

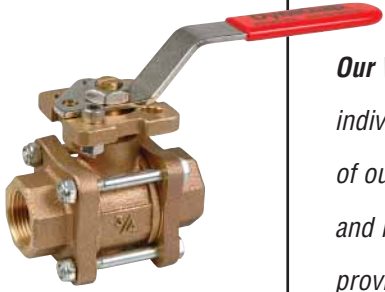
# DynaQuip®



## Product Catalog

Actuators • Actuated Valves • Ball Valves • Butterfly Valves

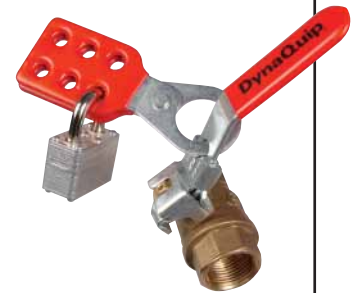
# DynaQuip



***Our Vision** is to satisfy the individual needs and demands of our industrial, commercial, and residential customers by providing innovative and solutions oriented valve and flow control products.*



***Our Mission** is achieved through the continuous application of creative ideas, open communications, proven design and manufacturing methodology, and exemplary levels of personalized service and support.*



***Our Company** strives to empower our people to continuously generate quality ideas that lead to products, processes, and services that we believe offer lasting tangible benefits.*



***Our Business** will be conducted with manners that are socially conscious and responsible, earn respect for our integrity and ethics, and provide clear long-term value to all those we are fortunate to serve.*



Now entering our sixth decade **DynaQuip Controls** continues its long standing commitment to designing and manufacturing superior products and providing outstanding personal service. Electric actuators and quarter-turn valve automation designs lead our drive as we focus on the flow control products of tomorrow.

At DynaQuip our products and services reflect the highest standards in design, development, manufacturing and time-tested performance. We continue to focus design and development in the area of innovative valve automation and control products that meet or exceed the most demanding needs and expectations of our valued industrial, commercial and residential customers worldwide.

DynaQuip's historical expertise has always been focused on the design, development and manufacture of durable flow control and fluid connector products for fluid power applications. Today however, our product lines and design expertise have grown to include electric

actuators, electronic actuator controls, automated valves, and electronic interface components, prepackaged automated ball and butterfly valves, application specific automated valves, pneumatic actuators and manual type ball and butterfly valves.

With our vision and goals focused on the development of quality ideas and innovative control products, and backed by our caring and personalized DynaQuip service, we are honored to serve the needs of our customers and end users in the manufacturing, oil and gas transmission, food and beverage, fluid power, OEM, semiconductor, light industrial, residential, and commercial markets.

Never losing sight of the need for safety, energy conservation, environmental protection and personal service, we promise to provide for and protect what came before us and what must remain after us. At DynaQuip we look forward to serving you and we believe that...You simply get more when you choose DynaQuip.



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## Electric Actuators

**DynaQuip Controls can provide actuators and hardware to automate existing valves of other brands and manufacturers. Contact DynaQuip Controls Customer Service, or your local Dynaquip distributor, and allow us to help solve your automation problems.**

DynaQuip Controls offer two series of electric actuators providing guaranteed output torques from 150 inch pounds to over 30,000 inch pounds. Our DE and MA series actuators are available in AC and DC powered designs and provide some of the most compact, high output designs available anywhere. DynaQuip electric actuators provide a solid foundation for automating almost any quarter-turn application.

Electric actuators are used where plant air and compressors are not available. They are the actuators of choice in cold ambient temperatures, corrosive environments, and easily tie into distributed control systems. Automating ball, butterfly, and plug valves

are the primary application of most end users. DynaQuip electric actuators can also be used to operate quarter-turn louver and damper mechanisms.



### Electric Actuator Options

The following options require a custom quote from Customer Service before a purchase order is submitted.

- **Auxiliary Limit Switches**

Additional dry contact limit switches within the control housing to indicate various valve positions remotely, or to stop the valve at intermediate positions, or to control other pieces of equipment, such as pumps.

- **NEMA 4, 4X, 7, and 9**

Various NEMA ratings available to meet specific environmental requirements: watertight, corrosion resistant, or explosion proof. Special housings for high-pressure wash down also available.

- **Timer**

Adjustable time intervals and length of time open and/or closed.

- **Modulating Controls**

Accepts a 4 - 20 mA , 0 - 5 VDC, or 0 - 10 VDC control signal to position the valve at various degrees of open/close.

- **Continuous Position Indication**

Gives a continuous remote indication of the degrees or percent of opening based on either a resistance output of 0 - 1000 ohms or a current output of 4 - 20 mA. Other options available.

- **Fail-Safe Backup**

Battery backup system that allows normal operation of actuator with 120 Volt AC but converts battery DC to AC upon incoming AC power failure.

- **Spring-Return Fail-Safe**

Fail-safe spring backup system within the electric actuator takes over upon loss of AC power.

# Electric Actuators

## DE Series

The **DE Series Electric Actuators** are ultra-compact, providing a high output-to-size ratio. In addition, the DE Series has a multitude of features not normally found in this class of actuator. *(PLEASE CALL CUSTOMER SERVICE for other voltage requirements.)*

- **Wire in Parallel**
  - Independent Circuits Not Necessary
- **Quick Setting - Easy Access Cams**
- **Type 316 Stainless Steel Output Shaft**
- **NEMA 4 and 4X Weatherproof and Corrosion-Resistant Housing and Cover**
  - Durable Die-Cast Aluminum Housing
  - Corrosion-Resistant Epoxy Polyurethane Coating and Stainless Steel Fasteners
- **Heavy Duty Heat Treated Pinion Gearing**

- Lubricated for Life
- **Manual Override**
  - Local Position Indication
- **50% Duty Rated Long Life Reversing Motors**
  - Thermal Overload Protection
  - 120 Volt AC Single Phase Plus Optional Voltages
  - Two Limit Switches for Motor Control and Remote Indication of End of Travel
  - 180° Travel Capability
- **ISO 5211 Shaft and Mounting Dimensions**
  - F03 to F05 Configurations
- **Can Be Mounted in Any Position or Orientation**

| Catalog Number | Torque (in/lbs) | Mounting ISO 5211 |
|----------------|-----------------|-------------------|
| DE153          | 150             | F03               |
| DE154          | 150             | F04               |
| DE305          | 300             | F05               |



*Options:*

Suffix "B" for 220 VAC, PH1  
 Suffix "H" for 12 to 24 VAC, PH1 and 12 to 24 VDC

## MA Series

The **MA Series** is DynaQuip Controls' heavyweight contender with 795 to 30,975 inch-pounds of torque output. Self-locking high-alloy steel gear train makes this the ideal electric actuator for operation on a wide variety of industrial and commercial applications. The MA Series can be applied for service on most ball, butterfly, and plug valves; dampers and vents; and other similar rotary quarter-turn automation applications. Specialized needs are easily addressed by combining DynaQuip Controls' actuators with any of the many electric actuator accessories. *(PLEASE CALL CUSTOMER SERVICE for other voltage requirements.)*

- **NEMA 4 Weatherproof/Corrosion-Resistant Housing**
- **Die Cast Aluminum**
- **Epoxy Polyurethane Paint**
- **Stainless Steel Fasteners**
- **Two (2) 1/2" NPT Conduit Entries**
- **Self-Locking, High-Alloy Steel Gear Train**

- **Lubricated for Life**
- **Plated Steel Output Shaft**
- **30% Duty Rated Long Life**
- **Reversing Motors**
- **Thermal Overload Protection**
- **120 Volt AC Single Phase**
- **Four (4) Limit Switches for Motor Control and Remote Indication of End of Travel**
  - 180° Travel Capability
- **Adjustable Mechanical Travel Stops**
- **Manual Override**
  - Non-Clutch, Side-Mounted Hand Wheel
  - Local Position Indication
- **ISO 5211 Mounting Standard**

| Catalog Number | Torque (in/lbs) | Mounting ISO 5211 |
|----------------|-----------------|-------------------|
| MA7            | 795             | F07               |
| MA13           | 1,325           | F07               |
| MA20           | 2000            | F07               |
| MA35           | 3540            | F10               |
| MA44           | 4425            | F10               |
| MA57           | 5750            | F10               |
| MA88           | 8850            | F14               |
| MA132          | 13275           | F14               |
| MA177          | 17700           | F16               |
| MA221          | 22125           | F16               |
| MA265          | 26550           | F16               |
| MA309          | 30975           | F16               |



Suffix "B" for 220 VAC, PH1  
 Suffix "C" for 24 VAC, PH1  
 Suffix "D" for 12 VDC  
 Suffix "E" for 24 VDC  
 Suffix "F" for 230 volt, PH3  
 Suffix "G" for 460 volt, PH3



## Pneumatic Actuators

DynaQuip Controls can provide actuators and hardware to automate existing valves of other brands and manufacturers. Contact DynaQuip Controls Customer Service, or your local Dynaquip distributor, and allow us to help solve your automation problems.

### SOLENOID PILOT VALVES

For efficient operation choose DynaQuip solenoids:

- Standard NEMA 4 Housing (additional NEMA ratings available).
- The solenoid pilot valve pressurizes and exhausts the actuator piston compartments to cause the actuator to move.
- The 4-way solenoid pilot valve mounts directly to the actuator, reducing response time and saving the cost of tubing brackets and labor.
- Mounting pattern follows the NAMUR connection standard.

### VALVE POSITION LIMIT SWITCH

- Provides local or remote indication of valve position
- Contains 2 SPDT switches
- NEMA 4, 4X enclosure
- 1/2" NPT conduit entry

To order use no. 145775.

Additional NEMA ratings and voltages are available.

### POSITIONER

Pneumatic and electro-pneumatic positioners are commonly used to control flow, pressure, temperature, or level via an air actuated valve.

The positioner interprets an analog signal (air or electric) and directs compressed air to the air chambers of the pneumatic actuator. The result is a corresponding adjustment to the degree of openness on the valve being operated by that actuator.

Pneumatic positioners commonly receive a 3 - 15 PSI air input signal whereas electro-pneumatic positioners employ integral I/P transducers for converting a 4 - 20 mA electrical input signal to a 3 - 15 PSI air output signal. Positioner housings are NEMA 4 or 4X construction with a stainless steel gauge set as standard in both types of positioners.



### Valve Position Limit Switch

| Catalog Number | Description  |
|----------------|--|
| 145820.01      | For use with AP10 thru AP470 Actuators and Old Style AP0503 thru AP1010  |
| 145822.01      | For use with AP586 thru AP1010 Actuators and Old Style AP1210 and AP1612 |

### Pilot Solenoid Valves

| Catalog Number | Description |
|----------------|-------------|
| 145750.01      | 115 VAC     |
| 145750.02      | 24 VAC      |
| 145750.03      | 24 VDC      |
| 145750.04      | 12 VDC      |

### Additional Options Available

- Speed Control Valves
  - Controls opening and/or closing times of the valve.
- Dribble Controls
  - Rapid and slow opening or closing within the same stroke.
  - To prevent water hammer or to slow a fill process.
- Manual Override
  - Handwheel declutchable manual override for double-acting or spring-return pneumatic actuators.



DynaQuip Controls can provide actuators and hardware to automate existing valves of other brands and manufacturers. Contact DynaQuip Controls or your local Dynaquip distributor and allow us to help solve your automation problems.

## AP Series

For quarter-turn valve automation applications where continuous rapid cycling is required or hazardous conditions exist

### Dual Rack & Pinion Design

#### DynaQuip Controls AP Series Rack & Pinion Pneumatic Actuators

are designed to meet the needs of the quarter-turn valve market. Engineered to be compact, durable, and versatile, these actuators represent the latest technology coupled with economical and long-lasting operation. Our AP Series actuators are available in double-acting and spring-return models with torque outputs up to 46,540 inch-pounds with a 100 PSI air supply.

#### Materials:

- **Body:** Aluminum, ASTM 6063-T6, Hard Anodized Finish
- **Piston:** Aluminum Alloy, ASTM B179
- **End Cap:** Aluminum Alloy, ASTM B179, Black Polyester Paint Finish
- **Drive Shaft:** Forged Steel, ASTM A105 Nickel Plated
- **Seal, O-Rings:** Buna N
- **Bearings:** Nylon 46
- **Fasteners:** SS ASTM A193-B8
- **Nuts:** SS ASTM A194-GR8
- **Loaded Springs:** Steel, High Alloy Epoxy Coated
- **Operating Temperature:** -4° F to 176° F

### Catalog Number and Torque Data

#### Double-Acting Torque Outputs (in lbs)

| Model No. | Air Supply Pressure |         |        | Model No. | Air Supply Pressure |         |         |
|-----------|---------------------|---------|--------|-----------|---------------------|---------|---------|
|           | 80 PSI              | 100 PSI | 20 PSI |           | 80 PSI              | 100 PSI | 120 PSI |
| AP10DA    | 100                 | 125     | 150    | AP470DA   | 4142                | 5177    | 6213    |
| AP20DA    | 203                 | 254     | 305    | AP586DA   | 5865                | 7331    | 8798    |
| AP30DA    | 302                 | 378     | 453    | AP900DA   | 9100                | 11375   | 13650   |
| AP52DA    | 734                 | 918     | 1101   | AP1213DA  | 12132               | 15165   | 18198   |
| AP103DA   | 1032                | 1290    | 1548   | AP2366DA  | 23665               | 29581   | 35498   |
| AP148DA   | 1479                | 1849    | 2219   | AP2958DA  | 29581               | 36976   | 44371   |
| AP222DA   | 2218                | 2773    | 3327   | AP3720DA  | 37250               | 46540   | 55875   |
| AP295DA   | 2958                | 3698    | 4473   |           |                     |         |         |

