These straight-pattern (globe), angle-pattern, and three-way valves offer a broad range of types, sizes, and materials—from DN15 to 600 (0.5 to 24-inch) low-flow valves to DN 500 (20-inch) and larger for demanding high-pressure steam and hydrocarbon service (see figure 1).

FIELDVUE® digital valve controllers offer digital control and remote diagnostics. The traditional proven line of Fisher® positioners, controllers, transmitters, and switches also is available.

ENVIRO-SEAL® and HIGH-SEAL™ packing systems are available on many designs to assist in compliance with environmental emissions requirements.

Whisper Trim® and Cavitrol® anti-noise and anti-cavitation trims are available for most designs.

These products deliver excellent dynamic performance to minimize process variability, providing opportunities to improve your financial performance.

For European requirements, complies with PED, ATEX, and EMC directives.
Low-Flow Valves (26000, 24000SB, 51000)

**Figure 2. Fisher® Low-Flow Valves**

<table>
<thead>
<tr>
<th>BAUMANN 26000 SERIES (see figure 2)</th>
<th>BAUMANN 24000SB SERIES (see figure 2)</th>
<th>BAUMANN 51000 SERIES (see figure 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suited for demanding pH control of acid or caustic solutions in paper mills, chemical, and life science facilities</td>
<td>Throttling control of high-pressure low flow rates</td>
<td>Throttling control of high-pressure low flow rates</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-seated, stem-guided globe valve PTFE lined Unbalanced</td>
<td>Single-seated, stem-guided globe valve Unbalanced Screwed-in seat ring Metal or soft seats</td>
<td>Single-seated, stem-guided globe valve Unbalanced</td>
</tr>
<tr>
<td><strong>Sizes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0 inch</td>
<td>0.25, 0.75, and 1.0 inches</td>
<td>0.25 and 0.5 inches</td>
</tr>
<tr>
<td><strong>Ratings</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.3 Bar CWP (150 psig CWP)</td>
<td>207 Bar CWP (3000 psig CWP)</td>
<td>207 Bar CWP (3000 psig CWP)</td>
</tr>
<tr>
<td><strong>End Connections</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wafer (flangeless design) installs between Class 150 or 300 RF and PN 10 through 25 line flanges</td>
<td>Threaded NPT (standard) Buttweld Flanged, ASME and EN available</td>
<td>Threaded G (metric) or NPT female</td>
</tr>
<tr>
<td><strong>Valve Body Materials</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>316/316L SST (ASTM A479 S31600/S31603, Annealed), PTFE core</td>
<td>Barstock ASTM A479 S31600/S31603 Dual Certified, Alloys available</td>
<td>CF8M (316 stainless steel) / Hastelloy C</td>
</tr>
<tr>
<td><strong>Valve Plug and Seat Ring (Trim) Materials</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tantalum (ASTM B365 R05200 cold worked) Hastelloy C276 (ASTM B574 N10276, 35 HRC Max) plug options PTFE seating material</td>
<td>Nitronic 60 (Cv ≥ 2.5) 316 Stainless Steel (Cv ≥ 3.8) Soft seat is ASTM A479 S31600 with PTFE insert</td>
<td>316 stainless steel with PTFE seat Hastelloy C with PTFE seat</td>
</tr>
<tr>
<td><strong>Flow Characteristics and Maximum Flow Coefficients</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modified equal percentage Maximum Cv from 0.001 to 4.2</td>
<td>Linear / Metal Seat Modified Equal Percentage / PTFE seat Linear / PTFE seat Equal Percentage / Metal seat Maximum Cv from 0.0005 to 6.8</td>
<td>Modified equal percentage Maximum Cv from 0.00013 to 2.5</td>
</tr>
<tr>
<td><strong>Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class IV (Cv’s of 2.5 and 4.2)</td>
<td>Class IV (standard with metal seats)</td>
<td>Class VI (standard)</td>
</tr>
<tr>
<td>Class VI (Cv’s of 0.001 through 1.0)</td>
<td>Class VI (with optional soft seats)</td>
<td>Class IV (available)</td>
</tr>
<tr>
<td><strong>Available Actuator Types (refer to pages 9 and 10)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baumann 32in² sliding-stem spring and diaphragm actuator Electric actuators available</td>
<td>Baumann 32in², 54in², or 70in² sliding-stem spring and diaphragm actuators Electric actuators available</td>
<td>Baumann 16in² pneumatic actuator Electric actuators available</td>
</tr>
</tbody>
</table>
## Utility Valves (24000, 24000D, 24000SVF/CVF)

