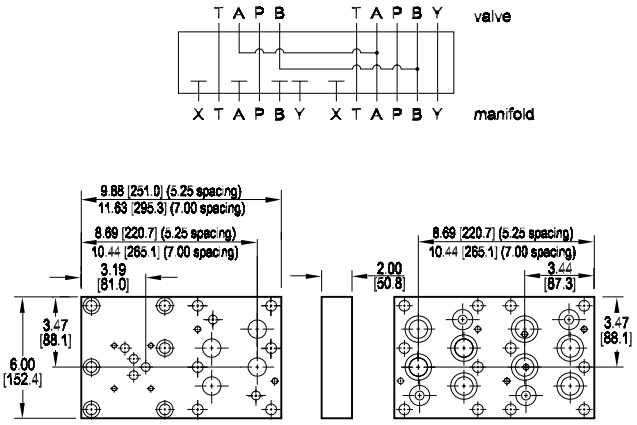
D03 Valve mtg: UNC #10-24 x 0.62 [16] DP
Tapping Plate hardware / interface seal kit is supplied. * See page 164 for itemized list.
* (6) bolts are user supplied and must pass through valve and tapping plate to thread into manifold.



D05-D08 Two Station Tapping Plate

A_1 common to A_2, B_1 common to B_2

D05 Valve mtg: UNC 0.25-20 x 0.75 [19] DP
Tapping Plate hardware / interface seal kit is supplied. * See page 164 for itemized list.
* (6) bolts are user supplied and must pass through valve and tapping plate to thread into manifold.



Ordering Information

Material	Valve Pattern Station 1	Valve Pattern Station 2	Product Type	No. of Stations	Valve Spacing	Circuit

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Station 1

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Infomation
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

Valve Station 2

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Infomation

Product Type

TP	Tapping Plate

No. of Stations

02	02 Stations

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Circuit

AB	A1 common to A2 B1 common to B2

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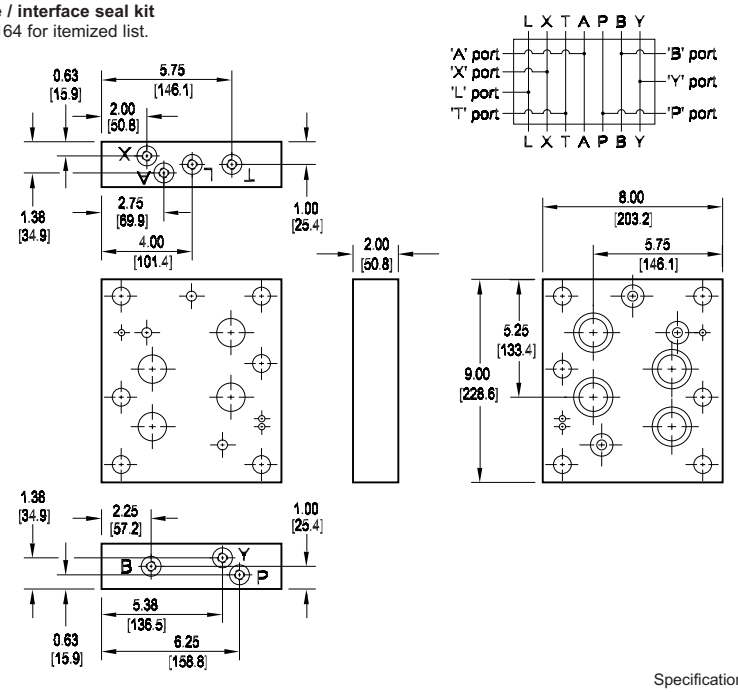
D10 Tapping Plates

P, T, A, B, X, Y, and L Port Tapping Plate

Tapping Plate hardware / interface seal kit is supplied. See page 164 for itemized list.



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Ordering Information

Material	Valve Pattern	Product Type	Circuit	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Infomation

Product Type

TP	Tapping Plate

Circuit

PTAB	P, T, A, B, X, Y, and L ports provided

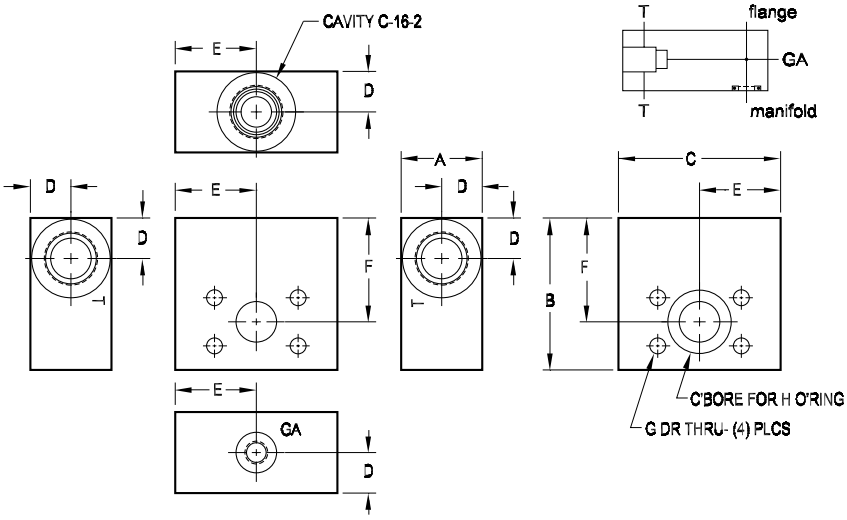
Port Threads

4P	0.25-18 NPTF ANSI B1.20.3
4S	-4 SAE ISO 11926; SAE 1926

Aluminum Flange Mount Bodies

Flange Mount Body with 2-port Cavity

Flange interface seal is supplied. See chart.
Plug for GA Port (-6 SAE) is supplied.
(4) mounting bolts are user supplied and must pass through flange and valve body to thread into customers flange interface.



PART NO.	A	B	C	D
AFMBC162**12F**6116S	2.00 [50.8]	3.50 [88.9]	4.00 [101.6]	1.00 [25.4]
AFMBC162**16F**6116S	2.00 [50.8]	3.75 [95.3]	4.00 [101.6]	1.00 [25.4]
AFMBC162**20F**6116S	2.00 [50.8]	4.25 [108.0]	4.00 [101.6]	1.00 [25.4]
AFMBC162**24F**6116S	2.00 [50.8]	4.63 [117.5]	4.00 [101.6]	1.00 [25.4]

PART NO.	E	F	G	H
AFMBC162**12F**6116S	2.00 [50.8]	2.44 [61.9]	0.41 [10.3]	-214
AFMBC162**16F**6116S	2.00 [50.8]	2.56 [65.1]	0.41 [10.3]	-219
AFMBC162**20F**6116S	2.00 [50.8]	2.75 [69.9]	0.47 [11.9]	-222
AFMBC162**24F**6116S	2.00 [50.8]	2.88 [73.0]	0.53 [13.5]	-225

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Ordering Information

Material	Product Type	Cavity Type	Cavity Size	Flange Size	Flange Rating	Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

FMB	Flange Mount Body

Cavity Type

C	Industry Standard Common Cavity

Cavity Size

162	Cavity C-16-2

Flange Size

12F	ISO 6162 - DN19 Split Flange SAE Size 12 (0.75") Flange
16F	ISO 6162 - DN25 Split Flange SAE Size 16 (1.00") Flange
20F	ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange
24F	ISO 6162 - DN38 Split Flange SAE Size 24 (1.50") Flange

Flange Rating

61	ISO 6162 - 2.5 to 35 MPa • SAE code 61

Port Threads

16S	-16 SAE "T" Ports -6 SAE "GA" Port ISO 11926; SAE 1926

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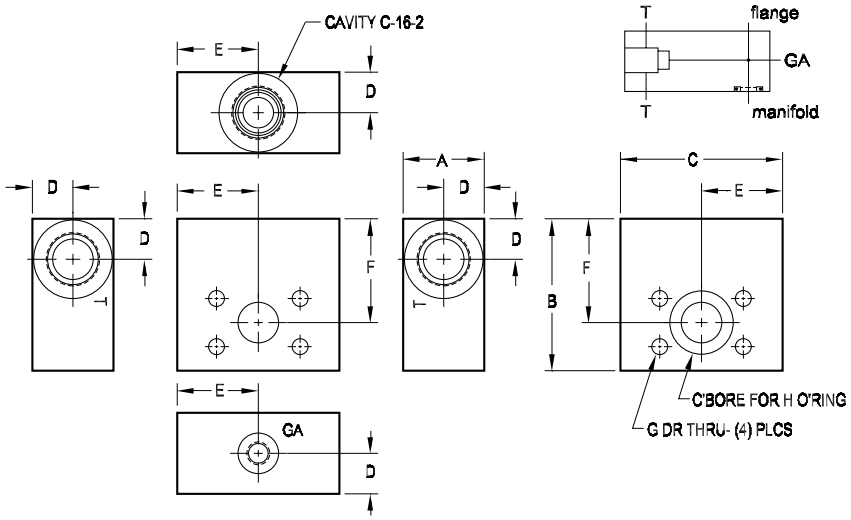
Ductile Iron Flange Mount Bodies

Flange Mount Body with 2-port Cavity

Flange interface seal is supplied. See chart.
Plug for GA Port (-6 SAE) is supplied.
(4) mounting bolts are user supplied and must pass through flange and valve body to thread into customers flange interface.



PART NO.	A	B	C	D
DFMBC162**16F**6216S	2.00 [50.8]	4.13 [104.8]	4.00 [101.6]	1.00 [25.4]
DFMBC162**20F**6216S	2.00 [50.8]	4.38 [111.1]	4.00 [101.6]	1.00 [25.4]
DFMBC162**24F**6216S	2.00 [50.8]	4.88 [123.8]	4.50 [114.3]	1.00 [25.4]

PART NO.	E	F	G	H
DFMBC162**16F**6216S	2.00 [50.8]	2.69 [68.3]	0.47 [11.9]	-219
DFMBC162**20F**6216S	2.00 [50.8]	2.81 [71.4]	0.53 [13.5]	-222
DFMBC162**24F**6216S	2.25 [57.2]	2.97 [75.4]	0.66 [16.7]	-225

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Ordering Information

Material	Product Type	Cavity Type	Cavity Size	Flange Size	Flange Rating	Port Threads

Material

D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

FMB	Flange Mount Body

Cavity Type

C	Industry Standard Common Cavity

Cavity Size

162	Cavity C-16-2

Flange Size

16F	ISO 6162 - DN25 Split Flange SAE Size 16 (1.00") Flange
20F	ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange
24F	ISO 6162 - DN38 Split Flange SAE Size 24 (1.50") Flange

Flange Rating

62	ISO 6162 -40 MPa • SAE code 62

Port Threads

16S	-16 SAE "T" Ports -6 SAE "GA" Port ISO 11926; SAE 1926

Tapping Plate Mounting Hardware

Part no.	Catalog pg.	Viton O-rings 75 durometer	Locating Pins	Plugs	Mounting Screws
* D03 TP PT 4P * D03 TP PT 4S * D03 TP PT 4B, M, T * D03 TP AB 4P * D03 TP AB 4S * D03 TP AB 4B, M, T * D03 TP L 4*	142	(4) -012	(1) 0.12 dia x 0.25 long	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a (1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a n/a	n/a
* D03 TP SD * D03 TP OP * D03 TP BTV	143	(4) -012	(1) 0.12 dia x 0.25 long	n/a (2) 0.06-27 NPTF LSPP n/a	n/a
* D03 TP 02 * AB	144	(8) -012	(2) 0.12 dia x 0.25 long	n/a	n/a
* D05 TP PT 4P * D05 TP PT 4S * D05 TP PT 4B, M, T * D05 TP AB 4P * D05 TP AB 4S * D05 TP AB 4B, M, T * D05 TP L 4*	145	(5) -014	n/a	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a (1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a n/a	n/a
* D05 TP SD * D05 TP BTV	146	(5) -014	n/a	n/a	n/a
* D05 TP 02 * AB	147	(10) -014	n/a	n/a	n/a
* D05H TP ** 4P * D05H TP ** 4S * D05H TP ** 4B, M, T	148	(2) -011, (5) -014	n/a	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D05HE TP ** 4P * D05HE TP ** 4S * D05HE TP ** 4B, M, T	149	(7) -014	n/a	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D05H TP XY 4P * D05H TP XY 4S * D05H TP XY 4B, M, T * D05H TP SD	150 150 150 151	(1) -011, (6) -014, and (1) -016	n/a	(3) 0.25-18 NPTF LSPP (3) -4 SAE hex socket plug n/a n/a	n/a
* D05H TP 02 * AB * D05HE TP 02 * AB	152	(4) -011, (10) -014 (14) -014	n/a	n/a	n/a
* D07 TP ** 4P * D07 TP ** 4S * D07 TP ** 4B, M, T	153	(2) -011, (4) -210	(2) 0.12 dia x 0.25 long	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D07 TP XY 4P * D07 TP XY 4S * D07 TP XY 4B, M, T * D07 TP SD	154 154 154 155	(2) -011, (4) -210	(2) 0.12 dia x 0.25 long	(3) 0.25-18 NPTF LSPP (3) -4 SAE hex socket plug n/a n/a	n/a
* D05 D07 TP 02 4 AB	156	(4) -011, (8) -210	(4) 0.12 dia x 0.25 long	n/a	(1) UNC 0.25-20 x 2.00 SHCS & (4) 0.38-16 x 2.00 long SHCS
* D08 TP ** 4P * D08 TP ** 4S * D08 TP ** 4B, M, T	157	(2) -210, (4) -215	(2) 0.25 dia x 0.50 long	(1) 0.25-18 NPTF LSPP (1) -4 SAE hex socket plug n/a	n/a
* D08 TP XY 4P * D08 TP XY 4S * D08 TP XY 4B, M, T * D08 TP SD	158 158 158 159	(2) -210, (4) -215	(2) 0.25 dia x 0.50 long	(3) 0.25-18 NPTF LSPP (3) -4 SAE hex socket plug n/a n/a	n/a
* D03 D08 TP 02 * AB * D05 D08 TP 02 * AB	160	(4) -210, (8) -215	(4) 0.25 dia x 0.50 long	n/a	(6) UNC 0.50-13 x 2.00 SHCS
* D10 TP PTAB 4*	161	(3) -210, (4) -222	(2) 0.25 dia x 0.50 long	n/a	n/a

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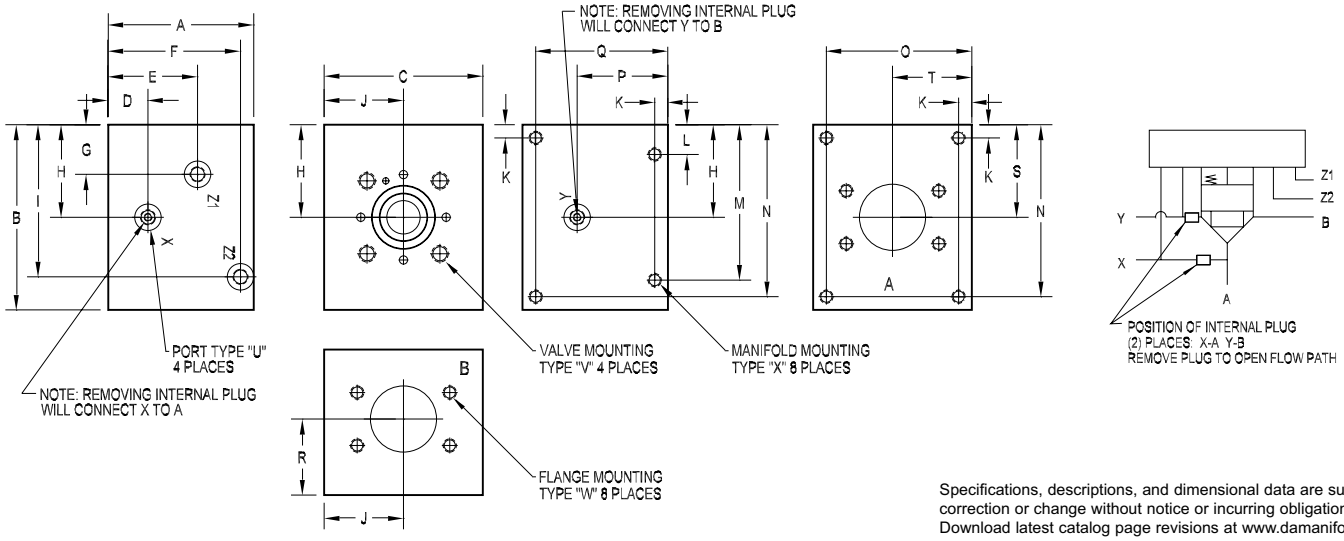
(ISO) 7368 • DIN 24342 • NFPA T3.5.45 STANDARDS)

16mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*16XA16F61 *16XA16F61M	3.50 [88.9]	4.00 [101.6]	3.00 [76.2]	1.00 [25.4]	1.56 [39.7]	2.00 [50.8]	0.75 [19.1]	1.63 [41.3]	2.63 [66.7]	1.50 [38.1]	0.31 [7.9]	0.69 [17.5]	3.31 [84.1]	3.69 [93.7]	2.69 [68.3]	2.14 [54.3]
*16XB16F61 *16XB16F61M	3.50 [88.9]	4.00 [101.6]	3.00 [76.2]	2.14 [54.3]	--	2.00 [50.8]	1.00 [25.4]	1.63 [41.3]	2.63 [66.7]	1.50 [38.1]	0.31 [7.9]	0.69 [17.5]	3.31 [84.1]	3.69 [93.7]	2.69 [68.3]	2.14 [54.3]
D16XA16F62 D16XA16F62M	3.50 [88.9]	4.25 [108.0]	3.50 [88.9]	1.00 [25.4]	1.56 [39.7]	2.00 [50.8]	0.88 [22.2]	1.88 [47.6]	2.88 [73.0]	1.75 [44.5]	0.31 [7.9]	0.69 [17.5]	3.56 [90.5]	3.94 [100.0]	3.19 [81.0]	2.14 [54.3]
D16XB16F62 D16XB16F62M	3.50 [88.9]	4.25 [108.0]	3.50 [88.9]	2.14 [54.3]	--	2.00 [50.8]	1.00 [25.4]	1.88 [47.6]	2.88 [73.0]	1.75 [44.5]	0.31 [7.9]	0.69 [17.5]	3.56 [90.5]	3.94 [100.0]	3.19 [81.0]	2.14 [54.3]
*16XA20F61 *16XA20F61M	3.50 [88.9]	4.00 [101.6]	3.50 [88.9]	1.00 [25.4]	2.14 [54.3]	2.14 [54.3]	0.63 [15.9]	1.63 [41.3]	2.63 [66.7]	1.75 [44.5]	0.31 [7.9]	0.66 [16.7]	3.34 [84.9]	3.69 [93.6]	3.19 [81.0]	2.14 [54.3]
*16XB20F61 *16XB20F61M	3.50 [88.9]	4.00 [101.6]	3.50 [88.9]	2.14 [54.3]	--	2.14 [54.3]	1.00 [25.4]	1.63 [41.3]	2.63 [66.7]	1.75 [44.5]	0.31 [7.9]	0.66 [16.7]	3.34 [84.9]	3.69 [93.6]	3.19 [81.0]	2.14 [54.3]
D16XA20F62 D16XA20F62M	4.00 [101.6]	4.50 [114.3]	4.00 [101.6]	1.50 [38.1]	2.64 [67.1]	2.50 [63.5]	1.13 [28.6]	2.13 [54.0]	3.13 [79.4]	2.00 [50.8]	0.38 [9.5]	0.88 [22.2]	3.63 [92.1]	4.13 [104.8]	3.63 [92.1]	2.64 [67.1]
D16XB20F62 D16XB20F62M	4.00 [101.6]	4.50 [114.3]	4.00 [101.6]	2.64 [67.1]	--	2.50 [63.5]	1.50 [38.1]	2.13 [54.0]	3.13 [79.4]	2.00 [50.8]	0.38 [9.5]	0.88 [22.2]	3.63 [92.1]	4.13 [104.8]	3.63 [92.1]	2.64 [67.1]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*16XA16F61 *16XA16F61M	3.19 [81.0]	2.14 [54.3]	1.63 [41.3]	1.50 [38.1]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.38 UNC x 0.88 DP M10 ISO 6H x [22] DP	0.31 UNC x 0.63 DP M8 ISO 6H x [16] DP
*16XB16F61 *16XB16F61M	3.19 [81.0]	2.14 [54.3]	1.63 [41.3]	1.50 [38.1]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.38 UNC x 0.88 DP M10 ISO 6H x [22] DP	0.31 UNC x 0.63 DP M8 ISO 6H x [16] DP
D16XA16F62 D16XA16F62M	3.19 [81.0]	2.00 [50.8]	1.88 [47.6]	1.75 [44.5]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.44 UNC x 1.12 DP M10 ISO 6H x [28] DP	0.31 UNC x 0.63 DP M8 ISO 6H x [16] DP
D16XB16F62 D16XB16F62M	3.19 [81.0]	2.00 [50.8]	1.88 [47.6]	1.75 [44.5]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.44 UNC x 1.12 DP M10 ISO 6H x [28] DP	0.31 UNC x 0.63 DP M8 ISO 6H x [16] DP
*16XA20F61 *16XA20F61M	3.19 [81.0]	2.14 [54.3]	1.67 [42.5]	1.75 [44.5]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.44 UNC x 1.12 DP M10 ISO 6H x [28] DP	0.31 UNC x 0.63 DP M8 ISO 6H x [16] DP
*16XB20F61 *16XB20F61M	3.19 [81.0]	2.14 [54.3]	1.67 [42.5]	1.75 [44.5]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.44 UNC x 1.12 DP M10 ISO 6H x [28] DP	0.31 UNC x 0.63 DP M8 ISO 6H x [16] DP
D16XA20F62 D16XA20F62M	3.63 [92.1]	2.47 [62.7]	2.13 [54.0]	2.00 [50.8]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.50 UNC x 1.19 DP M12 ISO 6H x [30] DP	0.38 UNC x 1.00 DP M10 ISO 6H x [25] DP
D16XB20F62 D16XB20F62M	3.63 [92.1]	2.47 [62.7]	2.13 [54.0]	2.00 [50.8]	SAE #4 ISO 6149 M10	0.31 UNC x 0.88 DP M8 ISO 6H x [22] DP	0.50 UNC x 1.19 DP M12 ISO 6H x [30] DP	0.38 UNC x 1.00 DP M10 ISO 6H x [25] DP

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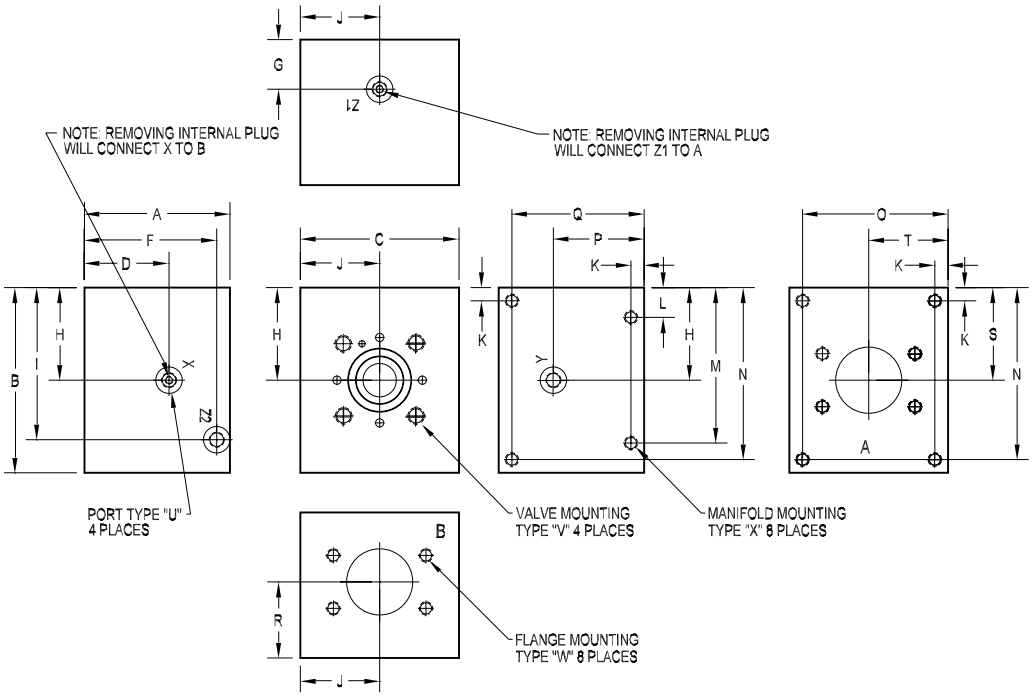
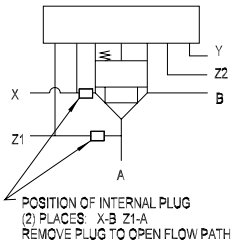
16mm Body • XB Circuit