#### Spring-Return Torque Outputs (in lbs)

| Model No. | Spring Stroke |       | Air Supply Pressure |       |         |       |         |       |
|-----------|---------------|-------|---------------------|-------|---------|-------|---------|-------|
|           |               |       | 80 PSI              |       | 100 PSI |       | 120 PSI |       |
|           | End           | Start | End                 | Start | End     | Start | End     | Start |
| AP10SR2   | 56            | 38    | 42                  | 60    | 67      | 85    | 92      | 110   |
| AP20SR3   | 83            | 57    | 115                 | 142   | 165     | 192   | 215     | 242   |
| AP20SR4   | 111           | 76    | 86                  | 122   | 136     | 172   | 186     | 222   |
| AP20SR5   | 139           | 95    | 56                  | 102   | 106     | 152   | 156     | 182   |
| AP30SR4   | 159           | 111   | 139                 | 187   | 213     | 261   | 288     | 336   |
| AP34SR4   | 159           | 111   | 139                 | 187   | 213     | 261   | 288     | 336   |
| AP52SR3   | 232           | 156   | 287                 | 363   | 417     | 493   | 547     | 623   |
| AP52SR4   | 309           | 208   | 210                 | 311   | 340     | 441   | 469     | 570   |
| AP73SR4   | 398           | 253   | 326                 | 471   | 507     | 652   | 688     | 833   |
| AP73SR5   | 498           | 317   | 226                 | 407   | 407     | 588   | 588     | 769   |
| AP73SR6   | 597           | 380   | 126                 | 343   | 307     | 524   | 488     | 706   |

Please Call Customer Service for Additional Size and Spring Configurations



## PVS2 & EVS2 Series

Clean Water, Air, or Light Oil Applications

3-Piece In-Line Maintenance Direct Mount  
Stainless Steel Actuated Ball Valve

1/4" - 1" 1500 PSI CWP • 1 1/4" - 1 1/2" 1250 PSI CWP  
2" 1000 PSI CWP • 2 1/2" - 3" 800 PSI CWP

The **DynaMatic Series** of actuated ball valves offers an excellent option for the majority of automated applications. The packaged valve and actuator unit is pre-sized and pre-

assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatically actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

- NPT Threaded Ends
- Stainless Steel Ball and Stem
- RTFE Seats
- Viton® O-Ring Stem Seals
- PTFE Stem Packing
- Swing-Out Design Allows In-Line Maintenance

Full Port  
1/4"-3"



### Catalog Number - Pneumatically Actuated

| Size   | Double Acting | Fail-Closed | Fail-Open    |
|--------|---------------|-------------|--------------|
| 1/4"   | PVS21AJD01    | PVS21AJS024 | PVS21AJS024F |
| 3/8"   | PVS22AJD01    | PVS22AJS024 | PVS22AJS024F |
| 1/2"   | PVS23AJD01    | PVS23AJS024 | PVS23AJS024F |
| 3/4"   | PVS24AJD01    | PVS24AJS024 | PVS24AJS024F |
| 1"     | PVS25AJD02    | PVS25AJS034 | PVS25AJS034F |
| 1 1/4" | PVS26AJD03    | PVS26AJS064 | PVS26AJS064F |
| 1 1/2" | PVS27AJD05    | PVS27AJS075 | PVS27AJS075F |
| 2"     | PVS28AJD06    | PVS28AJS084 | PVS28AJS084F |
| 2 1/2" | PVS29AJD08    | PVS29AJS103 | PVS29AJS103F |
| 3"     | PVS2AAJD09    | PVS2AAJS115 | PVS2AAJS115F |

### Catalog Number - Electrically Actuated

| Size   | 120 VAC                   | Low Voltage               |
|--------|---------------------------|---------------------------|
| 1/4"   | EVS21AJE20 <sup>(1)</sup> | EVS21AJE20H               |
| 3/8"   | EVS22AJE20 <sup>(1)</sup> | EVS22AJE20H               |
| 1/2"   | EVS23AJE20 <sup>(1)</sup> | EVS23AJE20H               |
| 3/4"   | EVS24AJE20 <sup>(1)</sup> | EVS24AJE20H               |
| 1"     | EVS25AJE21 <sup>(1)</sup> | EVS25AJE21H               |
| 1 1/4" | EVS26AJE25 <sup>(1)</sup> | EVS26AJE25H               |
| 1 1/2" | EVS27AJE01 <sup>(2)</sup> | EVS27AJE01 <sup>(2)</sup> |
| 2"     | EVS28AJE01 <sup>(2)</sup> | EVS28AJE01 <sup>(2)</sup> |
| 2 1/2" | EVS29AJE02 <sup>(2)</sup> | EVS29AJE02 <sup>(2)</sup> |
| 3"     | EVS2AAJE13 <sup>(2)</sup> | EVS2AAJE13 <sup>(2)</sup> |

### Options:

- <sup>(1)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "H" for 12 to 24 VAC, PH1 and 12 to 24 VDC
- <sup>(2)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "C" for 24 VAC, PH1  
Suffix "D" for 12 VDC  
Suffix "E" for 24 VDC  
Suffix "F" for 230 volt, PH3  
Suffix "G" for 460 volt, PH3



## PYSA & EYSA Series

Clean Water, Air, or Light Oil Applications

3-Way Stainless Steel Actuated Ball Valve

1/2" - 1" 1000 PSI CWP  
1 1/2" - 2" 800 PSI CWP

The **DynaMatic Series** of actuated ball valves offers an excellent option for the majority of automated applications. The packaged valve and actuator unit is pre-sized and pre-

assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

Full Port  
**1/2"-2"**

assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

- NPT Threaded Ends
- Stainless Steel Ball and Stem
- RTFE Seats
- Viton® Stem Seals
- PTFE Stem Packing
- 3-Way "L" Pattern
- 90° Standard Port Diverter



### Catalog Number - Pneumatically Actuated

| Size   | Double Acting | Fail-Closed | Fail-Open    |
|--------|---------------|-------------|--------------|
| 1/2"   | PYSA3AJD02    | PYSA3AJS044 | PYSA3AJS044F |
| 3/4"   | PYSA4AJD02    | PYSA4AJS054 | PYSA4AJS054F |
| 1"     | PYSA5AJD05    | PYSA5AJS074 | PYSA5AJS074F |
| 1 1/2" | PYSA7AJD07    | PYSA7AJS094 | PYSA7AJS094F |
| 2"     | PYSA8AJD08    | PYSA8AJS114 | PYSA8AJS114F |

### Catalog Number - Electrically Actuated

| Size   | 120 VAC                   | Low Voltage               |
|--------|---------------------------|---------------------------|
| 1/2"   | EYSA3AJE20 <sup>(1)</sup> | EYSA3AJE20H               |
| 3/4"   | EYSA4AJE25 <sup>(1)</sup> | EYSA4AJE25H               |
| 1"     | EYSA5AJE25 <sup>(1)</sup> | EYSA5AJE25H               |
| 1 1/2" | EYSA7AJE01 <sup>(2)</sup> | EYSA7AJE01 <sup>(2)</sup> |
| 2"     | EYSA8AJE02 <sup>(2)</sup> | EYSA8AJE02 <sup>(2)</sup> |

#### Options:

- <sup>(1)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "H" for 12 to 24 VAC, PH1 and 12 to 24 VDC
- <sup>(2)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "C" for 24 VAC, PH1  
Suffix "D" for 12 VDC  
Suffix "E" for 24 VDC  
Suffix "F" for 230 volt, PH3  
Suffix "G" for 460 volt, PH3

## PHS2 & EHS2 Series

Clean Water, Air, or Light Oil Applications

Stainless Steel Actuated Ball Valve

1500 PSI CWP

Full Port  
1/4"-3"

The **DynaMatic Series** of actuated ball valves offers an excellent option for the majority of automated applications. The packaged valve and actuator unit is pre-sized and pre-assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

- NPT Threaded Ends
- Stainless Steel Ball
- RTFE Seats
- PTFE/Viton® Stem Seals
- PTFE Stem Packing



### Catalog Number - Pneumatically Actuated

| Size   | Double Acting | Fail-closed  | Fail-Open     |
|--------|---------------|--------------|---------------|
| 1/4"   | PHS21AJD01    | PHS21AJS012  | PHS21AJS012F  |
| 1/2"   | PHS23AJD01    | PHS23AJS022  | PHS23AJS023F  |
| 3/4"   | PHS24AJD02    | PHS24AJS034  | PHS24AJS024F  |
| 1"     | PHS25AJD02    | PHS25AJS034  | PHS25AJS034F  |
| 1 1/2" | PHS27AJD03    | PHS27AJS064  | PHS27AJS053F  |
| 2"     | PHS28AJD06    | PHS28AJS075  | PHS28AJS084F  |
| 3"     | PHS2AAJD08    | PHS2AAJAS105 | PHS2AAJAS104F |

### Catalog Number - Electrically Actuated

| Size   | 120 VAC                   | Low Voltage               |
|--------|---------------------------|---------------------------|
| 1/4"   | EHS21AJE20 <sup>(1)</sup> | EHS21AJE20H               |
| 1/2"   | EHS23AJE20 <sup>(1)</sup> | EHS23AJE20H               |
| 3/4"   | EHS24AJE21 <sup>(1)</sup> | EHS24AJE21H               |
| 1"     | EHS25AJE21 <sup>(1)</sup> | EHS25AJE21H               |
| 1 1/2" | EHS27AJE25 <sup>(1)</sup> | EHS27AJE25H               |
| 2"     | EHS28AJE01 <sup>(2)</sup> | EHS28AJE01 <sup>(2)</sup> |
| 3"     | EHS2AAJE02 <sup>(2)</sup> | EHS2AAJE02 <sup>(2)</sup> |

#### Options:

- <sup>(1)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "H" for 12 to 24 VAC, PH1 and 12 to 24 VDC
- <sup>(2)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "C" for 24 VAC, PH1  
Suffix "D" for 12 VDC  
Suffix "E" for 24 VDC  
Suffix "F" for 230 volt, PH3  
Suffix "G" for 460 volt, PH3

## PHH2 & EHH2 Series

Clean Water, Air, or Light Oil Applications

Brass Actuated Ball Valve

600 PSI CWP

The **DynaMatic Series** of actuated ball valves offers an excellent option for the majority of automated applications. The packaged valve and actuator unit is pre-sized and

pre-assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

Full Port  
1/2"-4"

- NPT Threaded Ends
- Chrome-Plated Ball
- Reinforced Teflon Seats
- Viton® Stem Seals



### Catalog Number - Pneumatically Actuated

| Size   | Double Acting | Fail-Closed | Fail-Open    |
|--------|---------------|-------------|--------------|
| 1/2"   | PHH23ATD01    | PHH23ATS012 | PHH23ATS012F |
| 3/4"   | PHH24ATD01    | PHH24ATS012 | PHH24ATS012F |
| 1"     | PHH25ATD02    | PHH25ATS024 | PHH25ATS024F |
| 1 1/4" | PHH26ATD02    | PHH26ATS034 | PHH26ATS054F |
| 1 1/2" | PHH27ATD03    | PHH27ATS054 | PHH27ATS054F |
| 2"     | PHH28ATD03    | PHH28ATS064 | PHH28ATS074F |
| 3"     | PHH2AATD05    | PHH2AATS065 | PHH2AATS074F |
| 4"     | PHH2BATD07    | PHH2BATS094 | PHH2BATS094F |

### Catalog Number - Electrically Actuated

| Size   | 120 VAC                   | Low Voltage               |
|--------|---------------------------|---------------------------|
| 1/2"   | EHH23ATE20 <sup>(1)</sup> | EHH23ATE20H               |
| 3/4"   | EHH24ATE20 <sup>(1)</sup> | EHH24ATE20H               |
| 1"     | EHH25ATE20 <sup>(1)</sup> | EHH25ATE20H               |
| 1 1/4" | EHH26ATE25 <sup>(1)</sup> | EHH26ATE25H               |
| 1 1/2" | EHH27ATE25 <sup>(1)</sup> | EHH27ATE25H               |
| 2"     | EHH28ATE25 <sup>(1)</sup> | EHH28ATE25H               |
| 3"     | EHH2AATE01 <sup>(2)</sup> | EHH2AATE01 <sup>(2)</sup> |
| 4"     | EHH2BATE01 <sup>(2)</sup> | EHH2BATE01 <sup>(2)</sup> |

#### Options:

- <sup>(1)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "H" for 12 to 24 VAC, PH1 and 12 to 24 VDC
- <sup>(2)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "C" for 24 VAC, PH1  
Suffix "D" for 12 VDC  
Suffix "E" for 24 VDC  
Suffix "F" for 230 volt, PH3  
Suffix "G" for 460 volt, PH3



## PVA6 & EVA6 Series

Clean Water, Air, or Light Oil Applications

3-Piece In-Line Maintenance Direct Mount  
Bronze Actuated Ball Valve

600 PSI CWP

The **DynaMatic Series** of actuated ball valves offers an excellent option for the majority of automated applications. The packaged valve and actuator unit is pre-sized and pre-

assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

Full Port  
1/4"-2"

- NPT Threaded Ends
- Stainless Steel Ball & Stem
- PTFE Seats
- Viton® O-Ring Stem Seals
- PTFE Stem Packing
- Swing-Out Design Allows In-Line Maintenance



### Catalog Number - Pneumatically Actuated

| Size   | Double Acting | Fail-Closed | Fail-Open    |
|--------|---------------|-------------|--------------|
| 1/4"   | PVA61AMD01    | PVA61AMS012 | PVA61AMS012F |
| 3/8"   | PVA62AMD01    | PVA62AMS012 | PVA62AMS012F |
| 1/2"   | PVA63AMD01    | PVA63AMS012 | PVA63AMS012F |
| 3/4"   | PVA64AMD01    | PVA64AMS024 | PVA64AMS023F |
| 1"     | PVA65AMD01    | PVA65AMS024 | PVA65AMS024F |
| 1 1/4" | PVA66AMD02    | PVA66AMS034 | PVA66AMS034F |
| 1 1/2" | PVA67AMD02    | PVA67AMS035 | PVA67AMS034F |
| 2"     | PVA68AMD03    | PVA68AMS064 | PVA68AMS064F |

