

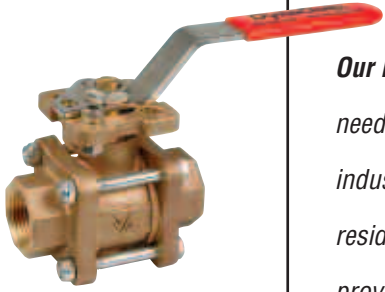
# DynaQuip®



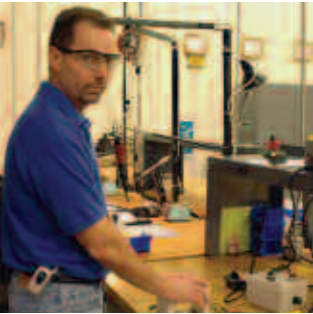
## Product Catalog

**Actuators • Actuated Valves • Ball Valves  
Butterfly Valves**

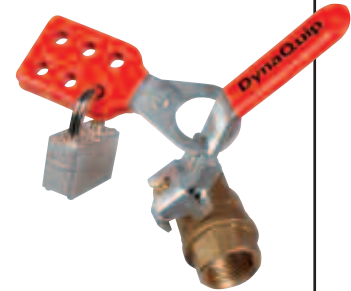
# DynaQuip



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



***Our Vision** is achieved through a continuous execution of creative ideas, open communications, proven design and manufacturing methodology, and exemplary levels of personalized service.*



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



***Our Business** will be conducted with manners that are socially responsible, earn respect for our integrity and ethics, and provide 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 personalized 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. Today, however, our product lines and design expertise have grown to include electric actuators, electronic

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

With our mission 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, 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 attention, 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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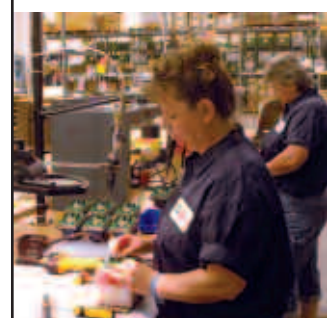
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# Valve Automation - DynaMatic

## EHH2 Series

Clean Water, Air, or Light Oil Applications

Brass Ball Valve - Electrically Actuated

600 PSI CWP

The **DynaMatic EHH2 Series** of electrically actuated brass valves

offers an excellent option for automated applications requiring durable yet economical brass. These

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

automated valves fit a wide range of applications. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The EHH2 Series uses our DE and MA Series electric actuators. The EHH2 Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC.

All models are pre-sized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- **NPT Female Threaded Ends**
- **Forged Brass Construction**
- **RTFE Seats, PTFE/Viton® Stem Seals**
- **Bottom Loaded Stem**



		With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	600	EHH23ATE20	EHH23ATE20H	EHH23ATE20H	EHH23ATE20H	EHH23ATE20B
3/4"	600	EHH24ATE20	EHH24ATE20H	EHH24ATE20H	EHH24ATE20H	EHH24ATE20B
1"	600	EHH25ATE20	EHH25ATE20H	EHH25ATE20H	EHH25ATE20H	EHH25ATE20B
1 1/4"	600	EHH26ATE25	EHH26ATE25H	EHH26ATE25H	EHH26ATE25H	EHH26ATE25B
1 1/2"	600	EHH27ATE25	EHH27ATE25H	EHH27ATE25H	EHH27ATE25H	EHH27ATE25B
2"	600	EHH28ATE25	EHH28ATE25H	EHH28ATE25H	EHH28ATE25H	EHH28ATE25B
3"	600	EHH2AATE01	EHH2AATE01C	EHH2AATE01E	EHH2AATE01D	EHH2AATE01B
4"	600	EHH2BATE01	EHH2BATE01C	EHH2BATE01E	EHH2BATE01D	EHH2BATE01B

\* Actuators sized for 300 psid.

230 and 460 VAC 3 Phase available.  
Modulating controls available.

# Valve Automation - DynaMatic

## PHH2 Series

Clean Water, Air, or Light Oil Applications

Brass Ball Valve - Pneumatic Actuated

600 PSI CWP

The DynaMatic PHH2 Series of air actuated brass valves offers an excellent

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

option for automated applications where economical forged brass is required. Two-piece design offers full port performance and rugged economy. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PHH2 Series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail closed or fail open

configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. Valves are pre-sized for 80 PSI minimum air pressure and for clean water, air, or light oil applications only.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- NPT Female Threaded Ends
- Forged Brass Construction
- Chrome Ball Plated
- RTFE Seats, Viton® Stem Seals



Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	600	PHH23ATD01	PHH23ATD01A	PHH23ATD01A2	PHH23ATD01A3	PHH23ATD01A4
3/4"	600	PHH24ATD01	PHH24ATD01A	PHH24ATD01A2	PHH24ATD01A3	PHH24ATD01A4
1"	600	PHH25ATD02	PHH25ATD02A	PHH25ATD02A2	PHH25ATD02A3	PHH25ATD02A4
1 1/4"	600	PHH26ATD02	PHH26ATD02A	PHH26ATD02A2	PHH26ATD02A3	PHH26ATD02A4
1 1/2"	600	PHH27ATD03	PHH27ATD03A	PHH27ATD03A2	PHH27ATD03A3	PHH27ATD03A4
2"	600	PHH28ATD03	PHH28ATD03A	PHH28ATD03A2	PHH28ATD03A3	PHH28ATD03A4
3"	600	PHH2AATD05	PHH2AATD05A	PHH2AATD05A2	PHH2AATD05A3	PHH2AATD05A4
4"	600	PHH2BATD07	PHH2BATD07A	PHH2BATD07A2	PHH2BATD07A3	PHH2BATD07A4

Fail Close		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	600	PHH23ATS012	PHH23ATS012A	PHH23ATS012A2	PHH23ATS012A3	PHH23ATS012A4
3/4"	600	PHH24ATS012	PHH24ATS012A	PHH24ATS012A2	PHH24ATS012A3	PHH24ATS012A4
1"	600	PHH25ATS024	PHH25ATS024A	PHH25ATS024A2	PHH25ATS024A3	PHH25ATS024A4
1 1/4"	600	PHH26ATS034	PHH26ATS034A	PHH26ATS034A2	PHH26ATS034A3	PHH26ATS034A4
1 1/2"	600	PHH27ATS054	PHH27ATS054A	PHH27ATS054A2	PHH27ATS054A3	PHH27ATS054A4
2"	600	PHH28ATS064	PHH28ATS064A	PHH28ATS064A2	PHH28ATS064A3	PHH28ATS064A4
3"	600	PHH2AATS065	PHH2AATS065A	PHH2AATS065A2	PHH2AATS065A3	PHH2AATS065A4
4"	600	PHH2BATS094	PHH2BATS094A	PHH2BATS094A2	PHH2BATS094A3	PHH2BATS094A4

Fail Open		With Spring Return (FO) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	600	PHH23ATS012F	PHH23ATS012FA	PHH23ATS012FA2	PHH23ATS012FA3	PHH23ATS012FA4
3/4"	600	PHH24ATS012F	PHH24ATS012FA	PHH24ATS012FA2	PHH24ATS012FA3	PHH24ATS012FA4
1"	600	PHH25ATS024F	PHH25ATS024FA	PHH25ATS024FA2	PHH25ATS024FA3	PHH25ATS024FA4
1 1/4"	600	PHH26ATS054F	PHH26ATS054FA	PHH26ATS054FA2	PHH26ATS054FA3	PHH26ATS054FA4
1 1/2"	600	PHH27ATS054F	PHH27ATS054FA	PHH27ATS054FA2	PHH27ATS054FA3	PHH27ATS054FA4
2"	600	PHH28ATS074F	PHH28ATS074FA	PHH28ATS074FA2	PHH28ATS074FA3	PHH28ATS074FA4
3"	600	PHH2AATS074F	PHH2AATS074FA	PHH2AATS074FA2	PHH2AATS074FA3	PHH2AATS074FA4
4"	600	PHH2AATS094F	PHH2AATS094FA	PHH2BATS094FA2	PHH2AATS094FA3	PHH2BATS094FA4

\*Actuator sized for 300 psid.

The **DynaMatic EYHG Series** of electrically actuated three-way brass valves offers an excellent option for automated diverter-type applications. With presized and

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

and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator bracket mounting styles. The EYHG series uses our DE and MA Series electric actuators. The EYHG Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All models are pre-sized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- Forged Brass Body
- Chrome Plated Brass Ball
- 3-Way "L" Pattern Diverter Ball Valve
- NPT Female Threaded Ends
- RTFE Seats
- Viton® Stem Seals



		With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	400	EYHG1AUE20	EYHG1AUE20H	EYHG1AUE20H	EYHG1AUE20H	EYHG1AUE20B
3/8"	400	EYHG2AUE20	EYHG2AUE20H	EYHG2AUE20H	EYHG2AUE20H	EYHG2AUE20B
1/2"	400	EYHG3AUE20	EYHG3AUE20H	EYHG3AUE20H	EYHG3AUE20H	EYHG3AUE20B
3/4"	400	EYHG4AUE20	EYHG4AUE20H	EYHG4AUE20H	EYHG4AUE20H	EYHG4AUE20B
1"	400	EYHG5AUE25	EYHG5AUE25H	EYHG5AUE25H	EYHG5AUE25H	EYHG5AUE25B
1 1/4"	400	EYHG6AUE25	EYHG6AUE25H	EYHG6AUE25H	EYHG6AUE25H	EYHG6AUE25B
1 1/2"	400	EYHG7AUE25	EYHG7AUE25H	EYHG7AUE25H	EYHG7AUE25H	EYHG7AUE25B
2"	400	EYHG8AUE01	EYHG8AUE01C	EYHG8AUE01E	EYHG8AUE01D	EYHG8AUE01B
2 1/2"	400	EYHG9AUE01	EYHG9AUE01C	EYHG9AUE01E	EYHG9AUE01D	EYHG9AUE01B
3"	400	EYHGAUE01	EYHGAUE01C	EYHGAUE01E	EYHGAUE01D	EYHGAUE01B

\* Actuators sized for 300 psid.

230 and 460 VAC 3 Phase available.  
Modulating controls available.

# Valve Automation - DynaMatic

## PYHG Series

Clean Water, Air, or Light Oil Applications

3-Way Brass Ball Valve - Pneumatic Actuated

400 PSI CWP

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

The DynaMatic PYHG Series of air actuated three-way brass ball valves offers an excellent option for automated diverter applications requiring rugged yet economical brass. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PYHG Series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail-closed or fail-open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for

efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. PYHG Series valves are presized for 80 PSI minimum air pressure and for clean water, air, or light oil applications only. (PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- Forged Brass Body
- Chrome-Plated Brass Ball
- 3 Way "L" Pattern Diverter Ball Valve
- NPT Female Threaded Ends
- RTFE Seats
- Viton® Stem Seals



Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	400	PYHG1AUD01	PYHG1AUD01A	PYHG1AUD01A2	PYHG1AUD01A3	PYHG1AUD01A4
3/8"	400	PYHG2AUD01	PYHG2AUD01A	PYHG2AUD01A2	PYHG2AUD01A3	PYHG2AUD01A4
1/2"	400	PYHG3AUD01	PYHG3AUD01A	PYHG3AUD01A2	PYHG3AUD01A3	PYHG3AUD01A4
3/4"	400	PYHG4AUD01	PYHG4AUD01A	PYHG4AUD01A2	PYHG4AUD01A3	PYHG4AUD01A4
1"	400	PYHG5AUD02	PYHG5AUD02A	PYHG5AUD02A2	PYHG5AUD02A3	PYHG5AUD02A4
1 1/4"	400	PYHG6AUD02	PYHG6AUD02A	PYHG6AUD02A2	PYHG6AUD02A3	PYHG6AUD02A4
1 1/2"	400	PYHG7AUD02	PYHG7AUD02A	PYHG7AUD02A2	PYHG7AUD02A3	PYHG7AUD02A4
2"	400	PYHG8AUD05	PYHG8AUD05A	PYHG8AUD05A2	PYHG8AUD05A3	PYHG8AUD05A4
2 1/2"	400	PYHG9AUD05	PYHG9AUD05A	PYHG9AUD05A2	PYHG9AUD05A3	PYHG9AUD05A4
3"	400	PYHGAUD05	PYHGAUD05A	PYHGAUD05A2	PYHGAUD05A3	PYHGAUD05A4

Fail Close		With Spring Return (FC)	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	400	PYHG1AUS024	PYHG1AUS024A	PYHG1AUS024A2	PYHG1AUS024A3	PYHG1AUS024A4
3/8"	400	PYHG2AUS024	PYHG2AUS024A	PYHG2AUS024A2	PYHG2AUS024A3	PYHG2AUS024A4
1/2"	400	PYHG3AUS024	PYHG3AUS024A	PYHG3AUS024A2	PYHG3AUS024A3	PYHG3AUS024A4
3/4"	400	PYHG4AUS024	PYHG4AUS024A	PYHG4AUS024A2	PYHG4AUS024A3	PYHG4AUS024A4
1"	400	PYHG5AUS054	PYHG5AUS054A	PYHG5AUS054A2	PYHG5AUS054A3	PYHG5AUS054A4
1 1/4"	400	PYHG6AUS054	PYHG6AUS054A	PYHG6AUS054A2	PYHG6AUS054A3	PYHG6AUS054A4
1 1/2"	400	PYHG7AUS054	PYHG7AUS054A	PYHG7AUS054A2	PYHG7AUS054A3	PYHG7AUS054A4
2"	400	PYHG8AUS074	PYHG8AUS074A	PYHG8AUS074A2	PYHG8AUS074A3	PYHG8AUS074A4
2 1/2"	400	PYHG9AUS074	PYHG9AUS074A	PYHG9AUS074A2	PYHG9AUS074A3	PYHG9AUS074A4
3"	400	PYHGAUS074	PYHGAUS074A	PYHGAUS074A2	PYHGAUS074A3	PYHGAUS074A4

Fail Open		With Spring Return (FO)	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	400	PYHG1AUS024F	PYHG1AUS024FA	PYHG1AUS024FA2	PYHG1AUS024FA3	PYHG1AUS024FA4
3/8"	400	PYHG2AUS024F	PYHG2AUS024FA	PYHG2AUS024FA2	PYHG2AUS024FA3	PYHG2AUS024FA4
1/2"	400	PYHG3AUS024F	PYHG3AUS024FA	PYHG3AUS024FA2	PYHG3AUS024FA3	PYHG3AUS024FA4
3/4"	400	PYHG4AUS024F	PYHG4AUS024FA	PYHG4AUS024FA2	PYHG4AUS024FA3	PYHG4AUS024FA4
1"	400	PYHG5AUS054F	PYHG5AUS054FA	PYHG5AUS054FA2	PYHG5AUS054FA3	PYHG5AUS054FA4
1 1/4"	400	PYHG6AUS054F	PYHG6AUS054FA	PYHG6AUS054FA2	PYHG6AUS054FA3	PYHG6AUS054FA4
1 1/2"	400	PYHG7AUS054F	PYHG7AUS054FA	PYHG7AUS054FA2	PYHG7AUS054FA3	PYHG7AUS054FA4
2"	400	PYHG8AUS074F	PYHG8AUS074FA	PYHG8AUS074FA2	PYHG8AUS074FA3	PYHG8AUS074FA4
2 1/2"	400	PYHG9AUS074F	PYHG9AUS074FA	PYHG9AUS074FA2	PYHG9AUS074FA3	PYHG9AUS074FA4
3"	400	PYHGAUS074F	PYHGAUS074FA	PYHGAUS074FA2	PYHGAUS074FA3	PYHGAUS074FA4

\*Actuator sized for 300 psid.