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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Pilot Circuit

XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

Flange Rating

Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity

16	DIN 24342 - 16mm ISO 7368-06-01 (Standard currently under revision) NFPA T3.5.45-BA-06-2-A

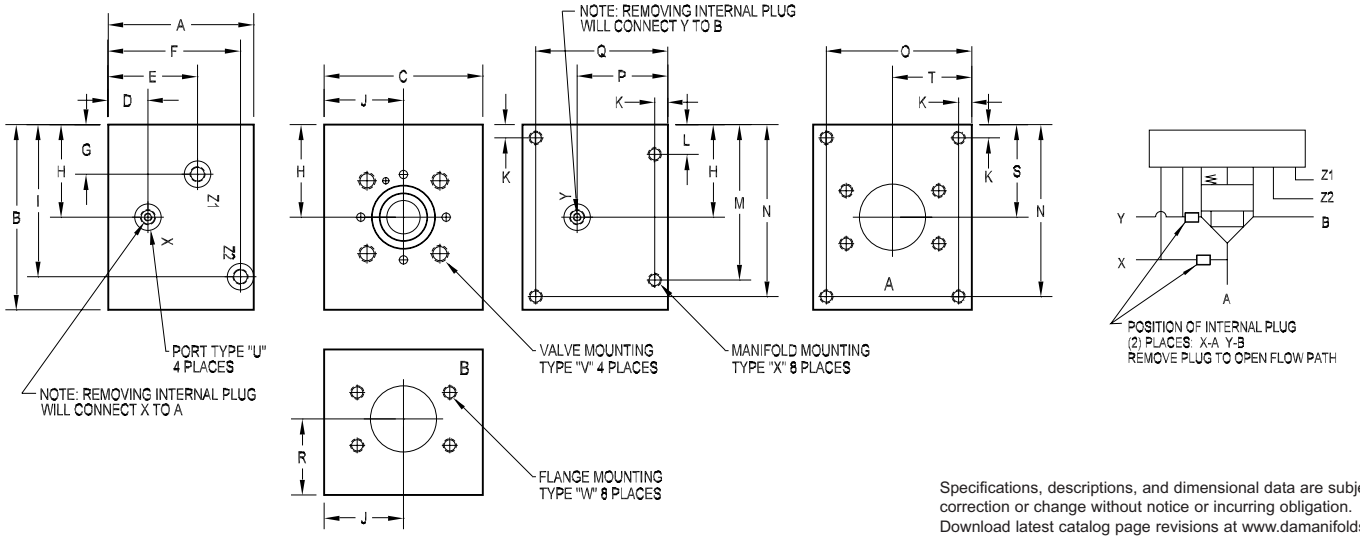
A & B Port Size

16F	ISO 6162 - DN25 Split Flange SAE Size 16 (1.00") Flange
20F	ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

25mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*25XA20F61 *25XA20F61M	4.00 [101.6]	5.00 [127.0]	4.50 [114.3]	0.75 [19.1]	2.13 [54.0]	3.50 [88.9]	0.53 [13.5]	1.88 [47.6]	3.75 [95.3]	2.25 [57.2]	0.38 [9.5]	0.88 [22.2]	4.13 [104.8]	4.63 [117.5]	4.13 [104.8]	2.25 [57.2]
*25XB20F61 *25XB20F61M	4.00 [101.6]	5.00 [127.0]	4.50 [114.3]	2.25 [57.2]	--	3.50 [88.9]	0.75 [19.1]	1.88 [47.6]	3.75 [95.3]	2.25 [57.2]	0.38 [9.5]	0.88 [22.2]	4.13 [104.8]	4.63 [117.5]	4.13 [104.8]	2.25 [57.2]
D25XA20F62 D25XA20F62M	4.00 [101.6]	5.00 [127.0]	4.50 [114.3]	0.75 [19.1]	2.13 [54.0]	3.50 [88.9]	0.72 [18.3]	2.06 [52.4]	3.94 [100.0]	2.25 [57.2]	0.38 [9.5]	0.88 [22.2]	4.13 [104.8]	4.63 [117.5]	4.13 [104.8]	2.25 [57.2]
D25XB20F62 D25XB20F62M	4.00 [101.6]	5.00 [127.0]	4.50 [114.3]	2.25 [57.2]	--	3.50 [88.9]	0.75 [19.1]	2.06 [52.4]	3.94 [100.0]	2.25 [57.2]	0.38 [9.5]	0.88 [22.2]	4.13 [104.8]	4.63 [117.5]	4.13 [104.8]	2.25 [57.2]
*25XA32F61 *25XA32F61M	5.00 [127.0]	6.00 [152.4]	4.50 [114.3]	1.75 [44.5]	3.13 [79.4]	4.50 [114.3]	1.53 [38.9]	2.88 [73.0]	4.75 [120.7]	2.25 [57.2]	0.50 [12.7]	1.13 [28.6]	4.88 [123.8]	5.50 [139.7]	4.00 [101.6]	3.25 [82.6]
*25XB32F61 *25XB32F61M	5.00 [127.0]	6.00 [152.4]	4.50 [114.3]	3.25 [82.6]	--	4.50 [114.3]	1.75 [44.5]	2.88 [73.0]	4.75 [120.7]	2.25 [57.2]	0.50 [12.7]	1.13 [28.6]	4.88 [123.8]	5.50 [139.7]	4.00 [101.6]	3.25 [82.6]
D25XA32F62 D25XA32F62M	5.00 [127.0]	6.50 [165.1]	6.00 [152.4]	1.75 [44.5]	3.13 [79.4]	4.50 [114.3]	1.78 [45.2]	3.13 [79.4]	5.00 [127.0]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.38 [136.5]	6.00 [152.4]	5.50 [139.7]	3.25 [82.6]
D25XB32F62 D25XB32F62M	5.00 [101.6]	6.50 [165.1]	6.00 [152.4]	3.25 [82.6]	--	4.50 [114.3]	1.75 [44.5]	3.13 [79.4]	5.00 [127.0]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.38 [136.5]	6.00 [152.4]	5.50 [139.7]	3.25 [82.6]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*25XA20F61 *25XA20F61M	3.63 [92.1]	2.25 [57.2]	1.88 [47.6]	2.25 [57.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.44 UNC x 1.12 DP M10 ISO 6H x 28 DP	0.38 UNC x 1.00 DP M10 ISO 6H x 25 DP
*25XB20F61 *25XB20F61M	3.63 [92.1]	2.25 [57.2]	1.88 [47.6]	2.25 [57.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.44 UNC x 1.12 DP M10 ISO 6H x 28 DP	0.38 UNC x 1.00 DP M10 ISO 6H x 25 DP
D25XA20F62 D25XA20F62M	3.63 [92.1]	2.25 [57.2]	2.06 [52.4]	2.25 [57.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.38 UNC x 1.00 DP M10 ISO 6H x 25 DP
D25XB20F62 D25XB20F62M	3.63 [92.1]	2.25 [57.2]	2.06 [52.4]	2.25 [57.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.38 UNC x 1.00 DP M10 ISO 6H x 25 DP
*25XA32F61 *25XA32F61M	4.50 [114.3]	2.75 [69.9]	2.88 [73.0]	2.25 [57.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*25XB32F61 *25XB32F61M	4.50 [114.3]	2.75 [69.9]	2.88 [73.0]	2.25 [57.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D25XA32F62 D25XA32F62M	4.50 [114.3]	2.75 [69.9]	3.13 [79.4]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D25XB32F62 D25XB32F62M	4.50 [114.3]	2.75 [69.9]	3.13 [79.4]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP

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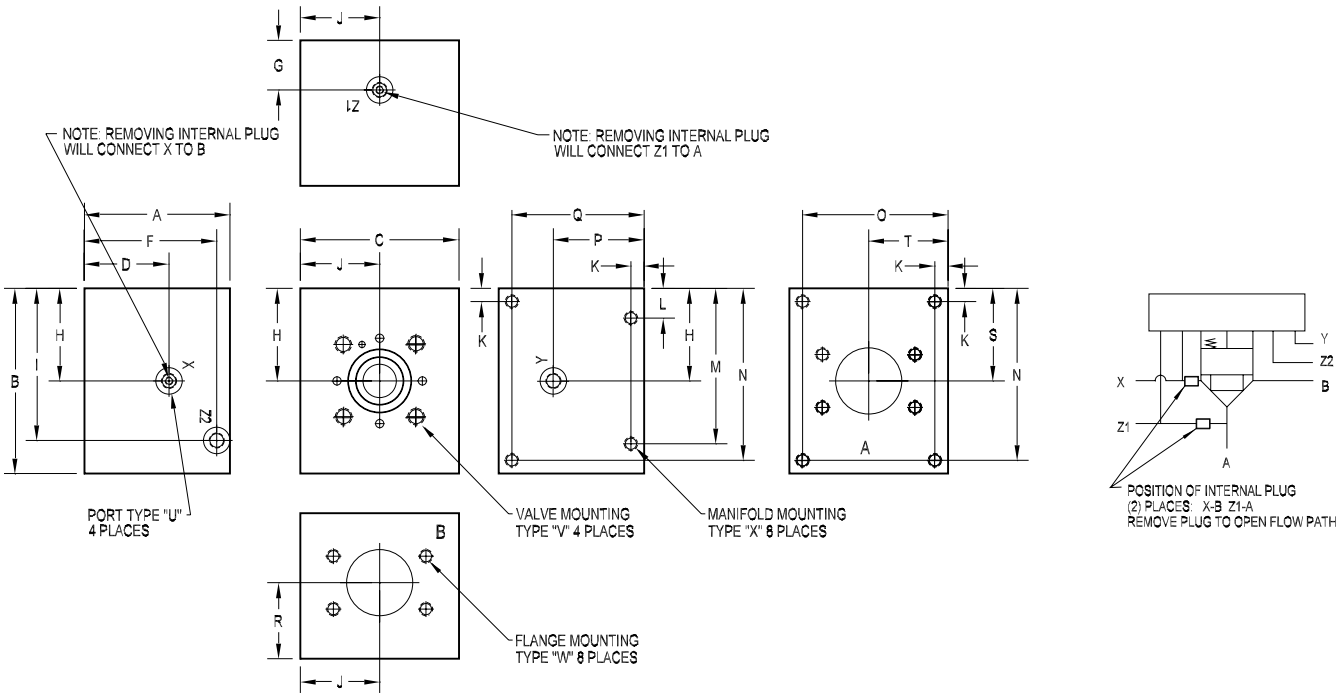
25mm Body • XB Circuit



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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Pilot Circuit

XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

Flange Rating

Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity

25	DIN 24342 - 25mm ISO 7368-08-03 (Standard currently under revision) NFPA T3.5.45-BB-08-2-A

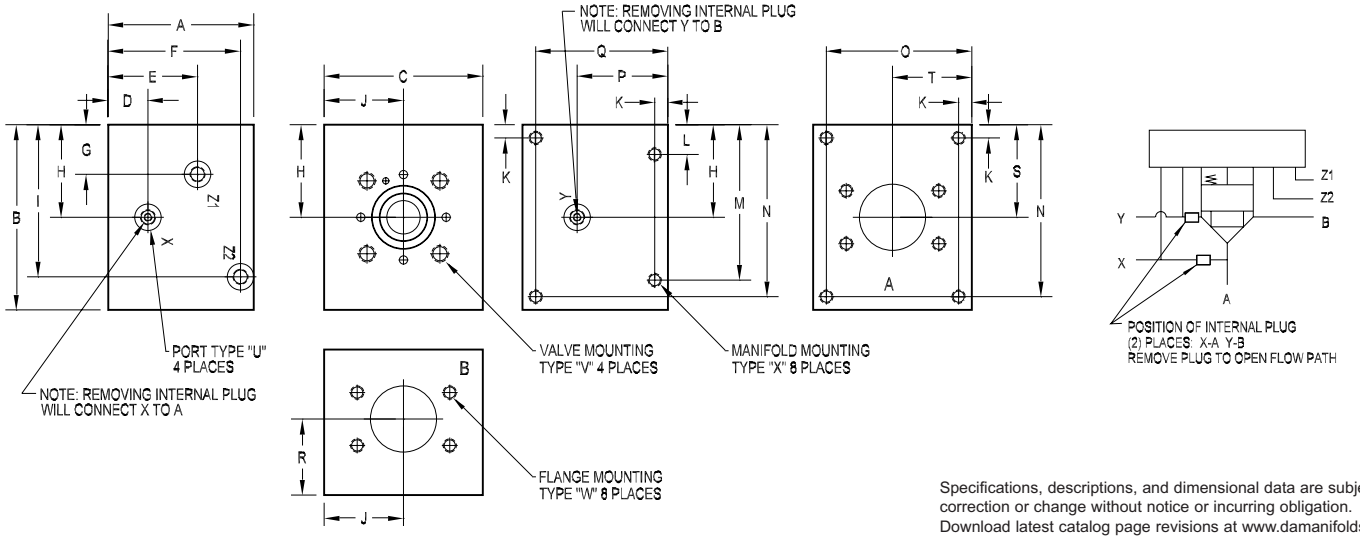
A & B Port Size

20F	ISO 6162 - DN32 Split Flange SAE Size 20 (1.25") Flange
32F	ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

32mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*32XA24F61 *32XA24F61M	5.50 [139.7]	6.00 [152.4]	6.00 [152.4]	1.50 [38.1]	3.38 [85.7]	5.00 [127.0]	0.88 [22.2]	2.50 [63.5]	4.75 [120.7]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	4.88 [123.8]	5.50 [139.7]	5.50 [139.7]	3.43 [87.2]
*32XB24F61 *32XB24F61M	5.50 [139.7]	6.00 [152.4]	6.00 [152.4]	3.43 [87.2]	--	5.00 [127.0]	1.50 [38.1]	2.50 [63.5]	4.75 [120.7]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	4.88 [123.8]	5.50 [139.7]	5.50 [139.7]	3.43 [87.2]
D32XA24F62 D32XA24F62M	5.50 [139.7]	6.00 [152.4]	6.00 [152.4]	1.50 [38.1]	3.38 [85.7]	5.00 [127.0]	0.88 [22.2]	2.50 [63.5]	4.75 [120.7]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	4.88 [123.8]	5.50 [139.7]	5.50 [139.7]	3.43 [87.2]
D32XB24F62 D32XB24F62M	5.50 [139.7]	6.00 [152.4]	6.00 [152.4]	3.43 [87.2]	--	5.00 [127.0]	1.50 [38.1]	2.50 [63.5]	4.75 [120.7]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	4.88 [123.8]	5.50 [139.7]	5.50 [139.7]	3.43 [87.2]
*32XA40F61 *32XA40F61M	5.50 [139.7]	7.00 [177.8]	6.00 [152.4]	1.50 [38.1]	3.38 [85.7]	5.00 [127.0]	1.88 [47.6]	3.50 [88.9]	5.75 [146.1]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	3.43 [87.2]
*32XB40F61 *32XB40F61M	5.50 [139.7]	7.00 [177.8]	6.00 [152.4]	3.43 [87.2]	--	5.00 [127.0]	1.50 [38.1]	3.50 [88.9]	5.75 [146.1]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	3.43 [87.2]
D32XA40F62 D32XA40F62M	6.50 [165.1]	8.00 [203.2]	7.50 [190.5]	2.50 [63.5]	4.38 [111.1]	6.00 [152.4]	2.38 [60.3]	4.00 [101.6]	6.25 [158.8]	3.75 [95.3]	0.63 [15.9]	1.38 [34.9]	6.63 [168.3]	7.38 [187.3]	6.88 [174.6]	4.43 [112.6]
D32XB40F62 D32XB40F62M	6.50 [165.1]	8.00 [203.2]	7.50 [190.5]	4.43 [112.6]	--	6.00 [152.4]	2.50 [63.5]	4.00 [101.6]	6.25 [158.8]	3.75 [95.3]	0.63 [15.9]	1.38 [34.9]	6.63 [168.3]	7.38 [187.3]	6.88 [174.6]	4.43 [112.6]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*32XA24F61 *32XA24F61M	5.00 [127.0]	3.43 [87.2]	2.50 [63.5]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*32XB24F61 *32XB24F61M	5.00 [127.0]	3.43 [87.2]	2.50 [63.5]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D32XA24F62 D32XA24F62M	5.00 [127.0]	3.43 [87.2]	2.50 [63.5]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D32XB24F62 D32XB24F62M	5.00 [127.0]	3.43 [87.2]	2.50 [63.5]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*32XA40F61 *32XA40F61M	5.00 [127.0]	2.88 [73.0]	3.50 [88.9]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*32XB40F61 *32XB40F61M	5.00 [127.0]	2.88 [73.0]	3.50 [88.9]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D32XA40F62 D32XA40F62M	5.88 [149.2]	3.38 [85.7]	4.00 [101.6]	3.75 [95.3]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.88 UNC x 1.88 DP M22 ISO 6H x 48 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP
D32XB40F62 D32XB40F62M	5.88 [149.2]	3.38 [85.7]	4.00 [101.6]	3.75 [95.3]	SAE #6 ISO 6149 M14	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.88 UNC x 1.88 DP M22 ISO 6H x 48 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP

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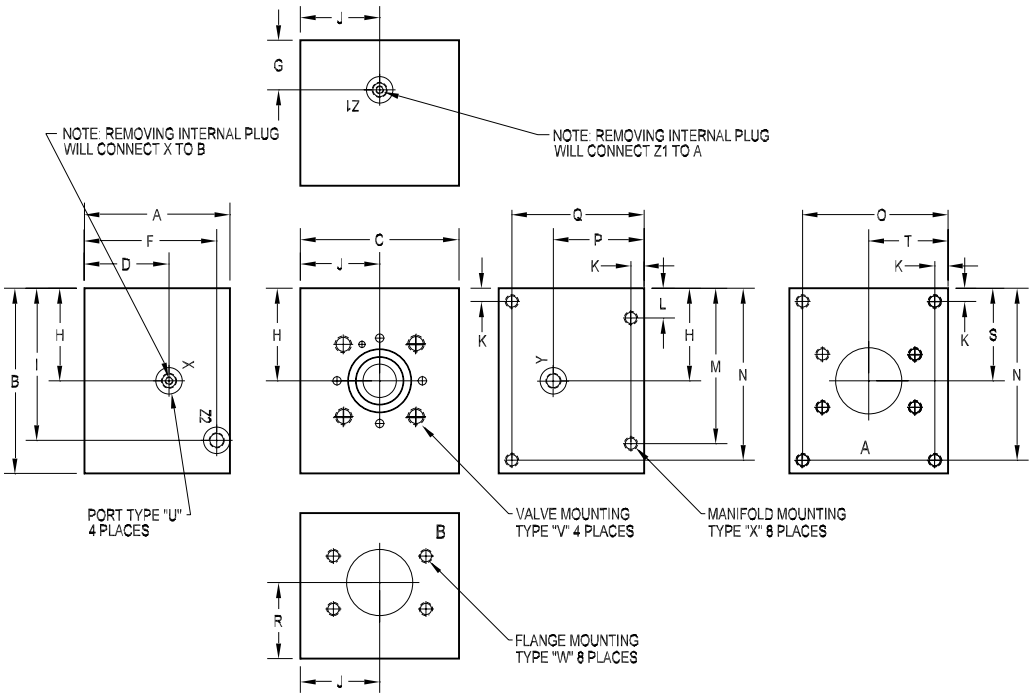
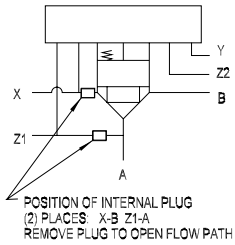
32mm Body • XB Circuit





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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Pilot Circuit

XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

Flange Rating

Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity

32	DIN 24342 - 32mm ISO 7368-09-05 (Standard currently under revision) NFPA T3.5.45-BC-09-2-A

A & B Port Size

24F	ISO 6162 - DN38 Split Flange SAE Size 24 (1.50") Flange
40F	ISO 6162 - DN64 Split Flange SAE Size 40 (2.50") Flange