### Catalog Number - Electrically Actuated

| Size   | 120 VAC                   | Low Voltage |
|--------|---------------------------|-------------|
| 1/4"   | EVA61AME22 <sup>(1)</sup> | EVA61AME22H |
| 3/8"   | EVA62AME22 <sup>(1)</sup> | EVA62AME22H |
| 1/2"   | EVA63AME22 <sup>(1)</sup> | EVA63AME22H |
| 3/4"   | EVA64AME22 <sup>(1)</sup> | EVA64AME22H |
| 1"     | EVA65AME21 <sup>(1)</sup> | EVA65AME21H |
| 1 1/4" | EVA66AME21 <sup>(1)</sup> | EVA66AME21H |
| 1 1/2" | EVA67AME25 <sup>(1)</sup> | EVA67AME25H |
| 2"     | EVA68AME25 <sup>(1)</sup> | EVA68AME25H |

#### Options:

- <sup>(1)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "H" for 12 to 24 VAC,  
PH1 and 12 to 24 VDC

## PYHG & EYHG Series

Clean Water, Air, or Light Oil Applications

3-Way Brass Actuated Ball Valve

400 PSI CWP

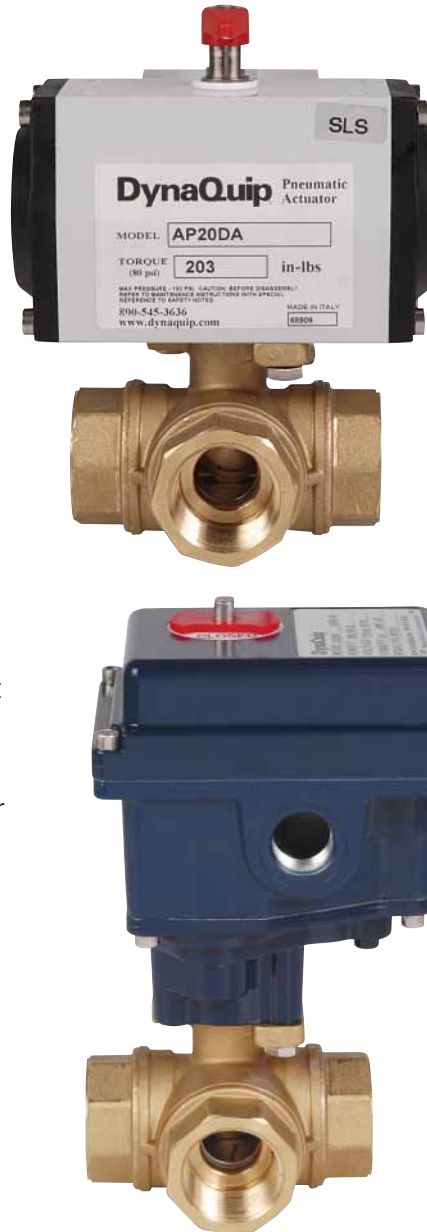
The **DynaMatic Series** of actuated ball valves offers an excellent option for the majority of automated applications. The packaged valve and actuator unit is pre-sized and

pre-assembled, taking the guesswork out of sizing and assembly. ISO 5211 direct-mount platform provides accurate alignment and a compact package without the need for clumsy brackets. Designed specifically for actuation, the ball valves have O-ring seals for lower torque and longer cycle life. Pneumatic actuated models are sized for 80 PSI air pressure minimum. Electrically actuated DynaMatic valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All DynaMatic models are pre-sized for clean water, air, or light oil applications. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

- NPT Threaded Ends
- Chrome-Plated Brass Ball
- RTFE Seats
- Viton® Stem Seals
- PTFE Stem Packing
- 3-Way "L" Pattern
- 90° Standard Port Diverter

Standard Port  
**1/4"-3"**



### Catalog Number - Pneumatically Actuated

| Size   | Double Acting | Fail-Closed | Fail-Open    |
|--------|---------------|-------------|--------------|
| 1/4"   | PYHG1AUD01    | PYHG1AUS024 | PYHG1AUS024F |
| 3/8"   | PYHG2AUD01    | PYHG2AUS024 | PYHG2AUS024F |
| 1/2"   | PYHG3AUD01    | PYHG3AUS024 | PYHG3AUS024F |
| 3/4"   | PYHG4AUD01    | PYHG4AUS024 | PYHG4AUS024F |
| 1"     | PYHG5AUD02    | PYHG5AUS054 | PYHG5AUS054F |
| 1 1/4" | PYHG6AUD02    | PYHG6AUS054 | PYHG6AUS054F |
| 1 1/2" | PYHG7AUD02    | PYHG7AUS054 | PYHG7AUS054F |
| 2"     | PYHG8AUD05    | PYHG8AUS074 | PYHG8AUS074F |
| 2 1/2" | PYHG9AUD05    | PYHG9AUS074 | PYHG9AUS074F |
| 3"     | PYHGAAUD05    | PYHGAAUS074 | PYHGAAUS074F |

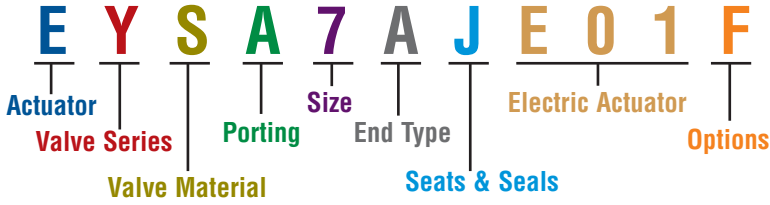
### Catalog Number - Electrically Actuated

| Size   | 120 VAC                   | Low Voltage               |
|--------|---------------------------|---------------------------|
| 1/4"   | EYHG1AUE20                | EYHG1AUE20H               |
| 3/8"   | EYHG2AUE20                | EYHG2AUE20H               |
| 1/2"   | EYHG3AUE20                | EYHG3AUE20H               |
| 3/4"   | EYHG4AUE20 <sup>(1)</sup> | EYHG4AUE20H               |
| 1"     | EYHG5AUE25 <sup>(1)</sup> | EYHG5AUE25H               |
| 1 1/4" | EYHG6AUE25 <sup>(1)</sup> | EYHG6AUE25H               |
| 1 1/2" | EYHG7AUE25 <sup>(1)</sup> | EYHG7AUE25H               |
| 2"     | EYHG8AUE01 <sup>(2)</sup> | EYHG8AUE01 <sup>(2)</sup> |
| 2 1/2" | EYHG9AUE01 <sup>(2)</sup> | EYHG9AUE01 <sup>(2)</sup> |
| 3"     | EYHGAAUE01 <sup>(2)</sup> | EYHGAAUE01 <sup>(2)</sup> |

#### Options:

- <sup>(1)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "H" for 12 to 24 VAC, PH1 and 12 to 24 VDC
- <sup>(2)</sup> Suffix "B" for 220 VAC, PH1  
Suffix "C" for 24 VAC, PH1  
Suffix "D" for 12 VDC  
Suffix "E" for 24 VDC  
Suffix "F" for 230 volt, PH3  
Suffix "G" for 460 volt, PH3

# Electric DynaMatic Numbering Guide



| Actuator                 |
|--------------------------|
| V - Manual (no actuator) |
| E - Electric             |
| P - Pneumatic            |

| Valve Series           |
|------------------------|
| A - High Pressure      |
| B - 3-pc Bolted        |
| H - 2-pc Direct Mount  |
| V - 3-pc Direct Mount  |
| Y - 3-way Direct Mount |

| Valve Material      |
|---------------------|
| A - Bronze          |
| C - Carbon Steel    |
| H - Brass           |
| S - Stainless Steel |

| Size           |
|----------------|
| 1 - 1/8 inch   |
| 2 - 1/4 inch   |
| 3 - 1/2 inch   |
| 4 - 3/4 inch   |
| 5 - 1 inch     |
| 6 - 1 1/4 inch |
| 7 - 1 1/2 inch |
| 8 - 2 inch     |
| 9 - 2 1/2 inch |
| A - 3 inch     |
| B - 4 inch     |

| Porting                         |
|---------------------------------|
| 1 - Standard Port               |
| 2 - Full Port                   |
| A - 3-way Full Port 90° "L"     |
| G - 3-way Standard Port 90° "L" |

| End Type               |
|------------------------|
| A - Threaded           |
| C - Socket Weld        |
| D - Sch 40 BVL BW x BW |
| E - 150# Flange        |
| F - 300# Flange        |
| N - O-Ring Boss SAE    |
| S - Tube Butt weld     |
| T - "T" Clamp (Tubing) |
| U - "T" Clamp (scd 10) |

| Seat/Seals            |
|-----------------------|
| J - RTFE/Viton®/TFE   |
| M - TFE/ Viton®/ RTFE |
| T - RTFE/Viton®       |
| U - PTFE/Viton®       |

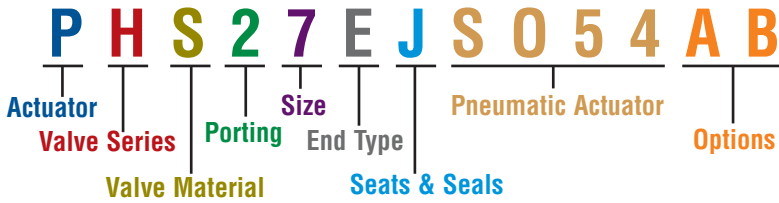
| Electric Actuators |
|--------------------|
| E20 - DE153        |
| E21 - DE154        |
| E25 - DE305        |
| E01 - MA7          |
| E02 - MA13         |
| E13 - MA20         |
| F02 - AE103        |
| F03 - AE104        |
| F04 - AE305        |
| F05 - AE407        |
| F06 - AE607        |
| F07 - AE675        |



| Electric Actuator Options |  |
|---------------------------|--|
| DE Series                 | H - 12 to 24 VDC or AC                         |
|                           | B - 220 VAC PH1                                |
| MA Series                 | B - 220 VAC PH1                                |
|                           | C - 24 VAC PH1                                 |
|                           | D - 12 VDC                                     |
|                           | E - 24 VDC                                     |
|                           | F - 230 VAC PH3                                |
|                           | G - 460 VAC PH3                                |
| AE Series                 | Consult factory for Voltage/Modulating Options |



# Pneumatic DynaMatic Numbering Guide



**Actuator**

V - Manual (no actuator)  
 E - Electric  
 P - Pneumatic

**Valve Series**

A - High Pressure  
 B - 3-pc Bolted  
 H - 2-pc Direct Mount  
 V - 3-pc Direct Mount  
 Y - 3-way Direct Mount

**Valve Material**

A - Bronze  
 C - Carbon Steel  
 H - Brass  
 S - Stainless Steel

**Size**

1 - 1/8 inch  
 2 - 1/4 inch  
 3 - 1/2 inch  
 4 - 3/4 inch  
 5 - 1 inch  
 6 - 1 1/4 inch  
 7 - 1 1/2 inch  
 8 - 2 inch  
 9 - 2 1/2 inch  
 A - 3 inch  
 B - 4 inch

**Porting**

1 - Standard Port  
 2 - Full Port  
 A - 3-way Full Port 90° "L"  
 G - 3-way Standard Port 90° "L"

**End Type**

A - Threaded  
 C - Socket Weld  
 D - Sch 40 BVL BW x BW  
 E - 150# Flange  
 F - 300# Flange  
 N - O-Ring Boss SAE  
 S - Tube Butt weld  
 T - "T" Clamp (Tubing)  
 U - "T" Clamp (scd 10)

**Seat/Seals**

J - RTFE/Viton®/TFE  
 M - TFE/ Viton®/ RTFE  
 T - RTFE/Viton®  
 U - PTFE/Viton®

**Double Acting Pneumatic Actuators**

D01 - AP10DA  
 D02 - AP20DA  
 D03 - AP30DA  
 D04 - AP34DA  
 D05 - AP52DA  
 D06 - AP73DA  
 D07 - AP103DA  
 D08 - AP148DA  
 D09 - AP222DA

**Spring Return Pneumatic Actuators**

|                 |                  |
|-----------------|------------------|
| S012 - AP10SR2  | S075 - AP103SR5  |
| S022 - AP20SR2  | S084 - AP148SR4  |
| S023 - AP20SR3  | S094 - AP222SR4  |
| S024 - AP20SR4  | S103 - AP295SR3  |
| S033 - AP30SR3  | S105 - AP295SR4  |
| S034 - AP30SR4  | S114 - AP470SR4  |
| S054 - AP52SR4  | S115 - AP470SR5  |
| S064 - AP73SR4  | S374 - APU295SR4 |
| S065 - AP73SR5  | S384 - APU470SR4 |
| S074 - AP103SR4 |                  |

**Pneumatic Actuator Options**

A - Solenoid Pilot Valve, 120AC  
 A2 - Solenoid Pilot Valve, 24VAC  
 A3 - Solenoid Pilot Valve, 24VDC  
 A4 - Solenoid Pilot Valve, 12VDC  
 B - Limit Switch, 2 SPDT Switches (145820.01)  
 B2 - Limit Switch, 2 SPDT Switches (NEMA 4, 4x, 7, 9)  
 C - Pneu Positioner w/gauges 3-15psi (40N-S1N-SF)  
 D - Electro-Pneu Positioner, 4-20 m.A. (41N-E1N-SF)  
 F - Fail "Open"

## DRAINMASTER®

For Draining Water, Condensate, and Other Sediment from Compressed Air Systems

Motorized Ball Valve with Digital Timer

Max. Working Pressure: 200 PSI

The **DRAINMASTER®** is used to drain water, condensate, and other sediment from compressed air systems without clogging and with minimum air loss. For compressed air it can be used on receivers, dryers, tanks, and drop legs; or the **DRAINMASTER®** can also be used for sampling and purging a wide variety of clean liquids or gases.

Full Port  
1/2" - 1"

Designed and built for long cycle life and maintenance-free operation. Full-flow ball valve is not prone to clogging like similar solenoid based condensate drain valves. **DRAINMASTER®** can be mounted in a variety of orientations for easier installations.