### BAUMANN 24000 SERIES (see figure 3)
- **Application:** Bronze utility valve for pressure, flow, or temperature control in the textile, life science, semiconductor, industrial HVAC, food and beverage, and other industries.
- **Style:** Single-seated, stem-guided globe valve.
- **Sizes:** 0.5 through 2 inches.
- **Ratings:** ASME B16.24.
- **End Connections:** Screwed NPT female.
- **Valve Body Materials:** ASTM B62 Grade C83600 bronze.
- **Valve Plug and Seat Ring (Trim) Materials:** 316 stainless steel (standard), 416 stainless steel (available), Soft seat is ASTM A479 S31600 with PTFE insert.
- **Flow Characteristics and Maximum Flow Coefficients:** Linear or equal percentage, Maximum C_v from 0.20 to 50.0.
- **Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2):** Class IV (standard with metal seats), Class VI (with optional soft seats).
- **Available Actuator Types:** Baumann 32in², 54in², or 70in² sliding-stem spring and diaphragm actuators, Electric actuators available.

### BAUMANN 24000D SERIES (see figure 3)
- **Application:** Ductile iron flanged utility valve for pressure, flow, or temperature control in the textile, pharmaceutical, semiconductor, heating, air conditioning, food and beverage, and other industries.
- **Style:** Single-seated, stem-guided globe valve.
- **Sizes:** 0.5 through 2 inches; DN 15, 20, 25, 40, and 50.
- **Ratings:** ASME Class 150 or PN40 per EN 1092.
- **End Connections:** Mates with ASME Class 150RF or PN10-40 flanges per EN 1092.
- **Valve Body Materials:** Cast Ductile Iron (DIN 1693 GGG 40).
- **Valve Plug and Seat Ring (Trim) Materials:** 316 stainless steel (standard), 416 stainless steel (available), Soft seat is ASTM A479 S31600 with PTFE insert.
- **Flow Characteristics and Maximum Flow Coefficients:** Linear or equal percentage, Maximum C_v from 0.20 to 52.9.
- **Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2):** Class IV (standard with metal seats), Class VI (with optional soft seats).
- **Available Actuator Types:** Baumann 32in², 54in², or 70in² sliding-stem spring and diaphragm actuators, Electric actuators available.

### BAUMANN 24000SVF/CVF SERIES (see figure 3)
- **Application:** Flanged carbon and stainless steel utility valve for use in life sciences, specialty chemical, corrosive service, and other industries.
- **Style:** Single-seated, stem-guided globe valve.
- **Sizes:** 0.5 through 2 inches; DN 15, 20, 25, 40, and 50.
- **Ratings:** ASME Class 150 or 300 or PN40 per EN 1092.
- **End Connections:** 24000S: Screwed NPT, 24000SVF/CVF: ASME Class 150 or 300 raised-face flanges or PN40 flanges per EN 1092.
- **Valve Plug and Seat Ring (Trim) Materials:** 316 stainless steel (standard), Soft seat is ASTM A479 S31600 with PTFE insert.
- **Flow Characteristics and Maximum Flow Coefficients:** Linear or equal percentage, Maximum C_v from 0.005 to 61.0.
- **Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2):** Class IV (standard with metal seats), Class VI (with optional soft seats).
- **Available Actuator Types:** Baumann 32in², 54in², or 70in² sliding-stem spring and diaphragm actuators, Electric actuators available.
### General-Service and Heavy-Duty Valves (GX, EZ, and ES)