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# Valve Automation - DynaMatic

## EVA6 Series

Clean Water, Air, or Light Oil Applications

Three-Piece Bronze Ball Valve -  
Electrically Actuated

600 PSI CWP

The **DynaMatic EVA6 Series** of electrically actuated three-piece cast bronze valves offers an excellent option for automated applications where economical yet corrosion-

resistant bronze is required. Three-piece design offers full port performance in a small package. Valve center section swings out for quick and easy maintenance. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The EVA6

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

Series uses our DE Series electric actuators. The EVA6 Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All models are pre-sized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- **NPT Female Threaded Ends**
- **Swing-Out Design for Quick Repair**
- **Durable Bronze Construction**
- **316 Stainless Steel Ball and Stem**
- **PTFE Seats, Viton® Stem Seals**



		With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	600	EVA61AME22	EVA61AME22H	EVA61AME22H	EVA61AME22H	EVA61AME22B
3/8"	600	EVA62AME22	EVA62AME22H	EVA62AME22H	EVA62AME22H	EVA62AME22B
1/2"	600	EVA63AME22	EVA63AME22H	EVA63AME22H	EVA63AME22H	EVA63AME22B
3/4"	600	EVA64AME22	EVA64AME22H	EVA64AME22H	EVA64AME22H	EVA64AME22B
1"	600	EVA65AME21	EVA65AME21H	EVA65AME21H	EVA65AME21H	EVA65AME21B
1 1/4"	600	EVA66AME21	EVA66AME21H	EVA66AME21H	EVA66AME21H	EVA66AME21B
1 1/2"	600	EVA67AME25	EVA67AME25H	EVA67AME25H	EVA67AME25H	EVA67AME25B
2"	600	EVA68AME25	EVA68AME25H	EVA68AME25H	EVA68AME25H	EVA68AME25B

\* Actuators sized for 300 psid.

230 and 460 VAC 3 Phase available.  
Modulating controls available.



# Valve Automation - DynaMatic

## PVA2 Series

Clean Water, Air, or Light Oil Applications

Three-Piece Bronze Ball Valve -  
Pneumatic Actuated

600 PSI CWP

The **DynaMatic PVA2 Series** of air actuated three-piece bronze ball valves offers an excellent option for automated applications where economical yet corrosion resistant bronze is required. Three-piece design offers full port performance in a small package. Valve center section swings out for quick and easy maintenance. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PVA2 Series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail closed

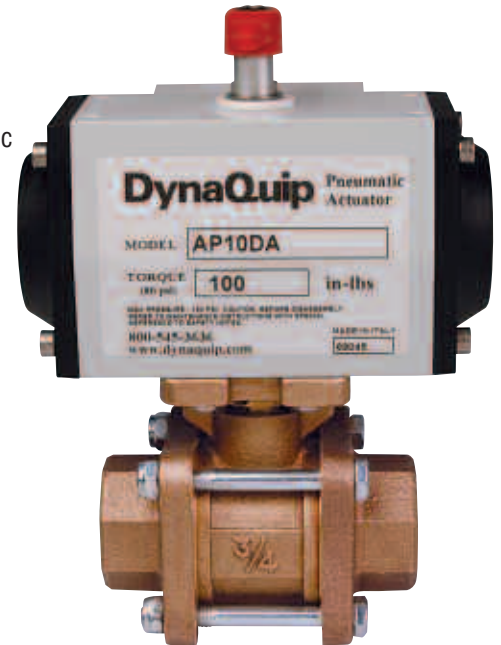
Full Port  
1/4"-2"

or fail open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. Valves are pre-sized for 80 PSI minimum air pressure and for clean water, air, or light oil applications only.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- NPT Female Threaded Ends
- Swing-Out Design for Quick Repair
- Durable Bronze Construction
- 316 Stainless Steel Ball and Stem
- PTFE Seats, Viton® Stem Seals



Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	600	PVA61AMD01	PVA61AMD01A	PVA61AMD01A2	PVA61AMD01A3	PVA61AMD01A4
3/8"	600	PVA62AMD01	PVA62AMD01A	PVA62AMD01A2	PVA62AMD01A3	PVA62AMD01A4
1/2"	600	PVA63AMD01	PVA63AMD01A	PVA63AMD01A2	PVA63AMD01A3	PVA63AMD01A4
3/4"	600	PVA64AMD01	PVA64AMD01A	PVA64AMD01A2	PVA64AMD01A3	PVA64AMD01A4
1"	600	PVA65AMD11	PVA65AMD11A	PVA65AMD11A2	PVA65AMD11A3	PVA65AMD11A4
1 1/4"	600	PVA66AMD02	PVA66AMD02A	PVA66AMD02A2	PVA66AMD02A3	PVA66AMD02A4
1 1/2"	600	PVA67AMD02	PVA67AMD02A	PVA67AMD02A2	PVA67AMD02A3	PVA67AMD02A4
2"	600	PVA68AMD03	PVA68AMD03A	PVA68AMD03A2	PVA68AMD03A3	PVA68AMD03A4

Fail Close		With Spring Return (FC) Actuator	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	600	PVA61AMS012	PVA61AMS012A	PVA61AMS012A2	PVA61AMS012A3	PVA61AMS012A4
3/8"	600	PVA62AMS012	PVA62AMS012A	PVA62AMS012A2	PVA62AMS012A3	PVA62AMS012A4
1/2"	600	PVA63AMS012	PVA63AMS012A	PVA63AMS012A2	PVA63AMS012A3	PVA63AMS012A4
3/4"	600	PVA64AMS023	PVA64AMS023A	PVA64AMS023A2	PVA64AMS023A3	PVA64AMS023A4
1"	600	PVA65AMS024	PVA65AMS024A	PVA65AMS024A2	PVA65AMS024A3	PVA65AMS024A4
1 1/4"	600	PVA66AMS034	PVA66AMS034A	PVA66AMS034A2	PVA66AMS034A3	PVA66AMS034A4
1 1/2"	600	PVA67AMS035	PVA67AMS035A	PVA67AMS035A2	PVA67AMS035A3	PVA67AMS035A4
2"	600	PVA68AMS064	PVA68AMS064A	PVA68AMS064A2	PVA68AMS064A3	PVA68AMS064A4

Fail Open		With Spring Return (FO) Actuator	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	600	PVA61AMS012F	PVA61AMS012FA	PVA61AMS012FA2	PVA61AMS012FA3	PVA61AMS012FA4
3/8"	600	PVA62AMS012F	PVA62AMS012FA	PVA62AMS012FA2	PVA62AMS012FA3	PVA62AMS012FA4
1/2"	600	PVA63AMS012F	PVA63AMS012FA	PVA63AMS012FA2	PVA63AMS012FA3	PVA63AMS012FA4
3/4"	600	PVA64AMS023F	PVA64AMS023FA	PVA64AMS023FA2	PVA64AMS023FA3	PVA64AMS023FA4
1"	600	PVA65AMS024F	PVA65AMS024FA	PVA65AMS024FA2	PVA65AMS024FA3	PVA65AMS024FA4
1 1/4"	600	PVA66AMS034F	PVA66AMS034FA	PVA66AMS034FA2	PVA66AMS034FA3	PVA66AMS034FA4
1 1/2"	600	PVA67AMS034F	PVA67AMS034FA	PVA67AMS034FA2	PVA67AMS034FA3	PVA67AMS034FA4
2"	600	PVA68AMS064F	PVA68AMS064FA	PVA68AMS064FA2	PVA68AMS064FA3	PVA68AMS064FA4

\*Actuator sized for 300 psid.

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# Valve Automation - DynaMatic

## EHS2 Series

General Industrial and Mildly Corrosive Media

**Stainless Steel Ball Valve -  
Electrically Actuated**

1/4" to 2" 1500 PSI CWP  
3" 800 PSI CWP

The **DynaMatic EHS2 Series** of electrically actuated stainless steel valves offers an excellent option for automated applications requiring corrosion resistant stainless steel.

Two-piece design offers flexibility and rugged economy. These automated valves fit a wide range of applications. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The EHS2 Series uses our DE and MA Series electric

actuators. The EHS2 Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All models are presized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- **NPT Female Threaded Ends**
- **Stainless Steel (CF8M) Construction**
- **RTFE Seats, PTFE/Viton® Stem Seals**
- **Bottom Loaded Stem**



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

		With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	EHS21AJE20	EHS21AJE20H	EHS21AJE20H	EHS21AJE20H	EHS21AJE20B
1/2"	1500	EHS23AJE20	EHS23AJE20H	EHS23AJE20H	EHS23AJE20H	EHS23AJE20B
3/4"	1500	EHS24AJE21	EHS24AJE21H	EHS24AJE21H	EHS24AJE21H	EHS24AJE21B
1"	1500	EHS25AJE21	EHS25AJE21H	EHS25AJE21H	EHS25AJE21H	EHS25AJE21B
1 1/2"	1500	EHS27AJE25	EHS27AJE25H	EHS27AJE25H	EHS27AJE25H	EHS27AJE25B
2"	1500	EHS28AJE01	EHS28AJE01C	EHS28AJE01E	EHS28AJE01D	EHS28AJE01B
3"	800	EHS2AAJE02	EHS2AAJE02C	EHS2AAJE02E	EHS2AAJE02D	EHS2AAJE02B

\* Actuators sized for 500 psid (1/4"=1"), 300 psid (1-1/2"=3").

230 and 460 VAC 3 phase available.  
Modulating controls available.

# Valve Automation - DynaMatic

## PHS2 Series

Clean Water, Air, or Light Oil Applications

Stainless Steel Ball Valve - Pneumatic Actuated

1/4" to 2" 1500 PSI CWP  
3" 800 PSI CWP

The **DynaMatic PHS2 Series** of air actuated stainless steel valves offers an excellent option for automated applications where corrosion resistant stainless steel is required. This

two-piece threaded design offers an economical solution to a wide range of chemical and corrosive fluid applications. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PHS2 Series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail closed or fail

open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. Valves are pre-sized for 80 PSI minimum air pressure and for clean water, air, or light oil applications only.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- NPT Female Threaded Ends
- Stainless Steel Construction 316 (CF8M)
- RTFE Seats, PTFE/Viton® Stem Seals
- Bottom Loaded Stem



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

Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	PHS21AJD01	PHS21AJD01A	PHS21AJD01A2	PHS21AJD01A3	PHS21AJD01A4
1/2"	1500	PHS23AJD01	PHS23AJD01A	PHS23AJD01A2	PHS23AJD01A3	PHS23AJD01A4
3/4"	1500	PHS24AJD02	PHS24AJD02A	PHS24AJD02A2	PHS24AJD02A3	PHS24AJD02A4
1"	1500	PHS25AJD02	PHS25AJD02A	PHS25AJD02A2	PHS25AJD02A3	PHS25AJD02A4
1 1/2"	1500	PHS27AJD03	PHS27AJD03A	PHS27AJD03A2	PHS27AJD03A3	PHS27AJD03A4
2"	1500	PHS28AJD06	PHS28AJD06A	PHS28AJD06A2	PHS28AJD06A3	PHS28AJD06A4
3"	1500	PHS2AAJD08	PHS2AAJD08A	PHS2AAJD08A2	PHS2AAJD08A3	PHS2AAJD08A4

Fail Close		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	PHS21AJS012	PHS21AJS012A	PHS21AJS012A2	PHS21AJS012A3	PHS21AJS012A4
1/2"	1500	PHS23AJS023	PHS23AJS023A	PHS23AJS023A2	PHS23AJS023A3	PHS23AJS023A4
3/4"	1500	PHS24AJS034	PHS24AJS034A	PHS24AJS034A2	PHS24AJS034A3	PHS24AJS034A4
1"	1500	PHS25AJS034	PHS25AJS034A	PHS25AJS034A2	PHS25AJS034A3	PHS25AJS034A4
1 1/2"	1500	PHS27AJS064	PHS27AJS064A	PHS27AJS064A2	PHS27AJS064A3	PHS27AJS064A4
2"	1500	PHS28AJS075	PHS28AJS075A	PHS28AJS075A2	PHS28AJS075A3	PHS28AJS075A4
3"	1500	PHS2AAJS105	PHS2AAJS105A	PHS2AAJS105A2	PHS2AAJS105A3	PHS2AAJS105A4

Fail Open		With Spring Return (FO) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	PHS21AJS012F	PHS21AJS012FA	PHS21AJS012FA2	PHS21AJS012FA3	PHS21AJS012FA4
1/2"	1500	PHS23AJS023F	PHS23AJS023FA	PHS23AJS023FA2	PHS23AJS023FA3	PHS23AJS023FA4
3/4"	1500	PHS24AJS024F	PHS24AJS024FA	PHS24AJS024FA2	PHS24AJS024FA3	PHS24AJS024FA4
1"	1500	PHS25AJS034F	PHS25AJS034FA	PHS25AJS034FA2	PHS25AJS034FA3	PHS25AJS034FA4
1 1/2"	1500	PHS27AJS053F	PHS27AJS053FA	PHS27AJS053FA2	PHS27AJS053FA3	PHS27AJS053FA4
2"	1500	PHS28AJS084F	PHS28AJS084FA	PHS28AJS084FA2	PHS28AJS084FA3	PHS28AJS084FA4
3"	1500	PHS2AAJS104F	PHS2AAJS104FA	PHS2AAJS104FA2	PHS2AAJS104FA3	PHS2AAJS104FA4

\*Actuator sized for 500 psid (1/4"=1"), 300 psid (1 1/4"-3").

# Valve Automation - DynaMatic

## EYSA Series

Clean Water, Air, or Light Oil Applications

**Stainless Steel 3-Way Ball Valve - Electrically Actuated**

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

The **DynaMatic EYSA Series** of electrically actuated stainless steel three-way valves offers an excellent option for automated diverter-type applications where corrosion-resistant

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

stainless steel is required. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The EYSA Series uses our DE and MA Series electric actuators. The EYSA Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All models are pre-sized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- **316 Stainless Steel Bodies and trim**
- **3-Way "L" Pattern Diverter Ball Valve**
- **Four RTFE Seats Allow Flow In Any Direction**
- **NPT Female Threaded Ends**
- **Viton® Stem Seals**



		With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	1000	EYSA3AJE20	EYSA3AJE20H	EYSA3AJE20H	EYSA3AJE20H	EYSA3AJE20B
3/4"	1000	EYSA4AJE25	EYSA4AJE25H	EYSA4AJE25H	EYSA4AJE25H	EYSA4AJE25B
1"	1000	EYSA5AJE25	EYSA5AJE25H	EYSA5AJE25H	EYSA5AJE25H	EYSA5AJE25B
1 1/2"	800	EYSA7AJE01	EYSA7AJE01C	EYSA7AJE01E	EYSA7AJE01D	EYSA7AJE01B
2"	800	EYSA8AJE02	EYSA8AJE02C	EYSA8AJE02E	EYSA8AJE02D	EYSA8AJE02B

\* Actuators sized for 300 psid.