- **Adjustable Cycle Time: 10 Interval Settings from 5 Minutes to 24 Hours**
- **Discharge Time: 3.5 Seconds (Non-Adjustable)**
- **Operating Temperature: 35° to 165°F**
- **Motor Housing: Polycarbonate, NEMA 4 (Weatherproof)**
- **Ball Valve: Forged Brass**
- **Motor: Heavy Duty, Shaded Pole, Unidirectional**
- **Gear Train: Hardened Steel**
- **Power: 110 VAC, 60 Hz, PH1**
- **Power Cord: 8 Foot Grounded**
- **1/4" Bushing Included with 1/2" DRAINMASTER®**

| Catalog Number | Discharge Volume |
|----------------|------------------|
| AD1B 1/2"      | Approx. 0.92 Gal |
| AD1B 3/4"      | Approx. 1.65 Gal |
| AD1B 1"        | Approx. 2.5 Gal  |



WaterCop®  
peace of mind



innovative technology

WaterCop®

expertise

development

**DRAINMASTER®**  
problem solvers

*From industrial innovations to home and office solutions, DynaQuip has you covered!*

**Full Port  
1/2"-1 1/4"**

When people think of home or office security threats, burglary and fire are often the first things that come to

mind. Many people do not realize that leaky appliances and ruptured plumbing fixtures are two of the most damaging threats a property owner can face – to the tune of hundreds of millions of dollars *each year*.

Consider these facts:

- Approximately 5 million water heaters rupture annually in North America.
- Leaky washing machines alone cost homeowners an estimated \$250 million in damages each year.
- On average, a home is damaged by a leaking appliance or ruptured plumbing fixture every 34 seconds.
- Homeowners who have suffered a home break-in incur an average loss of \$1350, but a single water remediation project can cost \$250,000!

The WaterCop® system helps to effectively reduce the damage caused by plumbing related failures. Used as a stand-alone system or integrated into security systems, the main components of the WaterCop® system consist of a motorized valve that installs on the main water line; battery operated, wireless flood and low temperature sensors that are placed at or near appliances to be monitored; and a remote water control switch that allows control of the valve from a convenient location. When any sensor detects unwanted water, it immediately sends a

wireless signal to the WaterCop valve instructing it to close. When the valve closes, it protects everything downstream from possible flooding.

#### WaterCop® Features

- Easy installation
- Can be integrated with other home control, home security, and home automation systems
- Effectively reduces damage caused by the most common types of plumbing related floods
- Activates within seconds of detected water accumulation
- Supports an unlimited number of wireless sensors
- Heavy-duty, electrically actuated brass ball valve for quick, reliable closure
- User-adjustable digital channel encoding allows nearby systems to operate independently
- Endorsed by several major insurance companies

Customizing your own WaterCop® system is simple. To order, first select the correct valve size and add the WaterCop® Actuator. Then choose the number and type of sensors for maximum protection. Consider options like AC power adaptors or range-extending signal repeaters for sensors, and water control wall switch and cabling to increase notification and provide convenient control of your system.

*Bringing technology home... that's DynaQuip!*



| Catalog Number | Threads  |
|----------------|--|
| WCV 1/2        | 1/2" "WaterCop Ready" Brass Ball Valve                 |
| WCV 3/4        | 3/4" "WaterCop Ready" Brass Ball Valve                 |
| WCV 1          | 1" "WaterCop Ready" Brass Ball Valve                   |
| WCV 1 1/4      | 1 1/4" "WaterCop Ready" Brass Ball Valve               |
| WCACT1         | WaterCop Electric Actuator                             |
| WH100          | WaterCop Flood Sensor - Single Probe                   |
| WH200          | WaterCop Flood Sensor - Dual Probe                     |
| FH100          | WaterCop Low Temperature Sensor                        |
| WHX 1          | WaterCop Sensor Signal Repeater                        |
| ACA100         | AC Adaptor 110V/5.2VDC - for Flood/Temperature Sensors |
| RS100          | Water Control Wall Switch                              |
| CBL50          | Cat 5 Interconnect cable for RS100 – 50'               |
| CBL100         | Cat 5 Interconnect cable for RS100 – 100'              |





# Electric DynaFly Numbering Guide

**6 2 F 6 1 3 0 6 E 0 2 F**

Series      Body/Disc Trim      Seat      Valve Size      Electric Actuator      Options



| Series                                  |
|---|
| 30 - Wafer Resilient Seat-Nylon         |
| 32 - Lug Resilient Seat-Nylon           |
| 50 - Wafer Resilient Seat               |
| 52 - Lug Resilient Seat-Nylon           |
| 60 - Wafer Cartridge Seat               |
| 62 - Lug Cartridge Seat                 |
| 89 - Wafer Resilient (Split Wafer) Seat |
| 82 - Lug Resilient (Split Wafer) Seat   |

| Body/Disc Trim                                    |
|---|
| F1 - (169) Cast Iron / Nickel Plated Iron         |
| F2 - (170) Ductile Iron / Nickel Plated Iron      |
| F3 - (174) Aluminum / Ductile Iron                |
| F4 - (175) Aluminum / Bronze                      |
| F5 - (180) Aluminum / Nylon                       |
| F6 - (182) Ductile Iron / Ductile Iron            |
| F7 - (185) Ductile Iron / Aluminum Bronze         |
| F8 - (705) SS / Teflon® coated SS                 |
| F9 - (755) SS / SS                                |
| FA - (822) Ductile Iron / SS                      |
| FB - Aluminum / SS                                |
| Substitute "U" for "F" to designate undercut disc |

| Seat                          |
|-------------------------------|
| 02 - (514) EPDM               |
| 03 - (515) EPDM               |
| 04 - (516) Natural Rubber     |
| 05 - (517) Natural Rubber     |
| 07 - (540) Viton®             |
| 08 - (561) Silicone           |
| 11 - (650) PTFE coated EPDM   |
| 12 - (652) PTFE coated BUNA-N |
| 13 - (700) All Season Nitrile |

| Valve Size  |
|-------------|
| 02 - 2"     |
| 25 - 2 1/2" |
| 03 - 3"     |
| 04 - 4"     |
| 05 - 5"     |
| 06 - 6"     |
| 08 - 8"     |
| 10 - 10"    |
| 12 - 12"    |
| 14 - 14"    |
| 16 - 16"    |
| 18 - 18"    |
| 20 - 20"    |
| 24 - 24"    |
| 30 - 30"    |

| Electric Actuators |
|--------------------|
| E20 - DE153        |
| E21 - DE154        |
| E25 - DE305        |
| E01 - MA7          |
| E02 - MA13         |
| E13 - MA20         |
| F02 - AE103        |
| F03 - AE104        |
| F04 - AE305        |
| F05 - AE407        |
| F06 - AE607        |
| F07 - AE675        |

| Electric Actuator Options |
|---------------------------|
| <b>DE Series</b>          |
| H - 12 to 24 VDC or AC    |
| B - 220 VAC PH1           |
| <b>MA Series</b>          |
| B - 220 VAC PH1           |
| C - 24 VAC PH1            |
| D - 12 VDC                |
| E - 24 VDC                |
| F - 230 VAC PH3           |
| G - 460 VAC PH3           |

# Pneumatic DynaFly Numbering Guide

**6 2 F A 0 3 1 4 S 4 0 5 D 1**

Series      Body/Disc Trim      Seat      Valve Size      Pneumatic Actuator      Options

## Series

30 - Wafer Resilient Seat-Nylon  
 32 - Lug Resilient Seat-Nylon  
 50 - Wafer Resilient Seat  
 52 - Lug Resilient Seat-Nylon  
 60 - Wafer Cartridge Seat  
 62 - Lug Cartridge Seat  
 89 - Wafer Resilient (Split Wafer) Seat  
 82 - Lug Resilient (Split Wafer) Seat

## Body/Disc Trim

F1 - (169) Cast Iron / Nickel Plated Iron  
 F2 - (170) Ductile Iron / Nickel Plated Iron  
 F3 - (174) Aluminum / Ductile Iron  
 F4 - (175) Aluminum / Bronze  
 F5 - (180) Aluminum / Nylon  
 F6 - (182) Ductile Iron / Ductile Iron  
 F7 - (185) Ductile Iron / Aluminum Bronze  
 F8 - (705) SS / Teflon® coated SS  
 F9 - (755) SS / SS  
 FA - (822) Ductile Iron / SS  
 FB - Aluminum / SS

Substitute "U" for "F" to designate undercut disc

## Seat

02 - (514) EPDM  
 03 - (515) EPDM  
 04 - (516) Natural Rubber  
 05 - (517) Natural Rubber  
 07 - (540) Viton®  
 08 - (561) Silicone  
 11 - (650) PTFE coated EPDM  
 12 - (652) PTFE coated BUNA-N  
 13 - (700) All Season Nitrile

## Valve Size

|             |          |          |
|-------------|----------|----------|
| 02 - 2"     | 06 - 6"  | 16 - 16" |
| 25 - 2 1/2" | 08 - 8"  | 18 - 18" |
| 03 - 3"     | 10 - 10" | 20 - 20" |
| 04 - 4"     | 12 - 12" | 24 - 24" |
| 05 - 5"     | 14 - 14" | 30 - 30" |

## Spring Return Pneumatic Actuators

S012 - AP10SR2  
 S022 - AP20SR2  
 S023 - AP20SR3  
 S024 - AP20SR4  
 S033 - AP30SR3  
 S034 - AP30SR4  
 S054 - AP52SR4  
 S064 - AP73SR4  
 S065 - AP73SR5  
 S074 - AP103SR4  
 S075 - AP103SR5  
 S084 - AP148SR4  
 S094 - AP222SR4  
 S103 - AP295SR3  
 S105 - AP295SR4  
 S114 - AP470SR4  
 S115 - AP470SR5  
 S315 - APU30SR5  
 S325 - APU52SR5  
 S335 - APU73SR5  
 S345 - APU103SR5  
 S355 - APU148SR5  
 S365 - APU222SR5  
 S374 - APU295SR4  
 S375 - APU295SR5  
 S384 - APU470SR4  
 S385 - APU470SR5  
 S395 - APU586SR5  
 S405 - APU900SR5  
 S415 - APU1213SR5  
 S425 - APU2366SR5  
 S435 - APU2958SR5  
 S445 - APU3720SR5

## Double Acting Pneumatic Actuators

|               |                |                 |
|---------------|----------------|-----------------|
| D01 - AP10DA  | D09 - AP222DA  | D37 - APU295DA  |
| D02 - AP20DA  | D10 - AP295DA  | D38 - APU470DA  |
| D03 - AP30DA  | D31 - APU30DA  | D39 - APU586DA  |
| D04 - AP34DA  | D32 - APU52DA  | D40 - APU900DA  |
| D05 - AP52DA  | D33 - APU73DA  | D41 - APU1213DA |
| D06 - AP73DA  | D34 - APU103DA | D42 - APU2366DA |
| D07 - AP103DA | D35 - APU148DA | D43 - APU2958DA |
| D08 - AP148DA | D36 - APU222DA | D44 - APU3720DA |



## Pneumatic Actuator Options

A - Solenoid Pilot Valve, 120AC  
 A2 - Solenoid Pilot Valve, 24VAC  
 A3 - Solenoid Pilot Valve, 24VDC  
 A4 - Solenoid Pilot Valve, 12VDC  
 B - Limit Switch, 2 SPDT Switches (145820.01)  
 B2 - Limit Switch, 2 SPDT Switches (NEMA 4, 4x, 7, 9)  
 C - Pneu Positioner w/gauges 3-15psi (40N-S1N-SF)  
 D - Electro-Pneu Positioner, 4-20 m.A. (41N-E1N-SF)  
 F - Fail "Open"

# Valve Automation - Butterfly Valves

## DynaFly 340 & 342 Series

Process, Dry Bulk, Cement, and General Industrial Applications

Automated Butterfly Valves – Nylon Coated Disc

175 PSI

The DynaFly 340 & 342 Series valve has a ductile iron body with

a Nylon 11 coated disc. Nylon 11, an FDA approved vegetable-based

thermoplastic, is resistant to mold and fungus. Nylon 11 coating provides a high level of corrosion resistance, a durable surface, and low coefficient of friction. Operating temperature range: -40° to 300° F.

*(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

Sizes  
**2"-12"**

- Standard Wafer- and Lug-Style Ductile Iron Body
- Nylon 11 Coated Ductile Iron Disc
- Abrasion-Resistant Black Nitrile Seat
- 17-4 pH Stainless Steel Stub Shafts
- Meets ANSI 125/150 Flange Standards
- Two-Piece Shaft Design Allows for Thinner Profile Disc and Improved Flow Rates
- Designed for Quick Field Repair



### Catalog Number

|        |       | Pneumatic     |                                     |
|--------|-------|---------------|-------------------------------------|
|        |       | Double-Acting | Pneumatic Spring-Return Fail-Closed |
| 2"     | wafer | 30F21302D31   | 30F21302S324                        |
|        | lug   | 32F21302D31   | 32F21302S324                        |
| 2 1/2" | wafer | 30F21325D31   | 30F21325S064                        |
|        | lug   | 32F21325D31   | 32F21325S064                        |
| 3"     | wafer | 30F21303D32   | 30F21303S065                        |
|        | lug   | 32F21303D32   | 32F21303S065                        |
| 4"     | wafer | 30F21304D33   | 30F21304S354                        |
|        | lug   | 32F21304D33   | 32F21304S354                        |
| 5"     | wafer | 30F21305D34   | 30F21305S094                        |
|        | lug   | 32F21305D34   | 32F21305S094                        |
| 6"     | wafer | 30F21306D08   | 30F21306S105                        |
|        | lug   | 32F21306D08   | 32F21306S105                        |
| 8"     | wafer | 30F21308D10   | 30F21308S386                        |
|        | lug   | 32F21308D10   | 32F21308S386                        |
| 10"    | wafer | 30F21310D38   | 30F21310S404                        |
|        | lug   | 32F21310D38   | 32F21310S404                        |
| 12"    | wafer | 30F21312D39   | 30F21312S415                        |
|        | lug   | 32F21312D39   | 32F21312S415                        |

|        |       | Pneumatic Spring-Return |                            |
|--------|-------|-------------------------|----------------------------|
|        |       | Fail-Open               | Electric 120 VAC           |
| 2"     | wafer | 30F21302S324F           | 30F21302E01 <sup>(1)</sup> |
|        | lug   | 32F21302S324F           | 32F21302E01 <sup>(1)</sup> |
| 2 1/2" | wafer | 30F21325S064F           | 30F21325E01 <sup>(1)</sup> |
|        | lug   | 32F21325S064F           | 32F21325E01 <sup>(1)</sup> |
| 3"     | wafer | 30F21303S064F           | 30F21303E01 <sup>(1)</sup> |
|        | lug   | 32F21303S064F           | 32F21303E01 <sup>(1)</sup> |
| 4"     | wafer | 30F21304S354F           | 30F21304E01 <sup>(1)</sup> |
|        | lug   | 32F21304S354F           | 32F21304E01 <sup>(1)</sup> |
| 5"     | wafer | 30F21305S094F           | 30F21305E02 <sup>(1)</sup> |
|        | lug   | 32F21305S094F           | 32F21305E02 <sup>(1)</sup> |
| 6"     | wafer | 30F21306S104F           | 30F21306E02 <sup>(1)</sup> |
|        | lug   | 32F21306S104F           | 32F21306E02 <sup>(1)</sup> |
| 8"     | wafer | 30F21308S384F           | 30F21308E03 <sup>(1)</sup> |
|        | lug   | 32F21308S384F           | 32F21308E03 <sup>(1)</sup> |
| 10"    | wafer | 30F21310S404F           | 30F21310E04 <sup>(1)</sup> |
|        | lug   | 32F21310S404F           | 32F21310E04 <sup>(1)</sup> |
| 12"    | wafer | 30F21312S414F           | 30F21312E05 <sup>(1)</sup> |
|        | lug   | 32F21312S414F           | 32F21312E05 <sup>(1)</sup> |

### Options:

Automated valves of other materials available as custom packages – call 800-545-3636.

