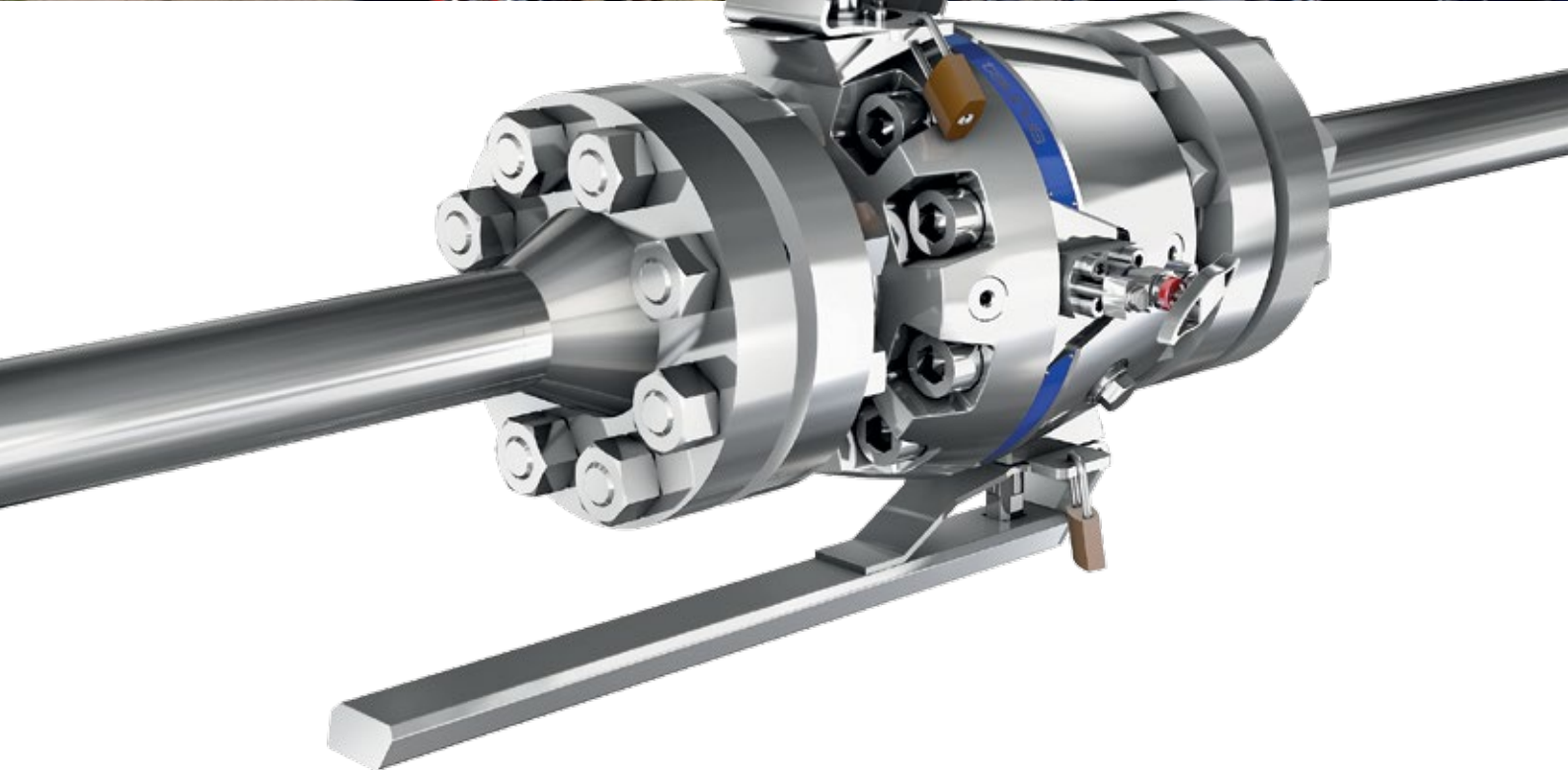


# Double Block & Bleed Pipeline Ball Valves

Taurus Series



# General Features

## Features

- DESIGNED IN ACCORDANCE WITH INDUSTRY STANDARDS  
i.e. ASME B16.34, ASME B31.3, ASME B16.5, API 6D / ISO 14313
- FULL BORE OR REDUCED BORE
- STANDARD MATERIALS OF CONSTRUCTION  
are forged Carbon Steel LF2, Stainless Steel 316 and Duplex.
- PRESSURE CLASS 150 TO 2,500
- FIRE SAFE IN ACCORDANCE TO API 607 AND ISO 10497
- COMPLIANT TO NACE MR0175 AND ISO 15156
- FACTORY TESTED  
in accordance with ASME B16.34, API 6D / ISO 14313, ISO 5208
- MANUFACTURED IN ACCORDANCE WITH THE PRESSURE EQUIPMENT DIRECTIVE
- BALL SEAT MATERIAL  
PTFE, Devlon, PEEK or Metal Seated
- STEM SEAL MATERIAL  
