Forged steel bonnetless Y-pattern valves

ASME CLASSES: 1690 – 4500
NPS: ¼ – 4 (DN 8 – 100)

Easy maintenance!
VELAN’S PROFILE

VELAN AT A GLANCE

History
• Founded in 1950

People
• Over 2,000 employees

Product line
A world-leading range of valves across all major industrial applications:
• Cast steel gate, globe, check, and ball valves
• Forged steel gate, globe, check, and ball valves
• Triple-offset butterfly valves
• Knife gate valves
• Severe service valves
• Bellows seal valves
• Steam traps

Primary industries served
• Fossil, nuclear, and cogeneration power
• Oil and gas
• Refining and petrochemicals
• Chemicals and pharmaceutical
• LNG and cryogenics
• Marine
• HVAC
• Mining
• Water and wastewater
• Pulp and paper
• Subsea

Velan holds major applicable approvals:
• ASME Section III N and NPT for nuclear valves (since 1970)
• ISO 9001 (since 1991) and ISO 14001
• OHSAS 18001
• PED
• SIL
• GOST
• API 6A and API 6D
• TA-Luft
• Comprehensive quality programs that are compliant with the most stringent industry standards such as ISO 9001, API Q1, NCA 4000, ASME NQA-1 and 10 CFR 50 Appendix B.
• Velan has been surveyed and audited by leading organizations around the world such as Bureau Veritas, API, ASME, NUPIC, Newport News Shipbuilding, and DCMA.
• Total Process Improvement Program, including Lean Manufacturing and Six Sigma

Velan is one of the world’s leading manufacturers of cast and forged steel gate, globe, check, ball, triple-offset, knife gate, highly engineered severe service valves, and steam traps offering superior performance across all major industrial applications including: fossil, nuclear, and cogeneration power; oil and gas; refining and petrochemicals; chemicals and pharmaceutical; LNG and cryogenics; marine; HVAC; mining; water and wastewater; pulp and paper; and subsea. The company also supplies actuators and integrated control packages.

Founded in 1950, Velan has earned a reputation for product excellence and innovation by bringing to the market superior products with special emphasis on quality, safety, ease of operation, and long service life. Velan valves have an extremely broad installation base and are approved by major companies worldwide.

Velan concentrates on one business—the design, manufacture and marketing of steel valves in a broad range of types and sizes for high performance service in a wide range of applications. The company’s talented people are focused on Velan’s core values of quality, reliability, innovation, and integrity and mission to be the world’s leading valve brand.
VELAN’S GLOBAL NETWORK

Head office

Montreal, Canada
Velan Inc.

Manufacturing plants

North America

• Montreal, Canada
   Velan Inc., Plant 1

• Montreal, Canada
   Velan Inc., Plant 2 and 7

• Granby, Canada
   Velan Inc., Plant 4 and 6

• Williston, VT, U.S.A.
   Velan Valve Corp., Plant 3

Europe

• Lyon, France
   Velan S.A.S.

• Mennecy, France
   Segault S.A.

• Lisbon, Portugal
   Velan Válvulas Industriais, Lda.

• Lucca, Italy
   Velan ABV S.r.l., Plant 1

• Lucca, Italy
   Velan ABV S.r.l., Plant 2

Asia

• Ansan City, South Korea
   Velan Ltd., Plant 1

• Ansan City, South Korea
   Velan Ltd., Plant 2

• Taichung, Taiwan
   Velan Valvac Mfg. Co., Ltd.

• Suzhou, China
   Velan Valve (Suzhou) Co., Ltd.

• Coimbatore, India
   Velan Valves India Pvt. Ltd.

Distribution centers

• Granby, Canada
   VelCAN

• Benicia, CA, U.S.A.
   VelCAL

• Missouri City, TX, U.S.A.
   VelTEX

• Willich, Germany
   Velan GmbH

• ASME N-stamp accredited manufacturer

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Velan one-piece, forged, bonnetless globe valves have been proven in critical, tough service applications around the world for over 30 years. This includes high pressure drop, steam blow down, steam injection, fast acting isolation, 6,000 psi (414 bar) gas and super heated steam at 1,100°F (593°C). In 1981, after rigorous testing of valve performance and all its components, we redesigned the valve and added several new patented features. It is with pride that we offer to the user this outstanding, long-lasting, high performance valve for high-pressure and tough applications.