Additional voltages available.



# Valve Automation - Butterfly Valves

## DynaFly 500 & 522 Series

For General Industrial Applications

Automated Butterfly Valves – Resilient Seated

150 PSI

The **DynaFly 500 & 522 Series** is the workhorse of industrial butterfly valves.

**Sizes  
2"-12"**

This valve has a ductile iron body and disc and is available in both

lug and wafer styles. A boot-type seat encapsulates the inner body. Operating temperature range: -40° to 300° F. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3. For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

- **Standard Wafer- and Lug-Style Ductile Iron Body**
- **Ductile Iron Disc**
- **Abrasion-Resistant Black Nitrile Boot-Style Seat Allows Easy Field Repairs**
- **17-4 pH Stainless Steel Blowout Proof Stem**
- **Through-Shaft Retains Disc with Disc Screws**
- **Alignment Notches at Bottom of Wafer Valve Ease Installation**



### Catalog Number

|        |       | Pneumatic Double-Acting           |  | Pneumatic Spring-Return Fail-Closed |  |
|--------|-------|-----------------------------------|--|-------------------------------------|--|
| 2"     | wafer | 50F61302D31                       |  | 50F61302S324                        |  |
|        | lug   | 52F61302D31                       |  | 52F61302S324                        |  |
| 2 1/2" | wafer | 50F61325D32                       |  | 50F61325S065                        |  |
|        | lug   | 52F61325D32                       |  | 52F61302S065                        |  |
| 3"     | wafer | 50F61303D32                       |  | 50F61303S065                        |  |
|        | lug   | 52F61303D32                       |  | 52F61303S065                        |  |
| 4"     | wafer | 50F61304D33                       |  | 50F61304S345                        |  |
|        | lug   | 52F61304D33                       |  | 52F61304S345                        |  |
| 5"     | wafer | 50F61305D33                       |  | 50F61305S085                        |  |
|        | lug   | 52F61305D33                       |  | 52F61305S085                        |  |
| 6"     | wafer | 50F61306D08                       |  | 50F61306S104                        |  |
|        | lug   | 52F61306D08                       |  | 52F61306S104                        |  |
| 8"     | wafer | 50F61308D09                       |  | 50F61308S385                        |  |
|        | lug   | 52F61308D09                       |  | 52F61308S385                        |  |
| 10"    | wafer | 50F61310D37                       |  | 50F61310S395                        |  |
|        | lug   | 52F61310D37                       |  | 52F61310S395                        |  |
| 12"    | wafer | 50F61312D38                       |  | 50F61312S405                        |  |
|        | lug   | 52F61312D38                       |  | 52F61312S405                        |  |
|        |       | Pneumatic Spring-Return Fail-Open |  | Electric 120 VAC                    |  |
| 2"     | wafer | 50F61302S324F                     |  | 50F61302E01 <sup>(1)</sup>          |  |
|        | lug   | 52F61302S324F                     |  | 52F61302E01 <sup>(1)</sup>          |  |
| 2 1/2" | wafer | 50F61325S064F                     |  | 50F61325E01 <sup>(1)</sup>          |  |
|        | lug   | 52F61325S064F                     |  | 52F61325E01 <sup>(1)</sup>          |  |
| 3"     | wafer | 50F61303S064F                     |  | 50F61303E01 <sup>(1)</sup>          |  |
|        | lug   | 52F61303S064F                     |  | 52F61303E01 <sup>(1)</sup>          |  |
| 4"     | wafer | 50F61304S344F                     |  | 50F61304E01 <sup>(1)</sup>          |  |
|        | lug   | 52F61304S344F                     |  | 52F61304E01 <sup>(1)</sup>          |  |
| 5"     | wafer | 50F61305S084F                     |  | 50F61305E01 <sup>(1)</sup>          |  |
|        | lug   | 52F61305S084F                     |  | 52F61305E01 <sup>(1)</sup>          |  |
| 6"     | wafer | 50F61306S104F                     |  | 50F61306E02 <sup>(1)</sup>          |  |
|        | lug   | 52F61306S104F                     |  | 52F61306E02 <sup>(1)</sup>          |  |
| 8"     | wafer | 50F61308S384F                     |  | 50F61308E13 <sup>(1)</sup>          |  |
|        | lug   | 52F61308S384F                     |  | 52F61308E13 <sup>(1)</sup>          |  |
| 10"    | wafer | 50F61310S394F                     |  | 50F61310E03 <sup>(1)</sup>          |  |
|        | lug   | 52F61310S394F                     |  | 52F61310E03 <sup>(1)</sup>          |  |
| 12"    | wafer | 50F61312S404F                     |  | 50F61312E04 <sup>(1)</sup>          |  |
|        | lug   | 52F61312S404F                     |  | 52F61312E04 <sup>(1)</sup>          |  |

### Options:

Automated valves of other materials available as custom packages – call 800-545-3636.

Additional voltages available.

# Valve Automation - Butterfly Valves

## DynaFly 600 & 622 Series

HVAC, Commercial, Utility, and General Industrial Applications

Automated Butterfly Valves – Cartridge Style Seat

200 PSI

The **DynaFly 600 & 622 Series** is the butterfly valve of choice when both cost and quality are

considerations. The extended neck makes this the perfect valve for insulated

**Sizes  
2"-12"**

pipings. The disc is attached to the one-piece 416 stainless steel stem with precision taper pins. Nitrile seat has phenolic backing.

Operating temperature range: -40° to 300° F. *(PLEASE CALL CUSTOMER SERVICE for recommendations regarding dirty or severe service applications, lower airline supply pressures, or other voltage requirements.)*

For Electric Actuator details and options, please refer to pages 2 and 3.

For Pneumatic Actuator details and accessories, please refer to pages 4 and 5.

- **Cast Iron Valve Bodies for Wafer-Style Design and Ductile Iron Bodies for Lug-Style Design**
- **Nickel-Plated Ductile Iron Disc Pinned to a 416 Stainless Steel Stem**
- **Abrasion-Resistant Black Nitrile Cartridge Style Seat**
- **Neck Extended for Insulation Purposes**
- **Economical Heavy Duty Butterfly Valve**



### Catalog Number

|        |       | Pneumatic               |                                     |
|--------|-------|-------------------------|-------------------------------------|
|        |       | Double-Acting           | Pneumatic Spring-Return Fail-Closed |
| 2"     | wafer | 60F11302D31             | 60F11302S315                        |
|        | lug   | 62F61302D31             | 62F61302S315                        |
| 2 1/2" | wafer | 60F11325D31             | 60F11325S324                        |
|        | lug   | 62F61325D31             | 62F61325S324                        |
| 3"     | wafer | 60F11303D32             | 60F11303S064                        |
|        | lug   | 62F61303D32             | 62F61303S064                        |
| 4"     | wafer | 60F11304D33             | 60F11304S345                        |
|        | lug   | 62F61304D33             | 62F61304S345                        |
| 5"     | wafer | 60F11305D34             | 60F11305S355                        |
|        | lug   | 62F61305D34             | 62F61305S355                        |
| 6"     | wafer | 60F11306D35             | 60F11306S104                        |
|        | lug   | 62F61306D35             | 62F61306S104                        |
| 8"     | wafer | 60F11308D36             | 60F11308S385                        |
|        | lug   | 62F61308D36             | 62F61308S385                        |
| 10"    | wafer | 60F11310D37             | 60F11310S395                        |
|        | lug   | 62F61310D37             | 62F61310S395                        |
| 12"    | wafer | 60F11312D38             | 60F11312S405                        |
|        | lug   | 62F61312D38             | 62F61312S405                        |
|        |       | Pneumatic Spring-Return |                                     |
|        |       | Fail-Open               | Electric 120 VAC                    |
| 2"     | wafer | 60F11302S314F           | 60F11302E01 <sup>(1)</sup>          |
|        | lug   | 62F61302S314F           | 62F61302E01 <sup>(1)</sup>          |
| 2 1/2" | wafer | 60F11325S324F           | 60F11325E01 <sup>(1)</sup>          |
|        | lug   | 62F61325S324F           | 62F61325E01 <sup>(1)</sup>          |
| 3"     | wafer | 60F11303S064F           | 60F11303E01 <sup>(1)</sup>          |
|        | lug   | 62F61303S064F           | 62F61303E01 <sup>(1)</sup>          |
| 4"     | wafer | 60F11304S344F           | 60F11304E01 <sup>(1)</sup>          |
|        | lug   | 62F61304S344F           | 62F61304E01 <sup>(1)</sup>          |
| 5"     | wafer | 60F11305S354F           | 60F11305E01 <sup>(1)</sup>          |
|        | lug   | 62F61305S354F           | 62F61305E01 <sup>(1)</sup>          |
| 6"     | wafer | 60F11306S104F           | 60F11306E02 <sup>(1)</sup>          |
|        | lug   | 62F61306S104F           | 62F61306E02 <sup>(1)</sup>          |
| 8"     | wafer | 60F11308S384F           | 60F11308E03 <sup>(1)</sup>          |
|        | lug   | 62F61308S384F           | 62F61308E03 <sup>(1)</sup>          |
| 10"    | wafer | 60F11310S394F           | 60F11310E03 <sup>(1)</sup>          |
|        | lug   | 62F61310S394F           | 62F61310E03 <sup>(1)</sup>          |
| 12"    | wafer | 60F11312S404F           | 60F11312E04 <sup>(1)</sup>          |
|        | lug   | 62F61312S404F           | 62F61312E04 <sup>(1)</sup>          |

### Options:

Automated valves of other materials available as custom packages – call 800-545-3636.

Additional voltages available.

# Manual Valves Numbering Guide



| Series & Material                 |
|-----------------------------------|
| VAE - High Pressure Carbon Steel  |
| VBA - 3pc Bronze                  |
| VBE - 3pc Carbon Steel            |
| VBS - 3pc Stainless Steel         |
| VLE - 2pc Carbon Steel 3000psi    |
| VMA - 1 & 2pc Bronze              |
| VMB - 1 & 2pc Stainless Steel     |
| VME - 1 & 2pc Carbon Steel        |
| VMH - 1 & 2pc Brass               |
| VNH - Mini Valve Brass            |
| VVA - 3pc Direct Mount Bronze     |
| VVS - 3 pc Direct Mount Stainless |
| VYH - 3 Way Brass                 |
| VYS - 3 Way Stainless             |

| Port                  |
|-----------------------|
| 1 - Standard          |
| 2 - Full              |
| 3 - Reduced           |
| A - Full "L" port 90° |
| G - Std. "L" port 90° |

| End Connection            |
|---------------------------|
| A - FPT x FPT             |
| C - Skt Weld x Skt Weld   |
| N - O-Ring Boss SAE x SAE |
| P - MPT x FPT             |

| Seats & Seals                      |
|------------------------------------|
| 9 - RFTE TFE RTFE                  |
| 0 - Delrin® Buna RTFE              |
| J - RTFE Viton® RTFE (SS platform) |
| M - TFE Viton® RTFE                |

| Options                         |
|---------------------------------|
| OA - SS Ball and Stem           |
| OE - T-Handle                   |
| OP - Lockout Handle             |
| OQ - Oval Handle                |
| AP - SS Trim and Lockout Handle |





# Carbon Steel

## VME3 Series

For Hydraulic, Petroleum, and General Chemical Applications

Unibody Economy Ball Valves

1500 - 2000 PSI CWP

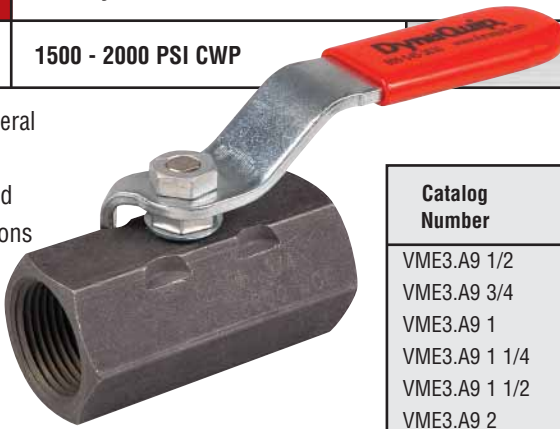
**VME3 Series** - A great choice for lower pressure general hydraulic and petroleum shut-off needs. Valves are unibody bar stock construction with phosphate coated bodies and NPT threaded connections in a reduced port design. Built strong and designed to last longer than lightweight imports.