**Figure 4. General-Service and Heavy-Duty Valves**

<table>
<thead>
<tr>
<th>DESIGN GX (see figure 4)</th>
<th>DESIGN EZ (see figure 4)</th>
<th>DESIGN ES (see figure 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compact, state-of-the-art control valve and actuator system designed to control a wide range of process liquids, gases, and vapors. Capable of air supply pressures to 6.0 barg (87 psig), allowing valve shutoff at high pressure drops.</td>
<td>Heavy-duty general service for controlling liquids and gases, including viscous and other hard-to-handle fluids. UOP applications</td>
<td>Heavy-duty, general-service valve for clean liquids and gases. Positive shutoff at seat</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single port, flow up globe style valve Stem-guided or port-guided Balanced or unbalanced Screwed-in seat ring</td>
<td>Single-seated, post-guided globe or angle valve Unbalanced Seat ring retained by spacer Metal or soft seats</td>
<td>Cage-guided globe or angle valve Unbalanced Cage-retained seat</td>
</tr>
<tr>
<td><strong>Sizes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DN 15, 20, 25, 40, 50, 80, and 100 0.5, 0.75, 1, 1.5, 2, 3, and 4-inch</td>
<td>DN 15, 20, 25, 40, 50, 80, and 100 0.5, 0.75, 1, 1.5, 2, 3, and 4-inch</td>
<td>ES: DN 15 through 200 (0.5 through 8-inch) EWS: DN 100 x 50 through 600 x 500 (4 x 2 through 24 x 20 inches)</td>
</tr>
<tr>
<td><strong>Ratings</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PN 10 to 40, Class 150 and 300</td>
<td>PN 16, 25, 40, 63 and 100 and Class 125, 150, 300, and 600</td>
<td>PN 10, 16, 25, 40, 63, or 100 and Class 150, 300, or 600</td>
</tr>
<tr>
<td><strong>End Connections</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flanged raised-face per EN 1092-1 and ASME B16.5</td>
<td>Screwed NPT female, flat- or raised-face flanged, ring-type joint, socket-weld, and buttwelding ends</td>
<td>Screwed NPT female, flat- or raised-face flanged, ring-type joint, socket-weld and buttwelding ends</td>
</tr>
<tr>
<td><strong>Valve Body Materials</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN: 1.0619 steel, 1.4409 stainless steel, or Hastelloy C (CW2M) ANSI: ASME SA216 WCC steel, ASME SA351 CF3M stainless steel, or Hastelloy C (CW2M)</td>
<td>Steel, alloy steel, stainless steel (to EN, ASME, or ASTM specifications)</td>
<td>Steel, alloy steel, stainless steel (to EN, ASME, or ASTM specifications)</td>
</tr>
<tr>
<td><strong>Valve Plug and Seat Ring (Trim) Materials</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless steel (316L) with optional alloy 6 hardfacing or PTFE soft seat</td>
<td>Stainless steel with or without alloy 6 on seat or seat and guide Soft seat is PTFE</td>
<td>Stainless steel with or without alloy 6 on seat or seat and guide Soft seat is PTFE</td>
</tr>
<tr>
<td><strong>Flow Characteristics and Maximum Flow Coefficients</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal percentage or linear Maximum Cᵥ from 0.0389 to 183.5</td>
<td>Quick opening, linear, or equal percentage Maximum Cᵥ from 4.47 to 190</td>
<td>Quick opening, linear, or equal percentage Maximum Cᵥ from 6.53 to 1110</td>
</tr>
<tr>
<td><strong>Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class IV (standard with metal seats), Class V (optional with metal seats), or Class VI (optional with PTFE seats)</td>
<td>Class IV (standard with metal seats), Class V (optional with metal seats), or Class VI (with optional soft seats)</td>
<td>Class IV (standard with metal seats), Class V (optional with metal seats), or Class VI (with optional soft seats)</td>
</tr>
<tr>
<td><strong>Available Actuator Types (refer to pages 9 and 10)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design GX multi-spring, pneumatic diaphragm Type 657 or Type 667 spring and diaphragm; Type 585C piston</td>
<td>Type 657 or Type 667 spring and diaphragm; Type 585C piston</td>
<td>Type 657 or Type 667 spring and diaphragm; Type 585C piston</td>
</tr>
</tbody>
</table>
# Heavy-Duty and Severe-Service Valves (ED, ET, HP, and EH)

![DESIGN ED](image1.png)

**DESIGN ED**
- Heavy-duty, general- and severe-service valve for clean liquids and gases with higher pressure drops but where tight shutoff is not required.
- Applications: Easy-e/C0082 heavy-duty, general- and severe-service valve for tight shutoff with clean liquids and gases with higher pressure drops and temperatures to 232°C (to 316°C with optional seal materials).
- For high-pressure and severe-service applications. Available with special trim to combat noise and cavitation. Often used in power generation applications.