The valve combines all these features:
- Best flow characteristics
- Best design and operational features
- Solid CoCr alloy guided, non-spinning disc
- Enclosed, dust and dirt protected stem
- Lowest operational torque
- Low maintenance cost
- Simplest and fastest method of in-line internal repairs

Non-spinning, body-guided solid CoCr alloy disc
- Disc is guided at bottom and top
- Tight fit in body ensures disc-seat alignment and prevents side thrust on stem
- No galling of body, scoring or bending of stem
- Large clearance between stem and disc allows disc to move freely
- Cannot detach from stem, as not used for backseating
- Stop, stop check or needle control disc
- Non-spinning feature due to two flats in bottom area inside of the disc

Unique, fully-enclosed stem nut drive
- Well lubricated stem nut, rotating on two thrust bearings
- 10,000 test cycles show no visible damage to parts
- Dust cover and sleeve protect stem threads from dirt, dust and sand

Heavy integral CoCr alloy seat
- Tight shut-off
- Long valve life
- Easy refacing

Double orifice
- Protects seating faces because part of the erosive flow energy dissipates through second orifice
- Allows use of standard valves in high-pressure drop blow down applications

Note: CoCr alloy as used throughout this catalog refers to cobalt chrome hardfacing alloys as supplied by Kennametal Stellite™, and other approved manufacturers.
One-piece forged body
- No pressure-retaining threads or bolts
- No welds to cut and reweld

Streamlined flow and self-draining waterways
- Eliminates deposits and corrosion
- 65° incline reduces pressure drop

Quick and easy disassembly

Non-rising handwheel

Non-rotating splined stem

Extra low operating and seating torques ensured by:
- Non-rotating stem
- No torsion applied to packing rings
- Stem guided linearly in a low friction spline
- No stem scoring or bending

Long-lasting, tighter stem packing for low fugitive emissions
- Non-rotating stem
- Rings precompressed to approx. 4,000 psi (275 bar)
- Combination graphite rings
- Heavy packing flange and bolting
- Live-loading optional

Two-piece positive backseat
- Separate CoCr alloy ring lapped against the body and seated against the stem bevel for positive shutoff
- Threaded, splined bushing guides the stem and allows easy removal of all internals

DISC OPTIONS
NEEDLE DISC
STOP CHECK DISC

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DESIGN FEATURES

● **Non-rotating stem**
  Non-rotating stem has close roundness and straightness tolerances and is burnished for a superior finish.

● **Heavy two-piece gland**
  Packing gland is built to withstand high stresses caused by live-loading.

● **Live-loading**
  Two sets of Belleville springs maintain a minimum permanent stress of 4,000 psi (275 bar) on graphite packing. Live-loading keeps packing tight for long periods of time without maintenance. Bolt torques control total spring load.

● **Double packing and leak-off**
  A lantern ring and leak-off pipe provide for detection or removal of leakage, if any, from lower packing set (optional).

● **Short and narrow packing chamber**
  Sealing effectiveness improves as overall packing length shortens. Chamber wall is burnished to a superior finish.

*Note: Other features of bonnetless y-pattern globe valves on pages 4-5*
VELAN SPECIAL SERVICES

BELLOWS SEAL HERMETICALLY-SEALED
Y-PATTERN GLOBE VALVES

NPS ½ – 2 (DN 15 – 50)
ASME CLASSES 1500 – 2500

DESIGN FEATURES

● **No torsion of bellows**
  Splined stem prevents torsion of bellows and assures long cycle life.

● **Long cycle life bellows (5,000 cycles)**
  Designed for, and successfully tested in, high pressure–temperature conditions.

● **Low torque due to:**
  a) Non-rotating stem
  b) Stem nut thrust bearings
  c) Central grease fitting for lubrication of stem nut.

● **Two secondary stem seals**
  a) Backseat
  b) Stem packing.