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

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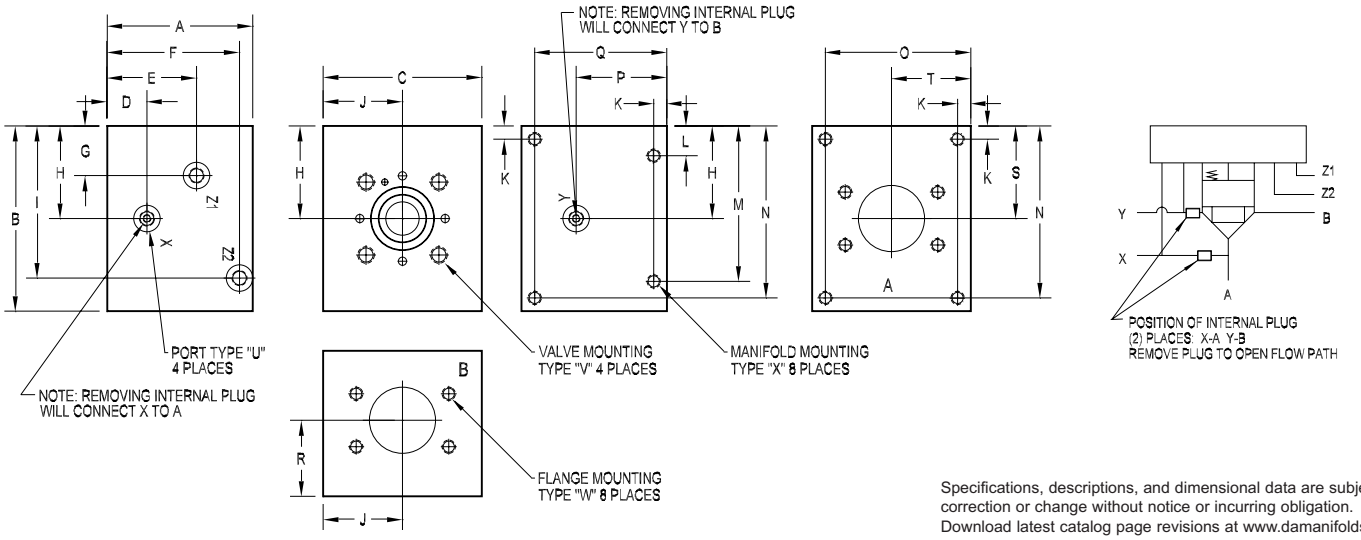
40mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*40XA32F61 *40XA32F61M	6.00 [152.4]	7.00 [177.8]	6.00 [152.4]	1.25 [31.8]	3.50 [88.9]	5.50 [139.7]	1.28 [32.5]	3.25 [82.6]	6.00 [152.4]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	3.46 [87.9]
*40XB32F61 *40XB32F61M	6.00 [152.4]	7.00 [177.8]	6.00 [152.4]	3.46 [87.9]	--	5.50 [139.7]	1.25 [31.8]	3.25 [82.6]	6.00 [152.4]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	3.46 [87.9]
D40XA32F62 D40XA32F62M	6.00 [152.4]	7.00 [177.8]	6.00 [152.4]	1.25 [31.8]	3.50 [88.9]	5.50 [139.7]	1.16 [29.4]	3.13 [79.8]	5.88 [149.2]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	3.46 [87.9]
D40XB32F62 D40XB32F62M	6.00 [152.4]	7.00 [177.8]	6.00 [152.4]	3.46 [87.9]	--	5.50 [139.7]	1.25 [31.8]	3.13 [79.8]	5.88 [149.2]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	3.46 [87.9]
*40XA48F61 *40XA48F61M	6.00 [152.4]	7.50 [190.5]	6.00 [152.4]	1.25 [31.8]	3.50 [88.9]	5.50 [139.7]	1.78 [45.2]	3.75 [95.3]	6.50 [165.1]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	6.38 [161.9]	7.00 [177.8]	5.50 [139.7]	3.46 [87.9]
*40XB48F61 *40XB48F61M	6.00 [152.4]	7.50 [190.5]	6.00 [152.4]	3.46 [87.9]	--	5.50 [139.7]	1.25 [31.8]	3.75 [95.3]	6.50 [165.1]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	6.38 [161.9]	7.00 [177.8]	5.50 [139.7]	3.46 [87.9]
D40XA48F62 D40XA48F62M	7.50 [190.5]	9.50 [241.3]	9.00 [228.6]	2.75 [69.9]	5.00 [127.0]	7.00 [177.8]	2.78 [70.6]	4.75 [120.7]	7.50 [190.5]	4.50 [114.3]	0.75 [19.1]	1.63 [41.3]	7.88 [200.0]	8.75 [222.3]	8.25 [209.6]	4.96 [126.0]
D40XB48F62 D40XB48F62M	7.50 [190.5]	9.50 [241.3]	9.00 [228.6]	4.96 [126.0]	--	7.00 [177.8]	2.75 [69.9]	4.75 [120.7]	7.50 [190.5]	4.50 [114.3]	0.75 [19.1]	1.63 [41.3]	7.88 [200.0]	8.75 [222.3]	8.25 [209.6]	4.96 [126.0]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*40XA32F61 *40XA32F61M	5.50 [139.7]	3.46 [87.9]	3.25 [82.6]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*40XB32F61 *40XB32F61M	5.50 [139.7]	3.46 [87.9]	3.25 [82.6]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D40XA32F62 D40XA32F62M	5.50 [139.7]	3.46 [87.9]	3.13 [79.4]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.75 UNC x 1.50 DP M20 ISO 6H x 38 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D40XB32F62 D40XB32F62M	5.50 [139.7]	3.46 [87.9]	3.13 [79.4]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.75 UNC x 1.50 DP M20 ISO 6H x 38 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*40XA48F61 *40XA48F61M	5.50 [139.7]	3.00 [76.2]	3.75 [95.3]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*40XB48F61 *40XB48F61M	5.50 [139.7]	3.00 [76.2]	3.75 [95.3]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D40XA48F62 D40XA48F62M	6.75 [171.5]	3.75 [95.3]	4.75 [120.7]	4.50 [114.3]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	1.13 UNC x 2.50 DP M27 ISO 6H x 63 DP	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP
D40XB48F62 D40XB48F62M	6.75 [171.5]	3.75 [95.3]	4.75 [120.7]	4.50 [114.3]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP	1.13 UNC x 2.50 DP M27 ISO 6H x 63 DP	0.75 UNC x 1.62 DP M20 ISO 6H x 41 DP

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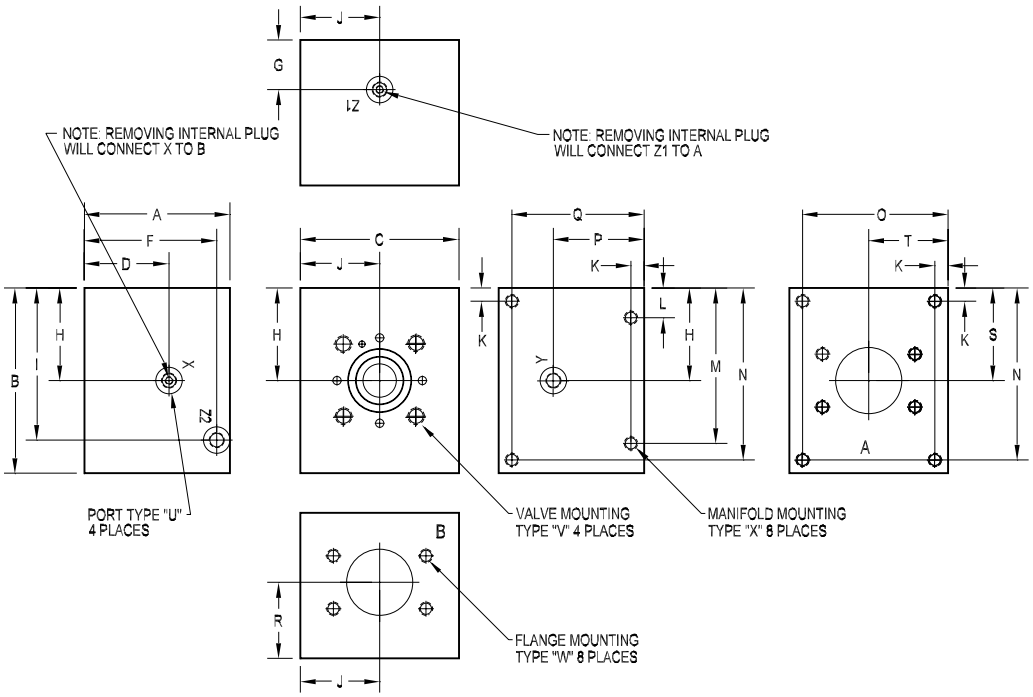
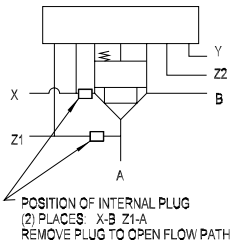
40mm Body • XB Circuit





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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Pilot Circuit

XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

Flange Rating

Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity

40	DIN 24342 - 40mm ISO 7368-10-07 (Standard currently under revision) NFPA T3.5.45-BD-10-2-A

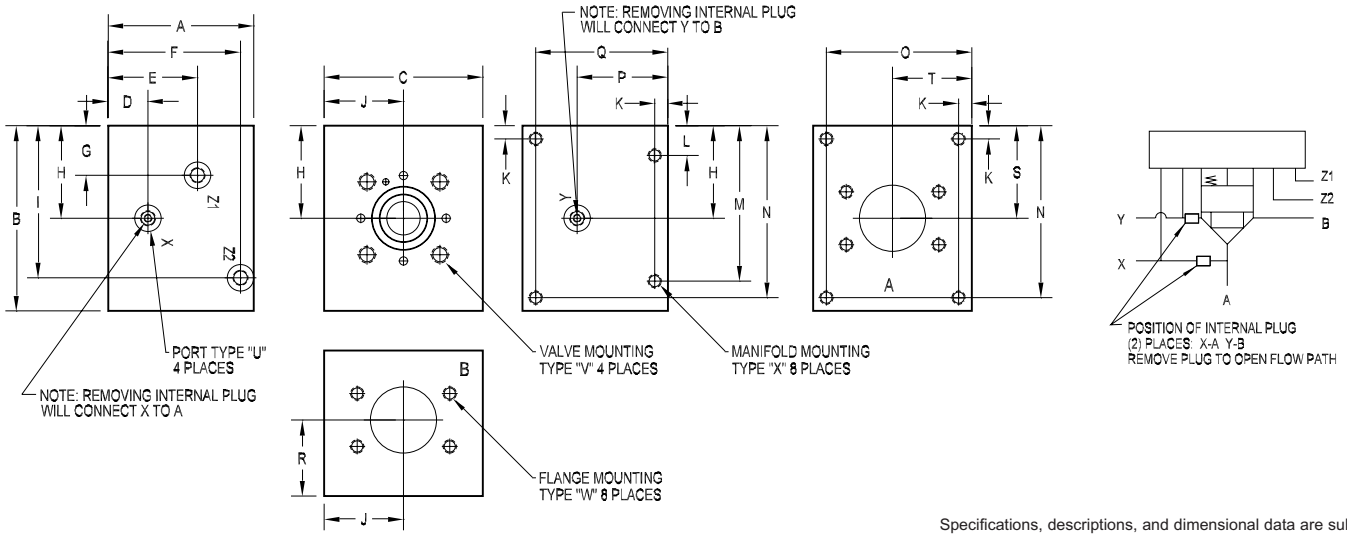
A & B Port Size

32F	ISO 6162 - DN51 Split Flange SAE Size 32 (2.00") Flange
48F	ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

50mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
50XA40F61 *50XA40F61M	7.00 [177.8]	7.00 [177.8]	6.00 [152.4]	1.50 [38.1]	4.50 [114.3]	6.50 [165.1]	0.75 [19.1]	3.25 [82.6]	6.13 [155.6]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	4.15 [105.3]
50XB40F61 *50XB40F61M	7.00 [177.8]	7.00 [177.8]	6.00 [152.4]	4.15 [105.3]	--	6.50 [165.1]	1.50 [38.1]	3.25 [82.6]	6.13 [155.6]	3.00 [76.2]	0.50 [12.7]	1.13 [28.6]	5.88 [149.2]	6.50 [165.1]	5.50 [139.7]	4.15 [105.3]
D50XA40F62* D50XA40F62M	7.00 [177.8]	8.00 [203.2]	7.00 [177.8]	1.50 [38.1]	4.50 [114.3]	6.50 [165.1]	1.25 [31.8]	3.75 [95.3]	6.62 [168.3]	3.50 [88.9]	0.50 [12.7]	1.13 [28.6]	6.88 [174.6]	7.50 [190.5]	6.50 [165.1]	4.15 [105.3]
D50XB40F62* D50XB40F62M	7.00 [177.8]	8.00 [203.2]	7.00 [177.8]	4.15 [105.3]	--	6.50 [165.1]	1.50 [38.1]	3.75 [95.3]	6.62 [168.3]	3.50 [88.9]	0.50 [12.7]	1.13 [28.6]	6.88 [174.6]	7.50 [190.5]	6.50 [165.1]	4.15 [105.3]
50XA64F61 *50XA64F61M	7.00 [177.8]	7.25 [184.2]	6.50 [165.1]	1.50 [38.1]	4.15 [105.4]	6.50 [165.1]	1.19 [30.2]	3.50 [88.9]	6.38 [161.9]	3.25 [82.6]	0.50 [12.7]	1.13 [28.6]	6.13 [155.6]	6.75 [171.5]	6.00 [152.4]	4.15 [105.3]
50XB64F61 *50XB64F61M	7.00 [177.8]	7.25 [184.2]	6.50 [165.1]	4.15 [105.3]	--	6.50 [165.1]	1.50 [38.1]	3.50 [88.9]	6.38 [161.9]	3.25 [82.6]	0.50 [12.7]	1.13 [28.6]	6.13 [155.6]	6.75 [171.5]	6.00 [152.4]	4.15 [105.3]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*50XA40F61V *50XA40F61R *50XA40F61M	6.50 [165.1]	4.15 [105.3]	3.25 [82.6]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*50XB40F61V *50XB40F61R *50XB40F61M	6.50 [165.1]	4.15 [105.3]	3.25 [82.6]	3.00 [76.2]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D50XA40F62V D50XA40F62R D50XA40F62M	6.50 [165.1]	4.00 [101.6]	3.75 [95.3]	3.50 [88.9]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.88 UNC x 1.75 DP M22 ISO 6H x 45 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
D50XB40F62V D50XB40F62R D50XB40F62M	6.50 [165.1]	4.00 [101.6]	3.75 [95.3]	3.50 [88.9]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.88 UNC x 1.75 DP M22 ISO 6H x 45 DP	0.50 UNC x 1.00 DP M12 ISO 6H x 25 DP
*50XA64F61V *50XA64F61R *50XA64F61M	6.50 [165.1]	3.88 [98.4]	3.50 [88.9]	3.25 [82.6]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP
*50XB64F61V *50XB64F61R *50XB64F61M	6.50 [165.1]	3.88 [98.4]	3.50 [88.9]	3.25 [82.6]	SAE #6 ISO 6149 M14	0.75 UNC x 1.62 DP 0.88 UNC x 1.62 DP M20 ISO 6H x 41 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.50 UNC x 1.19 DP M12 ISO 6H x 30 DP

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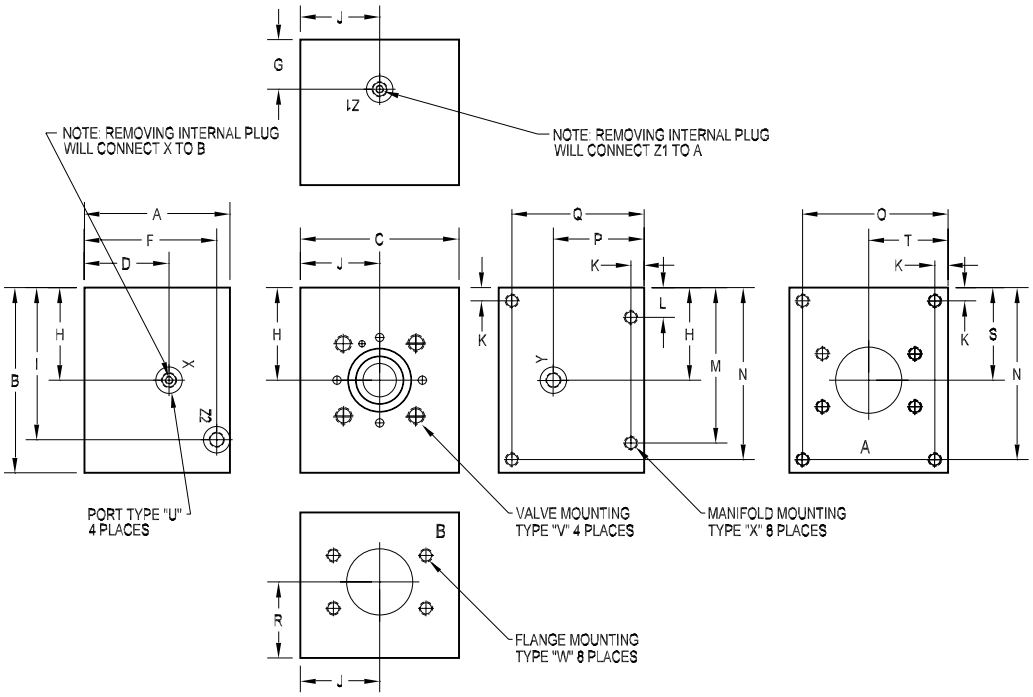
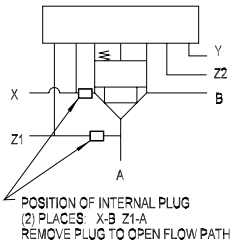
50mm Body • XB Circuit





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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Pilot Circuit

XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

Flange Rating

Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Port size 40F, Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity

50	DIN 24342 - 50mm ISO 7368-11-09 (Standard currently under revision) NFPA T3.5.45-BE-11-2-A

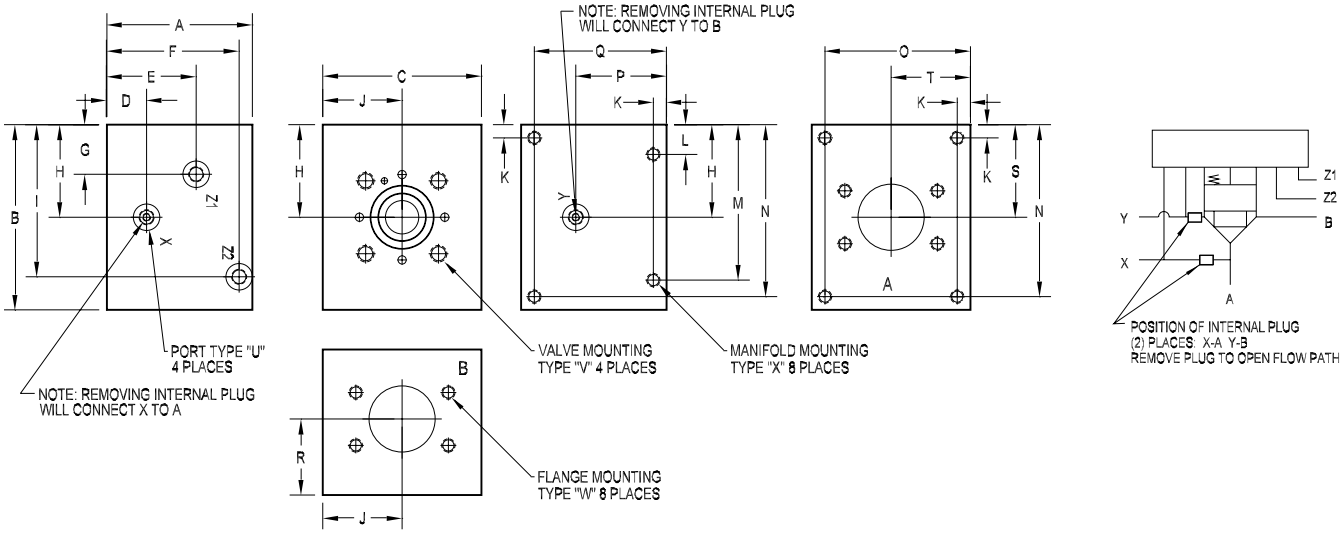
A & B Port Size

40F	ISO 6162 - DN64 Split Flange SAE Size 40 (2.50") Flange
64F	ISO 6162 - DN102 Split Flange SAE Size 64 (4.00") Flange

Thread Type

V	Inch threads / ports Valve mtg. = 0.75-10
R	Inch threads / ports Valve mtg. = 0.875-9
M	Metric threads / ports Valve mtg. = M20-2.5

63mm Body • XA Circuit



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PART NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
*63XA48F61 *63XA48F61M	8.00 [203.2]	9.00 [228.6]	8.00 [203.2]	1.00 [25.4]	4.24 [107.7]	7.25 [184.2]	1.29 [32.8]	4.25 [108.0]	8.00 [203.2]	4.00 [101.6]	0.63 [15.9]	1.38 [34.9]	7.63 [193.7]	8.38 [212.7]	7.38 [187.3]	4.24 [107.7]
*63XB48F61 *63XB48F61M	8.00 [203.2]	9.00 [228.6]	8.00 [203.2]	4.24 [107.7]	--	7.25 [184.2]	1.25 [31.8]	4.25 [108.0]	8.00 [203.2]	4.00 [101.6]	0.63 [15.9]	1.38 [34.9]	7.63 [193.7]	8.38 [212.7]	7.38 [187.3]	4.24 [107.7]
D63XA48F62 D63XA48F62M	9.00 [228.6]	10.50 [266.7]	9.00 [228.6]	2.25 [57.2]	5.00 [127.0]	8.25 [209.6]	1.77 [45.0]	4.75 [120.7]	8.50 [215.9]	4.50 [114.3]	0.63 [15.9]	1.38 [34.9]	9.13 [231.8]	9.88 [250.8]	8.38 [212.7]	5.24 [133.1]
D63XB48F62 D63XB48F62M	9.00 [228.6]	10.50 [266.7]	9.00 [228.6]	5.24 [133.1]	--	8.25 [209.6]	2.25 [57.2]	4.75 [120.7]	8.50 [215.9]	4.50 [114.3]	0.63 [15.9]	1.38 [34.9]	9.13 [231.8]	9.88 [250.8]	8.38 [212.7]	5.24 [133.1]
*63XA80F61 *63XA80F61M	8.00 [203.2]	9.00 [228.6]	8.00 [203.2]	1.38 [34.9]	4.24 [107.7]	7.25 [184.2]	1.29 [32.8]	4.25 [108.0]	8.00 [203.2]	4.00 [101.6]	0.63 [15.9]	1.50 [38.1]	7.50 [190.5]	8.38 [212.7]	7.38 [187.3]	4.24 [107.7]
*63XB80F61 *63XB80F61M	8.00 [203.2]	9.00 [228.6]	8.00 [203.2]	4.24 [107.7]	--	7.25 [184.2]	1.38 [34.9]	4.25 [108.0]	8.00 [203.2]	4.00 [101.6]	0.63 [15.9]	1.50 [38.1]	7.50 [190.5]	8.38 [212.7]	7.38 [187.3]	4.24 [107.7]

PART NO.	Q	R	S	T	U pilot port size	V valve mounting	W flange mounting	X manifold mounting
*63XA48F61 *63XA48F61M	7.38 [187.3]	4.24 [107.7]	4.25 [108.0]	4.00 [101.6]	SAE #08 ISO 6149 M18	1.25 UNC x 2.75 DP M30 ISO 6H x 70 DP	0.63 UNC x 1.31 DP M16 ISO 6H x 33 DP	0.63 UNC x 1.25 DP M16 ISO 6H x 32 DP
*63XB48F61 *63XB48F61M	7.38 [187.3]	4.24 [107.7]	4.25 [108.0]	4.00 [101.6]	SAE #08 ISO 6149 M18	1.25 UNC x 2.75 DP M30 ISO 6H x 70 DP	0.63 UNC x 1.31 DP M16 ISO 6H x 33 DP	0.63 UNC x 1.25 DP M16 ISO 6H x 32 DP
D63XA48F62 D63XA48F62M	8.38 [212.7]	5.24 [133.1]	4.75 [120.7]	4.50 [114.3]	SAE #08 ISO 6149 M18	1.25 UNC x 2.75 DP M30 ISO 6H x 70 DP	1.13 UNC x 2.25 DP M27 ISO 6H x 57 DP	0.63 UNC x 1.25 DP M16 ISO 6H x 32 DP
D63XB48F62 D63XB48F62M	8.38 [212.7]	5.24 [133.1]	4.75 [120.7]	4.50 [114.3]	SAE #08 ISO 6149 M18	1.25 UNC x 2.75 DP M30 ISO 6H x 70 DP	1.13 UNC x 2.25 DP M27 ISO 6H x 57 DP	0.63 UNC x 1.25 DP M16 ISO 6H x 32 DP
*63XA80F61 *63XA80F61M	7.38 [187.3]	4.24 [107.7]	4.25 [108.0]	4.00 [101.6]	SAE #08 ISO 6149 M18	1.25 UNC x 2.75 DP M30 ISO 6H x 70 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP
*63XB80F61 *63XB80F61M	7.38 [187.3]	4.24 [107.7]	4.25 [108.0]	4.00 [101.6]	SAE #08 ISO 6149 M18	1.25 UNC x 2.75 DP M30 ISO 6H x 70 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP	0.63 UNC x 1.44 DP M16 ISO 6H x 36 DP

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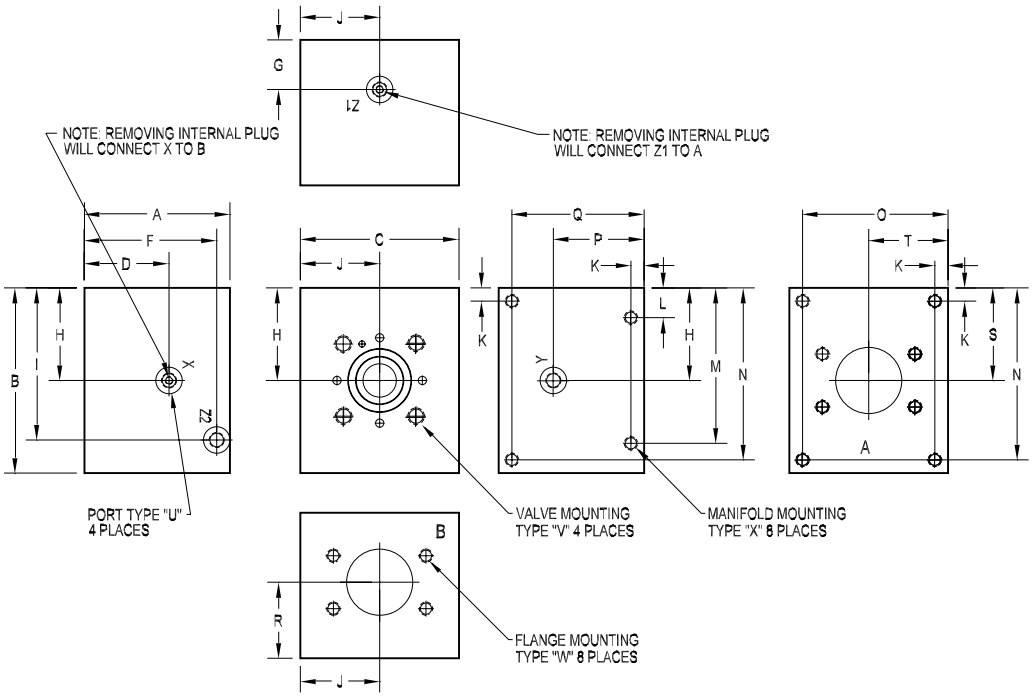
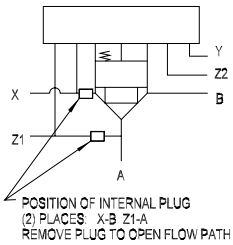
63mm Body • XB Circuit





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Ordering Information

Material	Valve Cavity	Pilot Circuit	A & B Port Size	Flange Rating	Thread Type

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Pilot Circuit

XA	X common to A Y common to B
XB	X common to B Z1 common to A

These connections are furnished plugged (external pilot ports). Remove plugs for internal pilot ports. See circuit diagram.