FKM, HNBR - RGD resistant (RGD = Rapid Gas Decompression) or Graphite
- ANTI-BLOWOUT STEM DESIGN AND ANTI-STATIC DESIGN
- WELD INLAY  
Seat pocket and seal area overlay on request.
- BI-DIRECTIONAL  
The Taurus Series floating and trunnion ball valves are bi-directional as standard.
- PAINTING  
The valves can be supplied with any kind of adequate coatings for environmental protection, according to customers specifications.
- CERTIFICATION AND TRACEABILITY  
Material test certificates 3.1 according to EN 10204. A unique code is stamped on all relevant components linking them with their material and chemical analysis certificates.

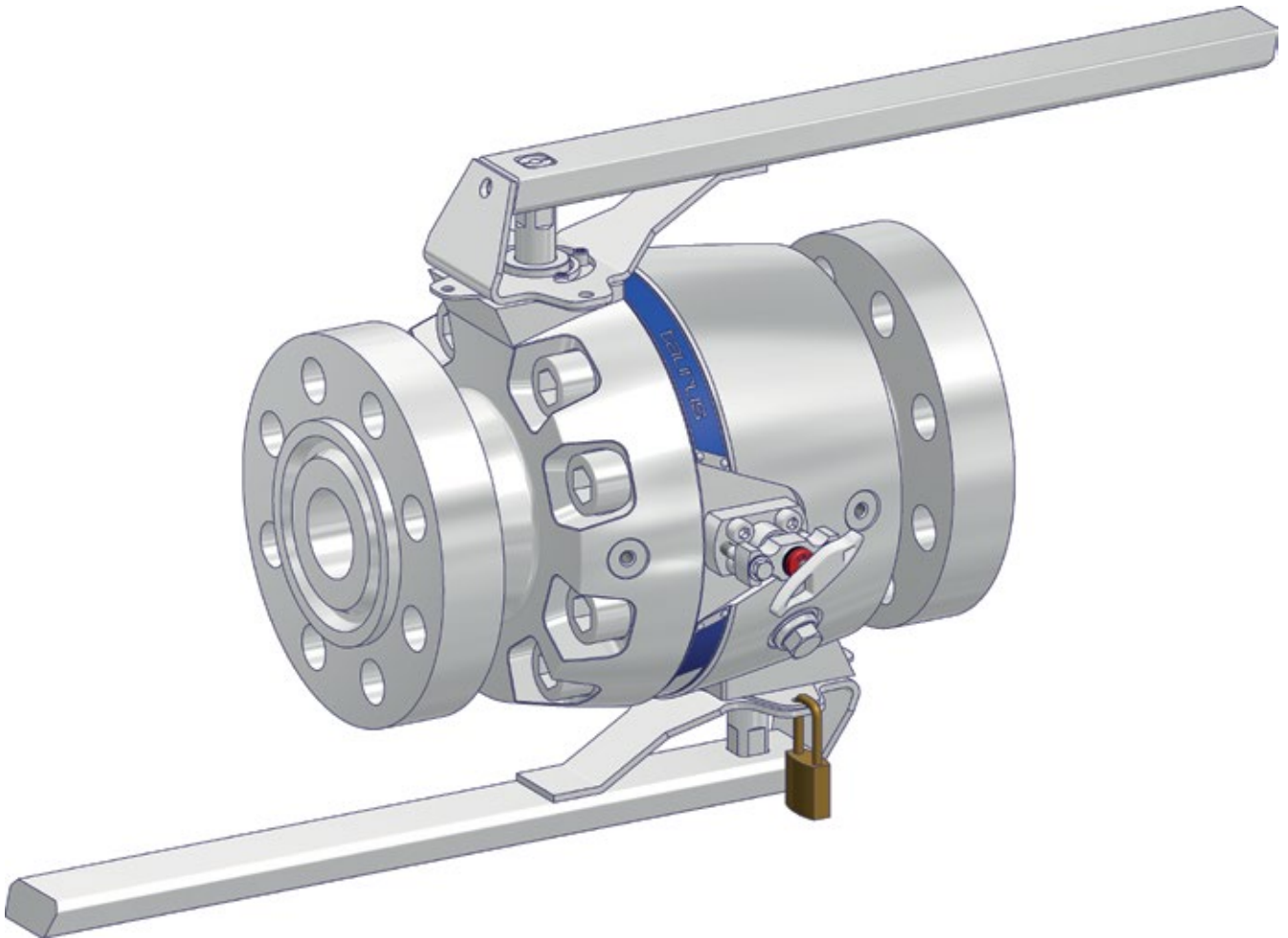
## Manufactured according to the following Codes and Specifications