230 and 460 VAC 3 phase available.  
Modulating controls available.

# Valve Automation - DynaMatic

## PYSA Series

Clean Water, Air, or Light Oil Applications

3-Way Stainless Steel Ball Valve -  
Pneumatic Actuated

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

The **DynaMatic PYSA Series** of air actuated stainless steel three-way ball valves offers an excellent option for automated applications where corrosion resistant stainless steel is required. With

presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PYSA series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail closed or fail open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for efficient operation. Other common

Full Port  
1/2"-2"

assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. PYSA Series valves are presized for 80 PSI minimum air pressure and for clean water, air, or light oil applications only.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- 316 Stainless Steel bodies and trim
- 3-Way "L" Pattern Diverter Ball Valve
- Four RTFE Seats Allow Flow In Any Direction
- NPT Female Threaded Ends
- Viton® Stem Seals



Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	1000	PYSA3AJD02	PYSA3AJD02A	PYSA3AJD02A2	PYSA3AJD02A3	PYSA3AJD02A4
3/4"	1000	PYSA4AJD02	PYSA4AJD02A	PYSA4AJD02A2	PYSA4AJD02A3	PYSA4AJD02A4
1"	1000	PYSA5AJD05	PYSA5AJD05A	PYSA5AJD05A2	PYSA5AJD05A3	PYSA5AJD05A4
1 1/2"	800	PYSA7AJD07	PYSA7AJD07A	PYSA7AJD07A2	PYSA7AJD07A3	PYSA7AJD07A4
2"	800	PYSA8AJD08	PYSA8AJD08A	PYSA8AJD08A2	PYSA8AJD08A3	PYSA8AJD08A4

Fail Close		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	1000	PYSA3AJS044	PYSA3AJS044A	PYSA3AJS044A2	PYSA3AJS044A3	PYSA3AJS044A4
3/4"	1000	PYSA4AJS054	PYSA4AJS054A	PYSA4AJS054A2	PYSA4AJS054A3	PYSA4AJS054A4
1"	1000	PYSA5AJS074	PYSA5AJS074A	PYSA5AJS074A2	PYSA5AJS074A3	PYSA5AJS074A4
1 1/2"	800	PYSA7AJS094	PYSA7AJS094A	PYSA7AJS094A2	PYSA7AJS094A3	PYSA7AJS094A4
2"	800	PYSA8AJS114	PYSA8AJS114A	PYSA8AJS114A2	PYSA8AJS114A3	PYSA8AJS114A4

Fail Open		With Spring Return (FO) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/2"	1000	PYSA3AJS044F	PYSA3AJS044FA	PYSA3AJS044FA2	PYSA3AJS044FA3	PYSA3AJS044FA4
3/4"	1000	PYSA4AJS054F	PYSA4AJS054FA	PYSA4AJS054FA2	PYSA4AJS054FA3	PYSA4AJS054FA4
1"	1000	PYSA5AJS074F	PYSA5AJS074FA	PYSA5AJS074FA2	PYSA5AJS074FA3	PYSA5AJS074FA4
1 1/2"	800	PYSA7AJS094F	PYSA7AJS094FA	PYSA7AJS094FA2	PYSA7AJS094FA3	PYSA7AJS094FA4
2"	800	PYSA8AJS114F	PYSA8AJS114FA	PYSA8AJS114FA2	PYSA8AJS114FA3	PYSA8AJS114FA4

\*Actuator sized for 300 psid.

# Valve Automation - DynaMatic

## EVS2 Series

Clean Water, Air, or Light Oil Applications

3-Piece Stainless Steel Ball Valve -  
Electrically Actuated

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 EVS2 Series** of actuated three-piece stainless steel ball valves offers an excellent option for automated applications where corrosion resistant stainless steel is required. The

three-piece swing out style valve makes routine maintenance a snap. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to tradition actuator mounting styles. The EVS2 series uses our DE and MA Series electric actuators. The EVS2 Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and

12VDC. All models are pre-sized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications or other voltage requirements are needed.)*

Electric Actuator details and options can be found on pages 26 and 27.

- **NPT Threaded Ends**
- **316 Stainless Construction**
- **RTFE Seats**
- **Viton® O-Ring Stem Seals**
- **Adjustable Stem Packing**
- **Swing-Out Design for Quick Repair**



		With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	EVS21AJE20	EVS21AJE20H	EVS21AJE20H	EVS21AJE20H	EVS21AJE20B
3/8"	1500	EVS22AJE20	EVS22AJE20H	EVS22AJE20H	EVS22AJE20H	EVS22AJE20B
1/2"	1500	EVS23AJE20	EVS23AJE20H	EVS23AJE20H	EVS23AJE20H	EVS23AJE20B
3/4"	1500	EVS24AJE20	EVS24AJE20H	EVS24AJE20H	EVS24AJE20H	EVS24AJE20B
1"	1500	EVS25AJE21	EVS25AJE21H	EVS25AJE21H	EVS25AJE21H	EVS25AJE21B
1 1/4"	1250	EVS26AJE25	EVS26AJE25H	EVS26AJE25H	EVS26AJE25H	EVS26AJE25B
1 1/2"	1250	EVS27AJE01	EVS27AJE01C	EVS27AJE01E	EVS27AJE01D	EVS27AJE01B
2"	1000	EVS28AJE01	EVS28AJE01C	EVS28AJE01E	EVS28AJE01D	EVS28AJE01B
2 1/2"	800	EVS29AJE02	EVS29AJE02C	EVS29AJE02E	EVS29AJE02D	EVS29AJE02B
3"	800	EVS2AAJE13	EVS2AAJE13C	EVS2AAJE13E	EVS2AAJE13D	EVS2AAJE13B

\* Actuators sized for 300 psid.

230 and 460 VAC 3 phase available.  
Modulating controls available.

# Valve Automation - DynaMatic

## PVS2 Series

Clean Water, Air, or Light Oil Applications

3-Piece Stainless Steel Ball Valve - Pneumatic Actuated

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 PVS2 Series** of air actuated three-piece stainless steel ball valves offers an excellent option for automated applications where corrosion-resistant stainless steel is required. With

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

presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PVS2 Series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail closed or fail open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for

efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. PVS2 Series valves are presized for 80 PSI minimum air pressure and for clean water, air, or light oil applications only.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- NPT Threaded Ends
- 316 Stainless Construction
- RTFE Seats
- Viton® O-Ring Stem Seals
- Adjustable Stem Packing
- Swing-Out Design for Quick Repair



Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	PVS21AJD01	PVS21AJD01A	PVS21AJD01A2	PVS21AJD01A3	PVS21AJD01A4
3/8"	1500	PVS22AJD01	PVS22AJD01A	PVS22AJD01A2	PVS22AJD01A3	PVS22AJD01A4
1/2"	1500	PVS23AJD01	PVS23AJD01A	PVS23AJD01A2	PVS23AJD01A3	PVS23AJD01A4
3/4"	1500	PVS24AJD01	PVS24AJD01A	PVS24AJD01A2	PVS24AJD01A3	PVS24AJD01A4
1"	1500	PVS25AJD02	PVS25AJD02A	PVS25AJD02A2	PVS25AJD02A3	PVS25AJD02A4
1 1/4"	1250	PVS26AJD03	PVS26AJD03A	PVS26AJD03A2	PVS26AJD03A3	PVS26AJD03A4
1 1/2"	1250	PVS27AJD05	PVS27AJD05A	PVS27AJD05A2	PVS27AJD05A3	PVS27AJD05A4
2"	1000	PVS28AJD06	PVS28AJD06A	PVS28AJD06A2	PVS28AJD06A3	PVS28AJD06A4
2 1/2"	800	PVS29AJD08	PVS29AJD08A	PVS29AJD08A2	PVS29AJD08A3	PVS29AJD08A4
3"	800	PVS2AAJD09	PVS2AAJD09A	PVS2AAJD09A2	PVS2AAJD09A3	PVS2AAJD09A4

Fail Close		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	PVS21AJS024	PVS21AJS024A	PVS21AJS024A2	PVS21AJS024A3	PVS21AJS024A4
3/8"	1500	PVS22AJS024	PVS22AJS024A	PVS22AJS024A2	PVS22AJS024A3	PVS22AJS024A4
1/2"	1500	PVS23AJS024	PVS23AJS024A	PVS23AJS024A2	PVS23AJS024A3	PVS23AJS024A4
3/4"	1500	PVS24AJS024	PVS24AJS024A	PVS24AJS024A2	PVS24AJS024A3	PVS24AJS024A4
1"	1500	PVS25AJS034	PVS25AJS034A	PVS25AJS034A2	PVS25AJS034A3	PVS25AJS034A4
1 1/4"	1250	PVS26AJS064	PVS26AJS064A	PVS26AJS064A2	PVS26AJS064A3	PVS26AJS064A4
1 1/2"	1250	PVS27AJS075	PVS27AJS075A	PVS27AJS075A2	PVS27AJS075A3	PVS27AJS075A4
2"	1000	PVS28AJS084	PVS28AJS084A	PVS28AJS084A2	PVS28AJS084A3	PVS28AJS084A4
2 1/2"	800	PVS29AJS105	PVS29AJS105A	PVS29AJS105A2	PVS29AJS105A3	PVS29AJS105A4
3"	800	PVS2AAJS115	PVS2AAJS115A	PVS2AAJS115A2	PVS2AAJS115A3	PVS2AAJS115A4

Fail Open		With Spring Return (FO) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
1/4"	1500	PVS21AJS024F	PVS21AJS024FA	PVS21AJS024FA2	PVS21AJS024FA3	PVS21AJS024FA4
3/8"	1500	PVS22AJS024F	PVS22AJS024FA	PVS22AJS024FA2	PVS22AJS024FA3	PVS22AJS024FA4
1/2"	1500	PVS23AJS024F	PVS23AJS024FA	PVS23AJS024FA2	PVS23AJS024FA3	PVS23AJS024FA4
3/4"	1500	PVS24AJS024F	PVS24AJS024FA	PVS24AJS024FA2	PVS24AJS024FA3	PVS24AJS024FA4
1"	1500	PVS25AJS034F	PVS25AJS034FA	PVS25AJS034FA2	PVS25AJS034FA3	PVS25AJS034FA4
1 1/4"	1250	PVS26AJS064F	PVS26AJS064FA	PVS26AJS064FA2	PVS26AJS064FA3	PVS26AJS064FA4
1 1/2"	1250	PVS27AJS075F	PVS27AJS075FA	PVS27AJS075FA2	PVS27AJS075FA3	PVS27AJS075FA4
2"	1000	PVS28AJS084F	PVS28AJS084FA	PVS28AJS084FA2	PVS28AJS084FA3	PVS28AJS084FA4
2 1/2"	800	PVS29AJS104F	PVS29AJS104FA	PVS29AJS104FA2	PVS29AJS104FA3	PVS29AJS104FA4
3"	800	PVS2AAJS115F	PVS2AAJS115FA	PVS2AAJS115FA2	PVS2AAJS115FA3	PVS2AAJS115FA4

\*Actuator sized for 300 psid.

# Valve Automation - DynaMatic

## EHS2/EHC2 Flanged Series

Clean Water, Air, or Light Oil Applications

Flanged Steel Ball Valves- Electrically Actuated

150 ANSI b16.10

The DynaMatic EHS2 and EHC2 Flanged Series offer excellent options

when a flanged connection is needed. Choose our corrosion-resistant 316 stainless steel for general chemical and corrosive

fluids; or our durable carbon steel for industrial, hydraulic or petroleum applications. Ball valves are full port and feature 150 lb ANSI flanges. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles.

Full Port  
1/2"-4"

The EHS2 and EHC2 Series uses our DE and MA Series electric actuators. The EHS2 and EHC2 Series valves are available with 115VAC, 220VAC, 24VAC, 24VDC, and 12VDC. All models are presized for clean water, air, or light oil applications.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- 150 ANSI b16.10 Flanged Connections
- Fire Test to API 607
- RTFE Seat/Seals
- Bottom Loaded Stem



STAINLESS STEEL			With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
	Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1/2"	150 ANSI	EHS23EJE20	EHS23EJE20H	EHS23EJE20H	EHS23EJE20H	EHS23EJE20B
	3/4"	150 ANSI	EHS24EJE20	EHS24EJE20H	EHS24EJE20H	EHS24EJE20H	EHS24EJE20B
	1"	150 ANSI	EHS25EJE21	EHS25EJE21H	EHS25EJE21H	EHS25EJE21H	EHS25EJE21B
	1 1/4"	150 ANSI	EHS26EJE21	EHS26EJE21H	EHS26EJE21H	EHS26EJE21H	EHS26EJE21B
	1 1/2"	150 ANSI	EHS27EJE25	EHS27EJE25H	EHS27EJE25H	EHS27EJE25H	EHS27EJE25B
	2"	150 ANSI	EHS28EJE01	EHS28EJE01C	EHS28EJE01E	EHS28EJE01D	EHS28EJE01B
	2 1/2"	150 ANSI	EHS29EJE01	EHS29EJE01C	EHS29EJE01E	EHS29EJE01D	EHS29EJE01B
3"	150 ANSI	EHS2AEJE01	EHS2AEJE01C	EHS2AEJE01E	EHS2AEJE01D	EHS2AEJE01B	
4"	150 ANSI	EHS2BEJE03	EHS2BEJE03C	EHS2BEJE03E	EHS2BEJE03D	EHS2BEJE03B	

CARBON STEEL			With 120 VAC Actuator	With 24 VAC Actuator	With 24 VDC Actuator	With 12 VDC Actuator	With 230 VAC (1-Phase)
	Size	Pressure PSI*	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1 1/2"	150 ANSI	EHC67EJE25	EHC67EJE25H	EHC67EJE25H	EHC67EJE25H	EHC67EJE25B
	2"	150 ANSI	EHC68EJE01	EHC68EJE01C	EHC68EJE01E	EHC68EJE01D	EHC68EJE01B
	2 1/2"	150 ANSI	EHC69EJE01	EHC69EJE01C	EHC69EJE01E	EHC69EJE01D	EHC69EJE01B
	3"	150 ANSI	EHC6AEJE01	EHC6AEJE01C	EHC6AEJE01E	EHC6AEJE01D	EHC6AEJE01B
4"	150 ANSI	EHC6BEJE03	EHC6BEJE03C	EHC6BEJE03E	EHC6BEJE03D	EHC6BEJE03B	

\*230 and 460 VAC 3 phase available.

\*Modulating controls available.



# Valve Automation - DynaMatic

## PHS2 & PHC2 Flanged Series

Clean Water, Air, or Light Oil Applications

Flanged Steel Ball Valve - Pneumatic Actuated

150 ANSI b16.10



The DynaMatic PHS2 Flanged Series offers excellent options when a flanged connection is needed. Choose our corrosion resistant 316 stainless steel for general chemical and corrosive fluids; or durable carbon steel for industrial, hydraulic or petroleum applications. Valves are full port and feature 150 lb ANSI flanges. With presized and preassembled actuation packages, selection has never been easier. ISO 5211 direct mounting provides accurate alignment and a more compact size compared to traditional actuator mounting styles. The PHS2 and PHC2 Series uses our AP Series pneumatic actuators in both double acting (air/air) and spring return (air/spring). The spring return models can be ordered in either the fail-closed or fail-open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. Valves are pre-sized for 80 PSI minimum air pressure and for clean water, air, or light chemical or oil applications only.