Flange Rating

Aluminum or Ductile	
61	ISO 6162 - 2.5 to 35 MPa SAE code 61
Port size 48F, Ductile only	
62	ISO 6162 - 40 MPa series SAE code 62

Valve Cavity

63	DIN 24342 - 63mm ISO 7368-12-11 (Standard currently under revision) NFPA T3.5.45-BF-12-2-A

A & B Port Size

48F	ISO 6162 - DN76 Split Flange SAE Size 48 (3.00") Flange
80F	ISO 6162 - DN127 Split Flange SAE Size 80 (5.00") Flange

Thread Type

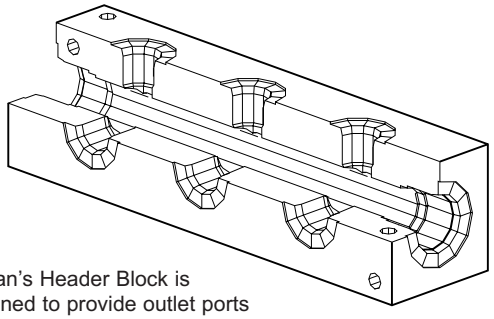
Omit	Inch threads / ports
M	Metric threads / ports

Hydraulic Valve Manifolds

Better System Design Begins with a Manifold.

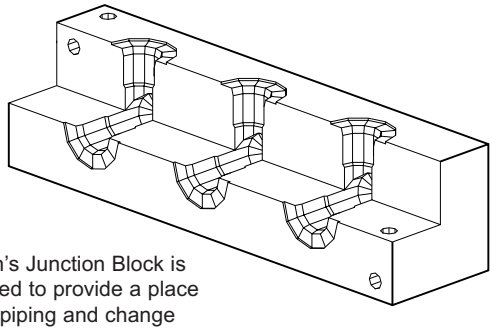
HEADER AND JUNCTION BLOCKS

Header Block



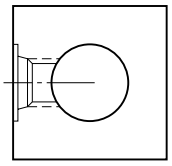
Daman's Header Block is designed to provide outlet ports that are common to one header (thru) port. The header port is always one size larger than the outlet ports.

Junction Block

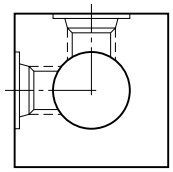


Daman's Junction Block is designed to provide a place to join piping and change direction or split / combine with other lines.

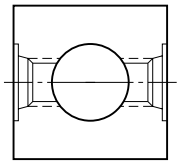
Available Header Block Configurations



0º design
See pages 180-181

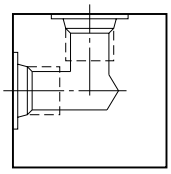


90º design
See pages 182-183

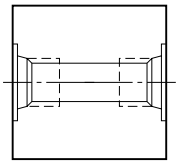


180º design
See pages 184-185

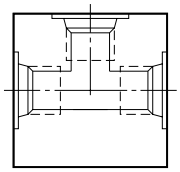
Available Junction Block Configurations



90º design
See pages 186-187



180º design
See pages 188-189



270º design
See pages 190-191

Header Block Mounting Hardware

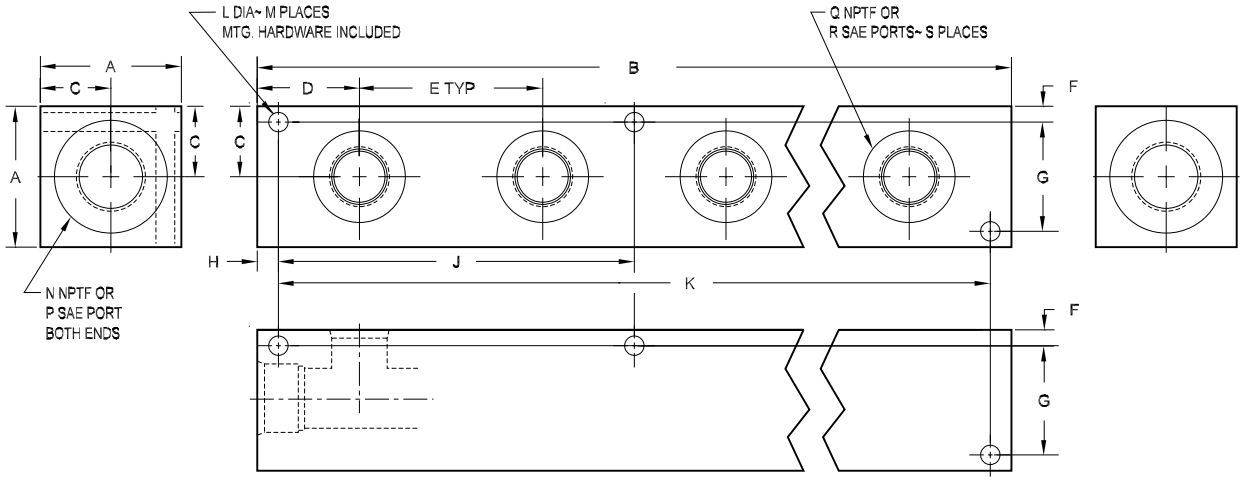
Port Size	Mounting bolts
01P	(2) or (3) UNC #10-24 x 1.50 long SHCS
02P	(2) or (3) UNC 0.25-20 x 2.00 long SHCS
04*, 06S	(2) or (3) UNC 0.25-20 x 2.25 long SHCS
06P, 08P	(2) or (3) UNC 0.25-20 x 2.50 long SHCS
08S	(2) or (3) UNC 0.25-20 x 2.75 long SHCS
12*	(2) or (3) UNC 0.31-18 x 3.00 long SHCS
16*	(2) or (3) UNC 0.38-16 x 3.50 long SHCS
20*	(2) or (3) UNC 0.50-13 x 4.50 long SHCS
24P	(2) or (3) UNC 0.50-13 x 5.00 long SHCS
24S	(2) or (3) UNC 0.50-13 x 5.50 long SHCS

Junction Block Mounting Hardware

Port Size	Mounting bolts
04*	(2) or (3) UNC 0.25-20 x 2.25 long SHCS
06*	(2) or (3) UNC 0.25-20 x 2.25 long SHCS
08*	(2) or (3) UNC 0.25-20 x 2.50 long SHCS
12*	(2) or (3) UNC 0.31-18 x 3.00 long SHCS
16*	(2) or (3) UNC 0.38-16 x 3.50 long SHCS
20*	(2) or (3) UNC 0.50-13 x 4.50 long SHCS
24*	(2) or (3) UNC 0.50-13 x 5.00 long SHCS

Header Manifolds - 0° Design

Header block mounting hardware is supplied.
See page 179 for itemized list.



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Ordering Information

Material	Product Type	Side Port Layout	No. of Stations	Side Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

H	Header Block

Side Port Layout

000	Ports out one side only

No. of Stations

02	Check chart on next page to verify station-port size combinations and stock status
03	
04	
06	
08	
10	

Side Port Threads

01P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926
02P		06S	
04P		08S	
06P		12S	
08P		16S	
12P		20S	
16P		24S	
20P		Check chart on next page to verify station-port size combinations	
24P			

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Daman

Header Manifolds - 0° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
*H0000401P *H0000601P *H0000801P *H0001001P	1.25 [31.8]	5.75 [146.1] 8.25 [209.6] 10.75 [273.1] 13.25 [336.6]	0.63 [16.0]	1.00 [25.4]	1.25 [31.8]	0.17 [4.4]	0.91 [23.0]	0.31 [7.9]	-- 3.81 [96.8] 5.06 [128.6] 6.31 [160.3]	5.13 [130.2] 7.63 [193.7] 10.13 [257.2] 12.63 [320.7]	0.22 [5.6]	4 6 6 6	1/8	--	1/16	--	4 6 8 10
*H0000302P *H0000402P *H0000602P *H0000802P *H0001002P	1.50 [38.1]	5.00 [127.0] 6.38 [161.9] 9.13 [231.8] 11.88 [301.6] 14.63 [371.5]	0.75 [19.1]	1.13 [28.6]	1.38 [35.1]	0.25 [6.4]	1.00 [25.4]	0.31 [7.9]	-- -- 4.25 [108.0] 5.63 [142.9] 7.00 [177.8]	4.38 [111.3] 5.75 [146.1] 8.50 [215.9] 11.25 [285.8] 14.00 [355.6]	0.28 [7.1]	4 4 6 6 6	1/4	--	1/8	--	3 4 6 8 10
H0000304 *H0000404* *H0000604* *H0000804* *H0001004*	1.75 [44.5]	5.63 [142.9] 7.38 [187.3] 10.88 [276.2] 14.38 [365.1] 17.88 [454.0]	0.88 [22.2]	1.06 [27.0]	1.75 [44.5]	0.25 [6.4]	1.25 [31.8]	0.31 [7.9]	-- -- 5.13 [130.2] 6.88 [174.6] 8.63 [219.1]	5.00 [127.0] 6.75 [171.5] 10.25 [260.4] 13.75 [349.3] 17.25 [438.2]	0.28 [7.1]	4 4 6 6 6	3/8	-6	1/4	-4	3 4 6 8 10
*H0000206P *H0000306P *H0000406P *H0000606P *H0000806P *H0001006P	2.00 [50.8]	5.00 [127.0] 7.00 [177.8] 9.00 [228.6] 13.00 [330.2] 17.00 [431.8] 21.00 [533.4]	1.00 [25.4]	1.50 [38.1]	2.00 [50.8]	0.25 [6.4]	1.50 [38.1]	0.31 [7.9]	-- -- -- 6.19 [157.2] 8.19 [208.0] 10.19 [258.8]	4.38 [111.1] 6.38 [161.9] 8.38 [212.7] 12.38 [314.3] 16.38 [415.9] 20.38 [517.5]	0.28 [7.1]	4 4 4 6 6 6	1/2	-8	3/8	-6	2 3 4 6 8 10
*H0000206S *H0000306S *H0000406S *H0000606S *H0000806S *H0001006S	1.75 [44.5]	5.00 [127.0] 7.00 [177.8] 9.00 [228.6] 13.00 [330.2] 17.00 [431.8] 21.00 [533.4]	0.88 [22.2]	1.50 [38.1]	2.00 [50.8]	0.25 [6.4]	1.25 [31.8]	0.31 [7.9]	-- -- -- 6.19 [157.2] 8.19 [208.0] 10.19 [258.8]	4.38 [111.1] 6.38 [161.9] 8.38 [212.7] 12.38 [314.3] 16.38 [415.9] 20.38 [517.5]	0.28 [7.1]	4 4 4 6 6 6	1/2	-8	3/8	-6	2 3 4 6 8 10
*H0000208P *H0000308P *H0000408P *H0000608P *H0000808P *H0001008P	2.00 [50.8]	5.38 [136.5] 7.75 [196.9] 10.13 [257.2] 14.88 [377.8] 19.63 [498.5] 24.38 [619.1]	1.00 [25.4]	1.50 [38.1]	2.38 [60.3]	0.25 [6.4]	1.50 [38.1]	0.31 [7.9]	-- -- -- 7.13 [181.0] 9.50 [241.3] 11.88 [301.6]	4.75 [120.7] 7.13 [181.0] 9.50 [241.3] 14.25 [362.0] 19.00 [482.6] 23.75 [603.3]	0.28 [7.1]	4 4 4 6 6 6	3/4	-12	1/2	-8	2 3 4 6 8 10
*H0000208S *H0000308S *H0000408S *H0000608S *H0000808S *H0001008S	2.25 [57.2]	5.38 [136.5] 7.75 [196.9] 10.13 [257.2] 14.88 [377.8] 19.63 [498.5] 24.38 [619.1]	1.13 [28.6]	1.50 [38.1]	2.38 [60.3]	0.25 [6.4]	1.75 [44.5]	0.31 [7.9]	-- -- -- 7.13 [181.0] 9.50 [241.3] 11.88 [301.6]	4.75 [120.7] 7.13 [181.0] 9.50 [241.3] 14.25 [362.0] 19.00 [482.6] 23.75 [603.3]	0.28 [7.1]	4 4 4 6 6 6	3/4	-12	1/2	-8	2 3 4 6 8 10
H0000212 *H0000312* *H0000412* *H0000612* *H0000812* *H0001012*	2.50 [63.5]	6.88 [174.6] 10.13 [257.2] 13.38 [339.7] 19.88 [504.8] 26.38 [669.9] 32.88 [835.0]	1.25 [31.8]	1.81 [46.0]	3.25 [82.6]	0.28 [7.1]	1.94 [49.2]	0.38 [9.5]	-- -- -- 9.56 [242.9] 12.81 [325.4] 16.06 [408.0]	6.13 [155.6] 9.38 [238.1] 12.63 [320.7] 19.13 [485.8] 25.63 [650.9] 32.13 [816.0]	0.34 [8.7]	4 4 4 6 6 6	1”	-16	3/4	-12	2 3 4 6 8 10
H0000216 *H0000316* *H0000416* *H0000616* *H0000816* *H0001016*	3.00 [76.2]	7.75 [197.0] 11.50 [292.1] 15.25 [387.4] 22.75 [577.9] 30.25 [768.4] 37.75 [958.9]	1.50 [38.1]	2.00 [50.8]	3.75 [95.3]	0.34 [8.7]	2.31 [58.7]	0.38 [9.5]	-- -- -- 11.00 [279.4] 14.75 [374.7] 18.50 [469.9]	7.00 [177.8] 10.75 [273.1] 14.50 [368.3] 22.00 [558.8] 29.50 [749.3] 37.00 [939.8]	0.41 [10.3]	4 4 4 6 6 6	1-1/4	-20	1”	-16	2 3 4 6 8 10
H0000220 *H0000320* *H0000420* *H0000620* *H0000820*	3.50 [88.9]	8.50 [215.9] 12.50 [317.5] 16.50 [419.1] 24.50 [622.3] 32.50 [825.5]	1.75 [44.5]	2.25 [57.2]	4.00 [101.6]	0.41 [10.3]	2.69 [68.3]	0.50 [12.7]	-- -- -- 11.75 [298.5] 15.75 [400.1]	7.50 [190.5] 11.50 [292.1] 15.50 [393.7] 23.50 [596.9] 31.50 [800.1]	0.53 [13.5]	4 4 4 6 6	1-1/2	-24	1-1/4	-20	2 3 4 6 8
*H0000224P *H0000324P *H0000424P *H0000624P	4.00 [101.6]	10.00 [254.0] 15.00 [381.0] 20.00 [508.0] 30.00 [762.0]	2.00 [50.8]	2.50 [63.5]	5.00 [127.0]	0.41 [10.3]	3.19 [81.0]	0.50 [12.7]	-- -- 9.50 [241.3] 14.50 [368.3]	9.00 [228.6] 14.00 [355.6] 19.00 [482.6] 29.00 [736.6]	0.53 [13.5]	4 4 6 6	2”	-32	1-1/2	-24	2 3 4 6
*H0000224S *H0000324S *H0000424S *H0000624S	4.50 [114.3]	10.00 [254.0] 15.00 [381.0] 20.00 [508.0] 30.00 [762.0]	2.25 [57.2]	2.50 [63.5]	5.00 [127.0]	0.41 [10.3]	3.69 [93.7]	0.50 [12.7]	-- -- 9.50 [241.3] 14.50 [368.3]	9.00 [228.6] 14.00 [355.6] 19.00 [482.6] 29.00 [736.6]	0.53 [13.5]	4 4 6 6	2”	-32	1-1/2	-24	2 3 4 6

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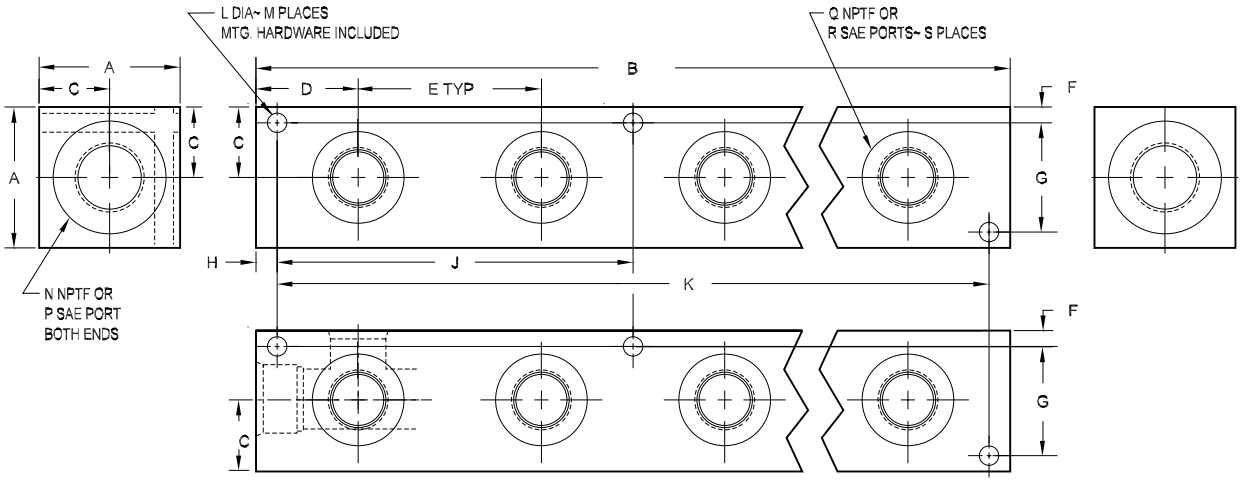
Header Manifolds - 90° Design

Header block mounting hardware is supplied.
See page 179 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.damanifolds.com.

Ordering Information

Material	Product Type	Side Port Layout	No. of Stations	Side Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

H	Header Block

Side Port Layout

090	Ports out two adjacent sides

No. of Stations

02	Check chart on next page to verify station-port size combinations and stock status
03	
04	
06	
08	
10	

Side Port Threads

04P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926
06P		06S	
08P		08S	
12P		12S	
16P		16S	
20P		20S	
24P		24S	

Check chart on next page to verify station-port size combinations

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Header Manifolds - 90° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
H0900304		5.63 [142.9]							--	5.00 [127.0]		4					6
H0900404		7.38 [187.3]							--	6.75 [171.5]		4					8
H0900604	1.75 [44.5]	10.88 [276.2]	0.88 [22.2]	1.06 [27.0]	1.75 [44.5]	0.25 [6.4]	1.25 [31.8]	0.31 [7.9]	5.13 [130.2]	10.25 [260.4]	0.28 [7.1]	6	3/8	-6	1/4	-4	12
H0900804		14.38 [365.1]							6.88 [174.6]	13.75 [349.3]		6					16
H0901004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6					20
*H0900206P		5.00 [127.0]							--	4.38 [111.1]		4					4
*H0900306P		7.00 [177.8]							--	6.38 [161.9]		4					6
*H0900406P	2.00	9.00 [228.6]	1.00	1.50	2.00	0.25	1.50	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H0900606P	[50.8]	13.00 [330.2]	[25.4]	[38.1]	[50.8]	[6.4]	[38.1]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H0900806P		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H0901006P		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H0900206S		5.00 [127.0]							--	4.38 [111.1]		4					4
*H0900306S		7.00 [177.8]							--	6.38 [161.9]		4					6
*H0900406S	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H0900606S	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H0900806S		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H0901006S		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H0900208P		5.38 [136.5]							--	4.75 [120.7]		4					4
*H0900308P		7.75 [196.9]							--	7.13 [181.0]		4					6
*H0900408P	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H0900608P	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H0900808P		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H0901008P		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
*H0900208S		5.38 [136.5]							--	4.75 [120.7]		4					4
*H0900308S		7.75 [196.9]							--	7.13 [181.0]		4					6
*H0900408S	2.25	10.13 [257.2]	1.13	1.50	2.38	0.25	1.75	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H0900608S	[57.2]	14.88 [377.8]	[28.6]	[38.1]	[60.3]	[6.4]	[44.5]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H0900808S		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H0901008S		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
H0900212		6.88 [174.6]							--	6.13 [155.6]		4					4
H0900312		10.13 [257.2]							--	9.38 [238.1]		4					6
H0900412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	1”	-16	3/4	-12	8
H0900612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6					12
H0900812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6					16
H0901012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6					20
H0900216		7.75 [197.0]							--	7.00 [177.8]		4					4
H0900316		11.50 [292.1]							--	10.75 [273.1]		4					6
H0900416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1-1/4	-20	1”	-16	8
H0900616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6					12
H0900816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6					16
H0901016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6					20
H0900220		8.50 [215.9]							--	7.50 [190.5]		4					4
H0900320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/2	-24	1-1/4	-20	6
H0900420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4					8
H0900620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6					12
H0900820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6					16
*H0900224P		10.00 [254.0]							--	9.00 [228.6]		4					4
*H0900324P	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	2”	-32	1-1/2	-24	6
*H0900424P	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H0900624P		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12
*H0900224S		10.00 [254.0]							--	9.00 [228.6]		4					4
*H0900324S	4.50	15.00 [381.0]	2.25	2.50	5.00	0.41	3.69	0.50	--	14.00 [355.6]	0.53	4	2”	-32	1-1/2	-24	6
*H0900424S	[114.3]	20.00 [508.0]	[57.2]	[63.5]	[127.0]	[10.3]	[93.7]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H0900624S		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12

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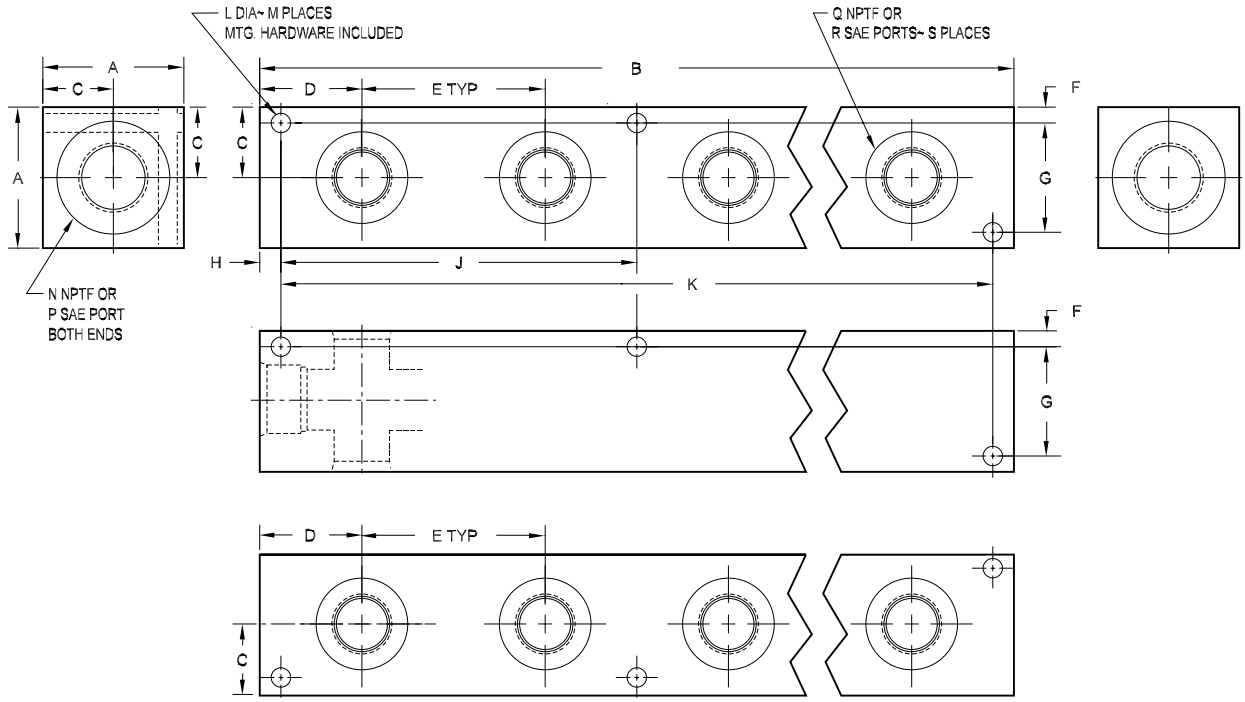
Header Manifolds - 180° Design

Header block mounting hardware is supplied.
See page 179 for itemized list.



Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Product Type	Side Port Layout	No. of Stations	Side Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Side Port Layout

180	Ports out two opposite sides

No. of Stations

02	Check chart on next page to verify station-port size combinations and stock status
03	
04	
06	
08	
10	

Side Port Threads

	NPTF ANSI B1.20.3		SAE ISO 11926 SAE 1926
04P		04S	
06P		06S	
08P		08S	
12P		12S	
16P		16S	
20P		20S	
24P		24S	

Check chart on next page to verify station-port size combinations

Product Type

H	Header Block

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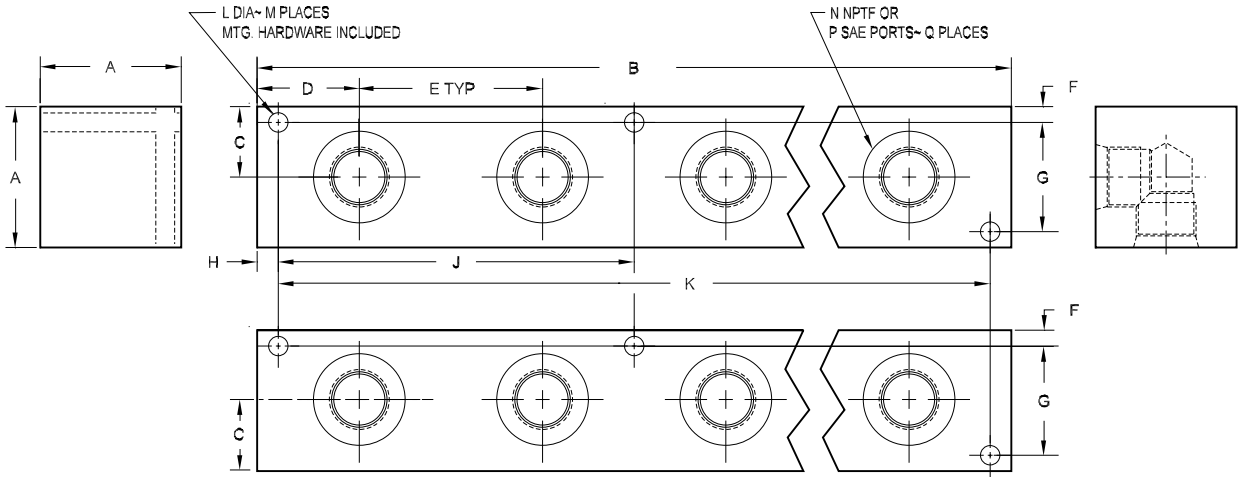
Daman

Header Manifolds - 180° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
H1800304		5.63 [142.9]							--	5.00 [127.0]		4					6
H1800404		7.38 [187.3]							--	6.75 [171.5]	0.28	4					8
H1800604	1.75	10.88 [276.2]	0.88	1.06	1.75	0.25	1.25	0.31	5.13 [130.2]	10.25 [260.4]	[7.1]	6	3/8	-6	1/4	-4	12
H1800804	[44.5]	14.38 [365.1]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	6.88 [174.6]	13.75 [349.3]		6					16
H1801004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6					20
*H1800206P		5.00 [127.0]							--	4.38 [111.1]		4					4
*H1800306P		7.00 [177.8]							--	6.38 [161.9]		4					6
*H1800406P	2.00	9.00 [228.6]	1.00	1.50	2.00	0.25	1.50	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H1800606P	[50.8]	13.00 [330.2]	[25.4]	[38.1]	[50.8]	[6.4]	[38.1]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H1800806P		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H1801006P		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H1800206S		5.00 [127.0]							--	4.38 [111.1]		4					4
*H1800306S		7.00 [177.8]							--	6.38 [161.9]		4					6
*H1800406S	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	1/2	-8	3/8	-6	8
*H1800606S	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6					12
*H1800806S		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6					16
*H1801006S		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6					20
*H1800208P		5.38 [136.5]							--	4.75 [120.7]		4					4
*H1800308P		7.75 [196.9]							--	7.13 [181.0]		4					6
*H1800408P	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H1800608P	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H1800808P		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H1801008P		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
*H1800208S		5.38 [136.5]							--	4.75 [120.7]		4					4
*H1800308S		7.75 [196.9]							--	7.13 [181.0]		4					6
*H1800408S	2.25	10.13 [257.2]	1.13	1.50	2.38	0.25	1.75	0.31	--	9.50 [241.3]	0.28	4	3/4	-12	1/2	-8	8
*H1800608S	[57.2]	14.88 [377.8]	[28.6]	[38.1]	[60.3]	[6.4]	[44.5]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6					12
*H1800808S		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6					16
*H1801008S		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6					20
H1800212		6.88 [174.6]							--	6.13 [155.6]		4					4
H1800312		10.13 [257.2]							--	9.38 [238.1]		4					6
H1800412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	1”	-16	3/4	-12	8
H1800612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6					12
H1800812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6					16
H1801012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6					20
H1800216		7.75 [197.0]							--	7.00 [177.8]		4					4
H1800316		11.50 [292.1]							--	10.75 [273.1]		4					6
H1800416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1-1/4	-20	1”	-16	8
H1800616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6					12
H1800816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6					16
H1801016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6					20
H1800220		8.50 [215.9]							--	7.50 [190.5]		4					4
H1800320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/2	-24	1-1/4	-20	6
H1800420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4					8
H1800620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6					12
H1800820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6					16
*H1800224P		10.00 [254.0]							--	9.00 [228.6]		4					4
*H1800324P	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	2”	-32	1-1/2	-24	6
*H1800424P	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H1800624P		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12
*H1800224S		10.00 [254.0]							--	9.00 [228.6]		4					4
*H1800324S	4.50	15.00 [381.0]	2.25	2.50	5.00	0.41	3.69	0.50	--	14.00 [355.6]	0.53	4	2”	-32	1-1/2	-24	6
*H1800424S	[114.3]	20.00 [508.0]	[57.2]	[63.5]	[127.0]	[10.3]	[93.7]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6					8
*H1800624S		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6					12

Junction Manifolds - 90° Design

Junction block mounting hardware is supplied.
See page 179 for itemized list.



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Ordering Information

Material	Product Type	Side Port Layout	No. of Stations	Side Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

J	Junction Block

Side Port Layout

090	Ports out two adjacent sides

No. of Stations

02	Check chart on next page to verify station-port size combinations and stock status
03	
04	
06	
08	
10	

Side Port Threads

	NPTF ANSI B1.20.3		SAE ISO 11926 SAE 1926
04P		04S	
06P		06S	
08P		08S	
12P		12S	
16P		16S	
20P		20S	
24P		24S	

Check chart on next page to verify station-port size combinations

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Junction Manifolds - 90° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
J0900304		5.63 [142.9]							--	5.00 [127.0]		4			6
J0900404	1.75	7.38 [187.3]	0.88	1.06	1.75	0.25	1.25	0.31	--	6.75 [171.5]	0.28	4	1/4	-4	8
J0900604	[44.5]	10.88 [276.2]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	5.13 [130.2]	10.25 [260.4]	[7.1]	6			12
J0900804		14.38 [365.1]							6.88 [174.6]	13.75 [349.3]		6			16
J0901004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6			20
J0900206		5.00 [127.0]							--	4.38 [111.1]		4			4
J0900306		7.00 [177.8]							--	6.38 [161.9]		4			6
J0900406	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	3/8	-6	8
J0900606	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6			12
J0900806		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6			16
J0901006		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6			20
J0900208		5.38 [136.5]							--	4.75 [120.7]		4			4
J0900308		7.75 [196.9]							--	7.13 [181.0]		4			6
J0900408	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	1/2	-8	8
J0900608	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6			12
J0900808		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6			16
J0901008		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6			20
J0900212		6.88 [174.6]							--	6.13 [155.6]		4			4
J0900312		10.13 [257.2]							--	9.38 [238.1]		4			6
J0900412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	3/4	-12	8
J0900612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6			12
J0900812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6			16
J0901012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6			20
J0900216		7.75 [197.0]							--	7.00 [177.8]		4			4
J0900316		11.50 [292.1]							--	10.75 [273.1]		4			6
J0900416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1”	-16	8
J0900616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6			12
J0900816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6			16
J0901016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6			20
J0900220		8.50 [215.9]							--	7.50 [190.5]		4			4
J0900320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/4	-20	6
J0900420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4			8
J0900620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6			12
J0900820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6			16
J0900224		10.00 [254.0]							--	9.00 [228.6]		4			4
J0900324	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	1-1/2	-24	6
J0900424	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6			8
J0900624		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6			12

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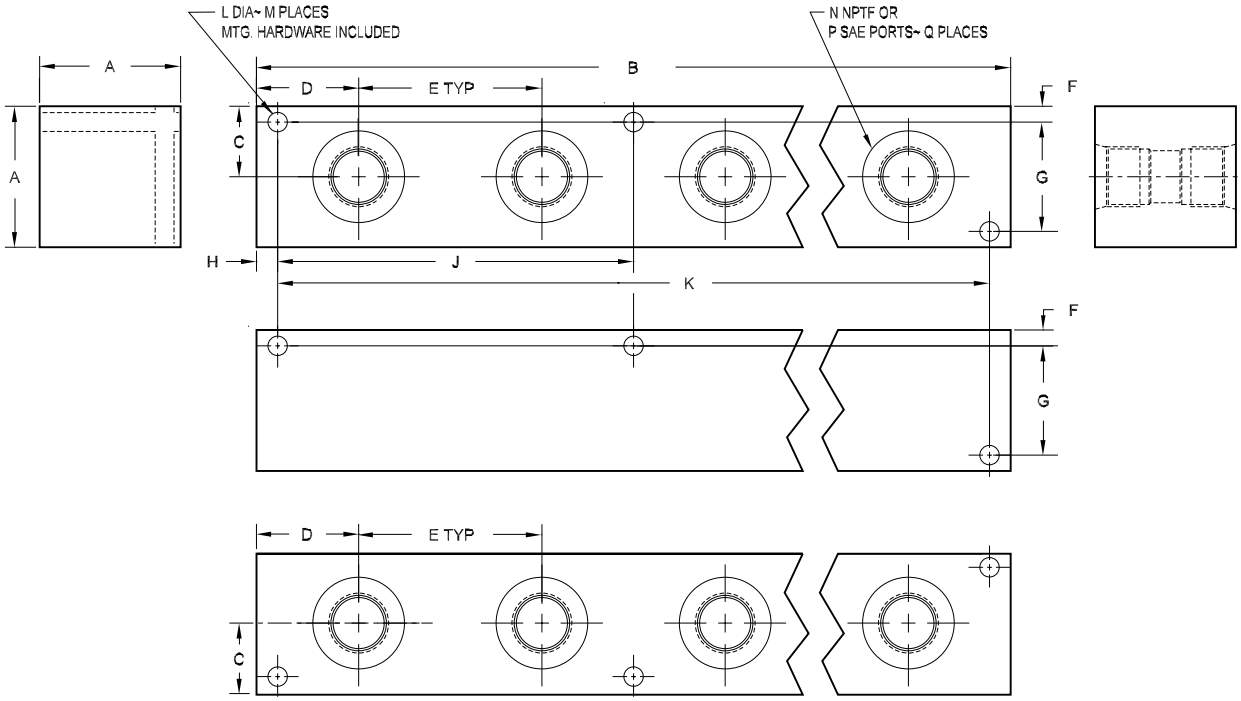
Junction Manifolds - 180° Design

Junction block mounting hardware is supplied.
See page 179 for itemized list.



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Ordering Information

Material	Product Type	Side Port Layout	No. of Stations	Side Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

J	Junction Block

Side Port Layout

180	Ports out two opposite sides

No. of Stations

02	Check chart on next page to verify station-port size combinations
03	
04	
06	
08	
10	

Side Port Threads

04P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926
06P		06S	
08P		08S	
12P		12S	
16P		16S	
20P		20S	
24P		24S	

Check chart on next page to verify station-port size combinations

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Junction Manifolds - 180° Design

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
J1800304		5.63 [142.9]							--	5.00 [127.0]		4			6
J1800404	1.75	7.38 [187.3]	0.88	1.06	1.75	0.25	1.25	0.31	--	6.75 [171.5]	0.28	4	1/4	-4	8
J1800604	[44.5]	10.88 [276.2]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	5.13 [130.2]	10.25 [260.4]	[7.1]	6			12
J1800804		14.38 [365.1]							6.88 [174.6]	13.75 [349.3]		6			16
J1801004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6			20
J1800206		5.00 [127.0]							--	4.38 [111.1]		4			4
J1800306		7.00 [177.8]							--	6.38 [161.9]		4			6
J1800406	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	3/8	-6	8
J1800606	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6			12
J1800806		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6			16
J1801006		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6			20
J1800208		5.38 [136.5]							--	4.75 [120.7]		4			4
J1800308		7.75 [196.9]							--	7.13 [181.0]		4			6
J1800408	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	1/2	-8	8
J1800608	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6			12
J1800808		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6			16
J1801008		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6			20
J1800212		6.88 [174.6]							--	6.13 [155.6]		4			4
J1800312		10.13 [257.2]							--	9.38 [238.1]		4			6
J1800412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	3/4	-12	8
J1800612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6			12
J1800812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6			16
J1801012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6			20
J1800216		7.75 [197.0]							--	7.00 [177.8]		4			4
J1800316		11.50 [292.1]							--	10.75 [273.1]		4			6
J1800416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1”	-16	8
J1800616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6			12
J1800816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6			16
J1801016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6			20
J1800220		8.50 [215.9]							--	7.50 [190.5]		4			4
J1800320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/4	-20	6
J1800420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4			8
J1800620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6			12
J1800820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6			16
J1800224		10.00 [254.0]							--	9.00 [228.6]		4			4
J1800324	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	1-1/2	-24	6
J1800424	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6			8
J1800624		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6			12

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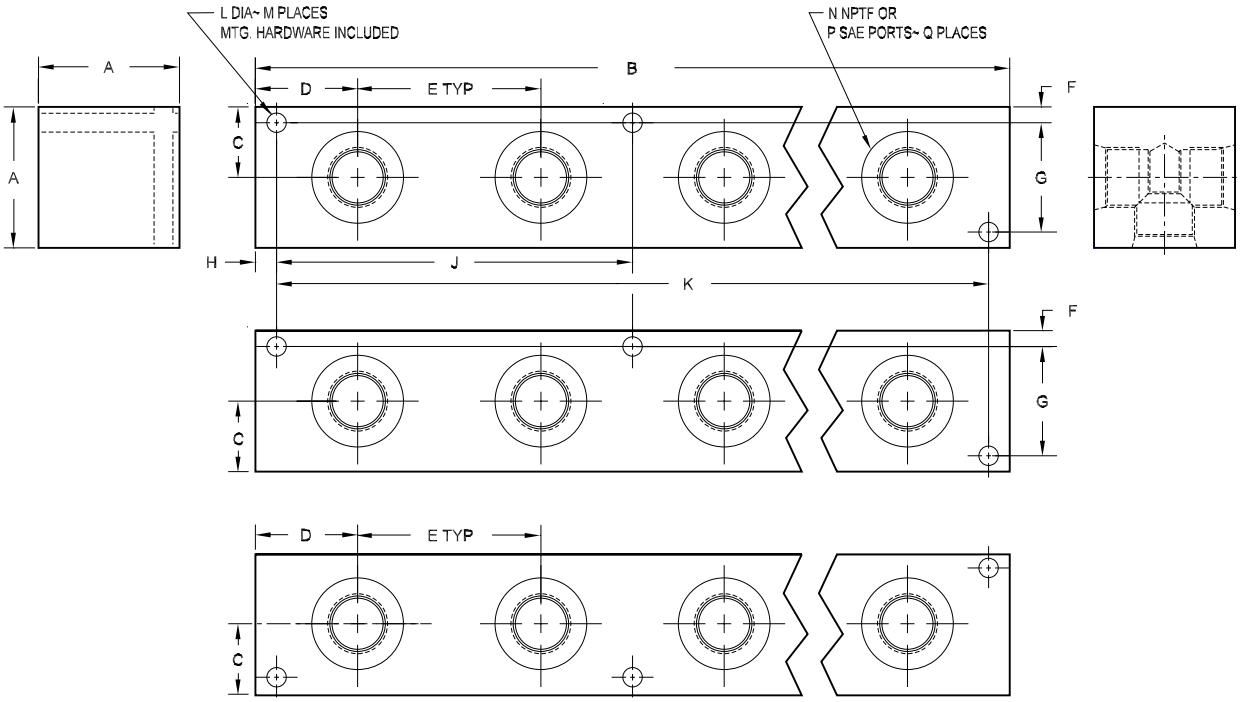
Junction Manifolds - 270° Design

Junction block mounting hardware is supplied.
See page 179 for itemized list.



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Ordering Information

Material	Product Type	Side Port Layout	No. of Stations	Side Port Threads

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Product Type

J	Junction Block

Side Port Layout

270	Ports out three adjacent sides

No. of Stations

02	Check chart on next page to verify station-port size combinations
03	
04	
06	
08	
10	

Side Port Threads

04P	NPTF ANSI B1.20.3	04S	SAE ISO 11926 SAE 1926
06P		06S	
08P		08S	
12P		12S	
16P		16S	
20P		20S	
24P		24S	

Check chart on next page to verify station-port size combinations

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Junction Manifolds - 270° Design

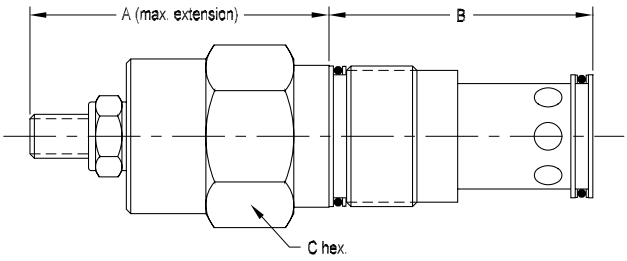
PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
J2700304		5.63 [142.9]							--	5.00 [127.0]		4			9
J2700404	1.75	7.38 [187.3]	0.88	1.06	1.75	0.25	1.25	0.31	--	6.75 [171.5]	0.28	4	1/4	-4	12
J2700604	[44.5]	10.88 [276.2]	[22.2]	[27.0]	[44.5]	[6.4]	[31.8]	[7.9]	5.13 [130.2]	10.25 [260.4]	[7.1]	6			18
J2700804		14.38 [365.1]							6.88 [174.6]	13.75 [349.3]		6			24
J2701004		17.88 [454.0]							8.63 [219.1]	17.25 [438.2]		6			30
J2700206		5.00 [127.0]							--	4.38 [111.1]		4			6
J2700306		7.00 [177.8]							--	6.38 [161.9]		4			9
J2700406	1.75	9.00 [228.6]	0.88	1.50	2.00	0.25	1.25	0.31	--	8.38 [212.7]	0.28	4	3/8	-6	12
J2700606	[44.5]	13.00 [330.2]	[22.2]	[38.1]	[50.8]	[6.4]	[31.8]	[7.9]	6.19 [157.2]	12.38 [314.3]	[7.1]	6			18
J2700806		17.00 [431.8]							8.19 [208.0]	16.38 [415.9]		6			24
J2701006		21.00 [533.4]							10.19 [258.8]	20.38 [517.5]		6			30
J2700208		5.38 [136.5]							--	4.75 [120.7]		4			6
J2700308		7.75 [196.9]							--	7.13 [181.0]		4			9
J2700408	2.00	10.13 [257.2]	1.00	1.50	2.38	0.25	1.50	0.31	--	9.50 [241.3]	0.28	4	1/2	-8	12
J2700608	[50.8]	14.88 [377.8]	[25.4]	[38.1]	[60.3]	[6.4]	[38.1]	[7.9]	7.13 [181.0]	14.25 [362.0]	[7.1]	6			18
J2700808		19.63 [498.5]							9.50 [241.3]	19.00 [482.6]		6			24
J2701008		24.38 [619.1]							11.88 [301.6]	23.75 [603.3]		6			30
J2700212		6.88 [174.6]							--	6.13 [155.6]		4			6
J2700312		10.13 [257.2]							--	9.38 [238.1]		4			9
J2700412	2.50	13.38 [339.7]	1.25	1.81	3.25	0.28	1.94	0.38	--	12.63 [320.7]	0.34	4	3/4	-12	12
J2700612	[63.5]	19.88 [504.8]	[31.8]	[46.0]	[82.6]	[7.1]	[49.2]	[9.5]	9.56 [242.9]	19.13 [485.8]	[8.7]	6			18
J2700812		26.38 [669.9]							12.81 [325.4]	25.63 [650.9]		6			24
J2701012		32.88 [835.0]							16.06 [408.0]	32.13 [816.0]		6			30
J2700216		7.75 [197.0]							--	7.00 [177.8]		4			6
J2700316		11.50 [292.1]							--	10.75 [273.1]		4			9
J2700416	3.00	15.25 [387.4]	1.50	2.00	3.75	0.34	2.31	0.38	--	14.50 [368.3]	0.41	4	1”	-16	12
J2700616	[76.2]	22.75 [577.9]	[38.1]	[50.8]	[95.3]	[8.7]	[58.7]	[9.5]	11.00 [279.4]	22.00 [558.8]	[10.3]	6			18
J2700816		30.25 [768.4]							14.75 [374.7]	29.50 [749.3]		6			24
J2701016		37.75 [958.9]							18.50 [469.9]	37.00 [939.8]		6			30
J2700220		8.50 [215.9]							--	7.50 [190.5]		4			6
J2700320	3.50	12.50 [317.5]	1.75	2.25	4.00	0.41	2.69	0.50	--	11.50 [292.1]	0.53	4	1-1/4	-20	9
J2700420	[88.9]	16.50 [419.1]	[44.5]	[57.2]	[101.6]	[10.3]	[68.3]	[12.7]	--	15.50 [393.7]	[13.5]	4			12
J2700620		24.50 [622.3]							11.75 [298.5]	23.50 [596.9]		6			18
J2700820		32.50 [825.5]							15.75 [400.1]	31.50 [800.1]		6			24
J2700224		10.00 [254.0]							--	9.00 [228.6]		4			6
J2700324	4.00	15.00 [381.0]	2.00	2.50	5.00	0.41	3.19	0.50	--	14.00 [355.6]	0.53	4	1-1/2	-24	9
J2700424	[101.6]	20.00 [508.0]	[50.8]	[63.5]	[127.0]	[10.3]	[81.0]	[12.7]	9.50 [241.3]	19.00 [482.6]	[13.5]	6			12
J2700624		30.00 [762.0]							14.50 [368.3]	29.00 [736.6]		6			18

Hydraulic Valve Manifolds

Better System Design Begins with a Manifold.