● **Valves are fire safe**
  Operate normally during and after fire test.

● **Easy in-line servicing**
  Stem-bellows assembly can easily be removed and replaced on valves with threaded (O-ring seal) bonnet. On seal-welded valves, removal and replacement of weld is necessary. Special power operated tools are available for cutting the seal weld.

For more information, see our Bellows Seal Valves catalog (VEL-BS) at www.velan.com

In-service photo of Class 2500 hermetically-sealed Y-pattern bellows seal valve.

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VELAN FORGED STEEL
Y-PATTERN BONNETLESS GLOBE VALVES

CONVENTIONAL PORT OPENING, THREADED, SOCKET WELD, OR BUTT WELD

NPS ¼–4 (DN 8–100) ASME CLASSES 1690, 2680, 4500

STANDARD MATERIALS

<table>
<thead>
<tr>
<th>Part</th>
<th>Materials</th>
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<tbody>
<tr>
<td>Body</td>
<td>A105N A 182 Gr. F22 A 182 Gr. F316</td>
</tr>
<tr>
<td>Seat (integral)</td>
<td>CoCr alloy CoCr alloy CoCr alloy</td>
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<tr>
<td>Disc</td>
<td>CoCr alloy CoCr alloy CoCr alloy</td>
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<tr>
<td>Stem</td>
<td>Gr. 410 (stainless) Gr. 410 (stainless) Gr. 316B (stainless)</td>
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<tr>
<td>Stem nut</td>
<td>A 439 Austenitic ductile iron Gr. D-2C</td>
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<td>Backseat</td>
<td>CoCr alloy CoCr alloy CoCr alloy</td>
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<tr>
<td>Splined bushing</td>
<td>Gr. CA15 (stainless) Gr. CA15 (stainless) Gr. CA15 (stainless)</td>
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<tr>
<td>Packing washer</td>
<td>Gr. 304 (stainless) Gr. 304 (stainless) Gr. 304 (stainless)</td>
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<tr>
<td>Packing</td>
<td>Graphite Graphite Graphite</td>
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<tr>
<td>Split gland bushing</td>
<td>CoCr alloy CoCr alloy CoCr alloy</td>
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<tr>
<td>Packing flange</td>
<td>A105 A105 A182 Gr. F304</td>
</tr>
<tr>
<td>Gland stud</td>
<td>Gr. B7 Gr. B6 Gr. B8M2</td>
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<tr>
<td>Gland nut</td>
<td>Gr. 2H Gr. 2H Gr. 8M</td>
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<tr>
<td>Yoke bushing</td>
<td>Gr. 1020 steel Gr. 1020 steel Gr. 1020 steel (nickel plated)</td>
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<tr>
<td>Thrust bearing</td>
<td>Steel Steel Steel</td>
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<tr>
<td>Stem protector</td>
<td>Steel Steel (nickel-plated)</td>
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<tr>
<td>O-ring</td>
<td>Nitrile rubber Nitrile rubber Nitrile rubber</td>
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<tr>
<td>Handwheel</td>
<td>Malleable iron (painted) Malleable iron (painted) Malleable iron (painted)</td>
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<td>Snap ring</td>
<td>Steel Steel Steel</td>
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<tr>
<td>Name plate</td>
<td>Gr. 304 (stainless) Gr. 304 (stainless) Gr. 304 (stainless)</td>
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DIMENSIONS, WEIGHTS AND CV

<table>
<thead>
<tr>
<th>Size</th>
<th>Part</th>
<th>End-to-end</th>
<th>Center-to-top</th>
<th>Handwheel</th>
<th>Clearance open</th>
<th>Center-end</th>
<th>Weight lb/kg</th>
<th>Cv Flow coefficient</th>
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<tbody>
<tr>
<td></td>
<td>NPS</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>H</td>
<td>BP</td>
<td>CF</td>
<td>Weight</td>
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<tr>
<td>1/4</td>
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<td>0.375</td>
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<td>5.75</td>
<td>9.63</td>
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<td>1690</td>
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076Z