![DESIGN ET](image2.png)

**DESIGN ET**
- Heavy-duty, general- and severe-service valve for tight shutoff with clean liquids and gases with higher pressure drops and temperatures to 232°C (to 316°C with optional seal materials).
- Applications: Easy-e/C0082 heavy-duty, general- and severe-service valve for tight shutoff with clean liquids and gases with higher pressure drops and temperatures to 232°C (to 316°C with optional seal materials).
- For high-pressure and severe-service applications. Available with special trim to combat noise and cavitation. Often used in power generation applications.

![DESIGN HP AND EH](image3.png)

**DESIGN HP AND EH**
- Heavy-duty, general- and severe-service valve for tight shutoff with clean liquids and gases with higher pressure drops and temperatures to 232°C (to 316°C with optional seal materials).
- Applications: Easy-e/C0082 heavy-duty, general- and severe-service valve for tight shutoff with clean liquids and gases with higher pressure drops and temperatures to 232°C (to 316°C with optional seal materials).
- For high-pressure and severe-service applications. Available with special trim to combat noise and cavitation. Often used in power generation applications.

## Table: Heavy-Duty and Severe-Service Valves (ED, ET, HP, and EH)

<table>
<thead>
<tr>
<th>DESIGN ED (see figure 5)</th>
<th>DESIGN ET (see figure 5)</th>
<th>DESIGN HP and EH (see figure 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Easy-e® heavy-duty, general- and severe-service valve for clean liquids and gases with higher pressure drops but where tight shutoff is not required.</td>
<td>Easy-e® heavy-duty, general- and severe-service valve for tight shutoff with clean liquids and gases with higher pressure drops and temperatures to 232°C (to 316°C with optional seal materials).</td>
<td>For high-pressure and severe-service applications. Available with special trim to combat noise and cavitation. Often used in power generation applications.</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cage-guided globe or angle valve</td>
<td>Cage-guided globe or angle valve</td>
<td>Cage-guided globe or angle valve</td>
</tr>
<tr>
<td>Balanced trim</td>
<td>Balanced trim</td>
<td>Balanced trim or unbalanced trim</td>
</tr>
<tr>
<td>Cage-retained seat</td>
<td>Cage-retained seat</td>
<td></td>
</tr>
<tr>
<td><strong>Sizes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DN 25 through 200 and 1 through 8 (ED)</td>
<td>DN 25 through 200 and 1 through 8 (ET)</td>
<td>DN 25 through 500 and 1 through 20 inches (EWD)</td>
</tr>
<tr>
<td>DN 100 x 50 through 600 x 500 and 4 x 2 through 24 x 20 inches (EWD)</td>
<td>DN 100 x 50 through 600 x 500 and 4 x 2 through 24 x 20 inches (EWT)</td>
<td></td>
</tr>
<tr>
<td><strong>Ratings</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PN 10, 16, 25, 40, 63, or 100, and Class 150, 300, or 600</td>
<td>PN 10, 16, 25, 40, 63, or 100, and Class 150, 300, or 600</td>
<td>DIN PN 160, 250, 420 and Class 900, 1500, 2500, or intermediate ANSI ratings</td>
</tr>
<tr>
<td><strong>End Connections</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screwed NPT female, flat- or raised-face flanged, ring-type joint, socket-weld and buttwelding ends</td>
<td>Screwed NPT female, flat- or raised-face flanged, ring-type joint, socket-weld and buttwelding ends</td>
<td>Raised-face flanged, ring-type joint, socket-weld and buttwelding ends</td>
</tr>
<tr>
<td><strong>Valve Body Materials</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel, alloy steel, stainless steel (to EN, ASME, or ASTM specifications)</td>
<td>Steel, alloy steel, stainless steel (to EN, ASME, or ASTM specifications)</td>
<td>Steel, alloy steel, stainless steel (to EN, ASME, or ASTM specifications)</td>
</tr>
<tr>
<td><strong>Valve Plug and Seat Ring (Trim) Materials</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless steel with or without alloy 6 on seat or seat and guide. Soft seat is PTFE</td>
<td>Stainless steel with or without alloy 6 on seat or seat and guide. Soft seat is PTFE</td>
<td>Stainless steel with or without alloy 6 on seat or seat and guide. Soft seat is PTFE</td>
</tr>
<tr>
<td><strong>Flow Characteristics and Maximum Flow Coefficients</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quick opening, linear, or equal percentage Maximum Cₜ from 17.2 to 6500</td>
<td>Quick opening, linear, or equal percentage Maximum Cₜ from 17.2 to 6500</td>
<td>Linear, equal percentage or characterized Maximum Cₜ from 0.354 to 2600</td>
</tr>
<tr>
<td><strong>Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class II (standard)</td>
<td>Standard Air Test: 0.05 mL/min-psid/inch of port diameter (standard with soft seat)</td>
<td>Class II, III, IV or V (depending on size and construction)</td>
</tr>
<tr>
<td>Class III or IV (optional depending on size)</td>
<td>Class IV (standard with metal seats), Class V (optional with soft or metal seats)</td>
<td></td>
</tr>
<tr>
<td><strong>Available Actuator Types (refer to pages 9 and 10)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type 657 or Type 667 spring and diaphragm; Type 585C piston</td>
<td>Type 657 or Type 667 spring and diaphragm; Type 585C piston</td>
<td>Type 657 or Type 667 spring and diaphragm; Type 585C piston</td>
</tr>
</tbody>
</table>
### Three-Way Valves, Cryogenic, and Lined Valve (YD and YS, ET-C and EZ-C, and RSS)