TECHNICAL INFORMATION

Relief Valves



Valve	A max.	B	C hex
RPCC	2.11 [53.6]	1.22 [31.0]	0.75 [19.1]
RPEC	2.00 [50.8]	1.56 [39.7]	0.88 [22.2]
RPGC	2.12 [54.0]	1.88 [47.6]	1.12 [28.6]
RPIC	2.44 [61.9]	2.44 [61.9]	1.25 [31.8]

Sun Valve Application Chart

Manifolds		Subplates	
*D02P****/S	RPCC-L*V	*D03SPRVS***	RPEC-L*V
*D02S****/S	RPCC-L*V	*D03SPCRS***	RPEC-L*V
*D03P****/S	RPEC-L*V	*D05SPRVS8*	RPEC-L*V
*D03HP****/S	RPGC-L*V	*D05SPCRS8*	RPEC-L*V
*D03S****/S	RPEC-L*V		
		D05HSPRVS12	RPGC-L*V
*D05P****/S	RPGC-L*V	*D05HSPCRS12*	RPGC-L*V
*D05HP****/S	RPGC-L*V		
*D05JP****/S	RPIC-L*V	*D05JSPRVS16*	RPIC-L*V
*D05S02**/S	RPGC-L*V	*D05JSPCRS16*	RPIC-L*V
*D07P****/S	RPGC-L*V	*D07SPRVS12*	RPGC-L*V
*D07HP****/S	RPIC-L*V	*D07HSPRV16*	RPIC-L*V
*D08P****/S	RPGC-L*V	*D08SPRVS16*	RPGC-L*V
*D08HP****/S	RPIC-L*V	*D08SPRVS20*	RPIC-L*V

Note: We stock a limited number of Sun relief valves through their NFPA member policy, but we are not a Sun distributor. Any technical or performance questions should be addressed to Sun or one of their authorized distributors.

Ordering Information

Inventory Number	—	Bracket Size	Riser

999

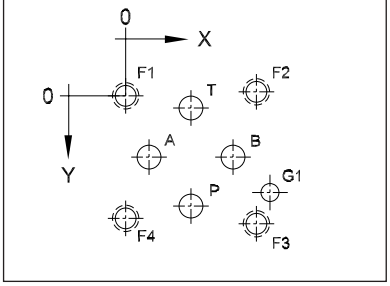
Sun Model Code	
RPCC	Cavity T-162A 0 to 12 GPM
RPEC	Cavity T-10A 0 to 25 GPM
RPGC	Cavity T-3A 0 to 50 GPM
RPIC	Cavity T-16A 0 to 100 GPM

Adjustment Range	
LAV	100 to 3000 psi 1000 std. setting
LBV	50 to 1500 psi 1000 std. setting
LCV	150 to 6000 psi 1000 std. setting

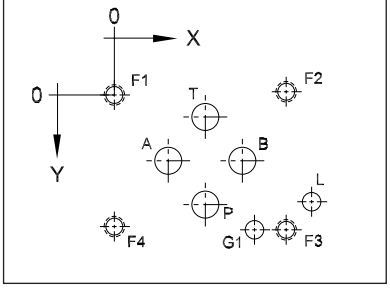
Directional Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Some holes are added per industry convention. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

D02 ISO 4401-02-01-0-94
NFPA T3.5.1 R2-2002 D02



D03 ISO 4401-03-02-0-94
NFPA T3.5.1 R2-2002 D03



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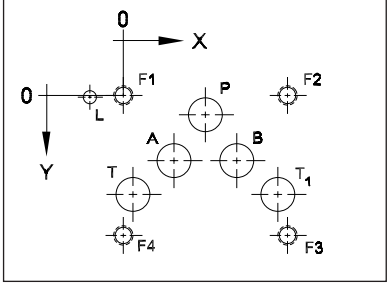
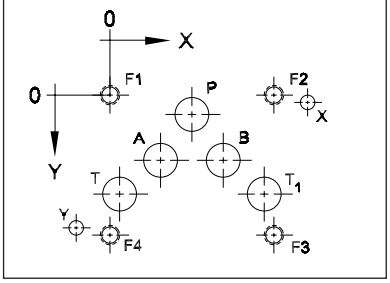
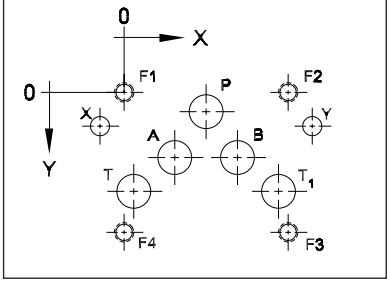
NFPA T3.5.1 R2-2002 D05



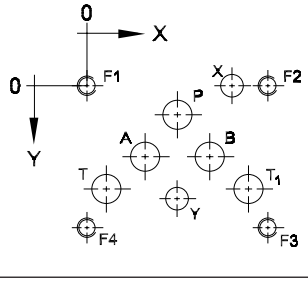
D05H NFPA T3.5.1 R2-2002
D05 - Alternative B



D05HE ISO 4401-05-05-0-94
NFPA T3.5.1 R2-2002 D05 - Alternative A



D06 NFPA T3.5.1 R2-2002 D06



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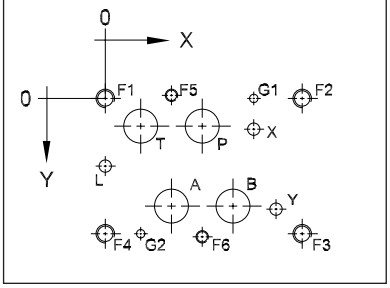
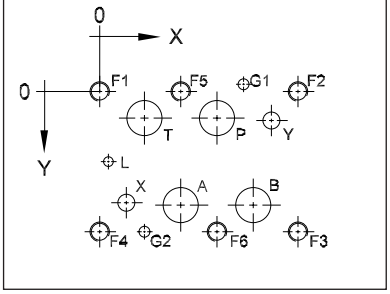
NFPA T3.5.1 R2-2002 D07



D08 ISO 4401-08-07-0-94
NFPA T3.5.1 R2-2002 D08



D10 ISO 4401-10-08-0-94
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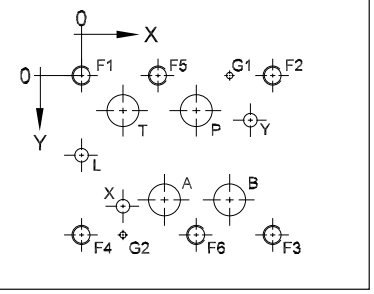

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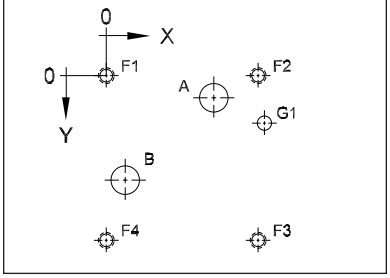
International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

Pattern	Axis	P	A	T	T_1	B	X	Y	L	F1	F2	F3	F4	F5	F6	G1	G2
D02	X	0.472 [12.0]	0.169 [4.3]	0.472 [12.0]	--	0.776 [19.7]	--	--	--	0 [0]	0.945 [24.0]	0.945 [24.0]	0 [0]	--	--	1.043 [26.5]	--
	Y	0.797 [20.25]	0.443 [11.25]	0.089 [2.25]	--	0.443 [11.25]	--	--	--	0 [0]	-0.030 [-0.75]	0.915 [23.25]	0.886 [22.5]	--	--	0.699 [17.75]	--
	ϕ (max)	0.177 [4.5]	0.177 [4.5]	0.177 [4.5]	--	0.177 [4.5]	--	--	--	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	0.134 [3.4]	--
D03	X	0.847 [21.5]	0.500 [12.7]	0.847 [21.5]	--	1.189 [30.2]	--	--	1.831 [46.5]	0 [0]	1.595 [40.5]	1.595 [40.5]	0 [0]	--	--	1.299 [33.0]	--
	Y	1.020 [25.9]	0.610 [15.5]	0.201 [5.1]	--	0.610 [15.5]	--	--	0.988 [25.1]	0 [0]	-0.030 [-0.75]	1.250 [31.75]	1.221 [31.0]	--	--	1.250 [31.75]	--
	ϕ (max)	0.295 [7.5]	0.295 [7.5]	0.295 [7.5]	--	0.295 [7.5]	--	--	0.158 [4.0]	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	0.158 [4.0]	--
D05	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	--	--	-0.433 [-11.0]	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	--	--	0.020 [0.5]	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	--	--	0.177 [4.5]	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--
D05H	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	2.563 [65.1]	-0.441 [-11.2]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.095 [2.4]	1.721 [43.7]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.189 [4.8]	0.189 [4.8]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--
D05HE	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.315 [-8.0]	2.441 [62.0]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.433 [11.0]	0.433 [11.0]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.248 [6.3]	0.248 [6.3]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--
D06	X	1.750 [44.45]	1.120 [28.45]	0.380 [9.65]	3.120 [79.25]	2.380 [60.45]	2.811 [71.4]	1.750 [44.45]	--	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--	--	--
	Y	0.561 [14.25]	1.380 [35.05]	2.000 [50.8]	2.000 [50.8]	1.380 [35.05]	0 [0]	2.180 [55.37]	--	0 [0]	0 [0]	2.750 [69.85]	2.750 [69.85]	--	--	--	--
	ϕ (max)	0.579 [14.7]	0.579 [14.7]	0.579 [14.7]	0.579 [14.7]	0.579 [14.7]	0.441 [11.2]	0.441 [11.2]	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--
D07	X	1.969 [50.0]	1.343 [34.1]	0.721 [18.3]	--	2.595 [65.9]	3.016 [76.6]	3.469 [88.1]	0 [0]	0 [0]	4.000 [101.6]	4.000 [101.6]	0 [0]	1.343 [34.1]	1.969 [50.0]	3.016 [76.6]	0.721 [18.3]
	Y	0.563 [14.3]	2.189 [55.6]	0.563 [14.3]	--	2.189 [55.6]	0.626 [15.9]	2.252 [57.2]	1.374 [34.9]	0 [0]	0 [0]	2.752 [69.9]	2.752 [69.9]	-0.063 [-1.6]	2.815 [71.5]	0 [0]	2.752 [69.9]
	ϕ (max)	0.689 [17.5]	0.689 [17.5]	0.689 [17.5]	--	0.689 [17.5]	0.248 [6.3]	0.248 [6.3]	0.248 [6.3]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	.25-20 M6	.25-20 M6	0.158 [4.0]	0.158 [4.0]
D08	X	3.032 [77.0]	2.095 [53.2]	1.158 [29.4]	--	3.969 [100.8]	0.689 [17.5]	4.437 [112.7]	0.221 [5.6]	0 [0]	5.126 [130.2]	5.126 [130.2]	0 [0]	2.095 [53.2]	3.032 [77.0]	3.721 [94.5]	1.158 [29.4]
	Y	0.689 [17.5]	2.937 [74.6]	0.689 [17.5]	--	2.937 [74.6]	2.874 [73.0]	0.748 [19.0]	1.811 [46.0]	0 [0]	0 [0]	3.626 [92.1]	3.626 [92.1]	0 [0]	3.626 [92.1]	-0.189 [-4.8]	3.626 [92.1]
	ϕ (max)	0.984 [25.0]	0.984 [25.0]	0.984 [25.0]	--	0.984 [25.0]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	0.295 [7.5]	0.295 [7.5]
D10	X	4.500 [114.3]	3.248 [82.5]	1.626 [41.3]	--	5.811 [147.6]	1.626 [41.3]	6.626 [168.3]	0 [0]	0 [0]	7.500 [190.5]	7.500 [190.5]	0 [0]	3.000 [76.2]	4.500 [114.3]	5.457 [138.6]	1.626 [41.3]
	Y	1.378 [35.0]	4.874 [123.8]	1.378 [35.0]	--	4.874 [123.8]	5.126 [130.2]	1.752 [44.5]	3.126 [79.4]	0 [0]	0 [0]	6.252 [158.8]	6.252 [158.8]	0 [0]	6.252 [158.8]	0 [0]	6.252 [158.8]
	ϕ (max)	1.260 [32.0]	1.260 [32.0]	1.260 [32.0]	--	1.260 [32.0]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	.75-10 M20	.75-10 M20	.75-10 M20	.75-10 M20	.75-10 M20	.75-10 M20	0.295 [7.5]	0.295 [7.5]

Non-Directional Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Some holes are added per industry convention. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

2F06 ISO 6263-06-05-*-97
NFPA T3.5.1 R2-2002 2F06



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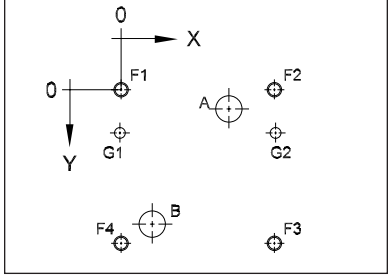

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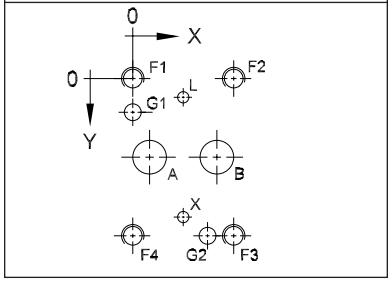

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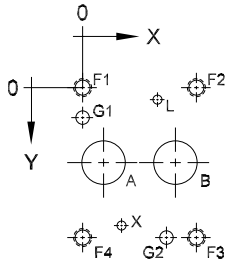

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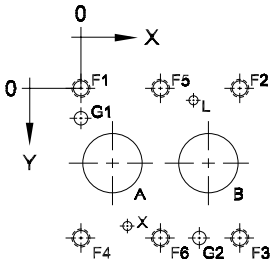

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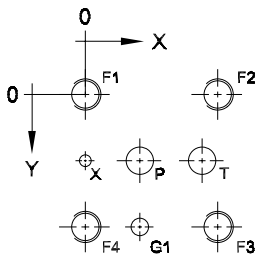

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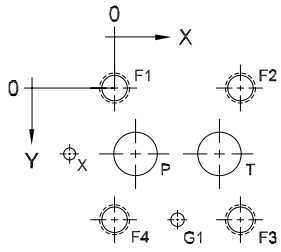

R10 ISO 6264-10-17-*-97
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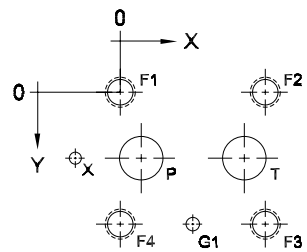
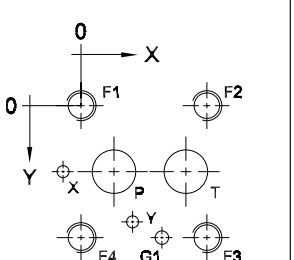


I08 NFPA T3.5.1-
(RV08) R2-2002 RV08



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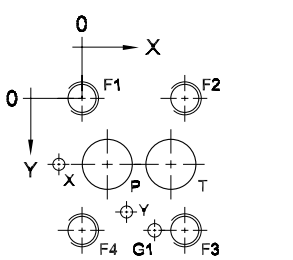
(RV10) R2-2002 RV10



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Pattern	Axis	A	B	P	T	X	L	F1	F2	F3	F4	F5	F6	G1	G2
2F06	X	2.126 [54.0]	0.374 [9.5]	--	--	--	--	0 [0]	3.000 [76.2]	3.000 [76.2]	0 [0]	--	--	3.126 [79.4]	--
	Y	0.437 [11.1]	2.063 [52.4]	--	--	--	--	0 [0]	0 [0]	3.252 [82.6]	3.252 [82.6]	--	--	0.937 [23.8]	--
	ϕ (max)	0.579 [14.7]	0.579 [14.7]	--	--	--	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	0.295 [7.5]	--
2F07	X	2.953 [75.0]	0.811 [20.6]	--	--	--	--	0 [0]	4.000 [101.6]	4.000 [101.6]	0 [0]	--	--	-0.032 [-0.8]	4.032 [102.4]
	Y	0.437 [11.1]	3.406 [86.5]	--	--	--	--	0 [0]	0 [0]	4.000 [101.6]	4.000 [101.6]	--	--	1.126 [28.6]	1.126 [28.6]
	ϕ (max)	0.689 [17.5]	0.689 [17.5]	--	--	--	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	0.409 [10.4]	0.409 [10.4]
P06	X	0.280 [7.1]	1.406 [35.7]	--	--	0.843 [21.4]	0.843 [21.4]	0 [0]	1.689 [42.9]	1.689 [42.9]	0 [0]	--	--	0 [0]	1.252 [31.8]
	Y	1.311 [33.3]	1.311 [33.3]	--	--	2.311 [58.7]	0.311 [7.9]	0 [0]	0 [0]	2.626 [66.7]	2.626 [66.7]	--	--	0.563 [14.3]	2.626 [66.7]
	ϕ (max)	0.579 [14.7]	0.579 [14.7]	--	--	0.189 [4.8]	0.189 [4.8]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	0.295 [7.5]	0.295 [7.5]
P08	X	0.437 [11.1]	1.937 [49.2]	--	--	0.819 [20.8]	1.563 [39.7]	0 [0]	2.374 [60.3]	2.374 [60.3]	0 [0]	--	--	0 [0]	1.752 [44.5]
	Y	1.563 [39.7]	1.563 [39.7]	--	--	2.874 [73.0]	0.252 [6.4]	0 [0]	0 [0]	3.126 [79.4]	3.126 [79.4]	--	--	0.626 [15.9]	3.126 [79.4]
	ϕ (max)	0.921 [23.4]	0.921 [23.4]	--	--	0.189 [4.8]	0.189 [4.8]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	0.295 [7.5]	0.295 [7.5]
P10	X	0.658 [16.7]	2.658 [67.5]	--	--	0.969 [24.6]	2.347 [59.6]	0 [0]	3.311 [84.1]	3.311 [84.1]	0 [0]	1.658 [42.1]	1.658 [42.1]	0 [0]	2.469 [62.7]
	Y	1.906 [48.4]	1.906 [48.4]	--	--	3.658 [92.9]	0.158 [4.0]	0 [0]	0 [0]	3.811 [96.8]	3.811 [96.8]	0 [0]	3.811 [96.8]	0.843 [21.4]	3.811 [96.8]
	ϕ (max)	1.260 [32.0]	1.260 [32.0]	--	--	0.189 [4.8]	0.189 [4.8]	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	0.295 [7.5]	0.295 [7.5]
R06 (I06)	X	--	--	0.870 [22.1]	1.870 [47.5]	0 [0]	--	0 [0]	2.118 [53.8]	2.118 [53.8]	0 [0]	--	--	0.870 [22.1]	--
	Y	--	--	1.059 [26.9]	1.059 [26.9]	1.059 [26.9]	--	0 [0]	0 [0]	2.118 [53.8]	2.118 [53.8]	--	--	2.118 [53.8]	--
	ϕ (max)	--	--	0.579 [14.7]	0.579 [14.7]	0.189 [4.8]	--	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	--	--	0.295 [7.5]	--
R08	X	--	--	0.437 [11.1]	2.189 [55.6]	-0.937 [-23.8]	--	0 [0]	2.626 [66.7]	2.626 [66.7]	0 [0]	--	--	1.315 [33.4]	--
	Y	--	--	1.378 [35.0]	1.378 [35.0]	1.378 [35.0]	--	0 [0]	0 [0]	2.756 [70.0]	2.756 [70.0]	--	--	2.756 [70.0]	--
	ϕ (max)	--	--	0.921 [23.4]	0.921 [23.4]	0.248 [6.3]	--	.63-11 M16	.63-11 M16	.63-11 M16	.63-11 M16	--	--	0.295 [7.5]	--
R10	X	--	--	0.500 [12.7]	3.000 [76.2]	-1.252 [-31.8]	--	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--	1.752 [44.5]	--
	Y	--	--	1.626 [41.3]	1.626 [41.3]	1.626 [41.3]	--	0 [0]	0 [0]	3.252 [82.6]	3.252 [82.6]	--	--	3.252 [82.6]	--
	ϕ (max)	--	--	1.260 [32.0]	1.260 [32.0]	0.248 [6.3]	--	.75-10 M18	.75-10 M18	.75-10 M18	.75-10 M18	--	--	0.295 [7.5]	--
I08 (RV08)	X	--	--	0.689 [17.5]	2.189 [55.6]	-0.374 [-9.5]	1.441 [36.6]	0 [0]	2.626 [66.7]	2.626 [66.7]	0 [0]	--	--	1.689 [42.9]	--
	Y	--	--	1.378 [35.0]	1.378 [35.0]	1.378 [35.0]	2.248 [57.1]	0 [0]	0 [0]	2.756 [70.0]	2.756 [70.0]	--	--	2.756 [70.0]	--
	ϕ (max)	--	--	0.921 [23.4]	0.921 [23.4]	0.248 [6.3]	0.248 [6.3]	.63-11 M16	.63-11 M16	.63-11 M16	.63-11 M16	--	--	0.295 [7.5]	--
I10 (RV10)	X	--	--	0.563 [14.3]	2.311 [58.7]	-0.626 [-15.9]	1.248 [31.8]	0 [0]	2.626 [66.7]	2.626 [66.7]	0 [0]	--	--	2.000 [50.8]	--
	Y	--	--	1.811 [46.0]	1.811 [46.0]	1.811 [46.0]	3.185 [80.9]	0 [0]	0 [0]	3.626 [92.1]	3.626 [92.1]	--	--	3.626 [92.1]	--
	ϕ (max)	--	--	1.260 [32.0]	1.260 [32.0]	0.248 [6.3]	0.248 [6.3]	.75-10 M18	.75-10 M18	.75-10 M18	.75-10 M18	--	--	0.295 [7.5]	--

Servo Valve Patterns

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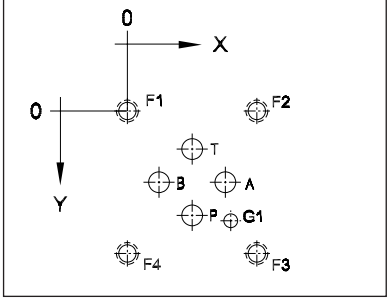
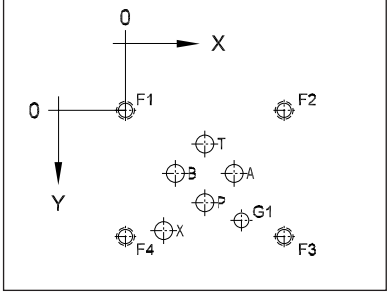
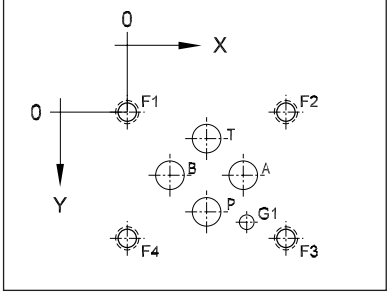
S01 ISO 10372-01-01-0-92
0.480 port circle