DESIGN SPECIFICATIONS

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<thead>
<tr>
<th>ITEM</th>
<th>APPLICABLE SPECIFICATION</th>
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<tbody>
<tr>
<td>General design</td>
<td>ASME B16.11</td>
</tr>
<tr>
<td>Socket weld design</td>
<td>ASME B16.11</td>
</tr>
<tr>
<td>Threaded design</td>
<td>ASME B1.20.1</td>
</tr>
<tr>
<td>Butt welding design</td>
<td>ASME B16.25</td>
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<tr>
<td>Testing</td>
<td>ASME B16.34 &amp; MSS-SP-61</td>
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<tr>
<td>Marking</td>
<td>MSS-SP-25</td>
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</tbody>
</table>

NOTE: Valves also supplied with impactor handle, electric, pneumatic or gear actuators.

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FEATURES:

- Solid CoCr alloy disc, fully guided for fast and full seating, even without spring
- High Cv
- Self-draining waterways

DIMENSIONS, WEIGHTS AND CV

<table>
<thead>
<tr>
<th>Size NPS DN</th>
<th>Port opening</th>
<th>End-to-end</th>
<th>Center-to-top</th>
<th>Socket weld bore</th>
<th>Socket weld depth</th>
<th>Approximate weight lb/kg</th>
<th>Cv Flow coefficient</th>
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</thead>
<tbody>
<tr>
<td>1/4</td>
<td>0.559</td>
<td>4.88</td>
<td>3.61</td>
<td>0.555</td>
<td>0.375</td>
<td>6.5</td>
<td>1.0</td>
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<td>3/8</td>
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<td>17</td>
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<td>7.25</td>
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<td>7.25</td>
<td>5.88</td>
<td>1.915</td>
<td>0.500</td>
<td>18.5</td>
<td>19</td>
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<tr>
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<td>1.125</td>
<td>7.25</td>
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<td>0.500</td>
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<td>8.06</td>
<td>3.535</td>
<td>0.625</td>
<td>94</td>
<td>45</td>
</tr>
</tbody>
</table>

(1) For Classes 1690 and 2680, dimensions are as shown, or same as for NPS 2 (DN 50) valve, depending on end connection.
(2) NPS 4 (DN 100) butt weld or flanged connection only.
(3) For butt weld weight is 40 lbs. (18 kg).

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### PRESSURE-TEMPERATURE RATINGS (°F)

Forged socket weld, threaded, butt weld, and combination ends valves

Forged ASTM material standard – to ASME B16.34

ASME Boiler and Pressure Vessel Code Section II materials that also meet the requirements of the listed ASTM specifications – psig/°F, Classes 1690–4500.

#### FORGED CARBON STEEL A105

**Working pressure by Classes, psig**

<table>
<thead>
<tr>
<th>CLASS</th>
<th>1690</th>
<th>2680</th>
<th>4500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell</td>
<td>6275</td>
<td>6350</td>
<td>9825</td>
</tr>
<tr>
<td>Seat</td>
<td>4600</td>
<td>4850</td>
<td>7300</td>
</tr>
</tbody>
</table>

#### SELECTION RULES:

A) These tables do not apply to flanged valves. Consult Velan’s Small Forged Valves catalog (CAT-SV) for flanged-end valve ratings.

B) Butt weld valves may be designated as Standard Class and Special Class, or Limited Class NPS 2½ (DN 65) and smaller.

C) Socket weld valves are limited to NPS 2½ (DN 65) and smaller and may be designated as Standard Class, Special Class, or Limited Class.

D) Threaded-end or combination threaded-end valves are limited to NPS 2½ (DN 65) and smaller and may be designated as Standard Class, Special Class, or Limited Class, up to 2500 Class (not shown). The ratings terminate at 1000°F (538°C).