Full Port  
1/2"-4"

(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

return (air/spring). The spring return models can be ordered in either the fail-closed or fail-open configuration. Optional direct mounted pilot solenoid valves reduce response time and allow for efficient operation. Other common assembly options include valve position limit switches, pneumatic or electro-pneumatic positioners, and speed controls. Valves are pre-sized for 80 PSI minimum air pressure and for clean water, air, or light chemical or oil applications only.

(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- 150 ANSI b16.10 Flanged Connections
- Fire Test to API 607
- RTFE Seats
- Bottom Loaded Stem

STAINLESS STEEL	Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
	Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1/2"	150 ANSI	PHS23EJD01	PHS23EJD01A	PHS23EJD01A2	PHS23EJD01A3	PHS23EJD01A4
	3/4"	150 ANSI	PHS24EJD01	PHS24EJD01A	PHS24EJD01A2	PHS24EJD01A3	PHS24EJD01A4
	1"	150 ANSI	PHS25EJD01	PHS25EJD11A	PHS25EJD11A2	PHS25EJD11A3	PHS25EJD11A4
	1 1/4"	150 ANSI	PHS26EJD02	PHS26EJD02A	PHS26EJD02A2	PHS26EJD02A3	PHS26EJD02A4
	1 1/2"	150 ANSI	PHS27EJD03	PHS27EJD03A	PHS27EJD03A2	PHS27EJD03A3	PHS27EJD03A4
	2"	150 ANSI	PHS28EJD05	PHS28EJD05A	PHS28EJD05A2	PHS28EJD05A3	PHS28EJD05A4
	2 1/2"	150 ANSI	PHS29EJD06	PHS29EJD06A	PHS29EJD06A2	PHS29EJD06A3	PHS29EJD06A4
	3"	150 ANSI	PHS2AEJD06	PHS2AEJD06A	PHS2AEJD06A2	PHS2AEJD06A3	PHS2AEJD06A4
	4"	150 ANSI	PHS2BEJD08	PHS2BEJD08A	PHS2BEJD08A2	PHS2BEJD08A3	PHS2BEJD08A4
	Fail Close		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
	Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1/2"	150 ANSI	PHS23EJS012	PHS23EJS012A	PHS23EJS012A2	PHS23EJS012A3	PHS23EJS012A4
	3/4"	150 ANSI	PHS24EJS012	PHS24EJS012A	PHS24EJS012A2	PHS24EJS012A3	PHS24EJS012A4
	1"	150 ANSI	PHS25EJS024	PHS25EJS024A	PHS25EJS024A2	PHS25EJS024A3	PHS25EJS024A4
	1 1/4"	150 ANSI	PHS26EJS034	PHS26EJS034A	PHS26EJS034A2	PHS26EJS034A3	PHS26EJS034A4
	1 1/2"	150 ANSI	PHS27EJS054	PHS27EJS054A	PHS27EJS054A2	PHS27EJS054A3	PHS27EJS054A4
	2"	150 ANSI	PHS28EJS065	PHS28EJS065A	PHS28EJS065A2	PHS28EJS065A3	PHS28EJS065A4
	2 1/2"	150 ANSI	PHS29EJS084	PHS29EJS084A	PHS29EJS084A2	PHS29EJS084A3	PHS29EJS084A4
	3"	150 ANSI	PHS2AEJS085	PHS2AEJS085A	PHS2AEJS085A2	PHS2AEJS085A3	PHS2AEJS085A4
	4"	150 ANSI	PHS2BEJS094	PHS2BEJS094A	PHS2BEJS094A2	PHS2BEJS094A3	PHS2BEJS094A4
CARBON STEEL	Double Acting		With Double Acting Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
	Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1 1/2"	150 ANSI	PHC67EJD03	PHC67EJD03A	PHC67EJD03A2	PHC67EJD03A3	PHC67EJD03A4
	2"	150 ANSI	PHC68EJD05	PHC68EJD05A	PHC68EJD05A2	PHC68EJD05A3	PHC68EJD05A4
	2 1/2"	150 ANSI	PHC69EJD06	PHC69EJD06A	PHC69EJD06A2	PHC69EJD06A3	PHC69EJD06A4
	3"	150 ANSI	PHC6AEJD06	PHC6AEJD06A	PHC6AEJD06A2	PHC6AEJD06A3	PHC6AEJD06A4
	4"	150 ANSI	PHC6BEJD08	PHC6BEJD08A	PHC6BEJD08A2	PHC6BEJD08A3	PHC6BEJD08A4
	Fail Close		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
	Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1 1/2"	150 ANSI	PHC67EJS054	PHC67EJS054A	PHC67EJS054A2	PHC67EJS054A3	PHC67EJS054A4
	2"	150 ANSI	PHC68EJS065	PHC68EJS065A	PHC68EJS065A2	PHC68EJS065A3	PHC68EJS065A4
	2 1/2"	150 ANSI	PHC69EJS084	PHC69EJS084A	PHC69EJS084A2	PHC69EJS084A3	PHC69EJS084A4
	3"	150 ANSI	PHC6AEJS085	PHC6AEJS085A	PHC6AEJS085A2	PHC6AEJS085A3	PHC6AEJS085A4
	4"	150 ANSI	PHC6BEJS094	PHC6BEJS094A	PHC6BEJS094A2	PHC6BEJS094A3	PHC6BEJS094A4
	Fail Open		With Spring Return (FC) Actuators	Asmb. with 115 VAC Solenoid	Asmb. with 24 VAC Solenoid	Asmb. with 24 VDC Solenoid	Asmb. with 12 VDC Solenoid
	Size	Pressure PSI	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
	1 1/2"	150 ANSI	PHC67EJS054F	PHC67EJS054FA	PHC67EJS054FA2	PHC67EJS054FA3	PHC67EJS054FA4
	2"	150 ANSI	PHC68EJS064F	PHC68EJS064FA	PHC68EJS064FA2	PHC68EJS064FA3	PHC68EJS064FA4
	2 1/2"	150 ANSI	PHC69EJS084F	PHC69EJS084FA	PHC69EJS084FA2	PHC69EJS084FA3	PHC69EJS084FA4
	3"	150 ANSI	PHC6AEJS085F	PHC6AEJS085FA	PHC6AEJS085FA2	PHC6AEJS085FA3	PHC6AEJS085FA4
	4"	150 ANSI	PHC6BEJS094F	PHC6BEJS094FA	PHC6BEJS094FA2	PHC6BEJS094FA3	PHC6BEJS094FA4

# Electric DynaMatic Numbering Guide

**E Y S A 7 A J E 0 1 F**

Actuator | Valve Series | Porting | Size | End Type | Seats & Seals | Electric Actuator | Options

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 - 1/4 inch
2 - 3/8 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	A - 3-way Full Port 90° "L"
2 - Full Port	G - 3-way Standard Port 90° "L"
6 - Full Port/SS Trim	

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)

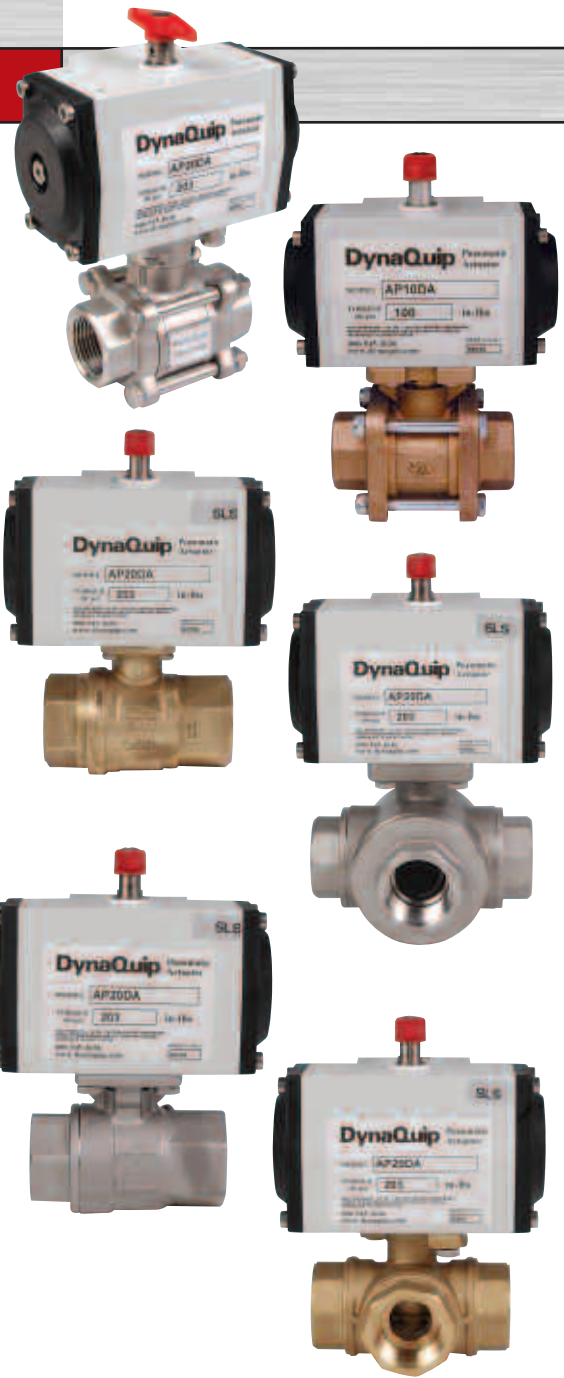
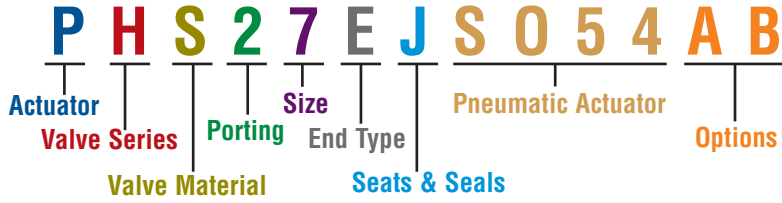
Seat/Seals
J - RTFE/Viton®/TFE
M - TFE/ Viton®/ RTFE
T - RTFE/Viton®
U - PTFE/Viton®

Electric Actuators
E20 - DE153
E21 - DE154
E22 - DE156
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 - 1/4 inch
- 2 - 3/8 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"
- 6 - Full Port/ SS Trim

**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
- D11 - AP14DA

**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"

# Valve Automation - Butterfly Valves

## DynaFly 50/52 Series

For General Industrial Applications

Resilient Seated (Lug/Wafer) Electrically Actuated

150 PSI CWP

The DynaFly 50 Wafer and 52 Lug Series are the work horses of industrial butterfly valves. Pre-sized

Sizes  
**2"-12"**

and preassembled with our MA series electric actuators, these valves come standard with ductile iron body and disc and abrasion-resistant black nitrile boot-style seat for quick and easy field repairs. Other voltages and body or seat materials are available on request.

(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)

Electric Actuator details and accessories can be found on pages 26 and 27.

- Wafer or Lug Style Ductile Iron Body and Disc
- Nitrile Boot-style Seat
- 17-4 pH Stainless Steel Blowout Proof Stem
- Nema 4 Housing with Manual Override and Handwheel
- Self-locking Gear Train and Reversing Motor



Electric Actuators		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	50F61302E01	50F61302E01B	50F61302E01F	50F61302E01G
2 1/2"	Wafer	50F61325E01	50F61325E01B	50F61325E01F	50F61325E01G
3"	Wafer	50F61303E01	50F61303E01B	50F61303E01F	50F61303E01G
4"	Wafer	50F61304E01	50F61304E01B	50F61304E01F	50F61304E01G
5"	Wafer	50F61305E01	50F61305E01B	50F61305E01F	50F61305E01G
6"	Wafer	50F61306E02	50F61306E02B	50F61306E02F	50F61306E02G
8"	Wafer	50F61308E03	50F61308E03B	50F61308E03F	50F61308E03G
10"	Wafer	50F61310E03	50F61310E03B	50F61310E03F	50F61310E03G
12"	Wafer	50F61312E04	50F61312E04B	50F61312E04F	50F61312E04G

Electric Actuators		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	52F61302E01	52F61302E01B	52F61302E01F	52F61302E01G
2 1/2"	Lug	52F61325E01	52F61325E01B	52F61325E01F	52F61325E01G
3"	Lug	52F61303E01	52F61303E01B	52F61303E01F	52F61303E01G
4"	Lug	52F61304E01	52F61304E01B	52F61304E01F	52F61304E01G
5"	Lug	52F61305E01	52F61305E01B	52F61305E01F	52F61305E01G
6"	Lug	52F61306E02	52F61306E02B	52F61306E02F	52F61306E02G
8"	Lug	52F61308E03	52F61308E03B	52F61308E03F	52F61308E03G
10"	Lug	52F61310E03	52F61310E03B	52F61310E03F	52F61310E03G
12"	Lug	52F61312E04	52F61312E04B	52F61312E04F	52F61312E04G

# Valve Automation - Butterfly Valves

## DynaFly 50/52 Series

For General Industrial Applications

Resilient Seated (Lug/Wafer) Pneumatic Actuated

150 PSI CWP

The **DynaFly 50 Wafer** and **52 Lug Series** are the work horses of industrial butterfly valves.

Sizes  
**2"-12"**

Pre-sized and preassembled with our AP series pneumatic actuators, these valves come standard with ductile iron body and disc and abrasion-resistant black nitrile boot-style seat for quick and easy field repairs. Pilot solenoids, positioners, or other body and seat materials are available on request.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- **Wafer or Lug Style Ductile Iron Body and Disc**
- **Nitrile Boot-style Seat**
- **17-4 pH Stainless Steel Blowout Proof Stem**
- **Double Acting or Spring Return Dual Rack & Pinion Actuators**
- **Alignment Notches at Bottom of Wafer Valve Ease Installation**



Air Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	50F61302D31	50F61302S324	50F61302S324F
2 1/2"	Wafer	50F61325D32	50F61325S065	50F61325S064F
3"	Wafer	50F61303D32	50F61303S065	50F61303S064F
4"	Wafer	50F61304D33	50F61304S345	50F61304S344F
5"	Wafer	50F61305D33	50F61302S085	50F61305S084F
6"	Wafer	50F61306D08	50F61306S104	50F61306S104F
8"	Wafer	50F61308D09	50F61308S385	50F61308S384F
10"	Wafer	50F61310D37	50F61310S395	50F61310S394F
12"	Wafer	50F61312D38	50F61312S405	50F61312S404F

Air Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	52F61302D31	52F61302S324	52F61302S324F
2 1/2"	Lug	52F61325D32	52F61325S065	52F61325S064F
3"	Lug	52F61303D32	52F61303S065	52F61303S064F
4"	Lug	52F61304D33	52F61304S345	52F61304S344F
5"	Lug	52F61305D33	52F61305S085	52F61305S084F
6"	Lug	52F61306D08	52F61306S104	52F61306S104F
8"	Lug	52F61308D09	52F61308S385	52F61308S384F
10"	Lug	52F61310D37	52F61310S395	52F61310S394F
12"	Lug	52F61312D38	52F61312S405	52F61312S404F

# Valve Automation - Butterfly Valves

## DynaFly 60/62 Series

HVAC, Commercial, Utility, and General Industrial Applications

Cartridge Style Seated (Lug/Wafer) Electrically Actuated

200 PSI CWP

The DynaFly 60 Wafer and 62 Lug Series are the valves of choice when both cost and quality are considerations.