**Reduced Port**  
1/2"-2"

*Options:*

- Stainless Steel Ball and Stem (OA)
- Latching Lockout Handle Kit (OP)
- "Gull Wing" Tee Handle (OE)
- Oval Handwheel (OQ)

- **Unibody Construction**
- **Blowout-Proof Stem Design**
- **Reinforced PTFE Seats and Seals**
- **Built Tough in the USA**



| Catalog Number | Seats   | Ball & Stem | PSI CWP | Temp. Range |
|----------------|---------|-------------|---------|-------------|
| VME3.A9 1/2    | RTFE    | CS          | 2000    | -20 to 425F |
| VME3.A9 3/4    | RTFE    | CS          | 2000    | -20 to 425F |
| VME3.A9 1      | RTFE    | CS          | 2000    | -20 to 425F |
| VME3.A9 1 1/4  | RTFE    | CS          | 2000    | -20 to 425F |
| VME3.A9 1 1/2  | RTFE    | CS          | 1500    | -20 to 425F |
| VME3.A9 2      | RTFE    | CS          | 1500    | -20 to 425F |
| VME3.A0 1 1/2  | Delrin® | CS          | 2000    | -20 to 180F |
| VME3.A0 2      | Delrin® | CS          | 2000    | -20 to 180F |

## VME1 Series

For Hydraulic, Petroleum, and General Chemical Applications

2-Piece Economy Ball Valves

1500 - 2000 PSI CWP

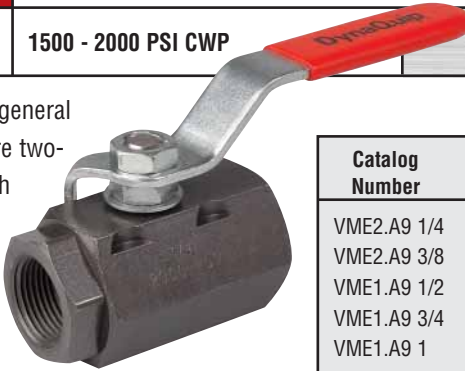
**VME1 Series** - A great choice for lower pressure general hydraulic and petroleum shut-off needs. Valves are two-piece bar stock construction with phosphate coated bodies and NPT threaded connections in a standard port design. Built strong and designed to last longer than lightweight imports.

**Full Port**  
1/4"-3/8"  
**Standard Port**  
1/2"-2"

*Options:*

- Stainless Steel Ball and Stem (OA)
- Latching Lockout Handle Kit (OP)
- "Gull Wing" Tee Handle (OE)
- Oval Handwheel (OQ)

- **Two-Piece Bar Stock Construction**
- **Blowout-Proof Stem Design**
- **Reinforced PTFE Seats and Seals**
- **Built Tough in the USA**



| Catalog Number | Seats   | Ball & Stem | PSI CWP | Temp. Range |
|----------------|---------|-------------|---------|-------------|
| VME2.A9 1/4    | RTFE    | CS          | 2000    | -20 to 425F |
| VME2.A9 3/8    | RTFE    | CS          | 2000    | -20 to 425F |
| VME1.A9 1/2    | RTFE    | CS          | 2000    | -20 to 425F |
| VME1.A9 3/4    | RTFE    | CS          | 2000    | -20 to 425F |
| VME1.A9 1      | RTFE    | CS          | 2000    | -20 to 425F |
| VME1.A9 1 1/4  | RTFE    | CS          | 1500    | -20 to 425F |
| VME1.A9 1 1/2  | RTFE    | CS          | 1500    | -20 to 425F |
| VME1.A9 2      | RTFE    | CS          | 1500    | -20 to 425F |
| VME1.A0 1 1/4  | Delrin® | CS          | 2000    | -20 to 180F |
| VME1.A0 1 1/2  | Delrin® | CS          | 2000    | -20 to 180F |
| VME1.A0 2      | Delrin® | CS          | 2000    | -20 to 180F |

## VLE2 Series

For Hydraulic, Petroleum, and Chemical Applications

2-Piece Medium Pressure Valves

3000 PSI CWP • 150 PSI WSP

**VLE2 Series** - The perfect choice for intermediate pressure hydraulic and industrial applications. Valves are heavy-duty two-piece bar stock construction with phosphate coated bodies and NPT threaded or SAE O-Ring Boss connections in a full port design. Strong and durable.

**Full Port**  
1/4"-1"

*Options:*

- Latching Lockout Handle Kit (OP)
- Stainless Steel Ball and Stem (OA)

- **Two-Piece Bar Stock Construction**
- **Blowout-Proof Stem Design**
- **Reinforced PTFE Seats and Seals**
- **Built Tough in the USA**



| Catalog Number | Threads | Seats | Ball & Stem | PSI WSP | Temp. Range |
|----------------|---------|-------|-------------|---------|-------------|
| VLE2.AK 1/4    | NPT     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.AK 3/8    | NPT     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.AK 1/2    | NPT     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.AK 3/4    | NPT     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.AK 1      | NPT     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.NK 1/4    | SAE     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.NK 3/8    | SAE     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.NK 1/2    | SAE     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.NK 3/4    | SAE     | RTFE  | CS          | 3000    | -20 to 425F |
| VLE2.NK 1      | SAE     | RTFE  | CS          | 3000    | -20 to 425F |

# Carbon Steel

## VBE2 Series

For Hydraulic, Petroleum, and General Chemical Applications

3-Piece Bolted In-Line Maintenance Valves

1000 PSI CWP • 150 PSI WSP

**VBE2 Series** ball valves are designed for hydraulic applications where maintenance is key. Three-piece investment cast steel bodies and endcaps. Available in NPT threaded or socket weld end connections.

Valves feature carbon-filled TFM seats, blowout-proof stems, and actuator mounting pad.

Operating temperature range: -20° to 425° F.

**Full Port  
1/4"-2"**

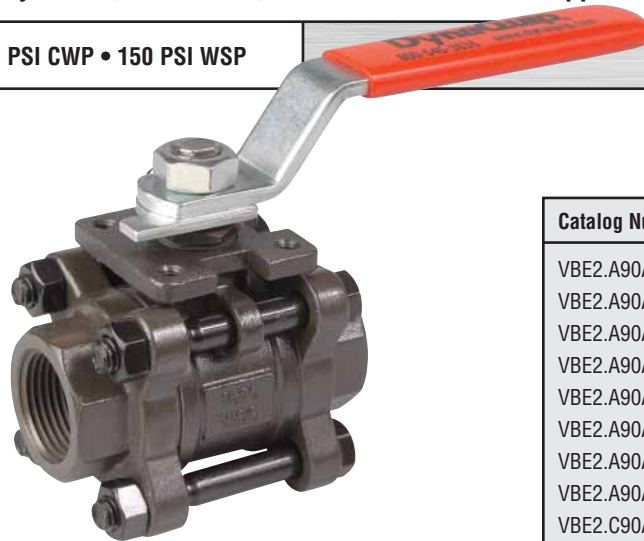
*Options:*

Latching Lockout Handle Kit (OP)

Stainless Oval Lockout Handle Kit (OQ)

*This valve can be automated.*

*Please call 800-545-3636 for details.*



- Simple, Fast Installation and Maintenance
- 316 SS Ball and Stem
- Adjustable Stem Packing
- Mounting Pad for Easy Actuation

| Catalog Number  | Threads     |
|-----------------|-------------|
| VBE2.A90A 1/4   | FNPT        |
| VBE2.A90A 3/8   | FNPT        |
| VBE2.A90A 1/2   | FNPT        |
| VBE2.A90A 3/4   | FNPT        |
| VBE2.A90A 1     | FNPT        |
| VBE2.A90A 1 1/4 | FNPT        |
| VBE2.A90A 1 1/2 | FNPT        |
| VBE2.A90A 2     | FNPT        |
| VBE2.C90A 1/2   | Socket Weld |
| VBE2.C90A 3/4   | Socket Weld |
| VBE2.C90A 1     | Socket Weld |
| VBE2.C90A 1 1/4 | Socket Weld |
| VBE2.C90A 1 1/2 | Socket Weld |
| VBE2.C90A 2     | Socket Weld |

## VAE2 Series

Water/Glycol, Water/Oil Emulsion, and Petroleum Fluids

High Pressure Hydraulic Ball Valves

4600 - 7000 PSI CWP

**VAE2 Series** ball valves are designed for high pressure hydraulic applications. Bar stock design

(1/4" - 1"), cast steel bodies (1 1/4" - 2"). Available in NPT threaded or SAE O-ring Boss end connections. Valves feature Delrin® seats,

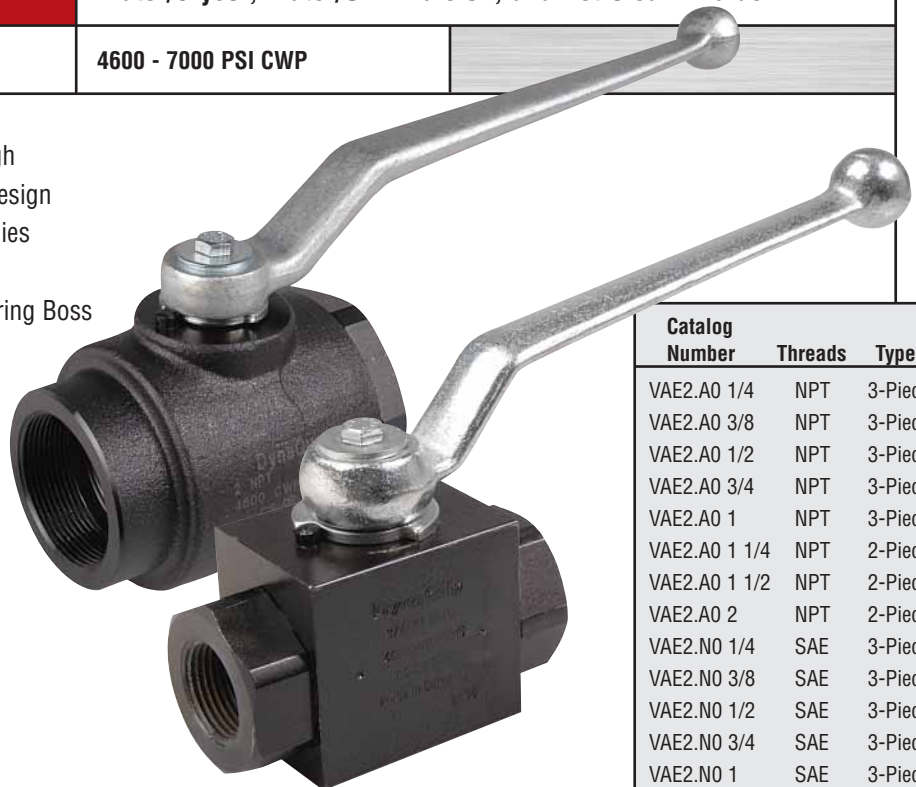
blowout-proof stems, and cast steel handles. Operating temperature range: -20° to 175° F.

*Options:*

Lockout Kit Available

- Heavy Duty Construction
- Blowout-Proof Stem Design
- Delrin® Seats for Smooth Operation
- 3:1 Pressure Safety Factor
- Not Recommended for Steam Service

**Full Port  
1/4"-2"**



*This valve can be automated.*

*Please call 800-545-3636 for details.*

| Catalog Number | Threads | Type    | PSI CWP |
|----------------|---------|---------|---------|
| VAE2.A0 1/4    | NPT     | 3-Piece | 7000    |
| VAE2.A0 3/8    | NPT     | 3-Piece | 7000    |
| VAE2.A0 1/2    | NPT     | 3-Piece | 5800    |
| VAE2.A0 3/4    | NPT     | 3-Piece | 4600    |
| VAE2.A0 1      | NPT     | 3-Piece | 4600    |
| VAE2.A0 1 1/4  | NPT     | 2-Piece | 4600    |
| VAE2.A0 1 1/2  | NPT     | 2-Piece | 4600    |
| VAE2.A0 2      | NPT     | 2-Piece | 4600    |
| VAE2.NO 1/4    | SAE     | 3-Piece | 7000    |
| VAE2.NO 3/8    | SAE     | 3-Piece | 7000    |
| VAE2.NO 1/2    | SAE     | 3-Piece | 5800    |
| VAE2.NO 3/4    | SAE     | 3-Piece | 4600    |
| VAE2.NO 1      | SAE     | 3-Piece | 4600    |
| VAE2.NO 1 1/4  | SAE     | 2-Piece | 4600    |
| VAE2.NO 1 1/2  | SAE     | 2-Piece | 4600    |
| VAE2.NO 2      | SAE     | 2-Piece | 4600    |

# Stainless Steel

## VMB Series

For General Chemical Applications

2-Piece Screwed Body Ball Valves

1/4" - 1" 2000 PSI WSP • 150 PSI WSP  
1 1/4" - 2" 1500 PSI CWP



**VMB Series** - Investment cast stainless steel valve with 316 SS trim is durable enough for severe service applications, yet economical enough for general chemical flow control. Panel mount is standard on all sizes. Adjustment of stem packing can be done while valve is in service.