E) Special Class: Requires additional inspection per ASME B16.34, para. 2.1.3.
**How to Order**

<table>
<thead>
<tr>
<th>Type of connection</th>
<th>Size of connection</th>
<th>Pressure rating</th>
<th>Valve type</th>
<th>Body/bonnet style</th>
<th>Body material</th>
<th>Trim Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>4</td>
<td>8</td>
<td>0</td>
<td>2</td>
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<tr>
<td>S</td>
<td>0</td>
<td>4</td>
<td>—</td>
<td>8</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

**Example:** NPS 3/4 (DN 20) threaded CS bonnetless stop globe valve with TS trim (see below).

The figure numbers shown on this key are designed to cover essential features of Velan valves. Please use figure numbers to ensure prompt and accurate processing of your order. A detailed description must accompany any special orders.

For live-loading and leak-off options, add a one-digit suffix to the figure number:
- 0 - for live-loading, double packing and leak-off;
- 2 - for live-loading only;
- 3 - for double packing and leak-off only.

**Example:** W05-8076Z-02TS-2 is a: NPS 1 (DN 25) Class 1690 carbon steel Y-pattern stop globe valve with TS trim and live-loading.

### A Type of Connection

- **A** Butt weld
- **B** Combination (socket weld/threaded)
- **C** Flanged B16.5/B16.47 (series A)
- **D** Thread NPT
- **E** Socket weld

### B Size of Connection

Customers have the choice of specifying valve size as part of the valve figure number (B) using the numbers below, or indicating valve size separately. Sizes shown in NPS (DN)

**Examples:**
- B16-3054P-02TS (valve size is part of figure number)
- NPS 10 B-3054P-02TS (valve size is shown separately)

### C Pressure Rating

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
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</thead>
<tbody>
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<td>600</td>
<td>4</td>
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<tr>
<td>3</td>
<td>1500</td>
<td>5</td>
<td>4500</td>
<td>8</td>
</tr>
</tbody>
</table>

### D Valve Type

- **01** Flow control
- **07** Stop globe
- **09** Needle
- **03** Piston check
- **08** Stop check

### E Body/Bonnet Style

- **06** Inclined y-pattern
- **07** Inclined y-pattern bonnetless 45°
- **08** Y-pattern bellows seal (non-rotating stem)
- **09** Welded bonnet
- **10** Bonnetless (non-rotating stem)

**Note:** Velan valves for NACE service (as indicated by figure number and/or description) comply with the metallurgical requirements of the current NACE MR0103 and MR0175 / ISO 15156. Material selection is dependent on the actual environment and it is therefore the equipment End User’s responsibility to ensure that the materials are suitable for the intended service. Please contact Velan for any questions regarding the application of our products for NACE service.

### F Body Material

<p>| | | | |</p>
<table>
<thead>
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<td>A105</td>
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<td>S/S F316L</td>
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<tr>
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<tr>
<td>10</td>
<td>S/S F316H</td>
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### G Trim Material (Standard Trims)

<table>
<thead>
<tr>
<th>Code</th>
<th>Wedge/disc surface</th>
<th>Seat surface</th>
<th>Stem</th>
<th>Bellows</th>
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<tbody>
<tr>
<td>MS</td>
<td>CoCr alloy(1)</td>
<td>CoCr alloy(1)</td>
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<tr>
<td>NE</td>
<td>CoCr alloy(1)</td>
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<td>13 CR 410 HRC 22 max.</td>
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<td>NG</td>
<td>CoCr alloy(1)</td>
<td>CoCr alloy(1)</td>
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<td>S/S 616 HT</td>
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</table>

1) Other materials are available upon request.
2) Material code “10” F316H/F316 has a minimum carbon content of 0.04 and is to be used if temperatures are over 1000°F (538°C).
3) Material code “13” Forged F316 is not suitable for temperatures above 1000°F (538°C) as it is dual certified (F316/F316L).
4) Base material is either the same as the body or solid trim at manufacturer’s option.
5) Bellows material shown as standard, inconel can be used in lieu of SS 321 and Hastelloy in lieu of Inconel, where design and/or pressure class applicable.
6) CoCr alloy (Grade 6 or 21) based on material or application at manufacturer’s option.
7) NACE service valves are supplied with bolting with max. hardness of RC22.

**Note:** CoCr alloy as used throughout this catalog refers to cobalt chrome hardfacing alloys as supplied by Kennametal Stellite™, and other approved manufacturers.

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