Sizes  
**2"-12"**

Pre-sized and preassembled with our MA series electric actuators, these valves come standard with iron body and disc and black Buna cartridge-style seat. Other voltages and body or seat materials are available on request.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- **Wafer or Lug Style Iron Body and Disc**
- **One-Piece 416 SS Stem with Precision Taper Pins**
- **Cartridge-style Buna Seat with Phenolic Backing**
- **Extended Neck for Insulated Piping**
- **Nema 4 Housing with Manual Override and Handwheel**
- **Self-locking Gear Train and Reversing Motor**



Electric Actuated		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	60F11302E01	60F11302E01B	60F11302E01F	60F11302E01G
2 1/2"	Wafer	60F11325E01	60F11325E01B	60F11325E01F	60F11325E01G
3"	Wafer	60F11303E01	60F11303E01B	60F11303E01F	60F11303E01G
4"	Wafer	60F11304E01	60F11304E01B	60F11304E01F	60F11304E01G
5"	Wafer	60F11305E01	60F11305E01B	60F11305E01F	60F11305E01G
6"	Wafer	60F11306E02	60F11306E02B	60F11306E02F	60F11306E02G
8"	Wafer	60F11308E03	60F11308E03B	60F11308E03F	60F11308E03G
10"	Wafer	60F11310E03	60F11310E03B	60F11310E03F	60F11310E03G
12"	Wafer	60F11312E04	60F11312E04B	60F11312E04F	60F11312E04G

Electric Actuated		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	62F61302E01	62F61302E01B	62F61302E01F	62F61302E01G
2 1/2"	Lug	62F61325E01	62F61325E01B	62F61325E01F	62F61325E01G
3"	Lug	62F61303E01	62F61303E01B	62F61303E01F	62F61303E01G
4"	Lug	62F61304E01	62F61304E01B	62F61304E01F	62F61304E01G
5"	Lug	62F61305E01	62F61305E01B	62F61305E01F	62F61305E01G
6"	Lug	62F61306E02	62F61306E02B	62F61306E02F	62F61306E02G
8"	Lug	62F61308E03	62F61308E03B	62F61308E03F	62F61308E03G
10"	Lug	62F61310E03	62F61310E03B	62F61310E03F	62F61310E03G
12"	Lug	62F61312E04	62F61312E04B	62F61312E04F	62F61312E04G

# Valve Automation - Butterfly Valves

## DynaFly 60/62 Series

HVAC, Commercial, Utility, and General Industrial Applications

Cartridge Style Seated (Lug/Wafer) Pneumatic Actuated

200 PSI CWP

The **DynaFly 60 Wafer and 62 Lug Series** are the valves of choice when both cost and quality are

Sizes  
**2"-12"**

considerations. Pre-sized and preassembled with our AP series pneumatic actuators, these valves come standard with iron body and disc and black Buna cartridge-style seat. Pilot solenoids, positioners, or other sizes and materials are available on request.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- **Wafer or Lug Style Iron Body and Disc**
- **One-Piece 416 SS Stem with Precision Taper Pins**
- **Cartridge-style Buna Seat with Phenolic Backing**
- **Extended Neck for Insulated Piping**
- **Double Acting or Spring Return Dual Rack & Pinion Actuators**



Pneumatic Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	60F11302D31	60F11302S315	60F11302S314F
2 1/2"	Wafer	60F11325D31	60F11325S324	60F11325S324F
3"	Wafer	60F11303D32	60F11303S064	60F11303S064F
4"	Wafer	60F11304D33	60F11304S345	60F11304S344F
5"	Wafer	60F11305D34	60F11305S355	60F11305S354F
6"	Wafer	60F11306D35	60F11306S104	60F11306S104F
8"	Wafer	60F11308D36	60F11308S385	60F11308S384F
10"	Wafer	60F11310D37	60F11310S395	60F11310S394F
12"	Wafer	60F11312D38	60F11312S405	60F11312S404F

Pneumatic Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	62F61302D31	62F61302S315	62F61302S314F
2 1/2"	Lug	62F61325D31	62F61325S324	62F61325S324F
3"	Lug	62F61303D32	62F61303S064	62F61303S064F
4"	Lug	62F61304D33	62F61304S345	62F61304S344F
5"	Lug	62F61305D34	62F61305S355	62F61305S354F
6"	Lug	62F61306D35	62F61306S104	62F61306S104F
8"	Lug	62F61308D36	62F61308S385	62F61308S384F
10"	Lug	62F61310D37	62F61310S395	62F61310S394F
12"	Lug	62F61312D38	62F61312S405	62F61312S404F

# Valve Automation - Butterfly Valves

## DynaFly 30/32 Series

Process, Dry Bulk, Cement, and General Industrial Applications

Nylon Coated Disc (Lug/Wafer) Electrically Actuated

175 PSI CWP

The **DynaFly 30 Wafer and 32 Lug Series** offer versatility and value—all in one compact package. Pre-sized and preassembled with our MA series electric actuators, these valves come

Sizes  
**2"-12"**

standard with ductile iron body, Nylon 11 coated ductile iron disc, and abrasion-resistant black nitrile seat. Nylon 11 is an FDA approved vegetable based thermoplastic. Nylon 11 is also resistant to mold and fungus, provides a high level of corrosion resistance, has a durable surface and a low coefficient of friction. Other voltages and seat materials are available on request.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Electric Actuator details and accessories can be found on pages 26 and 27.

- **Wafer or Lug Style Ductile Iron Body**
- **Nylon 11 Coated Ductile Iron Disc**
- **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**
- **Nema 4 Housing with Manual Override and Handwheel**
- **Self-locking Gear Train and Reversing Motor**



Electric Actuated		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	30F21302E01	30F21302E01B	30F21302E01F	30F21302E01G
3"	Wafer	30F21303E01	30F21303E01B	30F21303E01F	30F21303E01G
4"	Wafer	30F21304E01	30F21304E01B	30F21304E01F	30F21304E01G
5"	Wafer	30F21305E02	30F21305E02B	30F21305E02F	30F21305E02G
6"	Wafer	30F21306E02	30F21306E02B	30F21306E02F	30F21306E02G
8"	Wafer	30F21308E03	30F21308E03B	30F21308E03F	30F21308E03G
10"	Wafer	30F21310E04	30F21310E04B	30F21310E04F	30F21310E04G
12"	Wafer	30F21312E05	30F21312E05B	30F21312E05F	30F21312E05G

Electric Actuated		120 VAC	230 VAC (1-ph)	230 VAC (3-ph)	460 (3-ph)
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	32F21302E01	32F21302E01B	32F21302E01F	32F21302E01G
3"	Lug	32F21303E01	32F21303E01B	32F21303E01F	32F21303E01G
4"	Lug	32F21304E01	32F21304E01B	32F21304E01F	32F21304E01G
5"	Lug	32F21305E02	32F21305E02B	32F21305E02F	32F21305E02G
6"	Lug	32F21306E02	32F21306E02B	32F21306E02F	32F21306E02G
8"	Lug	32F21308E03	32F21308E03B	32F21308E03F	32F21308E03G
10"	Lug	32F21310E04	32F21310E04B	32F21310E04F	32F21310E04G
12"	Lug	32F21312E05	32F21312E05B	32F21312E05F	32F21312E05G



# Valve Automation - Butterfly Valves

## DynaFly 30/32 Series

Process, Dry Bulk, Cement, and General Industrial Applications

Nylon Coated Disc (Lug/Wafer) Pneumatic Actuated

175 PSI CWP

The **DynaFly 30 Wafer and 32 Lug Series** offer versatility and value—all in one compact package. Pre-sized and preassembled with our AP series pneumatic

Sizes  
**2"-12"**

actuators, these valves come standard with ductile iron body, Nylon 11 coated ductile iron disc, and abrasion-resistant black nitrile seat. Nylon 11 is an FDA approved vegetable based thermoplastic. Nylon 11 is also resistant to mold and fungus, provides a high level of corrosion resistance, has a durable surface and a low coefficient of friction. Pilot solenoids, positioners, or other sizes and materials are available on request.

*(PLEASE CALL DynaQuip Customer Service for recommendations and actuator sizing when dirty or severe service applications are needed.)*

Pneumatic Actuator details and accessories can be found on pages 28 and 29.

- Wafer or Lug Style Ductile Iron Body
- Nylon11 Coated ductile iron disc
- 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
- Double Acting or Spring Return Dual Rack & Pinion Actuators



Pneumatic Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Wafer	30F21302D31	30F21302S324	30F21302S324F
3"	Wafer	30F21303D32	30F21303S065	30F21303S065F
4"	Wafer	30F21304D33	30F21304S354	30F21304S354F
5"	Wafer	30F21305D34	30F21305S094	30F21305S094F
6"	Wafer	30F21306D08	30F21306S105	30F21306S104F
8"	Wafer	30F21308D10	30F21308S386	30F21308S384F
10"	Wafer	30F21310D38	30F21310S404	30F21310S404F
12"	Wafer	30F21312D39	30F21312S415	30F21312S414F

Pneumatic Actuated		With Double Acting Actuator	With Spring Return (FC) Actuator	With Spring Return (FO) Actuator
Size	Body Type	DynaQuip Model Number	DynaQuip Model Number	DynaQuip Model Number
2"	Lug	32F21302D31	32F21302S324	32F21302S324F
3"	Lug	32F21303D32	32F21303S065	32F21303S065F
4"	Lug	32F21304D33	32F21304S354	32F21304S354F
5"	Lug	32F21305D34	32F21305S094	32F21305S094F
6"	Lug	32F21306D08	32F21306S105	32F21306S104F
8"	Lug	32F21308D10	32F21308S386	32F21308S384F
10"	Lug	32F21310D38	32F21310S404	32F21310S404F
12"	Lug	32F21312D39	32F21312S415	32F21312S414F

# 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
60 - Wafer Cartridge Seat
62 - Lug Cartridge Seat
89 - Wafer Resilient (Split Body) Seat
82 - Lug Resilient (Split Body) Seat

Body/Disc Trim
F1 - (169) Cast Iron / Ductile Iron
F2 - (170) Ductile Iron / Nylon 11 Coated Iron
F3 - (174) Aluminum / Ductile Iron
F4 - (175) Aluminum / Alum-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 - (828) Aluminum / SS
FC - (823) Cast Iron / SS
FD - (508) Ductile Iron / Teflon
FF - (163) Cast Iron / Bronze
Substitute "U" for "F" to designate undercut disc

Seat
03 - (515) EPDM
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
E01 - MA7
E02 - MA13
E03 - MA35
E04 - MA44
E05 - MA57
E06 - MA88
E08 - MA132
E09 - MA177
E10 - MA221
E11 - MA265
E12 - MA309
E13 - MA20



Electric Actuator Options
<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  
 60 - Wafer Cartridge Seat  
 62 - Lug Cartridge Seat  
 89 - Wafer Resilient (Split Body) Seat  
 82 - Lug Resilient (Split Body) Seat

## Body/Disc Trim

F1 - (169) Cast Iron / Ductile Iron  
 F2 - (170) Ductile Iron /Nylon 11 Iron  
 F3 - (174) Aluminum / Ductile Iron  
 F4 - (175) Aluminum / Alum-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 - (828) Aluminum / SS  
 FC - (823) Cast Iron / SS  
 FD - (508) Ductile Iron / Teflon  
 FF - (163) Cast Iron / Bronze  
 Substitute "U" for "F" to designate undercut disc

## Seat

03 - (515) EPDM  
 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  
 S104 - AP295SR4  
 S105 - AP295SR5  
 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 mA (41N-E1N-SF)  
 F - Fail "Open"

## 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 offers two series of electric rotary actuators with output torques from 150 to 31,000 inch pounds. Our DE and MA Series actuators are available in AC and DC voltages 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 temperatures, corrosive environments, and are easily integrated 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 may require a custom quote from Customer Service team.

- **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	2,000	F07
MA35	3,540	F10
MA44	4,425	F10
MA57	5,750	F10
MA88	8,850	F14
MA132	13,275	F14
MA177	17,700	F16
MA221	22,125	F16
MA265	26,550	F16
MA309	30,975	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



800-545-3636

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# Pneumatic Actuators

## AP Series

### Dual Rack & Pinion Design

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

**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.

- **Body:** Aluminum, ASTM 6063-T6, Hard Anodized Finish Epoxy Coated
- **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:** Delrin 500
- **Fasteners:** SS ASTM A193-B8
- **Nuts:** SS ASTM A194-GR8
- **Loaded Springs:** Steel, High Alloy Epoxy Coated
- **Operating Temperature:** -10° F to 195° 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	120 PSI		80 PSI	100 PSI	120 PSI
AP10DA	100	125	150	AP295DA	2958	3698	4473
AP20DA	203	254	305	AP470DA	4142	5177	6213
AP30DA	302	378	453	AP586DA	5865	7331	8798
AP52DA	526	658	789	AP900DA	9100	11375	13650
AP73DA	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

#### 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	38	56	42	60	67	85	92	110
AP20SR3	57	83	115	142	165	192	215	242
AP20SR4	76	111	86	122	136	172	186	222
AP20SR5	95	139	56	102	106	152	156	182
AP30SR4	111	159	139	187	213	261	288	336
AP34SR4	111	159	139	187	213	261	288	336
AP52SR3	156	232	287	363	417	493	547	623
AP52SR4	208	309	210	311	340	441	469	570
AP73SR4	253	398	326	471	507	652	688	833
AP73SR5	317	498	226	407	407	588	588	769
AP73SR6	380	597	126	343	307	524	488	706

Please Call Customer Service for Additional Size and Spring Configurations.



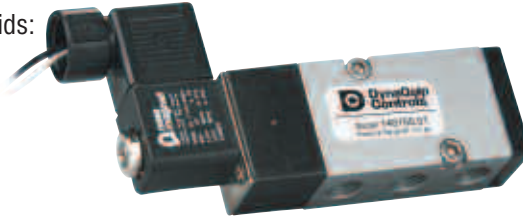
## Options

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

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.

### 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.

### Pilot Solenoid Valves

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

### 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 AP3720 Actuators and Old Style AP1210 and AP1612



## 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

WaterCop®

innovative technology

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 adapters 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
WCACT 1 1/4	WaterCop Electric Actuator for 1 1/4 Valve
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'



# Manual Butterfly Valves

## 500 & 522 Series

For General Industrial Applications

Resilient Seated

Full cut disc 150psi • Undercut disc 50 psi

**Body** - Lug style has drilled and tapped lugs meeting ANSI 125/150 flange standards. Lug body standard with ductile iron. Wafer body standard with ductile iron also available in aluminum.