#### DESIGN YD AND YS (see figure 6)
- Three-way valves for flow-mixing or flow-splitting service. The Design YS unbalanced, and the Design YD is balanced.

#### DESIGN ET-C & EZ-C (see figure 6)
- easy-e³ stainless steel cryogenic valves for liquefied natural gas and other special chemical and hydrocarbon applications with temperatures to –198°C

#### DESIGN RSS (see figure 6)
- Lined valve for severely corrosive or toxic process fluids. An economic alternative to alloy bodies. Limited in pressure and temperature

### Applications
- cage-guided three-way globe valves
- Balanced or unbalanced trim

### Style
- Cage-guided three-way globe valves
- Balanced or unbalanced trim

### Sizes
- 0.5 through 6 inches
- DN80 through 250 x 200 or 3 through 10 x 8 inches (ET-C)
- DN 15 through 100 or 1 through 4 inches (EZ-C)

### Ratings
- Class 125, 150, 250, 300, or 600
- PN 10, 16, 25, 40, 63, 100 and Class 150, 300, 600
- Class 150 or 300

### End Connections
- Screwed NPT female, flat- or raised-face flanged, ring-type joint, socket-weld and butt-welding ends
- Raised-face flanges

### Valve Body Materials
- Cast iron, steel, alloy steel, stainless steel (to ASME or ASTM specifications)
- Stainless steel (to ASME or ASTM specifications)
- Ductile iron with PFA liner

### Valve Plug and Seat Ring (Trim) Materials
- Stainless steel
- Stainless steel with or without alloy 6 hardfacing on seat
- Valve Plug and Seat Ring: Pure modified (reinforced) PTFE
- Bellows: Heavy-duty PTFE (TFM1705) with 304L SST support rings [Bellows is PTFE for 0.5 and 0.75 valves]

### Flow Characteristics and Maximum Flow Coefficients
- **Linear**
  - Maximum $C_v$ 8.42 to 567
- **Quick opening, linear, or equal percentage**
  - Maximum $C_v$ from 13.2 to 924
- **Equal percentage**
  - Maximum $C_v$ from 0.212 to 145

### Shutoff Class (IEC 60534-4 and ANSI/FCI 70-2)
- Class II or IV (Design YD)
- Class IV or V (Design YS)
- Class IV (standard) 0.05 mL/min/psid/inch of port diameter (optional for ET-C) or Class V (optional for EZ-C)
- Class VI (soft seat)

### Available Actuator Types (refer to pages 9 and 10)
- Type 657 or 667 spring and diaphragm; Type 585C piston
- Type 657 or 667 spring and diaphragm; Type 585C piston
- Type 657 or 667 spring and diaphragm; Type 585C piston
Other Valve Options

Cavitating Liquids... Cavitrol trim is available in many of these valves and in other severe-service valves. Cavitrol trim can minimize cavitation noise and damage in a properly sized valve.