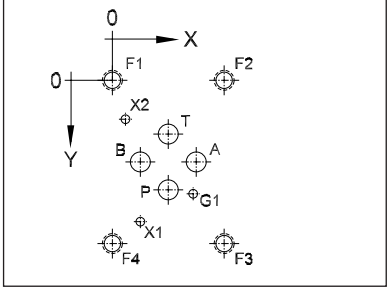
S02 ISO 10372-02-02-0-92
0.625 port circle



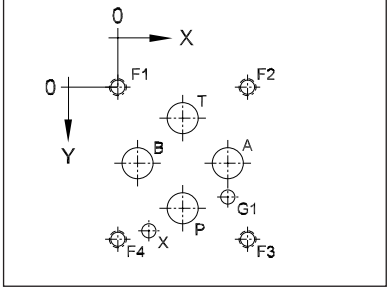
S03 ISO 10372-03-03-0-92
0.780 port circle



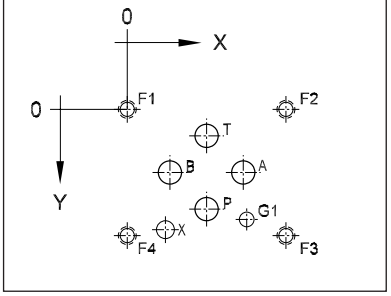
S04 ISO 10372-04-04-0-92
0.875 port circle



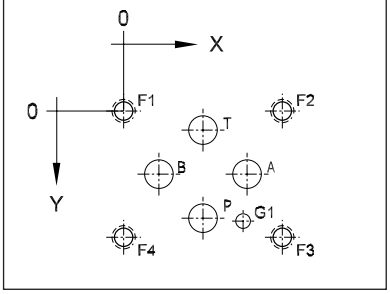
S06 ISO 10372-06-05-0-92
2.000 port circle



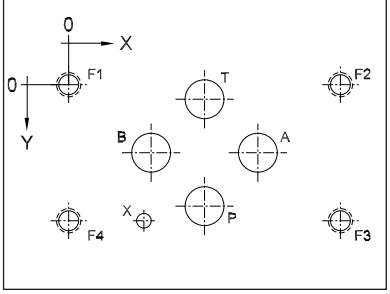
S71 0.780 port circle



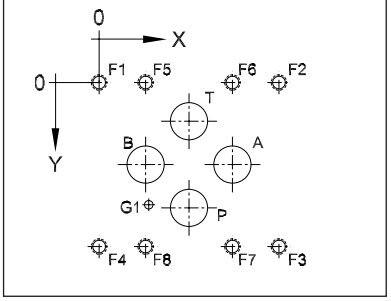
S72 0.938 port circle



S73 1.375 port circle



S74 1.750 port circle



Servo patterns continued pages 200-205

Daman Products Company, Inc.
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Pattern	Axis	P	A	T	B	X1	X2	F1	F2	F3	F4	F5	F6	F7	F8	G1
S01	X	0.469 [11.9]	0.709 [18.0]	0.469 [11.9]	0.228 [5.8]	--	--	0 [0]	0.937 [23.8]	0.937 [23.8]	0 [0]	--	--	--	--	0.748 [19.0]
	Y	0.756 [19.2]	0.516 [13.1]	0.276 [7.0]	0.516 [13.1]	--	--	0 [0]	0 [0]	1.032 [26.2]	1.032 [26.2]	--	--	--	--	0.795 [20.2]
	ϕ (max)	0.150 [3.8]	0.150 [3.8]	0.150 [3.8]	0.150 [3.8]	--	--	#6-32 M4	#6-32 M4	#6-32 M4	#6-32 M4	--	--	--	--	0.098 [2.5]
S02	X	0.843 [21.4]	1.154 [29.3]	0.843 [21.4]	0.532 [13.5]	0.406 [10.3]	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	0.984 [25.0]	0.673 [17.1]	0.362 [9.2]	0.673 [17.1]	1.283 [32.6]	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	ϕ (max)	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.095 [2.4]	--	#10-32 M5	#10-32 M5	#10-32 M5	#10-32 M5	--	--	--	--	0.138 [3.5]
S03	X	0.843 [21.4]	1.232 [31.3]	0.843 [21.4]	0.453 [11.5]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	1.063 [27.0]	0.673 [17.1]	0.284 [7.2]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	ϕ (max)	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	--	--	.25-28 M6	.25-28 M6	.25-28 M6	.25-28 M6	--	--	--	--	0.138 [3.5]
S04	X	0.874 [22.2]	1.311 [33.3]	0.874 [22.2]	0.437 [11.1]	0.437 [11.1]	0.205 [5.2]	0 [0]	1.748 [44.4]	1.748 [44.4]	0 [0]	--	--	--	--	1.264 [32.1]
	Y	1.717 [43.6]	1.280 [32.5]	0.843 [21.4]	1.280 [32.5]	2.217 [56.3]	0.610 [15.5]	0 [0]	0 [0]	2.559 [65.0]	2.559 [65.0]	--	--	--	--	1.780 [45.2]
	ϕ (max)	0.323 [8.2]	0.323 [8.2]	0.323 [8.2]	0.323 [8.2]	0.197 [5.0]	0.197 [5.0]	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	0.138 [3.5]
S06	X	1.437 [36.5]	2.437 [61.9]	1.437 [36.5]	0.437 [11.1]	0.685 [17.4]	--	0 [0]	2.874 [73.0]	2.874 [73.0]	0 [0]	--	--	--	--	2.437 [61.9]
	Y	2.685 [68.2]	1.685 [42.8]	0.685 [17.4]	1.685 [42.8]	3.189 [81.0]	--	0 [0]	0 [0]	3.370 [85.6]	3.370 [85.6]	--	--	--	--	2.437 [61.9]
	ϕ (max)	0.630 [16.0]	0.630 [16.0]	0.630 [16.0]	0.630 [16.0]	0.197 [5.0]	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--	0.315 [8.0]
S71	X	0.843 [21.4]	1.232 [31.2]	0.843 [21.4]	0.453 [11.4]	0.406 [10.3]	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	1.063 [27.0]	0.673 [17.1]	0.284 [7.2]	0.673 [17.1]	1.284 [32.6]	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	ϕ (max)	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.095 [2.4]	--	#10-32 M5	#10-32 M5	#10-32 M5	#10-32 M5	--	--	--	--	0.138 [3.5]
S72	X	0.843 [21.4]	1.311 [33.3]	0.843 [21.4]	0.374 [9.5]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]
	Y	1.142 [29.0]	0.673 [17.1]	0.205 [5.2]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]
	ϕ (max)	0.315 [8.0]	0.315 [8.0]	0.315 [8.0]	0.315 [8.0]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]
S73	X	1.750 [44.5]	2.438 [61.9]	1.750 [44.5]	1.062 [27.0]	0.970 [24.6]	--	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--	--	--	--
	Y	1.563 [39.7]	0.875 [22.3]	0.188 [4.8]	0.875 [22.3]	1.750 [44.5]	--	0 [0]	0 [0]	1.750 [44.5]	1.750 [44.5]	--	--	--	--	--
	ϕ (max)	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.094 [2.4]	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	--
S74	X	1.813 [46.1]	2.688 [68.3]	1.813 [46.1]	0.938 [23.8]	--	--	0 [0]	3.625 [92.1]	3.625 [92.1]	0 [0]	0.938 [23.8]	2.688 [68.3]	2.688 [68.3]	0.938 [23.8]	1.000 [25.4]
	Y	2.531 [64.3]	1.656 [42.1]	0.781 [19.8]	1.656 [42.1]	--	--	0 [0]	0 [0]	3.313 [84.2]	3.313 [84.2]	0 [0]	0 [0]	3.313 [84.2]	3.313 [84.2]	2.469 [62.7]
	ϕ (max)	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	--	--	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	.31-24 M8	0.138 [3.5]

Servo Valve Patterns

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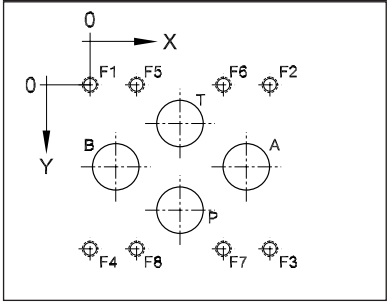
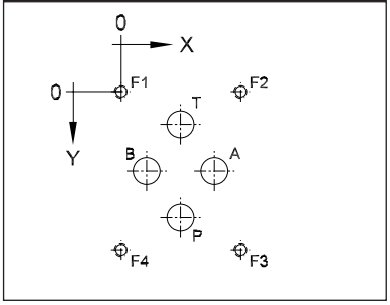
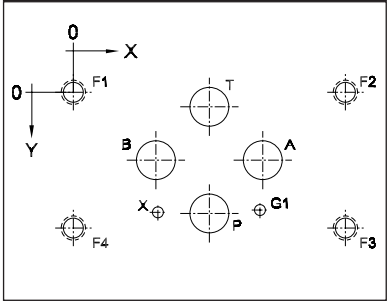
S75 2.750 port circle



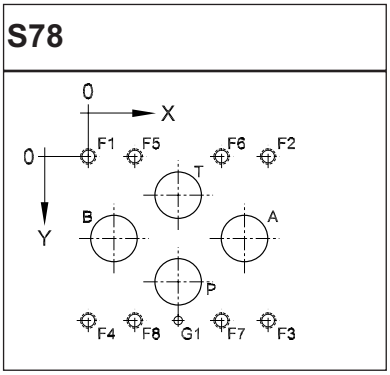
S76



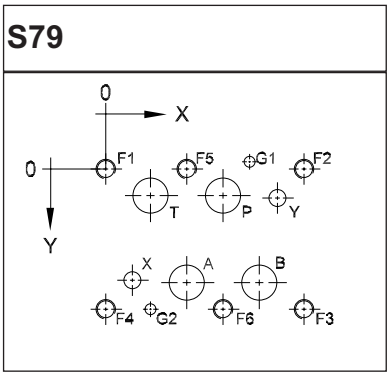
S77 1.750 port circle



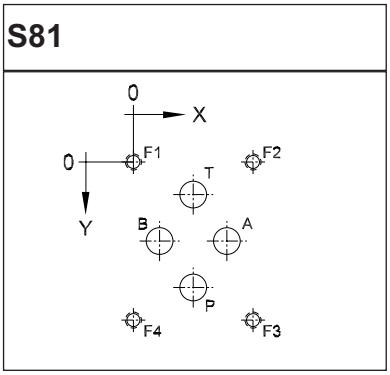
S78



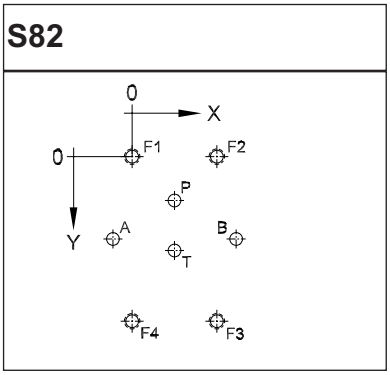
S79



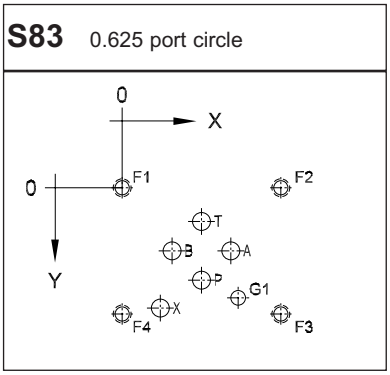
S81



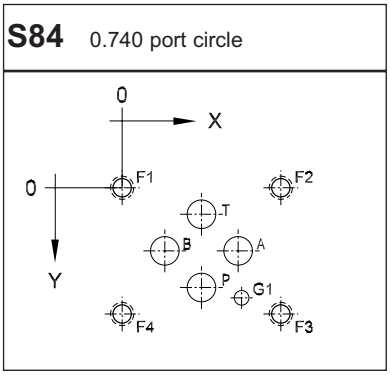
S82



S83 0.625 port circle



S84 0.740 port circle



Servo patterns continued pages 202-205

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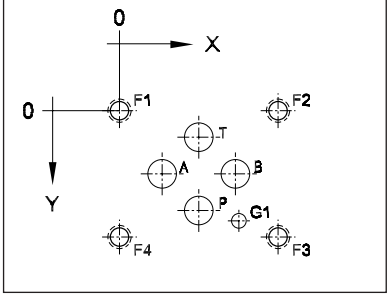
International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

Pattern	Axis	P	A	T	B	X	Y	F1	F2	F3	F4	F5	F6	F7	F8	G1	G2
S75	X	2.000 [50.8]	3.375 [85.7]	2.000 [50.8]	0.625 [15.9]	--	--	0 [0]	4.000 [101.6]	4.000 [101.6]	0 [0]	1.000 [25.4]	3.000 [76.2]	3.000 [76.2]	1.000 [25.4]	--	--
	Y	3.625 [92.1]	2.250 [57.2]	0.875 [22.2]	2.250 [57.2]	--	--	0 [0]	0 [0]	4.500 [114.3]	4.500 [114.3]	0 [0]	0 [0]	4.500 [114.3]	4.500 [114.3]	--	--
	ϕ (max)	1.000 [25.4]	1.000 [25.4]	1.000 [25.4]	1.000 [25.4]	--	--	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	.50-13 M12	--	--
S76	X	1.120 [28.5]	1.750 [44.5]	1.120 [28.5]	0.490 [12.5]	--	--	0 [0]	2.240 [56.9]	2.240 [56.9]	0 [0]	--	--	--	--	--	--
	Y	2.357 [59.9]	1.483 [37.6]	0.610 [15.5]	1.483 [37.6]	--	--	0 [0]	0 [0]	2.967 [75.4]	2.967 [75.4]	--	--	--	--	--	--
	ϕ (max)	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--	--
S77	X	1.813 [46.0]	2.688 [68.3]	1.813 [46.0]	0.937 [23.8]	1.025 [26.0]	--	0 [0]	3.625 [92.1]	3.625 [92.1]	0 [0]	--	--	--	--	2.625 [66.7]	--
	Y	2.063 [52.4]	1.187 [30.2]	0.312 [7.9]	1.187 [30.2]	2.054 [52.2]	--	0 [0]	0 [0]	2.375 [60.3]	2.375 [60.3]	--	--	--	--	2.000 [50.8]	--
	ϕ (max)	0.625 [15.9]	0.625 [15.9]	0.625 [15.9]	0.625 [15.9]	0.125 [3.2]	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	0.157 [4.0]	--
S78	X	2.181 [55.4]	3.741 [95.0]	2.181 [55.4]	0.621 [15.8]	--	--	0 [0]	4.362 [110.8]	4.362 [110.8]	0 [0]	1.241 [31.5]	3.121 [79.3]	3.121 [79.3]	1.241 [31.5]	2.181 [55.4]	--
	Y	3.435 [87.2]	2.310 [58.7]	1.185 [30.1]	2.310 [58.7]	--	--	0 [0]	0 [0]	4.620 [117.3]	4.620 [117.3]	0 [0]	0 [0]	4.620 [117.3]	4.620 [117.3]	4.620 [117.3]	--
	ϕ (max)	1.125 [28.6]	1.125 [28.6]	1.125 [28.6]	1.125 [28.6]	--	--	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	.62-11 M16	0.313 [7.9]	--
S79	X	3.031 [77.0]	2.094 [53.2]	1.157 [29.4]	3.969 [100.8]	0.689 [17.5]	4.437 [112.7]	0 [0]	5.126 [130.2]	5.126 [130.2]	0 [0]	2.094 [53.2]	3.031 [77.0]	--	--	3.720 [94.5]	1.157 [29.4]
	Y	0.689 [17.5]	2.937 [74.6]	0.689 [17.5]	2.937 [74.6]	2.874 [73.0]	0.748 [19.0]	0 [0]	0 [0]	3.626 [92.1]	3.626 [92.1]	0 [0]	3.626 [92.1]	--	--	-0.189 [-4.8]	3.626 [92.1]
	ϕ (max)	0.984 [25.0]	0.984 [25.0]	0.984 [25.0]	0.984 [25.0]	0.441 [11.2]	0.441 [11.2]	.44-14 M12	.44-14 M12	.44-14 M12	.44-14 M12	.44-14 M12	.44-14 M12	--	--	0.295 [7.5]	0.295 [7.5]
S81	X	1.120 [28.4]	1.750 [44.5]	1.120 [28.4]	0.490 [12.4]	--	--	0 [0]	2.240 [56.9]	2.240 [56.9]	0 [0]	--	--	--	--	--	--
	Y	2.375 [60.3]	1.500 [38.1]	0.625 [15.9]	1.500 [38.1]	--	--	0 [0]	0 [0]	3.000 [76.2]	3.000 [76.2]	--	--	--	--	--	--
	ϕ (max)	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	--	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	--	--
S82	X	0.433 [11.0]	-0.197 [-5.0]	0.433 [11.0]	1.063 [27.0]	--	--	0 [0]	0.866 [22.0]	0.866 [22.0]	0 [0]	--	--	--	--	--	--
	Y	0.449 [11.4]	0.843 [21.4]	0.961 [24.4]	0.843 [21.4]	--	--	0 [0]	0 [0]	1.677 [42.6]	1.677 [42.6]	--	--	--	--	--	--
	ϕ (max)	0.130 [3.3]	0.130 [3.3]	0.130 [3.3]	0.130 [3.3]	--	--	M4 M4	M4 M4	M4 M4	M4 M4	--	--	--	--	--	--
S83	X	0.843 [21.4]	1.154 [29.3]	0.843 [21.4]	0.531 [13.5]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]	--
	Y	0.984 [25.0]	0.673 [17.1]	0.358 [9.1]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]	--
	ϕ (max)	0.191 [4.85]	0.191 [4.85]	0.191 [4.85]	0.191 [4.85]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]	--
S84	X	0.844 [21.4]	1.214 [30.8]	0.844 [21.4]	0.474 [12.0]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	--	--
	Y	1.042 [26.5]	0.672 [17.1]	0.302 [7.67]	0.672 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	--	--
	ϕ (max)	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	0.260 [6.6]	--	--	#10-32 M5	#10-32 M5	#10-32 M5	#10-32 M5	--	--	--	--	--	--

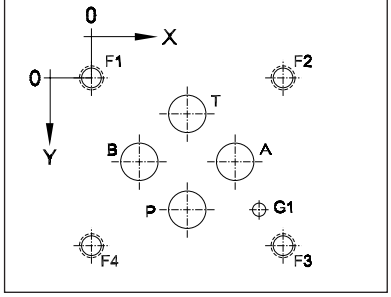
Servo Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

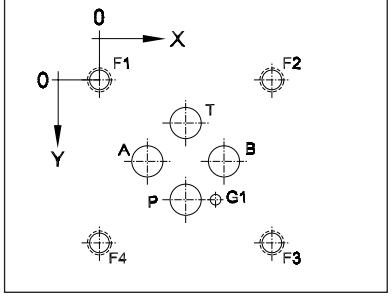
S85 0.850 port circle



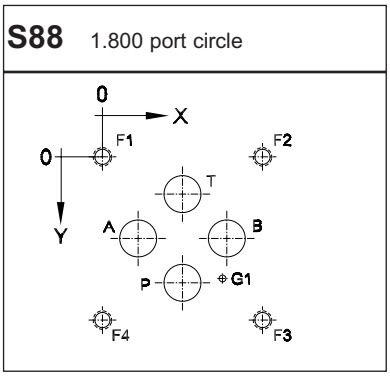
S86 1.000 port circle



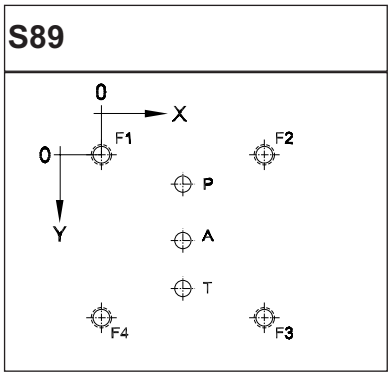
S87 1.000 port circle



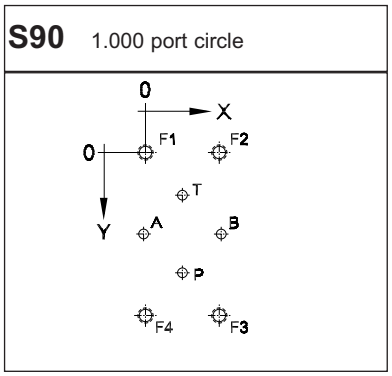
S88 1.800 port circle



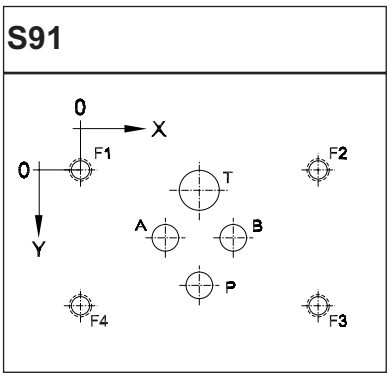
S89



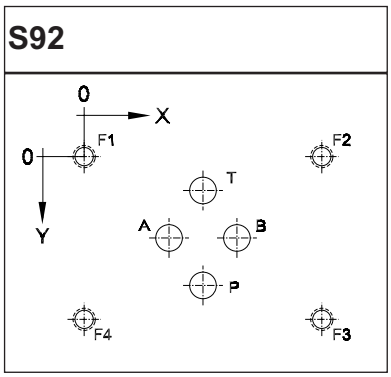
S90 1.000 port circle



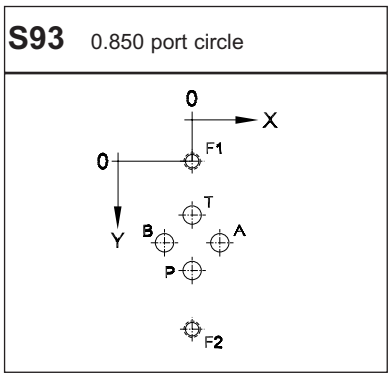
S91



S92



S93 0.850 port circle



Servo patterns continued pages 204-205

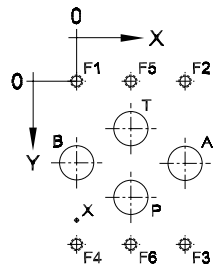
Daman Products Company, Inc.
1811 North Home Street • Mishawaka, Indiana 46545-7267 USA • North America: 800.959.7841 • Fax: 800.241.7664
International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