Sizes  
**2"-12"**

### Top Plate Standard ISO 5211

- Accommodates all types of actuators; handles, gear operators, electric and pneumatic actuators.

### Disc

- Precision machined and hand polished for positive seal with contoured edges for lower operating torque plus increased seat life. A full line of under cut discs, sizes 2"-12", is offered. Designed for maximum product flow. Available in 50 psi and 150 psi at same cost. Comes in ductile iron, aluminum bronze, 316 stainless steel.

**Disc Screw with Locking Assembly** - Made of 316 stainless steel. Locking assembly prevents disc screw O-ring distortion.

**Stem** - Machined from 17-4 PH stainless steel to eliminate twisting of stem. Gives direct disc control of full or partial product flow.

**Stem-Seal** - A third seal ensuring leak resistance externally or internally for vacuum or pressure service. Matches seat material: Buna-N, EPDM, or Viton®.

**Stem Bushing** - Composed of full strength, corrosion resistant ertalyte, stem bushings absorb operator side thrust. Top bushing comes standard in all valves, while bottom bushing comes with all valves sizes 4"-12".

**Seat** - The seat fully encapsulates the valve body thereby preventing corrosion of the body or contamination of the flowing product. The only wetted parts are the seat, disc, and disc screws. Seats are available in EPDM (food grade), black nitrile (food grade), silicone, and Viton®.

**Hub Seal or Primary Seal** - Occurs when contact is made between the disc hub and the flat surface of the seat. Hub/seat seals prevent product from attacking stem or body.

**O-Seal** - Two O-seals give a sure secondary seal as the O-seal becomes part of the body and encircles the stem before entering the seat and disc area. O-seals are also located at top and bottom of stem entry to form an absolute secondary seal. Matches seat material except for silicone.

**Flange Seal** - Sealing O-ring of resilient seat which provides an absolute seal to all flanges within specifications. No other gaskets required.

**Part Numbers:** Numbering Guide found on page 38.

- Wafer (500) or Lug (522) Style Bodies
- Boot-type Seat to Encapsulate Inner Body
- Alignment Notches at Bottom of Wafer Valve
- Easy Seat and Disc Replacement
- Four Redundant Seals
- Stem Design Prevents Blow-out Hazard

**Temperature Range:** Dependent on material, see chart page 39.

**Operator Options:** 5 and 10 position handles  
Gear operator  
Electric or Pneumatic Actuators



# Manual Butterfly Valves

## 600 & 622 Series

For HVAC, Commercial, Utility and General Industrial Applications

Cartridge Seated

200 PSI (2"-12") • 150 PSI (14"-30") CWP

**Body** - Material for the wafer style (600) is of cast iron, lug style (622) of ductile iron. Optional ductile iron for wafer style. Compatible with ANSI 125/150 flanges.

Sizes  
**2"-30"**

### Top Plate Standard ISO

**5211** - Accommodates all types of actuators; handles, gear operators, electric and pneumatic actuators.

### Dead End Service Set

**Screws** - 2 places in valves up to 6" at 3 and 9 o'clock positions, 4 places in larger valves at 2, 4, 8, and 10 o'clock positions. Positioned on outer perimeter through valve body to phenolic backing.

**Precision Profile Disc** - Ductile iron provides bubble-tight shut off and assures minimum torque and longer seat life.

**Finished Disc Flats** - These mate with seat flats to give a highly efficient seal; prevents leakage into the shaft area.

**Optional Disc Material** - Aluminum bronze, 316 stainless steel.

**One-Piece Thru Shaft** - Ensures dependability and positive disc position. 416 stainless is standard.

**Precision Taper Pins** - Ensure positive, vibration proof, shaft to disc connection. Easily field replaceable. 316 stainless standard.

**Supported Shaft Seal** - Bonding of elastomer to phenolic backing ring protects against distortion, a common cause of shaft leakage.

**Teflon Bushings Standard (Three)** - Furnishes shaft support at three locations for positive shaft alignment and actuator support and less friction. Luberized bronze optional.

**Shaft Weather Seal** - Below bushing on some models.

**Standard Double D Connection** - In sizes 2" thru 8", all others round and keyed (carbon steel). Gives positive attachment for handle or actuator.

**Phenolic Backed Seat** - Non-collapsible, stretch resistant, blow-out proof, and easily field replaceable. Nitrile or EPDM standard.

**Seat Face** - Negates need for flange gaskets.

**Part Numbers:** Numbering Guide found on page 38.

**Temperature Range:** Dependent on material, see chart on page 39.

**Operator Options:** 10 position handle (2"-12")  
Manual gear operators (2"-30")  
Electric or Pneumatic actuators (pages 20-21)

- Wafer (600) or Lug (622) Style Bodies
- Cartridge Style Seat
- Low Torque
- Extended Neck for Insulating
- One-Piece 416 SS Stem with Precision Taper Pins



800-545-3636

# Manual Butterfly Valves

## 340 & 342 Series

For Process, Dry Bulk, Cement and General Industrial Applications

Nylon Coated Disc – Schedule 40/80

175 PSI CWP

**Body** - Lug style has drilled and tapped lugs meeting ANSI 125/150 flange standards. Lug body standard with ductile iron. Wafer body standard with ductile iron also available in aluminum.

Sizes  
**2"-12"**

**Top Plate Standard ISO 5211** - Accommodates all types of actuators; handles, gear operators, electric and pneumatic actuators.

**Disc/Stem** - 17-4 PH stainless steel two-piece stem allows for thin profile disc. Disc is coated with Nylon 11, a vegetable based thermoplastic which is USDA approved and resistant to fungus growth and molds. It is corrosion resistant yet maintains a durable surface and low friction coefficient. Adverse testing conditions reveal no corrosion to underlying metal surfaces.

**Stem-Seal** - A third seal ensuring absolute seal externally or internally for vacuum or pressure service. Matches seat material.

**Stem Bushing** - Composed of full strength, corrosion resistant ertalyte, stem bushings absorb operator side thrust. Top bushing comes standard in all valves.

**Bottom Stem Bushing** - Oil impregnated bronze bushing for less torque and longer valve life.

**Seat** - Food grade seats of EPDM and Nitrile.

**Hub Seal or Primary Seal** - Occurs when contact is made between the disc hub and the flat surface of the seat. Hub/seat seals prevent product from attacking stem or body.

**Flange Seal** - Sealing O-ring of resilient seat which provides an absolute seal to all flanges within specifications. No other gaskets required.

**Part Numbers:** Numbering Guide found on page 38.

**Temperature Range:** Dependent on material, see chart on page 39.

**Operator Options:**

10 position handle or manual gear operators  
Electric or Pneumatic actuators (see pages 22-23)

- **Wafer (340) or Lug (342) Style Bodies**
- **USDA Approved Nylon 11 Coated Ductile Iron Disc**
- **17-4PH Stainless Steel Stub Shafts**
- **Meets ANSI 125/150 Flange Standards**
- **Two Piece Shaft Design Allows for Thinner Profile Disc and Improved Flow Rates**



# Butterfly Valves

## 890 & 892 Series

General Service for Food and Beverage, Chemical/Petro Chemical Processing, Power and Utilities, Pulp and Paper.

Split Wafer Design

Full cut disc 150 PSI • Undercut disc 50 PSI  
PTFE or elastomer covered 100 PSI

**Body** - Lug style has drilled and tapped lugs meeting ANSI 125/150 flange standards. Two piece body allows ease of seat replacement. Lug body standard with ductile iron. Wafer body

standard with ductile iron. Also available in aluminum and stainless steel.

**Top Plate Standard ISO 5211** - Accommodates handles, gear operators, electric and pneumatic actuators.

Sizes  
**1"-12"**

**Disc/Stem** - The one-piece disc/stem is manufactured as standard in grade 255 stainless steel. Type 255 stainless has almost twice the strength of type 316 stainless steel. This eliminates shaft twisting and water hammer damage while allowing a thin disc design that increases CV ratings. Type 255 stainless provides four times the corrosion resistance as 316 stainless steel. The disc can be encapsulated with various rubber compounds and other chemically compatible materials. Undercut disc for dry powder applications are also available.

**Stem Bushing** - Composed of full strength, corrosion resistant ertalyte, stem bushings absorb operator side thrust. Top bushing comes standard in all valves, while bottom bushing comes with all valves sizes 4"-12".

**Stem-Seal** - A third seal ensuring leak resistance externally or internally for vacuum or pressure service. Matches seat materials: Buna-N, EPDM, or Viton®.

**O-Seal** - Two O-seals give a sure secondary seal as the O-seal becomes part of the body and encircles the stem before entering the seat and disc area. O-seals are also located at top and bottom of stem entry to form an absolute secondary seal. Seals are of the same material except for silicone.

**Seat** - The seat fully encapsulates the valve body, thereby preventing corrosion of the body or contamination of the flowing product. The only wetted parts are the seat and disc. Seats are available in EPDM (food grade), black nitrile (food grade), PTFE/Buna-N, PTFE/EPDM, Silicone, and Viton®.

**Hub Seal or Primary Seal** - Occurs when contact is made between the disc hub and the flat surface of the seat. Hub/seat seals prevent product from attacking stem or body.

**Flange Seal** - Sealing O-ring of resilient seat which provides an absolute seal to all flanges within specifications. No other gaskets required.

**Part Numbers:** Numbering Guide found on page 38.

**Temperature Range:** Dependent on material, see chart page 39.

**Operator Options:** 5 and 10 position handle  
Gear operator  
Electric or Pneumatic Actuators

- Wafer (899) or Lug (892) Style Bodies
- Total Encapsulation of the Seat and Disc/Stem Provides the Ultimate in Contamination Free Service
- Four Redundant Seals
- Easy Seat and Disc Replacement
- Stem Design Prevents Blow-Out Hazard



800-545-3636

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# Butterfly Valves

## High Seal Series

For Severe Process Service

### High Performance Butterfly Valves

**High Performance Butterfly Valves** are the result of years of experience in the design and manufacture of products for a variety of applications. Our valves are designed and tested to meet or exceed the most exacting standards of our industries.

Sizes  
**2"-60"**

A wide range of applications from vacuum to very high pressure service, and from low to very high temperature

service. Suitable for any severe process lines.

Excellent control characteristics that allow throttle control of flows.

Bubble-tight shut-off capability.

Applications in many industries such as:

- Oil refining
- Chemical and petrochemical processing
- Pulp and paper manufacturing processing
- Sugar refining
- Coal and mining industries
- Chemical machinery industries
- Power generating plants
- Desalination
- Steelmaking



### GTD SERIES - Resilient Seated

#### SPECIFICATIONS

**Sizes/Ratings:**

2" - 24" / ANSI Class 150 - ISO PN 10, 16, 25

2" - 24" / ANSI Class 300 - ISO PN 25, 40

3" - 24" / ANSI Class 600 - ISO PN 64

**Face to Face Dimensions:** ISO 5752 / short (DIN3202 / K1),  
API 609, MSS SP - 68

**Top Plate:** ISO 5211

**Body Style:** Wafer design, lug design

**Manual Actuator:** Lock lever handle, worm gear

**Automatic Actuator:** Electric, pneumatic (spring return or double acting), hydraulic cylinder

#### MATERIALS

**Body:** Carbon steel (A216 - WCB),  
316 stainless steel (A351 - CF8M)

**Disc:** A351 - CF8M

**Shaft:** 17 - 4PH (630SS)

**Seat:** RTFE ( 482°F maximum), leakage is negligible

**Shaft Bearing:** RTFE / 316 stainless

**Gland Bearing:** PTFE

**Seal:** PTFE

### MTD SERIES - Metal Seated

#### SPECIFICATIONS

**Sizes/Ratings:**

2" - 36" / ANSI Class 150 - ISO PN 10, 16, 25

2" - 30" / ANSI Class 300 - ISO PN 25, 40

3" - 24" / ANSI Class 600 - ISO PN 64

**Face to Face Dimensions:** ISO 5752 / short (DIN3202 / K1),  
API 609, MSS SP - 68

**Top Plate:** ISO 5211

**Body Style:** Wafer design, lug design

**Manual Actuator:** Lock lever handle, worm gear

**Automatic Actuator:** Electric, pneumatic (spring return or double acting), hydraulic cylinder

#### MATERIALS

**Body:** Carbon steel (A216 - WCB),  
316 stainless steel (A351 - CF8M)

**Disc:** A351 - CF8M / ENP (electroless nickel plate) or stellite

**Shaft:** 17 - 4PH (630SS)

**Seat:** Material/Treatment on disc surface/maximum working temperature:

- 316 stainless / ENP / below 572°F

- Inconel / ENP / below 662°F

- Inconel / Stellite / below 1202°F

- Leakage is in accordance with the Class V of ANSI B16.104 for permissible leakage rate.

**Shaft Bearing:** 316 Stainless

**Gland Bearing:** Graphite and nonasbestos

**Seal:** Graphite

### FSD SERIES - Fire Safe Seated

#### SPECIFICATIONS

**Sizes/Ratings:**

2" - 36" / ANSI Class 150 - ISO PN 10, 16, 25

2" - 30" / ANSI Class 300 - ISO PN 25, 40

3" - 24" / ANSI Class 600 - ISO PN 64

**Face to Face Dimensions:** ISO 5752 / short (DIN3202 / K1), API 609, MSS SP - 68

**Top Plate:** ISO 5211

**Body Style:** Wafer design, lug design

**Manual Actuator:** Lock lever handle, worm gear

**Automatic Actuator:** Electric, pneumatic (spring return or double acting), hydraulic cylinder

#### MATERIALS

**Body:** Carbon steel (A216 - WCB), 316 stainless steel (A351 - CF8M)

**Disc:** A351 - CF8M

**Shaft:** 17 - 4PH (630SS)

**Seat:** RTFE with 316SS ( 500°F maximum), leakage is negligible

**Shaft Bearing:** 316 stainless

**Gland Bearing:** Graphite

**Seal:** Graphite





## AVAILABLE SEAT MATERIALS FOR BUTTERFLY VALVES

DESC. OF TYPES	TYPES OF SEATS					
	ALL SEASON NITRILE	EPDM	VITON®	PTFE EPDM	PTFE BUNA-N	SILICONE
<b>AVAILABLE ON SERIES</b>	899 892 500 522 *600 *622 340 342	899 892 500 522 600 622 340 342	899 892 500 522	899 892	899 892	899 892 500 522
<b>COMPOUND NUMBER</b>	700	515	540	650	652	561
<b>COMMON NAMES</b>	Special formulation of nitrile for dry bulk and other abrasive services.	EPT EPR	Fluoro- elastome	PTFE	PTFE (See BUNA-N)	None
<b>COLOR</b>	Black	Black	Black	Black/white PTFE bonded to EPDM	Black/white PTFE bonded to BUNA-N	White
<b>CHEMICAL TYPE</b>	Special nitrile blend	Ethylene- propylene- diene- monomer	Poly-tetra- fluorinated hydrocarbon	Poly- fluoro- ethylene	Tetra- fluoro- ethylene	Polysiloxane
<b>TEMP RATING</b>	-40°F to 300°F	-40°F to 250°F	0°F to 350°F	-20°F to 300°F	0°F to 250°F	-50°F to 350°F
<b>GENERALLY SUITABLE FOR</b>	Used for abrasion resistance approaching that of urethane. Very resistant to extrusion at high pressures. Used in petroleum oils and water.	Less than 10% acids- inorganic and organic, alcohols, alkaline salts and solutions, dry bulk, water.	All aromatic, aliphatic and halogenated hydrocarbons.	For highly oxidizing acids (nitric, sulfuric) and alkalis.	For acids, hydrocarbons containing less than 40% aromatics.	Used primarily on high temp. applications. Usually hot air.
<b>GENERALLY NOT SUITABLE FOR</b>	Acids	Hydrocarbons	Ketones, esters or in combination with hot water and oil.	Abrasive service, or hydrocarbon service	Abrasive service	Do not use in applications over 50 PSI.