Noisy Gases... Whisper Trim cages can substantially reduce noise in gas, vapor, and steam applications. Whisper Trim is available in several performance levels in many of these valves.


Protection Against Process Fluid Emissions... Optional ENVIRO-SEAL and HIGH-SEAL packing systems provide an improved stem seal to help prevent the loss of valuable or hazardous process fluids. These live-loaded systems provide longer packing life and reliability.

![CAVITROL® TRIM FOR CONTROL OF LIQUID CAVITATION](image1)

![WHISPER TRIM® III CAGE FOR REDUCTION OF NOISE IN GAS AND VAPOR APPLICATIONS](image2)

![PTFE ENVIRO-SEAL® PACKING SYSTEM](image3)

*Figure 7. Other Valve Products*
Other Valve Products

Steam Conditioning Service

Fisher steam conditioning products accurately control steam for high efficiency in power generation, industrial processing, space heating, and auxiliary steam applications. Steam conditioning valves, desuperheaters, and turbine bypass systems are available.

For a broad range of process control valves--beyond those mentioned here--contact your nearest sales office or sales representative.

Figure 8. Steam Conditioning Service
Globe Valve Actuators (Baumann, 657 and 667, 3024C, and 3025)

<table>
<thead>
<tr>
<th>BAUMANN (see figure 9)</th>
<th>TYPE 657 and 667 (see figure 9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td></td>
</tr>
<tr>
<td>Compact, light-weight actuator designed for use with Baumann sliding-stem valves</td>
<td>Heavy-duty actuators</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td></td>
</tr>
<tr>
<td>Spring-return pneumatic diaphragm</td>
<td>Spring-return pneumatic diaphragm</td>
</tr>
<tr>
<td><strong>Typical Maximum Thrust, Newtons (Varies with Operating Pressure, Spring, and Construction)</strong></td>
<td></td>
</tr>
<tr>
<td>3750</td>
<td>10 000 to 200 000</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Pneumatic or electro-pneumatic valve positioners, FIELDVUE digital valve controller, limit switch box, supply pressure filter-regulator, handwheel for 32in² and 54in² actuator</td>
<td>Pneumatic or electro-pneumatic valve positioners, FIELDVUE digital valve controller, limit switches, position transmitters, handwheels, travel stops, and supply pressure filter-regulator</td>
</tr>
</tbody>
</table>

Figure 9. Globe Valve Actuators (Baumann 32in², 54in², or 70in², and 657 and 667)

<table>
<thead>
<tr>
<th>TYPE 3024C</th>
<th>TYPE 3025</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td></td>
</tr>
<tr>
<td>Compact, general-purpose actuator</td>
<td>Long travel, up to 200 mm (8 inches)</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td></td>
</tr>
<tr>
<td>Spring-opposed pneumatic diaphragm</td>
<td>Spring-opposed pneumatic diaphragm</td>
</tr>
<tr>
<td><strong>Typical Maximum Thrust, Newtons (Varies with Operating Pressure, Spring, and Construction)</strong></td>
<td></td>
</tr>
<tr>
<td>Air Retracts Stem, Size 45: 34800</td>
<td>Air to Close, Size P900: 70935</td>
</tr>
<tr>
<td>Air Extends Stem, Size 45: 14700</td>
<td>Air to Open, Size P900: 61200</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Handwheels, adjustable travel stops, transducers, positioners, position transmitters, air relays, volume boosters, and solenoid valves are available for actuator mounting.</td>
<td>Handwheels, transducers, position transmitters, air relays, volume boosters, switching valves, lockable valves, limit switches, and solenoid valves are available for actuator mounting.</td>
</tr>
</tbody>
</table>