Full Port  
**1/4"-1/2"**

Standard Port  
**3/4"-2"**

enough for severe service applications, yet economical enough for general chemical flow control. Panel mount is standard

- Meets NACE Standard MR0175
- Adjustable Stem Packing
- Reinforced PTFE Seats
- Blowout-Proof Stem Design

*Options:*

- Latching Lockout Handle Kit (OP)
- Oval Handle (OQ)

### Catalog Number

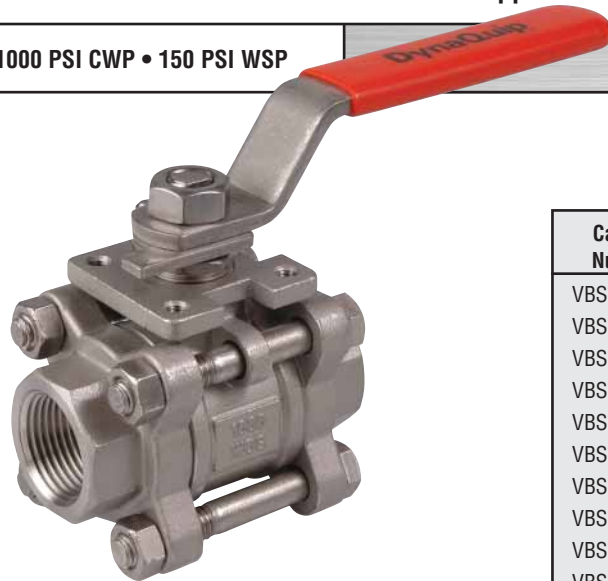
VMB2.A9 1/4  
VMB2.A9 3/8  
VMB1.A9 1/2  
VMB1.A9 3/4  
VMB1.A9 1  
VMB1.A9 1 1/4  
VMB1.A9 1 1/2  
VMB1.A9 2

## VBS2 Series

For Food and General Chemical Service Applications

3-Piece Bolted In-Line Maintenance Valves

1000 PSI CWP • 150 PSI WSP



**VBS2 Series** ball valves are designed for food and general chemical applications where maintenance is key. Three-piece 316 SS bodies and endcaps. Available in NPT threaded or socket weld end connections. Valves feature carbon-filled TFM seats, blowout-proof stems, and actuator mounting pad. Operating temperature range: -20° to 425° F.

Full Port  
**1/4"-2"**

where maintenance is key. Three-piece 316 SS bodies and endcaps. Available in NPT threaded or socket weld

end connections. Valves feature carbon-filled TFM seats, blowout-proof stems, and actuator mounting pad. Operating temperature range: -20° to 425° F.

*Options:*

- Latching Lockout Handle Kit (OP)
- Stainless Oval Lockout Handle Kit (OQ)

- Simple, Fast Installation and Maintenance
- Threaded or Socket Weld Connections
- Adjustable Stem Packing
- Mounting Pad for Easy Actuation

### Catalog Number

| Catalog Number | Threads     |
|----------------|-------------|
| VBS2.A9 1/4    | FNPT        |
| VBS2.A9 3/8    | FNPT        |
| VBS2.A9 1/2    | FNPT        |
| VBS2.A9 3/4    | FNPT        |
| VBS2.A9 1      | FNPT        |
| VBS2.A9 1 1/4  | FNPT        |
| VBS2.A9 1 1/2  | FNPT        |
| VBS2.A9 2      | FNPT        |
| VBS2.C9 1/2    | Socket Weld |
| VBS2.C9 3/4    | Socket Weld |
| VBS2.C9 1      | Socket Weld |
| VBS2.C9 1 1/4  | Socket Weld |
| VBS2.C9 1 1/2  | Socket Weld |
| VBS2.C9 2      | Socket Weld |

# Stainless Steel 3-Way

## VYS Series

For Food and General Chemical Applications

3-Way Screwed Body Ball Valves

1/2" - 1" 1000 PSI  
1 1/2" - 2" 800 PSI

**VYS Series** - Three-way utility ball valve has a 90° "L" port (diverter) design and features an investment cast body, stainless steel trim, RTFE seats, blowout-proof stem, and NPT end connections. ISO

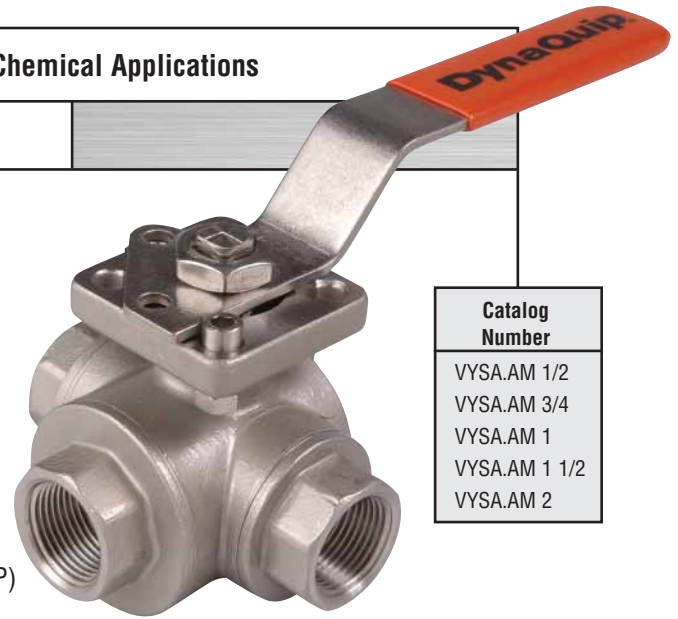
5211 mounting pad makes automation easy. Operating temperature range: -20° to 450° F.

Full Port  
1/2"-2"

- Self-Adjusting Stem Packing
- Blowout-Proof Stem Design
- Investment Cast Body and End Caps
- ISO 5211 Direct Mount Pad
- Not Recommended for Steam Service

*Options:*  
Latching Lockout Handle Kit (OP)

*This valve is automated on page 7.*



Catalog Number

VYSA.AM 1/2  
VYSA.AM 3/4  
VYSA.AM 1  
VYSA.AM 1 1/2  
VYSA.AM 2

## VVS2 Series

For Food and General Chemical Applications

3-Piece Bolted, Direct Mount, In-Line Maintenance Valves

1/4" - 1 1/4" 2000 PSI CWP • 150 PSI WSP  
1 1/2" - 3" 1500 PSI CWP

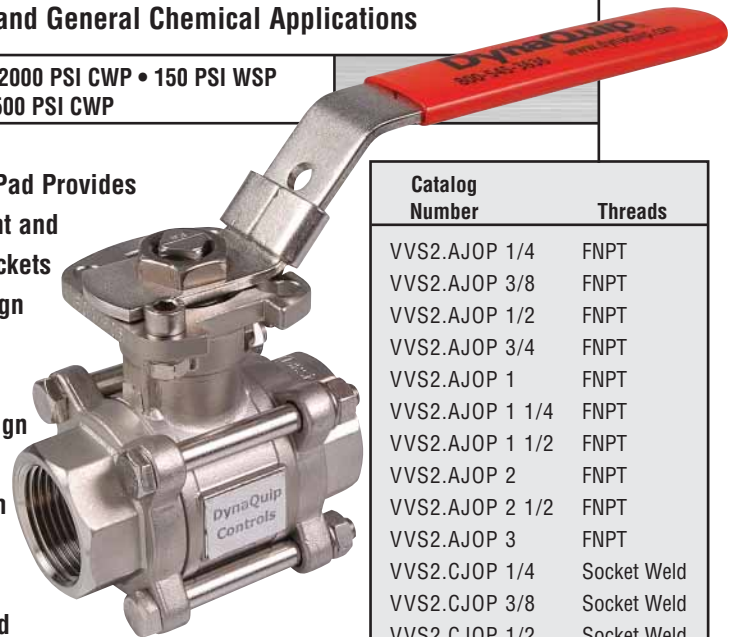
**VVS2 Series** ball valves are designed for food and general chemical applications where maintenance is key. Three-piece 316 SS bodies and end connections. Available in NPT

threaded or socket weld end connections. Valves feature RTFE seats, blowout-proof stems, and actuator mounting pad. Latch-lock handles standard for manually operated valves. Operating temperature range: -20° to 450° F.

Full Port  
1/4"-3"

- ISO 5211 Direct Mount Pad Provides Accurate Stem Alignment and Eliminates Need for Brackets
- 3-Piece Swing-Out Design Provides Easy In-Line Maintenance
- Blowout-Proof Stem Design
- Stainless Steel Body, End Caps, Ball and Stem
- Adjustable Stem Seal
- Replaces VBS Series
- Lockout Handle Standard

*This valve is automated on page 6.*



Catalog Number

Threads

|                 |             |
|-----------------|-------------|
| VVS2.AJOP 1/4   | FNPT        |
| VVS2.AJOP 3/8   | FNPT        |
| VVS2.AJOP 1/2   | FNPT        |
| VVS2.AJOP 3/4   | FNPT        |
| VVS2.AJOP 1     | FNPT        |
| VVS2.AJOP 1 1/4 | FNPT        |
| VVS2.AJOP 1 1/2 | FNPT        |
| VVS2.AJOP 2     | FNPT        |
| VVS2.AJOP 2 1/2 | FNPT        |
| VVS2.AJOP 3     | FNPT        |
| VVS2.CJOP 1/4   | Socket Weld |
| VVS2.CJOP 3/8   | Socket Weld |
| VVS2.CJOP 1/2   | Socket Weld |
| VVS2.CJOP 3/4   | Socket Weld |
| VVS2.CJOP 1     | Socket Weld |
| VVS2.CJOP 1 1/4 | Socket Weld |
| VVS2.CJOP 1 1/2 | Socket Weld |
| VVS2.CJOP 2     | Socket Weld |
| VVS2.CJOP 2 1/2 | Socket Weld |
| VVS2.CJOP 3     | Socket Weld |



## VMA Series

For Commercial and General Industrial Applications

2-Piece Screwed Body Ball Valve

600 PSI CWP • 150 PSI WSP

**VMA Series** - Maximum strength, durability, and maintenance-free operation all in one

package! Industrial two-piece bronze valves are precision machined and designed to out last lightweight imports.

Operating temperature range: -20° to 425° F.

**Full Port**  
**1/4"-1/2"**  
**Standard Port**  
**3/4"-2"**

*Options:*

Latching Lockout Handle Kit (OP)  
Stainless Steel Trim Available (OA)

- Two Piece Bar Stock Construction
- Reinforced PTFE Seats and Seals
- Blowout-Proof Stem Design
- Corrosion-Resistant Handle
- with Adjustable Packing
- 4:1 Pressure Safety Factor



| Catalog Number  | Trim   | Porting  |
|-----------------|--------|----------|
| VMA2.AMAP 1/4   | BRASS  | FULL     |
| VMA2.AMAP 3/8   | BRASS  | FULL     |
| VMA1.AMAP 1/2   | BRASS  | FULL     |
| VMA1.AMAP 3/4   | BRASS  | STANDARD |
| VMA1.AMAP 1     | BRASS  | STANDARD |
| VMA1.AMAP 1 1/4 | BRASS  | STANDARD |
| VMA1.AMAP 1 1/2 | BRASS  | STANDARD |
| VMA1.AMAP 2     | BRASS  | STANDARD |
| VMA2.A90A 1/4   | 316 SS | FULL     |
| VMA2.A90A 3/8   | 316 SS | FULL     |
| VMA1.A90A 1/2   | 316 SS | FULL     |
| VMA1.A90A 3/4   | 316 SS | STANDARD |
| VMA1.A90A 1     | 316 SS | STANDARD |
| VMA1.A90A 1 1/4 | 316 SS | STANDARD |
| VMA1.A90A 1 1/2 | 316 SS | STANDARD |
| VMA1.A90A 2     | 316 SS | STANDARD |

## VVA Series

For General Media Service

3-Piece Bolted In-Line Maintenance Valves with Stainless Steel Trim

1/4" - 1" 600 PSI CWP • 150 PSI WSP  
2" - 4" 400 PSI CWP

**VVA2 Series** ball valves are designed for general industrial applications where

maintenance is key.

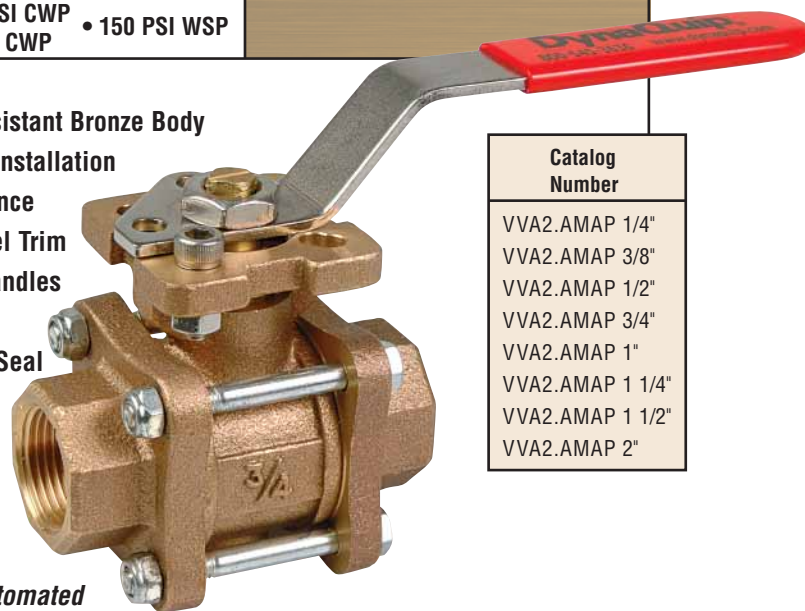
Three-piece bronze body valve has NPT end connections, 316 SS trim, ISO 5211 direct

mount pad, and latch-lock handles. Valves feature PTFE seats, blowout-proof stems, and a unique adjustable stem packing, which allows adjustment without handle or actuator removal. Operating temperature range: -20° to 400° F.

*Options:*

Repair kits available. Contact Customer Service at 800-545-3636.