**Notes:**

1. Compound number is imprinted on O.D. Dove Trail Flat.
2. Other special compounds available on request.
3. Standard stem packing produced in compound #570.

\* Indicates Black Buna-N.

To be used only as a guide in selecting the most satisfactory combination of elastomers for resistance to various chemical solutions. It must be stressed that this information is offered only as a guide, and because of variables in actual service conditions, the accuracy of the ratings cannot be guaranteed. Actual service life can be determined only by the elastomers in actual service conditions.

This chart should be used as a GENERAL GUIDE for a particular group of compounds. It does not mean that the seat rating necessarily applies to every possible compound that could be classified in the group.

# Carbon Steel

## VME3 Series

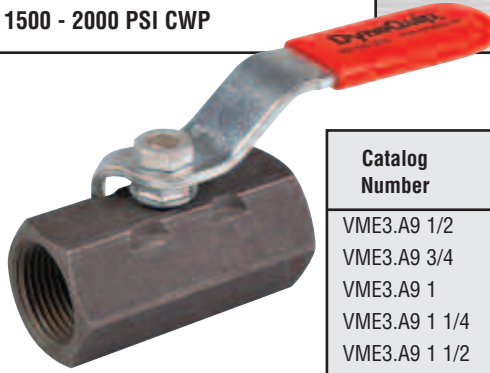
For Hydraulic, Petroleum, and General Chemical Applications

Unibody Economy Ball Valves

1500 - 2000 PSI CWP

VME3 Series unibody economy ball valves are 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"**



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

**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
- RTFE Seats and Seals
- Built Tough in the USA

## VME1 Series

For Hydraulic, Petroleum, and General Chemical Applications

2-Piece Economy Ball Valves

1500 - 2000 PSI CWP

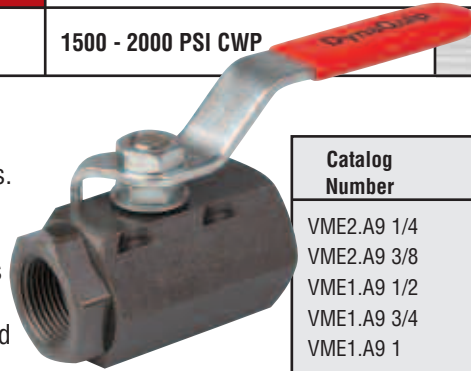
VME1 Series 2-piece ball valves are a great choice for lower pressure general hydraulic and petroleum shut-off needs. Valves are two-piece bar stock construction with phosphate coated bodies and NPT threaded connections in a standard port design. Built strong and designed to last

longer than lightweight imports.

**Options:**

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

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



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

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

## VLE2 Series

For Hydraulic, Petroleum, and Chemical Applications

2-Piece Medium Pressure Valves

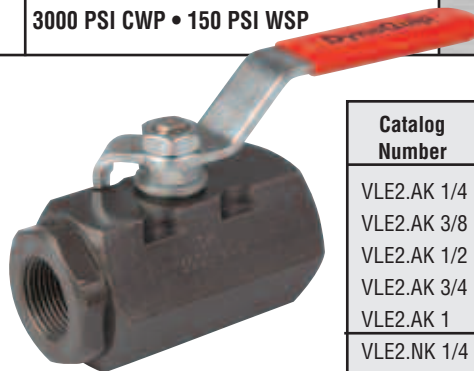
3000 PSI CWP • 150 PSI WSP

VLE2 Series 2-piece medium ball valves are 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.

**Options:**

- Latching Lockout Handle Kit (OP)

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



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

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

# Carbon Steel

## VBE2 Series

For Hydraulic, Petroleum, and General Chemical Applications

3-Piece Bolted In-Line Maintenance Valves

1000 PSI CWP • 150 PSI WSP

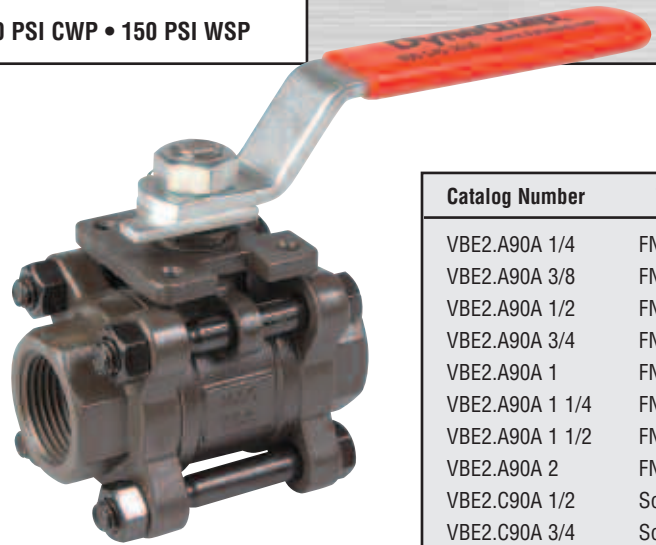
**VBE2 Series** ball valves are designed for hydraulic applications where maintenance is key. Three-piece Investment cast steel bodies and endcaps. Available in NPT threaded or socket weld end connections.

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

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)



*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®

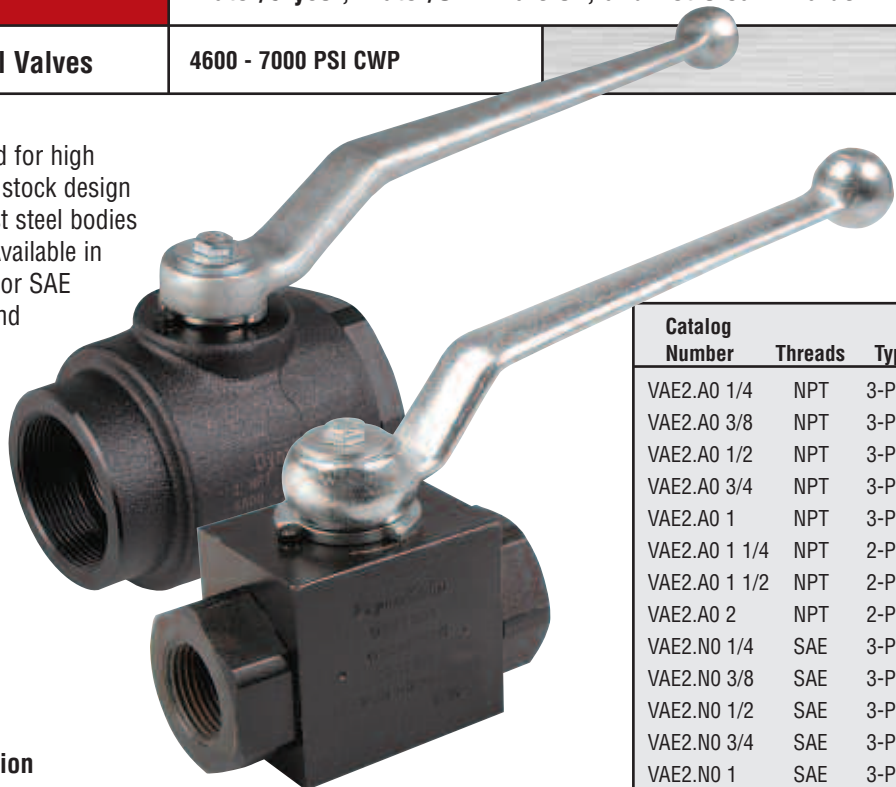
Full Port  
**1/4"-2"**

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



*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

# Carbon Steel

## VHC Series

For Hydraulic, Petroleum, and General Industrial Applications

150# ANSI Flange

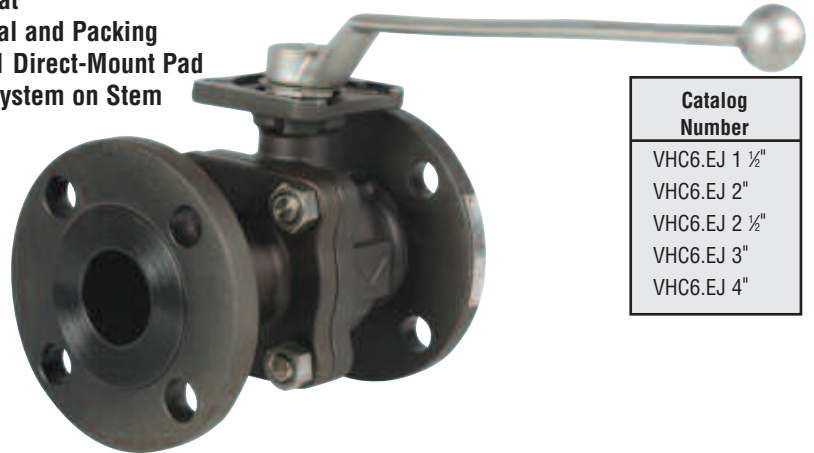
150 ANSI b16.10 Flange

**VHC Series** Flanged Ball Valves are perfect for a wide range of applications where an ANSI 150 flange is needed. This two piece A216-WCB investment cast body valve features a blow-out proof stem, anti-static device, and a fire safe design (test to API 607).

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

This valve is automated on pages 14 and 15.

- Stainless Steel Ball, Stem, and Handle
- RTFE Seat
- PTFE Seal and Packing
- ISO 5211 Direct-Mount Pad
- Spring System on Stem



### Catalog Number

VHC6.EJ 1 1/2"  
VHC6.EJ 2"  
VHC6.EJ 2 1/2"  
VHC6.EJ 3"  
VHC6.EJ 4"

# Stainless Steel

## VHS Series

For Chemical, Petroleum, and General Industrial Applications

150# ANSI Flange

150 ANSI b16.10 Flange

**VHS Series** flanged ball valves are perfect for a wide range of applications where an ANSI 150 flange is needed. This two piece A351-CF8M stainless steel investment cast body valve features a blow-out proof stem, anti-static device, and a fire safe design (test to API 607).

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

This valve is automated on pages 14 and 15.

- RTFE Seat
- PTFE Seal and Packing
- ISO 5211 Direct-Mount Pad
- Spring System on Stem



### Catalog Number

VHS2.EJ 1/2"  
VHS2.EJ 3/4"  
VHS2.EJ 1"  
VHS2.EJ 1 1/4"  
VHS2.EJ 1 1/2"  
VHS2.EJ 2"  
VHS2.EJ 3"  
VHS2.EJ 4"

# Stainless Steel

<b>VMB Series</b>	<b>For General Chemical Applications</b>	
<b>2-Piece Screwed Body Ball Valves</b>	1/4" - 1" 2000 PSI CWP • 150 PSI WSP 1 1/4" - 2" 1500 PSI CWP	

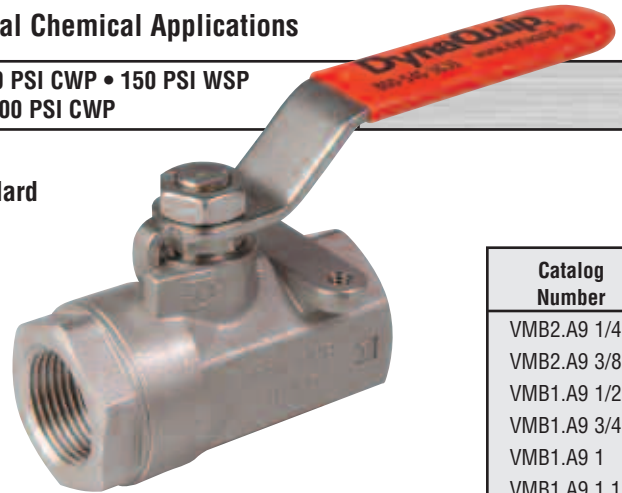
**VMB Series** 2-piece screwed body ball valves are made with investment cast stainless steel valve with 316 SS trim is durable enough for severe service applications, yet economical enough for general chemical flow control. Panel

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

mount is standard on all sizes. Adjustment of stem packing can be done while valve is in service. Operating temperature range: -20° to 425° F.

- **Meets NACE Standard MRO175**
- **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

*Similar valve is automated on pages 8 and 9.*

<b>VBS2 Series</b>	<b>For Food and General Chemical Service Applications</b>	
<b>3-Piece Bolted In-Line Maintenance Valves</b>	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"**

*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	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

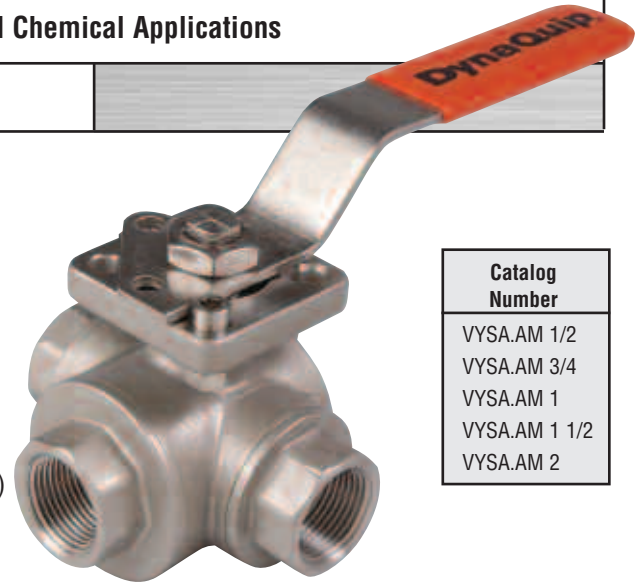
Full Port  
**1/2"-2"**

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

- 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 pages 10 and 11.*



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

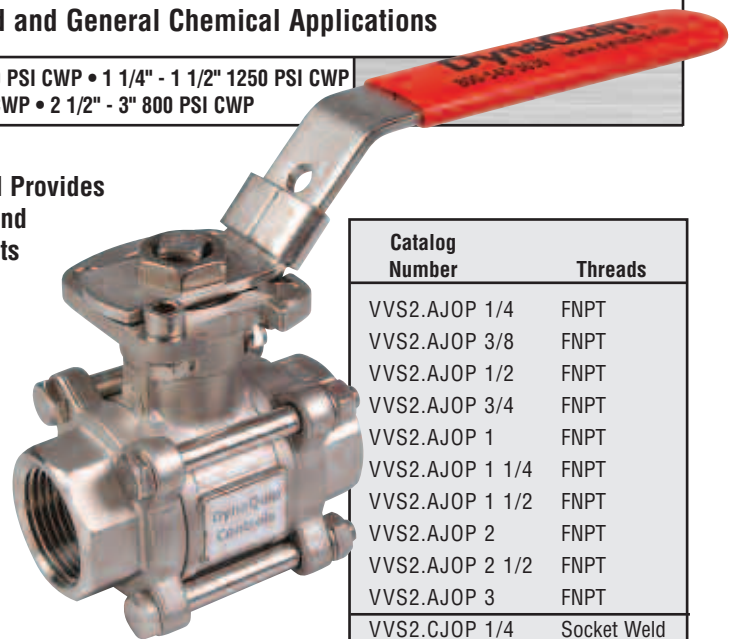
**VVS2 Series** ball valves are designed for food and general chemical applications where maintenance is key. Three-piece 316 SS bodies and end connections. Available in NPT threaded

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

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.