Figure 10. Globe Valve Actuators (3024C and 3025)
Globe Valve Selection Guide

Globe Valve Actuators (585C and 585CLS)

<table>
<thead>
<tr>
<th>TYPE 585C (see figure 11)</th>
<th>TYPE 585CLS (see figure 11)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td></td>
</tr>
<tr>
<td>Heavy-duty actuators</td>
<td>Heavy-duty actuators for large valves and valves with long travel</td>
</tr>
<tr>
<td><strong>Style</strong></td>
<td></td>
</tr>
<tr>
<td>Double-acting piston</td>
<td>Double-acting piston</td>
</tr>
<tr>
<td><strong>Typical Maximum Thrust, Newtons (Varies with Operating Pressure, Spring, and Construction)</strong></td>
<td></td>
</tr>
<tr>
<td>70300 at 10.3 bar operating pressure</td>
<td>100000 at 8.6 bar operating pressure</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>I/P transducers, pneumatic or electro-pneumatic valve positioners, FIELDVUE digital valve controller, limit switches, position transmitters, handwheels, travel stops, and supply pressure filter-regulator</td>
<td>I/P transducers, pneumatic valve positioners, limit switches, position transmitters, handwheels, travel stops, and supply pressure filter-regulator</td>
</tr>
</tbody>
</table>

Other actuators available are...

- Electrohydraulic actuator with or without integral pump and motor
- Full range of self-operated control valves
- Manual handwheel actuator
Valve Controllers and Positioners

FIELDVUE® Digital Valve Controller
FIELDVUE digital valve controllers are communicating, microprocessor-based controllers that convert a current signal to a pressure signal to operate the actuators.

Through the HART® or fieldbus communications protocol, the controller gives easy access to critical valve assembly information. AMS ValveLink® Software allows easy access to valve assembly performance characteristics. Vital information can be obtained without having to pull the valve from the line.

Performance Diagnostic tests, including On-Line Friction, Deadband Analysis, and Trending can be run while the valve is in service and operating. Valve Signature, Dynamic Error Band, and Step Response are displayed in an intuitive user-friendly environment that allows easy interpretation of data.

FIELDVUE models include the DVC6000 and DVC2000 with local user interface for calibration.

Pneumatic and Electro-Pneumatic Valve Positioners
Several pneumatic and electro-pneumatic valve positioners are available, including the 3660 P/P, 3661 I/P, 3582 P/P, and 3582i I/P positioners.

Note
Neither Emerson™, Emerson Process Management, Fisher, nor any of their affiliated entities assumes responsibility for the selection, use and maintenance of any product. Responsibility for the selection, use and maintenance of any product remains with the purchaser and end-user.
Globe Valve Selection Guide

Product Flier
PF51.1:010
July 2005

AUSTRIA
Emerson Process Management AG
Industrie – Zentrum No
Sud Straße 2a, obj M29
A– 2351 Wr. Neudorf
Tel. +43.2236.607
Fax. +43.2236.60744

BELGIUM
EPM NVSA
De Kleetaan 4
B– 1831 Diegem
Tel. +32.2.716.77.11
Fax. +32.2.725.83.00

BULGARIA
Emerson Process Management AG
22 Zlaten Rog Str.
BG– 1407 Sofia
Tel. +359.2.962.94.20
Fax. +359.2.962.94.30

CIS
Emerson Process Management
Malaya Trubetskaya
Street 8 – 11th Floor
CIS– 119881 Moscow
Tel. +7.095.232.69.70
Fax. +7.095.232.69.70

CROATIA
Emerson Process Management
Tratinska 19
10000 Zagreb
Tel. +385.1.309.42.20
Fax. +385.1.309.44.69

CZECH Rep
Emerson Process Management s.r.o.
Hajkova 22
Cz– 130 00 Praha 3
Tel. +385.2.710.35.655
Fax. +385.2.710.35.600

DENMARK
Emerson Process Management
Hejrevang 11
DK– 3450 Allerød
Tel. +45.70.25.30.51
Fax. +45.70.25.30.52

FINLAND
EPM Oy
Pakkalankatu 6
FIN – 01510 VANTAA
Tel. +358.0.201.11.200
Fax. +358.0.201.11.250