- ASME B31.3      Process Piping
- ASME B16.34      Valves – Flanged, Threaded and Welding End
- ASME B16.5      Pipe Flanges and Flanged Fittings
- ASME B16.10      Face-to-Face and End-to-End Dimensions of Valves
- ASME B16.11      Forged Fittings, Socket Welding and Threaded
- ASME B16.25      Buttwelding Ends
- NACE MR0175/ ISO 15156      Petroleum and Natural Gas Industries – Materials for use in H<sub>2</sub>S-containing Environments in Oil and Gas Production
- API 6D/ ISO 14313      Specification for Pipeline Valves  
Petroleum and Natural Gas Industries – Pipeline Transportation Systems – Pipeline Valves
- API 598      Valve Inspection and Testing
- ISO 5208      Industrial Valves – Pressure Testing of Metallic Valves
- API 607/ ISO 10497      Fire Test for Soft-Seated Quarter Turn Valves  
Testing of Valves. Fire Type-testing Requirements
- MSS SP-25      Standard Marking System for Valves, Fittings, Flanges, and Unions

## YOUR BENEFITS:

- Compact Assembly
- Reduced Weight
- Reduced Leak Paths
- Reduced Installation and Maintenance Costs
- Significant Space Savings

## 2 Piece Design, Flanged Style

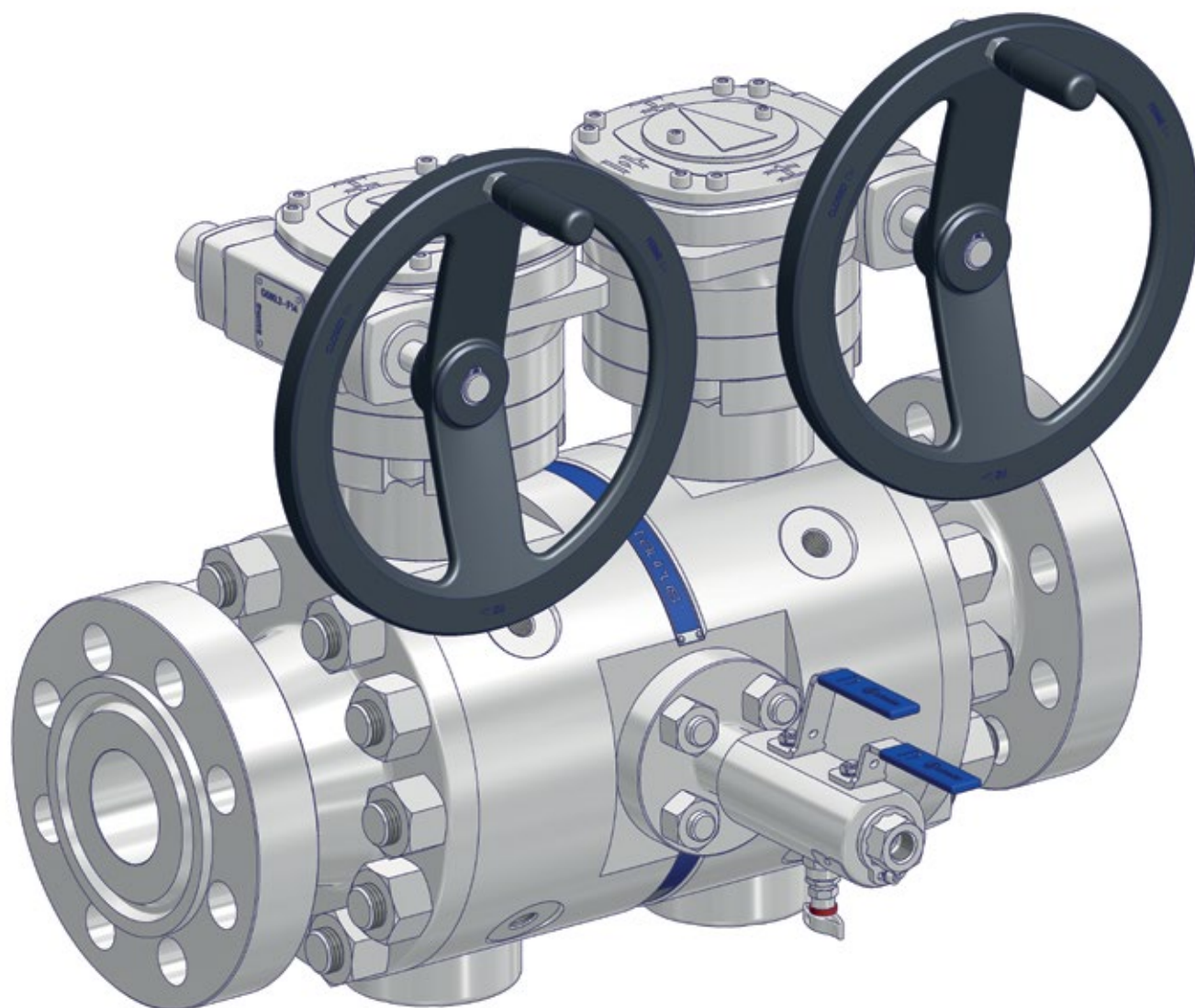


### BASICALLY WE OFFER 2 DIFFERENT DESIGNS:

- 2 Piece Design
- 3 Piece Design
- Both Flanged Style and Side Entry

### 2 Piece Design, Flanged Style - Features

- Bore Size 1" through 2"
- Acc. to ASME B16.10 Standard Length
  - Floating Ball Design Class 600, 900 & 1,500
  - Trunnion Ball Design Class 900, 1,500
- Non Standard Length for Class 150 & 300 and also for Trunnion Ball Design Class 600
- Flanged Connections acc. to ASME B16.5
- Floating Ball Design and Trunnion Ball Design
- Vent: Integral Needle Valve
- Lockable Handle/Lever - removable, Gear Box Operation available. Actuator mounting flanges, unless otherwise specified, are in full accordance with ISO 5211.
- Forged Body



### 3 Piece Design, Flanged Style - Features

- Bore Size 1" through 6"
- Non Standard Length face to face dimensions
- Flanged Connections acc. to ASME B16.5
- Floating Ball Design and Trunnion Ball Design
- Vent: Integral Needle Valve or Double Block & Bleed Option by VariAS-Block or Monoflange available
- Handle lockable and removable, Gear Box Operation as Standard. Actuator mounting flanges, unless otherwise specified, are in full accordance with ISO 5211.
- Forged Body