- 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 pages 12 and 13.*



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

# Bronze

## VMA Series

For Commercial and General Industrial Applications

2-Piece Screwed Body Ball Valve

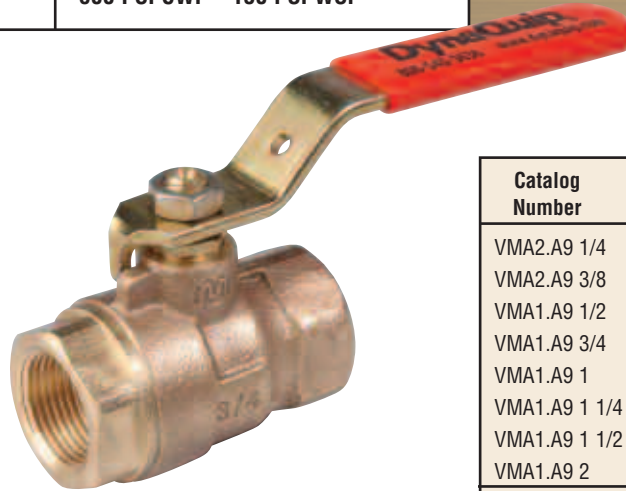
600 PSI CWP • 150 PSI WSP

VMA Series ball valves offer maximum strength, durability, and maintenance-free

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

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

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.



Catalog Number	Trim	Porting
VMA2.A9 1/4	BRASS	FULL
VMA2.A9 3/8	BRASS	FULL
VMA1.A9 1/2	BRASS	FULL
VMA1.A9 3/4	BRASS	STANDARD
VMA1.A9 1	BRASS	STANDARD
VMA1.A9 1 1/4	BRASS	STANDARD
VMA1.A9 1 1/2	BRASS	STANDARD
VMA1.A9 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

*Options:*

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

- Corrosion-Resistant Bronze Body
- Blowout-Proof Stem Design with Adjustable Packing
- Reinforced PTFE Seats and Seals
- Corrosion-Resistant Handle
- 4:1 Pressure Safety Factor

## VVA Series

For General Media Service

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

1/4" - 2" 600 PSI CWP

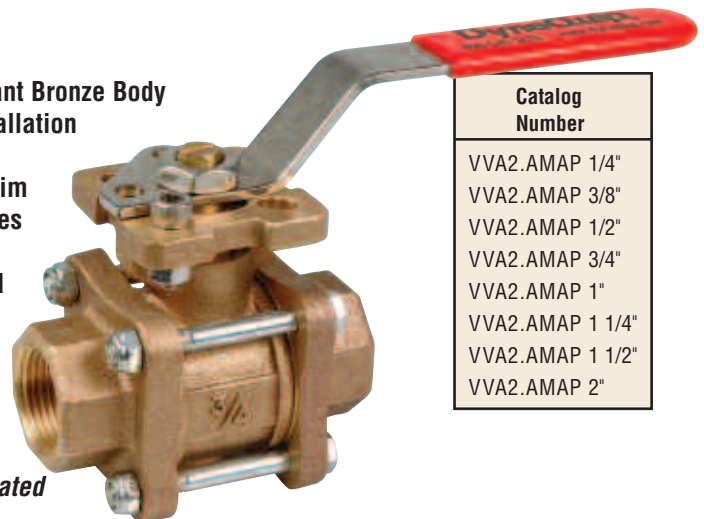
VVA2 Series ball valves are designed for general industrial applications where

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

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.

- 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 pages 6 and 7.*

*Options:*

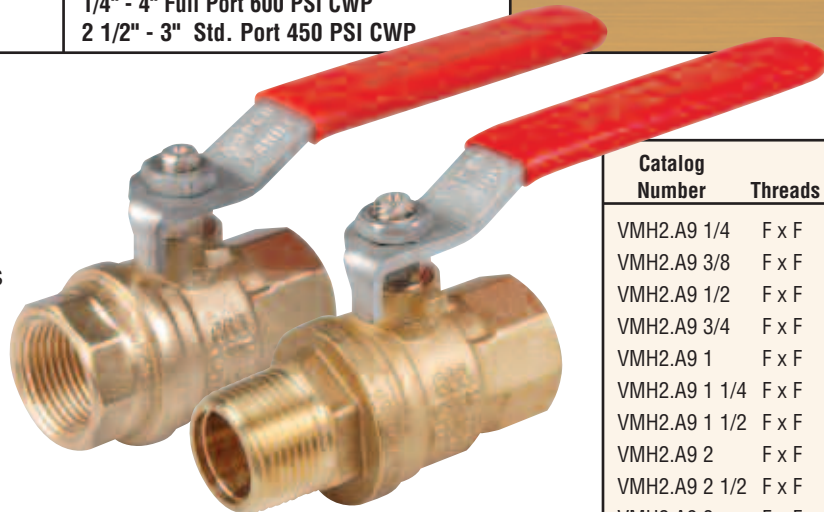
Repair kits available. Contact Customer Service at 800-545-3636.

<b>VMH2 Series</b>	<b>For Commercial and General Industrial Applications</b>	
<b>2-Piece Screwed Body Ball Valve</b>	1/4" - 4" Full Port 600 PSI CWP 2 1/2" - 3" Std. Port 450 PSI CWP	

**VMH2 Series** ball valves offer maximum strength, durability, and maintenance-free operation all in one package! Industrial two-piece, forged brass valves are precision machined and designed to outlast 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)  
  
*Similar valve is automated on pages 2 and 3.*



- Two-Piece Forged Brass
- Blowout-Proof Stem Design with Adjustable Packing
- Reinforced PTFE Seats and Seals
- 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 (Full Port)
- 3:1 Pressure Safety Factor (Std. Port)

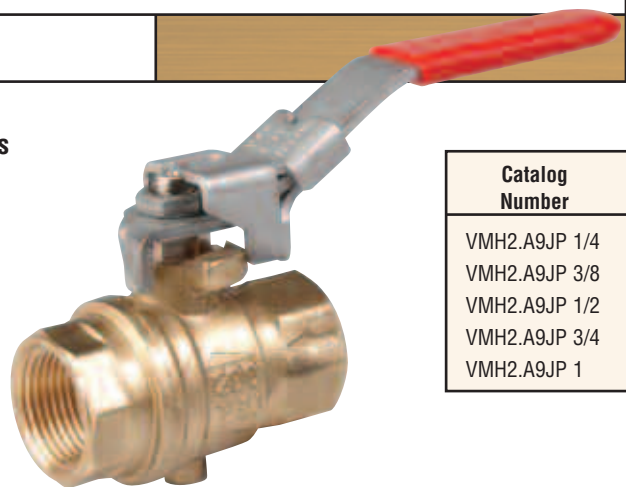
Catalog Number	Threads	Port	PSI CWP
VMH2.A9 1/4	F x F	FULL	600
VMH2.A9 3/8	F x F	FULL	600
VMH2.A9 1/2	F x F	FULL	600
VMH2.A9 3/4	F x F	FULL	600
VMH2.A9 1	F x F	FULL	600
VMH2.A9 1 1/4	F x F	FULL	600
VMH2.A9 1 1/2	F x F	FULL	600
VMH2.A9 2	F x F	FULL	600
VMH2.A9 2 1/2	F x F	FULL	600
VMH2.A9 3	F x F	FULL	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

<b>VMH2 Exhaust Series</b>	<b>For Compressed Air Service - Lockout/Tagout</b>	
<b>2-Piece Safety Exhaust Valve</b>	200 PSI CWP	

**VMH2 Exhaust Series** 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 Forged Brass
- 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

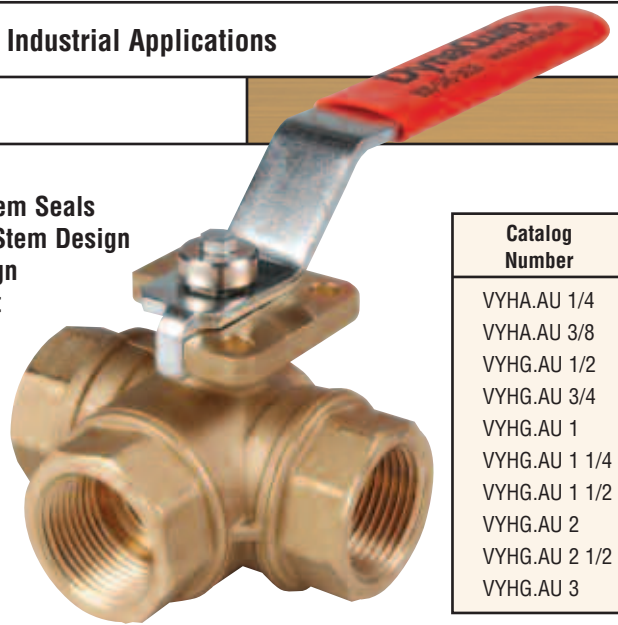
400 PSI CWP

**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  
**1/4"-3"**

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

*This valve is automated on pages 4 and 5.*



### 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 ball valves are 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: -4° 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

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

# Manual Valves Numbering Guide



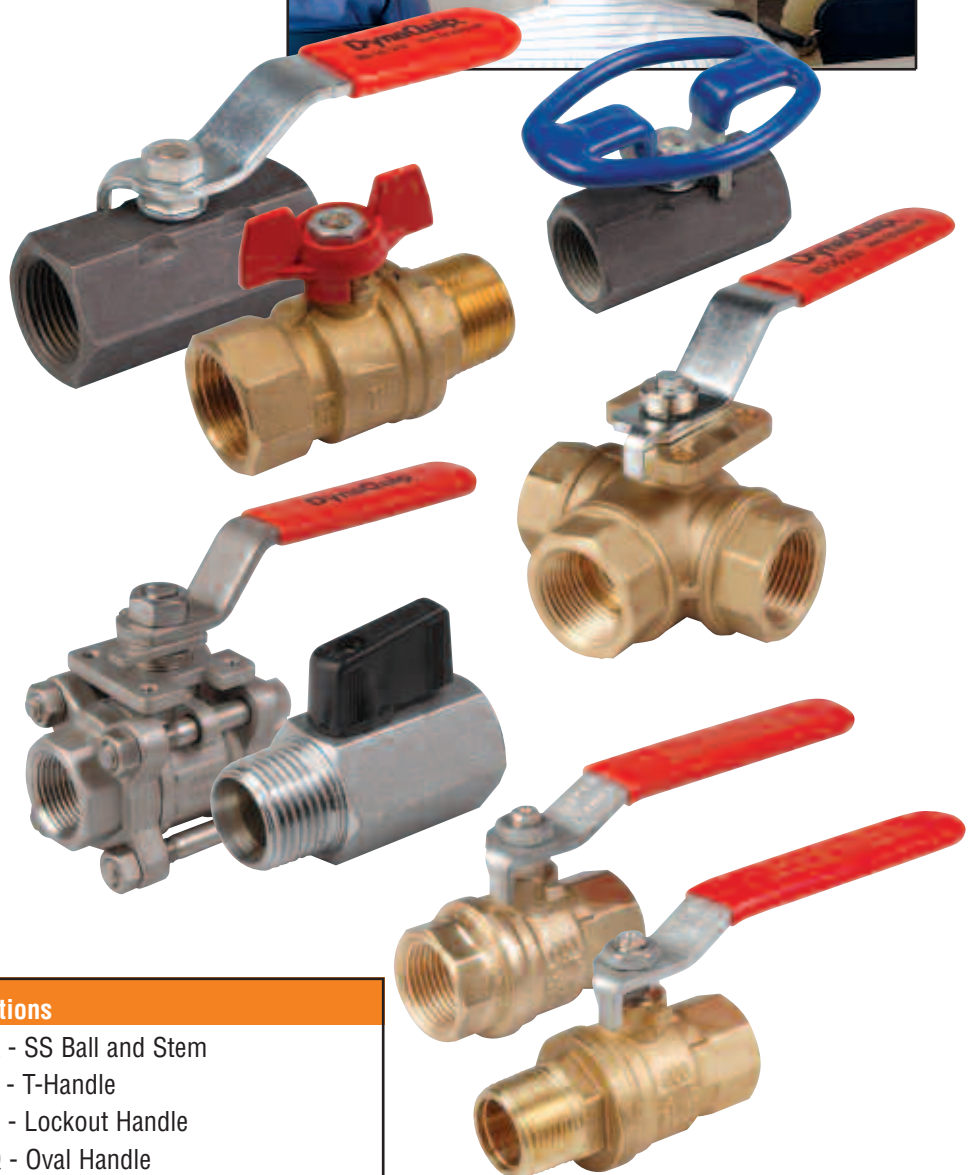
Series & Material
VAE - High Pressure Carbon Steel
VBA - 3pc Bronze
VBE - 3pc Carbon Steel
VBS - 3pc Stainless Steel
VLE - 2pc Carbon Steel 3000psi
VMA - 2pc Bronze
VMB - 1 & 2pc Stainless Steel
VME - 1 & 2pc Carbon Steel
VMH - 2pc Brass
VNH - Mini Valve Brass
VVA - 3pc Direct Mount Bronze
VVS - 3pc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

Port
1 - Standard
2 - Full
3 - Reduced
A - Full "L" port 90°
G - Std. "L" port 90°
6 - Full Port/SS Trim

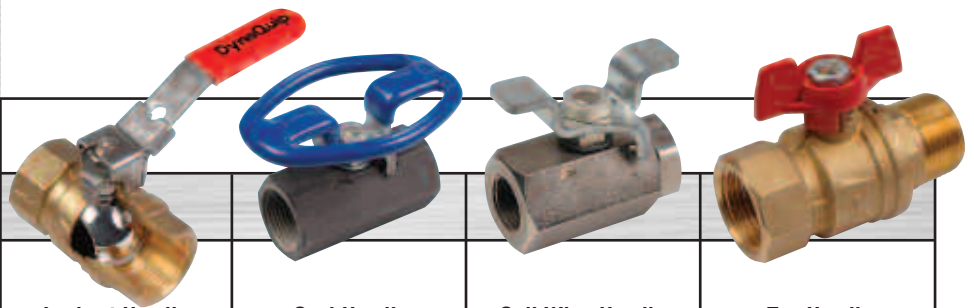
End Connection
A - FPT x FPT
C - Skt Weld x Skt Weld
N - O-Ring Boss SAE x SAE
P - MPT x FPT
E - 150# Flange

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

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



# 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	143112.050	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	143112.050		
	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  
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