Pattern	Axis	P	A	T	B	X	Y	F1	F2	F3	F4	F5	F6	F7	F8	G1	G2
S85	X	0.843 [21.4]	0.418 [10.6]	0.843 [21.4]	1.268 [32.2]	--	--	0 [0]	1.685 [42.8]	1.685 [42.8]	0 [0]	--	--	--	--	1.232 [31.3]	--
	Y	1.098 [27.9]	0.673 [17.1]	0.248 [6.3]	0.673 [17.1]	--	--	0 [0]	0 [0]	1.347 [34.2]	1.347 [34.2]	--	--	--	--	1.173 [29.8]	--
	ϕ (max)	0.327 [8.3]	0.327 [8.3]	0.327 [8.3]	0.327 [8.3]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]	--
S86	X	1.000 [25.4]	1.500 [38.1]	1.000 [25.4]	0.500 [12.7]	--	--	0 [0]	2.000 [50.8]	2.000 [50.8]	0 [0]	--	--	--	--	1.750 [44.5]	--
	Y	1.375 [34.9]	0.875 [22.2]	0.375 [9.5]	0.875 [22.2]	--	--	0 [0]	0 [0]	1.750 [44.5]	1.750 [44.5]	--	--	--	--	1.375 [34.9]	--
	ϕ (max)	0.390 [9.9]	0.390 [9.9]	0.390 [9.9]	0.390 [9.9]	--	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	0.138 [3.5]	--
S87	X	1.125 [28.6]	0.625 [15.9]	1.125 [28.6]	1.625 [41.3]	--	--	0 [0]	2.250 [57.2]	2.250 [57.2]	0 [0]	--	--	--	--	1.515 [38.5]	--
	Y	1.563 [39.7]	1.063 [27.0]	0.563 [14.3]	1.063 [27.0]	--	--	0 [0]	0 [0]	2.125 [54.0]	2.125 [54.0]	--	--	--	--	1.563 [39.7]	--
	ϕ (max)	0.410 [10.4]	0.410 [10.4]	0.410 [10.4]	0.410 [10.4]	--	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--	--	0.138 [3.5]	--
S88	X	1.625 [41.3]	0.725 [18.4]	2.18 [55.4]	2.525 [64.1]	--	--	0 [0]	3.250 [82.6]	3.250 [82.6]	0 [0]	--	--	--	--	2.438 [61.9]	--
	Y	2.556 [64.9]	1.656 [42.1]	0.756 [19.2]	1.656 [42.1]	--	--	0 [0]	0 [0]	3.313 [84.1]	3.313 [84.1]	--	--	--	--	2.469 [62.7]	--
	ϕ (max)	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	0.750 [19.1]	--	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--	0.138 [3.5]	--
S89	X	0.781 [19.8]	0.781 [19.8]	0.781 [19.8]	--	--	--	0 [0]	1.563 [39.7]	1.563 [39.7]	0 [0]	--	--	--	--	--	--
	Y	0.281 [7.1]	0.821 [20.9]	1.281 [32.5]	--	--	--	0 [0]	0 [0]	1.563 [39.7]	1.563 [39.7]	--	--	--	--	--	--
	ϕ (max)	0.156 [4.0]	0.156 [4.0]	0.156 [4.0]	--	--	--	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	--	--	--	--
S90	X	0.474 [12.1]	-0.026 [-0.65]	0.474 [12.1]	0.974 [24.8]	--	--	0 [0]	0.949 [24.1]	0.949 [24.1]	0 [0]	--	--	--	--	--	--
	Y	1.549 [39.4]	1.049 [26.7]	0.549 [14.0]	1.049 [26.7]	--	--	0 [0]	0 [0]	2.098 [53.3]	2.098 [53.3]	--	--	--	--	--	--
	ϕ (max)	0.126 [3.2]	0.126 [3.2]	0.126 [3.2]	0.126 [3.2]	--	--	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	--	--	--	--
S91	X	0.875 [22.2]	0.625 [15.9]	0.875 [22.2]	1.125 [28.6]	--	--	0 [0]	1.750 [44.5]	1.750 [44.5]	0 [0]	--	--	--	--	--	--
	Y	0.850 [21.6]	0.500 [12.7]	0.150 [3.8]	0.500 [12.7]	--	--	0 [0]	0 [0]	1.000 [25.4]	1.000 [25.4]	--	--	--	--	--	--
	ϕ (max)	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	--	--	#4-40	#4-40	#4-40	#4-40	--	--	--	--	--	--
S92	X	0.875 [22.2]	0.625 [12.7]	0.875 [22.2]	1.125 [28.6]	--	--	0 [0]	1.750 [44.5]	1.750 [44.5]	0 [0]	--	--	--	--	--	--
	Y	0.950 [24.1]	0.600 [15.2]	0.250 [6.4]	0.600 [15.2]	--	--	0 [0]	0 [0]	1.200 [30.5]	1.200 [30.5]	--	--	--	--	--	--
	ϕ (max)	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	--	--	#8-32 M4	#8-32 M4	#8-32 M4	#8-32 M4	--	--	--	--	--	--
S93	X	0 [0]	-0.425 [-10.8]	0 [0]	0.425 [10.8]	--	--	0 [0]	0 [0]	--	--	--	--	--	--	--	--
	Y	1.675 [42.5]	1.250 [31.8]	0.825 [21.0]	1.250 [31.8]	--	--	0 [0]	2.500 [63.5]	--	--	--	--	--	--	--	--
	ϕ (max)	0.281 [7.1]	0.281 [7.1]	0.281 [7.1]	0.281 [7.1]	--	--	.25-20 M6	.25-20 M6	--	--	--	--	--	--	--	--

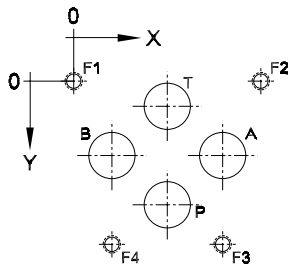
Servo Valve Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

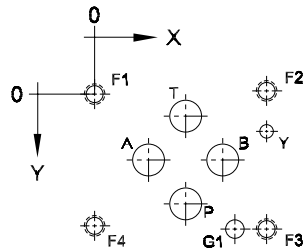
S94



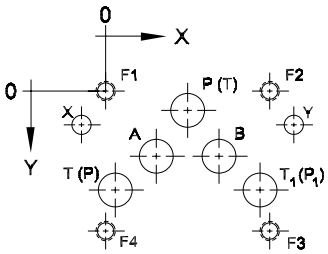
S95 2.000 port circle



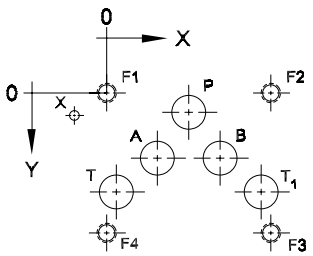
D03 ISO 4401-03-03-0-94



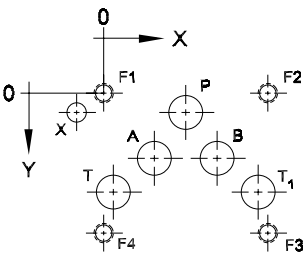
D05HE ISO 4401-05-05-0-94 Moog D634, D661, D681, D691



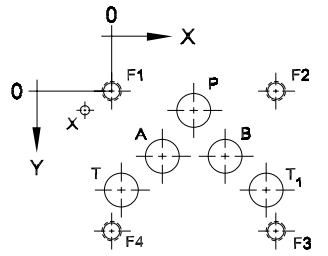
D05-S1 Moog 631, 641, 651



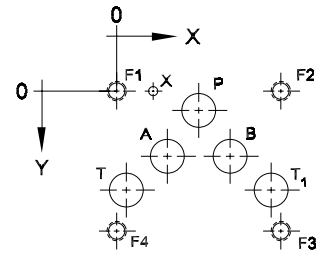
D05-S2 Moog G631



D05-S3 Parker SE31



D05-S4 Rexroth **S*2E*10-*X



D07, D08, D10

Same as ISO / NFPA directional valve patterns. See page 194-195 for dimensions.

Daman Products Company, Inc.
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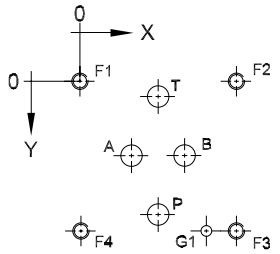
International: 574.259.7841 • Fax: 574.259.7665 • Email: sales@damanifolds.com • Web: www.damanifolds.com

Pattern	Axis	P	A	T	T_1	B	X	Y	F1	F2	F3	F4	F5	F6	F7	G1	G2
S94	X	1.375 [34.9]	2.750 [69.9]	1.375 [34.9]	--	0 [0]	0 [0]	--	0 [0]	2.750 [69.9]	2.750 [69.9]	0 [0]	1.375 [34.9]	1.375 [34.9]	--	--	--
	Y	2.938 [74.6]	2.063 [52.4]	1.188 [30.2]	--	2.063 [52.4]	3.513 [89.2]	--	0 [0]	0 [0]	4.125 [104.8]	4.125 [104.8]	0 [0]	4.125 [104.8]	--	--	--
	ϕ (max)	0.865 [22.0]	0.865 [22.0]	0.865 [22.0]	--	0.865 [22.0]	0.094 [2.4]	--	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	.31-18 M8	--	--	--
S95	X	1.900 [48.3]	0.900 [22.9]	1.900 [48.3]	--	2.900 [73.7]	--	--	0 [0]	3.800 [96.5]	3.025 [76.8]	0.775 [19.7]	--	--	--	--	--
	Y	2.510 [63.8]	1.510 [38.4]	0.510 [13.0]	--	1.510 [38.4]	--	--	0 [0]	0 [0]	3.313 [84.1]	3.313 [84.1]	--	--	--	--	--
	ϕ (max)	0.938 [23.8]	0.938 [23.8]	0.938 [23.8]	--	0.938 [23.8]	--	--	.38-16 M10	.38-16 M10	.38-16 M10	.38-16 M10	--	--	--	--	--
D03	X	0.847 [21.5]	0.500 [12.7]	0.847 [21.5]	--	1.189 [30.2]	--	1.595 [40.5]	0 [0]	1.595 [40.5]	1.595 [40.5]	0 [0]	--	--	--	1.299 [33.0]	--
	Y	1.020 [25.9]	0.610 [15.5]	0.201 [5.1]	--	0.610 [15.5]	--	0.354 [9.0]	0 [0]	-0.030 [-0.75]	1.250 [31.75]	1.221 [31.0]	--	--	--	1.250 [31.75]	--
	ϕ (max)	0.295 [7.5]	0.295 [7.5]	0.295 [7.5]	--	0.295 [7.5]	--	0.130 [3.3]	#10-24 M5	#10-24 M5	#10-24 M5	#10-24 M5	--	--	--	0.158 [4.0]	--
D05HE	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.315 [-8.0]	2.441 [62.0]	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.433 [11.0]	0.433 [11.0]	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.248 [6.3]	0.248 [6.3]	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S1	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.417 [-10.6]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.291 [7.4]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.125 [3.2]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S2	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.354 [-9.0]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.252 [6.4]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.248 [6.3]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S3	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	-0.346 [-8.8]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0.248 [6.3]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.118 [3.0]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--
D05-S4	X	1.063 [27.0]	0.658 [16.7]	0.126 [3.2]	2.000 [50.8]	1.469 [37.3]	0.472 [12.0]	--	0 [0]	2.126 [54.0]	2.126 [54.0]	0 [0]	--	--	--	--	--
	Y	0.248 [6.3]	0.843 [21.4]	1.280 [32.5]	1.280 [32.5]	0.843 [21.4]	0 [0]	--	0 [0]	0 [0]	1.811 [46.0]	1.811 [46.0]	--	--	--	--	--
	ϕ (max)	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.441 [11.2]	0.118 [3.0]	--	.25-20 M6	.25-20 M6	.25-20 M6	.25-20 M6	--	--	--	--	--

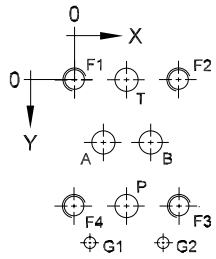
“Obsolete Valve” Patterns

These drawings are for reference only. Please consult the appropriate standard when dimensions are critical. Dimensions may vary on our products. It should not be assumed that each hole shown is found on a given product.

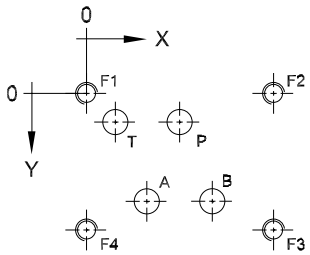
Racine 01Q



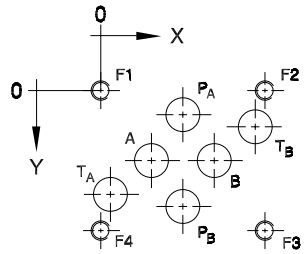
Racine 01S



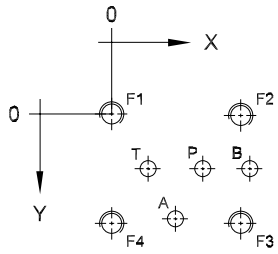
Parker D1B



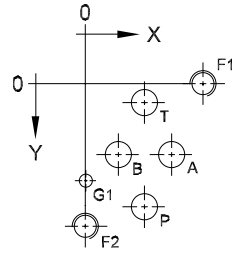
Denison D1D04



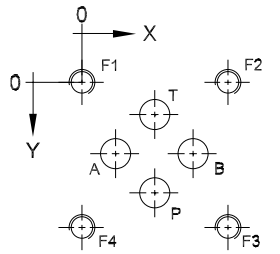
Vickers D1L • Rexroth WE5



Vickers DG4M4



Republic R8143



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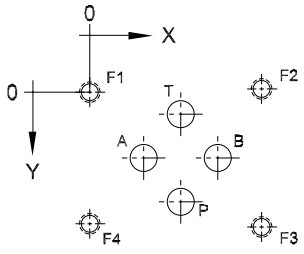
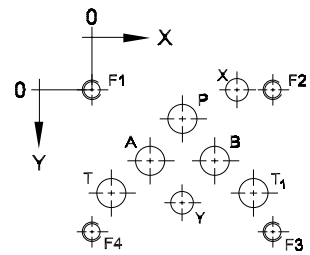


Vickers DG4S4-02

(Same as D06 • NFPA T3.5.1 R2 D06)



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Pattern	Axis	P	A	T	T_1	B	X (P_B)	Y	F1	F2	F3	F4	G1	G2
01Q	X	0.91 [23.0]	0.59 [15.1]	0.91 [23.0]	--	1.22 [31.0]	--	--	0 [0]	1.81 [46.0]	1.81 [46.0]	0 [0]	1.47 [37.3]	--
	Y	1.56 [39.7]	0.88 [22.2]	0.19 [4.9]	--	0.88 [22.3]	--	--	0 [0]	0 [0]	1.75 [44.5]	1.75 [44.5]	1.75 [44.5]	--
	ϕ (max)	0.25 [6.3]	0.19 [4.8]	0.25 [6.3]	--	0.19 [4.8]	--	--	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	0.16 [4.0]	--
01S	X	0.61 [15.5]	0.30 [7.6]	0.61 [15.5]	--	0.92 [23.4]	--	--	0 [0]	1.22 [30.9]	1.22 [30.9]	0 [0]	0.24 [6.1]	0.98 [25.0]
	Y	1.37 [35.0]	0.69 [17.5]	0 [0]	--	0.69 [17.5]	--	--	0 [0]	0 [0]	1.37 [35.0]	1.37 [35.0]	1.75 [44.5]	1.75 [44.5]
	ϕ (max)	0.25 [6.3]	0.19 [4.8]	0.25 [6.3]	--	0.19 [4.8]	--	--	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	0.16 [4.0]	0.16 [4.0]
D1B	X	0.81 [20.6]	0.53 [13.5]	0.25 [6.4]	--	1.09 [27.7]	--	--	0 [0]	1.63 [41.3]	1.63 [41.3]	0 [0]	--	--
	Y	0.25 [6.4]	0.94 [23.8]	0.25 [6.4]	--	0.94 [23.8]	--	--	0 [0]	0 [0]	1.19 [30.2]	1.19 [30.2]	--	--
	ϕ (max)	0.22 [5.6]	0.22 [5.6]	0.22 [5.6]	--	0.22 [5.6]	--	--	#10-32 #10-32	#10-32 #10-32	#10-32 #10-32	#10-32 #10-32	--	--
D1D04	X	1.06 [27.0]	0.72 [16.3]	0.16 [4.0]	1.97 [50.0]	1.44 [36.5]	1.06 [27.0]	--	0 [0]	2.125 [54.0]	2.125 [54.0]	0 [0]	--	--
	Y	0.34 [8.7]	0.91 [23.0]	1.22 [31.0]	0.59 [15.1]	0.91 [23.0]	1.47 [37.3]	--	0 [0]	0 [0]	1.812 [46.0]	1.812 [46.0]	--	--
	ϕ (max)	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	0.38 [9.6]	--	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	.25-20 .25-20	--	--
D1L, WE5	X	0.72 [18.1]	0.51 [12.8]	0.30 [7.4]	--	1.09 [27.6]	--	--	0 [0]	1.02 [25.6]	1.02 [25.6]	0 [0]	--	--
	Y	0.42 [10.9]	0.81 [20.7]	0.42 [10.9]	--	0.42 [10.9]	--	--	0 [0]	0 [0]	0.84 [21.4]	0.84 [21.4]	--	--
	ϕ (max)	0.13 [3.2]	0.13 [3.2]	0.13 [3.2]	--	0.13 [3.2]	--	--	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	--	--
DG4M4	X	0.57 [14.4]	0.82 [20.6]	0.57 [14.4]	--	0.32 [8.1]	--	--	1.13 [28.7]	0 [0]	--	--	0 [0]	--
	Y	1.19 [30.1]	0.69 [17.5]	0.19 [4.8]	--	0.69 [17.5]	--	--	0 [0]	1.37 [34.7]	--	--	0.94 [23.8]	--
	ϕ (max)	0.25 [6.3]	0.25 [6.3]	0.25 [6.3]	--	0.25 [6.3]	--	--	.25-20 .25-20	.25-20 .25-20	--	--	0.16 [4.0]	--
R8143	X	1.06 [27.0]	0.50 [12.7]	1.06 [27.0]	--	0.50 [12.7]	--	--	0 [0]	2.13 [54.0]	2.13 [54.0]	0 [0]	--	--
	Y	1.60 [40.6]	1.05 [26.7]	0.48 [12.2]	--	1.05 [26.7]	--	--	0 [0]	0 [0]	2.11 [53.7]	2.11 [53.7]	--	--
	ϕ (max)	0.44 [11.1]	0.44 [11.1]	0.44 [11.1]	--	0.44 [11.1]	--	--	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	--	--
RVT65	X	0.85 [21.5]	0.50 [12.7]	0.85 [21.5]	--	1.19 [30.2]	--	--	0 [0]	1.60 [40.6]	1.60 [40.6]	0 [0]	--	--
	Y	1.09 [27.6]	0.61 [15.7]	0.15 [3.8]	--	0.61 [15.7]	--	--	0 [0]	-0.03 [-0.8]	1.26 [32.0]	1.23 [31.3]	--	--
	ϕ (max)	0.31 [7.9]	0.31 [7.9]	0.31 [7.9]	--	0.31 [7.9]	--	--	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	#10-24 #10-24	--	--
DG4S4 -02 (D06)	X	1.750 [44.5]	1.120 [28.5]	0.380 [9.7]	3.120 [79.3]	2.380 [60.5]	2.810 [71.4]	1.75 [44.5]	0 [0]	3.500 [88.9]	3.500 [88.9]	0 [0]	--	--
	Y	0.560 [14.3]	1.380 [35.1]	2.000 [50.8]	2.000 [50.8]	1.380 [35.1]	0 [0]	2.180 [55.4]	0 [0]	0 [0]	2.75 [69.9]	2.75 [69.9]	--	--
	ϕ (max)	0.580 [14.7]	0.580 [14.7]	0.580 [14.7]	0.580 [14.7]	0.580 [14.7]	0.440 [11.2]	0.440 [11.2]	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	.38-16 .38-16	--	--

“Obsolete Valve” Patterns

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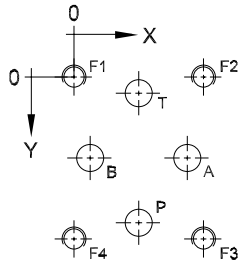
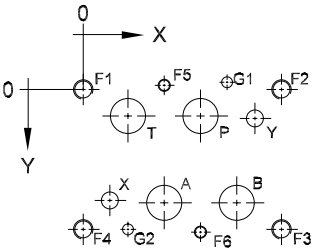
Denison DD063



Denison D1D12



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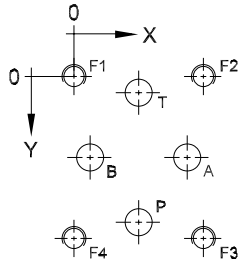

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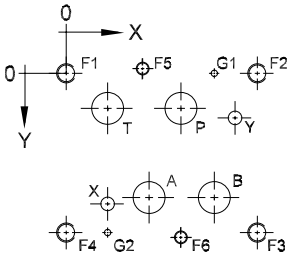

Pattern	Axis	P	A	T	B	X	Y	F1	F2	F3	F4	F5	F6	G1	G2
DD063	X	1.50 [38.1]	2.63 [66.7]	1.50 [38.1]	0.38 [9.5]	--	--	0 [0]	3.00 [76.2]	3.00 [76.2]	0 [0]	--	--	--	--
	Y	3.38 [85.7]	1.88 [47.6]	0.38 [9.5]	1.88 [47.6]	--	--	0 [0]	0 [0]	3.75 [95.3]	3.75 [95.3]	--	--	--	--
	ϕ (max)	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	--	--	.50-13 .50-13	.50-13 .50-13	.50-13 .50-13	.50-13 .50-13	--	--	--	--
D1D12	X	3.03 [77.0]	2.09 [53.2]	1.16 [29.4]	3.97 [100.8]	0.69 [17.5]	4.44 [112.7]	0 [0]	5.12 [130.2]	5.12 [130.2]	0 [0]	2.31 [58.7]	3.00 [76.2]	3.72 [94.5]	1.16 [29.4]
	Y	0.69 [17.5]	2.93 [74.6]	0.69 [17.5]	2.93 [74.6]	2.88 [73.0]	0.75 [19.0]	0 [0]	0 [0]	3.62 [92.1]	3.62 [92.1]	-0.09 [-2.4]	3.72 [94.5]	-0.19 [-4.8]	3.62 [92.1]
	ϕ (max)	0.91 [23.0]	0.91 [23.0]	0.91 [23.0]	0.91 [23.0]	0.44 [11.2]	0.44 [11.2]	.50-13 .50-13	.50-13 .50-13	.50-13 .50-13	.50-13 .50-13	.31-18 .31-18	.31-18 .31-18	0.28 [7.5]	0.28 [7.5]
D2D06	X	1.50 [38.1]	2.63 [66.7]	1.50 [38.1]	0.38 [9.5]	--	--	0 [0]	3.00 [76.2]	3.00 [76.2]	0 [0]	--	--	--	--
	Y	3.38 [85.7]	1.88 [47.6]	0.38 [9.5]	1.88 [47.6]	--	--	0 [0]	0 [0]	3.75 [95.3]	3.75 [95.3]	--	--	--	--
	ϕ (max)	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	0.63 [15.9]	--	--	.50-13 .50-13	.50-13 .50-13	.50-13 .50-13	.50-13 .50-13	--	--	--	--
D1D24	X	4.50 [114.3]	3.25 [82.5]	1.63 [41.3]	5.81 [147.6]	1.63 [41.3]	6.63 [168.3]	0 [0]	7.50 [190.5]	7.50 [190.5]	0 [0]	3.00 [76.2]	4.50 [114.3]	5.46 [138.6]	1.62 [41.3]
	Y	1.38 [35.0]	4.87 [123.8]	1.38 [35]	4.87 [123.8]	5.13 [130.2]	1.75 [44.5]	0 [0]	0 [0]	6.25 [158.8]	6.25 [158.8]	0 [0]	6.25 [158.8]	0 [0]	6.25 [158.8]
	ϕ (max)	1.25 [32.0]	1.25 [32.0]	1.25 [32.0]	1.25 [32.0]	0.44 [11.2]	0.44 [11.2]	.75-10 .75-10	.75-10 .75-10	.75-10 .75-10	.75-10 .75-10	.50-13 .50-13	.50-13 .50-13	0.28 [7.5]	0.28 [7.5]

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