Ordering Information

Ordering Information

|   |   |    |        |    |                      |    |                         |   |    | 1                    | 2 | 3 | 4 | 5 | 6                    | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |  |
|---|---|----|--------|----|----------------------|----|-------------------------|---|----|----------------------|---|---|---|---|----------------------|---|---|---|----|----|----|----|----|----|----|----|--|
|   |   |    |        |    |                      |    |                         |   |    | T                    | D | 3 | D | L | —                    | 2 | F | C | 2  | F  | C  | —  | Y  | 0  | 0  | 1  |  |
| T   | Taurus  |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Bore Size   |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Trunnion Ball Design  |   |    |        |    |                      |    |                         |   |    | Floating Ball Design |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| A   | 1"  | F  | 3"     | J  | 5"                   | 1  | 1"                      | 3 | 3" |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| D   | 2"  | H  | 4"     | K  | 6"                   | 2  | 2"                      |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Design  |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 2   | 2 Piece Design  |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 3   | 3 Piece Design  |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Type / Configuration  |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| D   | Double Block & Bleed / 2 Ball Isolates, Needle Vent<br>(Integral Valve alt. Flanged Monoflange)         |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| E   | Double Block & Bleed / 2 Ball Isolates, Ball Vent<br>(Flanged Ball Valve or Double Block & Bleed Valve) |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| B   | Block & Bleed / Ball, Needle Vent<br>(Integral Valve alt. Flanged Monoflange)                           |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| C   | Block & Bleed / Ball, Ball Vent<br>(Flanged Ball Valve or Double Block & Bleed Valve)                   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Body Material   |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| C   | A 105   |    |        |    |                      | D  | Super Duplex UNS S32750 |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| L   | Carbon Steel LF2  |    |        |    |                      | V  | Alloy 625 UNS N06625    |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| S   | 1.4404 / 1.4401 / 316 / 316L  |    |        |    |                      | 1  | Alloy 825 UNS N08825    |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| F   | Duplex UNS S31803   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Inlet Connection  |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Flange Size and Flange Type                                     |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 1F  | 1" RF   | 2T | 2" RTJ | 4F | 4" RF                | 6T | 6" RTJ                  |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 1T  | 1" RTJ  | 3F | 3" RF  | 4T | 4" RTJ               |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 2F  | 2" RF   | 3T | 3" RTJ | 6F | 6" RF                |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Flange Class  |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| A   | 150   | D  | 900    |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| B   | 300   | E  | 1,500  |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| C   | 600   | F  | 2,500  |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Outlet Connection   |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Flange Size and Flange Type                                     |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 1F  | 1" RF   | 2T | 2" RTJ | 4F | 4" RF                | 6T | 6" RTJ                  |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 1T  | 1" RTJ  | 3F | 3" RF  | 4T | 4" RTJ               |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| 2F  | 2" RF   | 3T | 3" RTJ | 6F | 6" RF                |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Flange Class  |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| A   | 150   | D  | 900    |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| B   | 300   | E  | 1,500  |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| C   | 600   | F  | 2,500  |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Vent Connection   |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| N   | Integral Vent Valve – Needle Type, Screwed Bonnet   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Y   | Integral Vent Valve – Needle Type, Flanged Bonnet (OS&Y)  |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| B   | Flanged Vent Valve – Ball Valve   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| V   | Flanged Double Block & Bleed Valve (VariAS-Block)   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| M   | Flanged Monoflange  |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Followed by a Sequential Number                                 |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Features and Options to be specified respectively are available |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Bore  |   |    |        |    | Trim Material        |    |                         |   |    | Stem Seal            |   |   |   |   | Weld Inlay           |   |   |   |    |    |    |    |    |    |    |    |  |
| Full Bore   |   |    |        |    | Carbon Steel Trim    |    |                         |   |    | FKM O-Ring           |   |   |   |   | 316 Weld Inlay       |   |   |   |    |    |    |    |    |    |    |    |  |
| Reduced Bore  |   |    |        |    | Stainless Steel Trim |    |                         |   |    | HNBR O-Ring          |   |   |   |   | 625 Weld Inlay       |   |   |   |    |    |    |    |    |    |    |    |  |
|   |   |    |        |    | Duplex Trim          |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Operation   |   |    |        |    | Ball Seat Material   |    |                         |   |    | Trim Material        |   |   |   |   | General Options      |   |   |   |    |    |    |    |    |    |    |    |  |
| Actuated  |   |    |        |    | Carbon Filled PTFE   |    |                         |   |    | Carbon Steel Trim    |   |   |   |   | NACE Specification   |   |   |   |    |    |    |    |    |    |    |    |  |
| Gear Operated   |   |    |        |    | Devlon               |    |                         |   |    | Stainless Steel Trim |   |   |   |   | Fire Safe            |   |   |   |    |    |    |    |    |    |    |    |  |
| Lever Operated  |   |    |        |    | PEEK                 |    |                         |   |    | Duplex Trim          |   |   |   |   | Blind Flange on Vent |   |   |   |    |    |    |    |    |    |    |    |  |
| Lockable Handle/Lever   |   |    |        |    | Metal Seated         |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |
| Anti-Tamper Vent Valve  |   |    |        |    |                      |    |                         |   |    |                      |   |   |   |   |                      |   |   |   |    |    |    |    |    |    |    |    |  |

**Armaturenfabrik Franz Schneider  
GmbH + Co. KG**

Bahnhofplatz 12 | 74226 Nordheim  
Deutschland / Germany

**Tel:** +49 71 33 101-0

**Fax:** +49 71 33 101-148



[www.as-schneider.com](http://www.as-schneider.com)

**AS-Schneider Asia-Pacific Pte. Ltd.**

970 Toa Payoh North, #02-12/14/15  
Singapore 318992

**Tel:** +65 62 51 39 00

**Fax:** +65 62 51 39 90



[www.as-schneider.sg](http://www.as-schneider.sg)

**Armaturenfabrik Franz Schneider SRL**

Sales Office:  
Str. Basarabilor, Nr. 7 | 100036 Ploiesti  
Romania

**Tel:** +40 244 384 963

**Fax:** +40 244 384 963

Production Plant:  
Str. Mihai Viteazu, Nr. 327i | 507085 Harman  
Jud. Brasov | Romania

**Tel:** +40 368 41 40 25

**Fax:** +40 368 41 40 26



[www.as-schneider.ro](http://www.as-schneider.ro)

**AS-Schneider Middle East FZE**

P.O. Box 18749 | Dubai  
United Arab Emirates

**Tel:** +971 4 880 85 75

**Fax:** +971 4 880 85 76



[www.as-schneider.ae](http://www.as-schneider.ae)

**AS-Schneider America, Inc.**

17471 Village Green Dr | Houston, TX 77040  
United States of America

**Tel:** +1 281 7 60 10 25

**Fax:** +1 281 5 06 79 35



[www.as-schneider.com](http://www.as-schneider.com)