- Corrosion-Resistant Bronze Body
- Simple, Fast Installation and Maintenance
- Stainless Steel Trim
- Latch-Lock Handles Standard
- Unique Stem Seal Adjustment
- ISO 5211 Direct Mount Pad



| Catalog Number   |
|------------------|
| VVA2.AMAP 1/4"   |
| VVA2.AMAP 3/8"   |
| VVA2.AMAP 1/2"   |
| VVA2.AMAP 3/4"   |
| VVA2.AMAP 1"     |
| VVA2.AMAP 1 1/4" |
| VVA2.AMAP 1 1/2" |
| VVA2.AMAP 2"     |

*This valve is automated on page 10.*

# Brass

## VMH2 Series

For Commercial and General Industrial Applications

2-Piece Screwed Body Ball Valve

Full Port 600 PSI CWP • 150 PSI WSP  
Standard Port 450 PSI CWP

**VMH2 Series** - Maximum strength, durability, and maintenance-free operation all in one package!

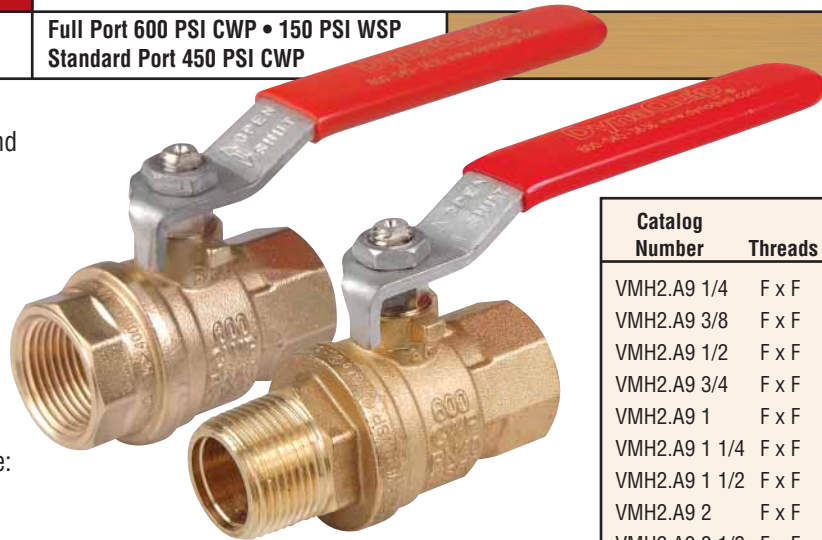
Industrial two-piece, forged brass valves are precision machined and designed to out last lightweight imports. Available in female x female or male x female threading. Operating temperature range: -20° to 370° F.

**Full Port**  
**1/4"-4"**  
**Standard Port**  
**2 1/2"-3"**

*Options:*

Latching Lockout Handle Kit (OP)  
"Gull Wing" Tee Handle (OE)

- Two-Piece Bar Stock Construction
- Blowout-Proof Stem Design with Adjustable Packing
- Reinforced PTFE Seats and Seals



| Catalog Number | Threads | Port     | PSI CWP |
|----------------|---------|----------|---------|
| VMH2.A9 1/4    | F x F   | FULL     | 600     |
| VMH2.A9 3/8    | F x F   | FULL     | 600     |
| VMH2.A9 1/2    | F x F   | FULL     | 600     |
| VMH2.A9 3/4    | F x F   | FULL     | 600     |
| VMH2.A9 1      | F x F   | FULL     | 600     |
| VMH2.A9 1 1/4  | F x F   | FULL     | 600     |
| VMH2.A9 1 1/2  | F x F   | FULL     | 600     |
| VMH2.A9 2      | F x F   | FULL     | 600     |
| VMH2.A9 2 1/2  | F x F   | FULL     | 600     |
| VMH2.A9 3      | F x F   | FULL     | 600     |
| VMH2.A9 4      | F x F   | FULL     | 600     |
| VMH1.A9 2 1/2  | F x F   | STANDARD | 450     |
| VMH1.A9 3      | F x F   | STANDARD | 450     |
| VMH2.P9 1/4    | M x F   | FULL     | 600     |
| VMH2.P9 3/8    | M x F   | FULL     | 600     |
| VMH2.P9 1/2    | M x F   | FULL     | 600     |
| VMH2.P9 3/4    | M x F   | FULL     | 600     |
| VMH2.P9 1      | M x F   | FULL     | 600     |

- Corrosion-Resistant Handle
- Approvals Include: UL® for LP Gas, AGA® and CGA® for Natural Gas, Factory Mutual for Fire Protection
- 4:1 Pressure Safety Factor

*This valve is automated on page 9.*

## VMH2 Exhaust Series

For Compressed Air Service - Lockout/Tagout

2-Piece Safety Exhaust Valve

200 PSI CWP

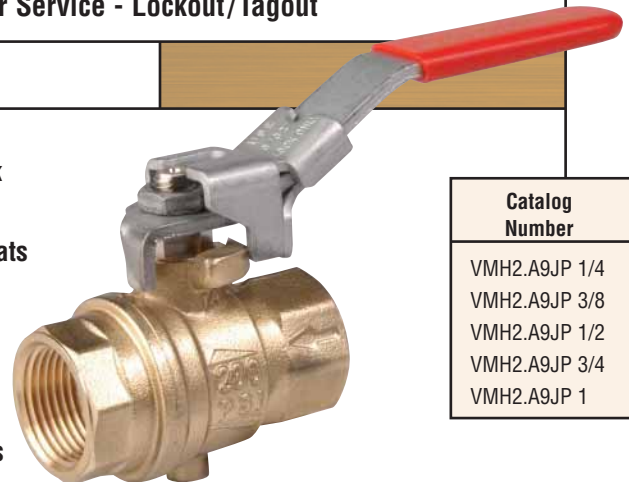
**VMH2 Exhaust Series** - Safety exhaust ball valves automatically vent residual air on the downstream side when closed. Tamper-resistant lockout/tagout design for

additional safety. Threaded exhaust port for mounting mufflers. Heavy-duty forged brass, blowout-proof

stem, and orange safety handle for additional safety and durability. Operating temperature range: 40° to 140° F.

**Full Port**  
**1/4"-1"**

- Two-Piece Bar Stock Construction
- Reinforced PTFE Seats and Seals
- Meets OSHA Req. 1910.147 for Energy Isolating and Lockout Devices



| Catalog Number |
|----------------|
| VMH2.A9JP 1/4  |
| VMH2.A9JP 3/8  |
| VMH2.A9JP 1/2  |
| VMH2.A9JP 3/4  |
| VMH2.A9JP 1    |

# Brass

## VYH Series

For General Industrial Applications

3-Way Utility Ball Valve

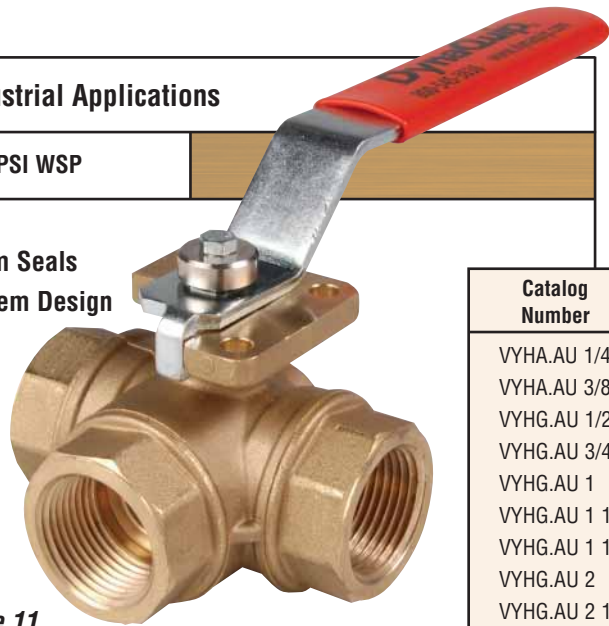
400 PSI CWP • 100 PSI WSP

**VYH Series** - Three-way utility ball valve is a 90° "L" port design and features blowout-proof stem, chrome-plated brass ball, and NPT end connections. Designed for automation, this valve has double O-ring stem packing for reduced torque and ISO 5211 mounting pad. Operating temperature range: -20° to 450° F.

**Standard Port**  
**1/2"-4"**

- Low Friction Stem Seals
- Blowout-Proof Stem Design
- Four Seat Design
- ISO 5211 Direct Mount Pad

*This valve is automated on page 11.*



**Catalog Number**

- VYHA.AU 1/4
- VYHA.AU 3/8
- VYHG.AU 1/2
- VYHG.AU 3/4
- VYHG.AU 1
- VYHG.AU 1 1/4
- VYHG.AU 1 1/2
- VYHG.AU 2
- VYHG.AU 2 1/2
- VYHG.AU 3

## VNH3 Series

For Commercial and General Industrial Applications

1-Piece Mini Ball Valve

450 PSI CWP

**VNH3 Series** - Mini valve for small line fluid and gas control applications. Industrial quality, one-piece brass bar stock design chrome plated for corrosion resistance. Multi-directional operation. Operating temperature range: -20° to 200° F.

**Full Port**  
**1/8"-1/4"**

**Standard Port**  
**3/8"-1/2"**

- Space Saving
- PTFE Seats, Viton® Stem Seal
- Male or Female Threads
- Corrosion-Resistant Nylon Wing Handle
- UL Approved for Refrigerant

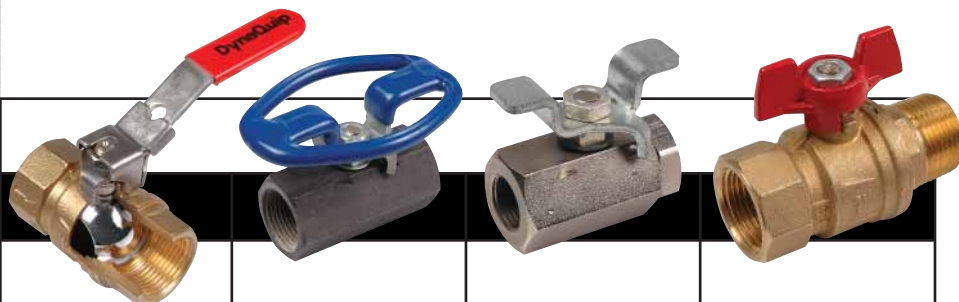
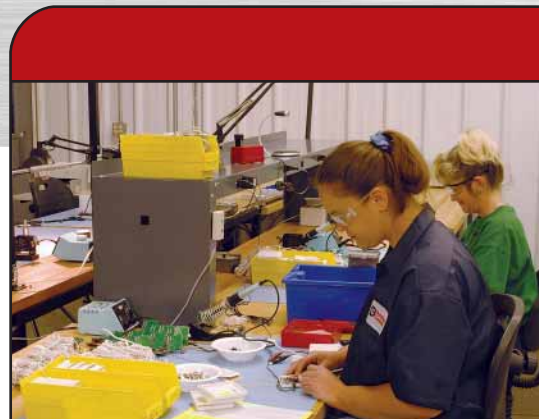


**Catalog Number**      **Threads**      **Port**

|             |       |          |
|-------------|-------|----------|
| VNH3.AM 1/8 | F X F | FULL     |
| VNH3.AM 1/4 | F X F | FULL     |
| VNH3.AM 3/8 | F X F | STANDARD |
| VNH3.AM 1/2 | F X F | STANDARD |
| VNH3.PM 1/4 | M X F | FULL     |
| VNH3.PM 3/8 | M X F | STANDARD |
| VNH3.PM 1/2 | M X F | STANDARD |



# Valve Handles



**Lockout Handle**  
*Option Suffix "OP"*  
 For padlocking valves in open and closed position. Meets OSHA regulations on lockout.

**Oval Handle**  
*Option Suffix "OQ"*  
 For safety purposes and ease of use. Works well for reducing space.

**Gull Wing Handle**  
*Option Suffix "OE"*  
 Compact handle for space and security.

**Tee Handle**  
*Option Suffix "OE"*  
 Bright red handle, easy to identify for safety. Fits in tight spaces.

| Valve Series         | Sizes           | Part Number | Part Number | Part Number | Part Number |
|----------------------|-----------------|-------------|-------------|-------------|-------------|
| <b>VAE</b>           | 1/4"            | 120035.1    |             |             |             |
|                      | 3/8"            | 120036.1    |             |             |             |
|                      | 1/2"            | 120037.1    |             |             |             |
|                      | 3/4" - 1"       | 120038.1    |             |             |             |
|                      | 1 1/4" - 2"     | 120039.1    |             |             |             |
| <b>VBA</b>           | 1/4" - 1/2"     | 185432      |             |             |             |
|                      | 3/4" - 1"       | 185433      |             |             |             |
|                      | 1 1/4" - 2"     | 185434      |             |             |             |
| <b>VBE &amp; VBS</b> | 1/4" - 1/2"     | 182264.01   | 182278.01   |             |             |
|                      | 3/4" - 1"       | 182265.01   | 182278.02   |             |             |
|                      | 1 1/4" - 2"     | 182266.01   | 182278.03   |             |             |
| <b>VLE</b>           | 1/4" - 3/8"     | 143147.01   |             |             |             |
|                      | 1/2"            | 143363.01   |             |             |             |
|                      | 3/4"            | 143366.01   |             |             |             |
|                      | 1"              | 143369.01   |             |             |             |
| <b>VMA</b>           | 1/4" - 1/2"     | 140245.01   |             |             |             |
|                      | 3/4" - 1"       | 140246.01   |             |             |             |
|                      | 1 1/4" - 2"     | 140247.01   |             |             |             |
| <b>VMB</b>           | 1/4" - 1/2"     | 144267.01   | 144064.025  |             |             |
|                      | 3/4" - 1"       | 144268.01   | 144064.075  |             |             |
|                      | 1 1/4" - 2"     | 144269.01   | 143122.150  |             |             |
| <b>VME1</b>          | 1/4" - 1/2"     | 143147.01   | 143122.050  | 143095      |             |
|                      | 3/4" - 1"       | 143148.01   | 143122.100  | 143096      |             |
|                      | 1 1/4" - 1 1/2" | 144269.01   | 143122.150  |             |             |
|                      | 2"              | 143296      | 143122.200  |             |             |
| <b>VME3</b>          | 1/4" - 1/2"     | 143147.01   | 143122.050  |             |             |
|                      | 3/4" - 1"       | 143148.01   | 143122.100  |             |             |
|                      | 1 1/4" - 2"     | 144269.01   | 143122.150  |             |             |
| <b>VMH2</b>          | 1/4" - 1/2"     | 151164.01   |             |             | 151171.01   |
|                      | 3/4" - 1"       | 151165.01   |             |             | 151172.01   |
|                      | 1 1/4" - 2"     | 151166.01   |             |             |             |
|                      | 2 1/2" - 4"     | 151159      |             |             |             |
| <b>VMH1</b>          | 2 1/2" - 3"     | 151326.01   |             |             |             |



For more information on DynaQuip Actuators or Valves call 800-545-3636  
10 Harris Industrial Park • St. Clair, MO 63077  
[www.dynaquip.com](http://www.dynaquip.com)