FRANCE
Emerson Process Management
Europarc du chêne
14 rue Edison – BP 21
F – 69671 BRON Cedex
Tel. +33.4.72.15.96.00
Fax. +33.4.72.15.96.99

GERMANY
Emerson Process Management
GmbH & Co OHG
Rheinische Str. 2
D – 42781 HAAN
Tel. +49.8153.939.90
Fax. +49.8153.939.172

GREECE
Kaminos Process Management SA
53– 55, Aki Migmou
pbo box 80115
GR– 18510 PIRAEUS
Tel. +30.210.4528.256/257
Fax. +30.210.4528.273

HUNGARY
Emerson Process Management Kft.
Erőbet Királyné útja 1/c
HU– 1146 Budapest
Tel. +36.1.462.4000
Fax. +36.1.462.0505

ITALY
EPM/Fisher–Rosemount
Via Pavia 21
I– 20053 Muggió (Mi)
Tel. +39.39.2.702.1
Fax. +39.39.2.780.750

NETHERLANDS
Emerson Process Management
Patrijeweg 140
Postbus 212
NL– 2289 EZ Rijswijk
Tel. +31.70.413.66.66
Fax. +31.70.390.68.15

NORWAY
BJORGE A/S
Postboks 6500 Etterstad
Grenseveien 95
N – 0666 OSLO
Tel. +47.55.39.15.00
Fax. +47.55.39.15.99

POLAND
Emerson Process Management
s.p.z.o.o.
UL. Konstruktorska 11 A
PL– 02673 Warszawa
Tel. +48.22.54.85.231
Fax. +48.22.54.85.201

PORTUGAL
EPM /Fisher–Rosemount
Rua Alfredo da Silva 8
Bloco C Piso 0 Norte
P– 2724–508 Amadora
Tel. +351.01.471.26.850
Fax. +351.01.472.68.85

ROMANIA
Emerson Process Management
Str. Maior Gheorghe
Sontu 8
Sector 1
RO– 71264 Bucharest
Tel. +40.21.260.03.86
Fax. +40.21.260.03.85

SLOVAK Rep
Emerson Process Management s.r.o.
Hanulova 5/b
SR– 84101 Bratislava
Tel. +421.2.643.62.182.
Fax. +421.2.642.87.245.

SLOVENIA
Intenta d.o.o.
Tovarnitska 15
SI– 2087 Krsko
Tel. +386.74.90.22.40
Fax. +386.74.90.22.41.

SPAIN
Emerson Process Management
Ctra Fuencarral–Alcobendas
Km 12.2; Edificio Auge 1
E– 28049 Madrid
Tel. +34.1.358.91.41
Fax. +34.1.358.91.45

SWEDEN
PEAB Process AB–Hammarö
Nokgardsvagen 11
S – 86341 Hammarö
Tel. +46.54.57.92.00
Fax. +46.54.53.18.51

SWITZERLAND
Emerson Process Management AG,
Blegistr. 21
CH– 6341 Baar
Tel. +41.71.68.61.11
Fax. +41.71.68.61.916

TURKEY
Emerson Process Management
Kisik Cad Basaran Is N2
81130 Altunizade
TR– Uskudar Istanbul
Tel. +90.216.651.0909
Fax. +90.216.651.0916

UKRAINE
Fisher–Rosemount
Tereshchenkovskaya St. 13,
Rm. 58
252004 Kiev
Tel. +380.442.464.656
Fax. +380.442.464.658

UNITED–KINGDOM and
EMEROD EAST
Emerson Process Management
Horsfield Way
Bredbury
UK– Stockport SK6 2SU
Tel. +44.161.406.8826
Fax. +44.161.406.8827

UZBEKISTAN
Emerson Electric
Beruniy Street
Building N2
of NBU, r 208
700 002 Tashkent
Tel. +998.71.249.44.88
Fax. +998.71.249.44.89

WEB site: www.fisher.com

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Emerson Process Management

Fisher
Marshalltown, Iowa 50158 USA
Cernay 68700 France
Sao Paulo 05424 Brazil
Singapore 128461

www.Fisher.com

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