

Block & Bleed Valves

One Piece Forged Integral Valve series
Bolted Body Integral Valve series
Monoflange Valve series



Ultra Low Emission Valves



Why use HAVI Integral Valves

Traditionally a typical Block & Bleed System would consist of two Standard Isolation Valves, and a separate Standard Valve in the Tee Junction for Bleeding the cavity in between. This requires a lot of space and also requires lot of time for Installation. It also increases the Weight of the overall system of Double Block & Bleed. This traditional Installation has more number of Leak Paths which eventually affects the Fugitive Emission. Fugitive Emission is of prime importance to the End User as it directly has an impact on the loss of valuable Media through Leak Paths and also directly contributes to Air Pollution and Climate change. It has got many other disadvantages which will be avoided with the installation of HAVI Integral Valves.

Advantages of HAVI Integral Valve

It is an Compact Design of DBB Systems.

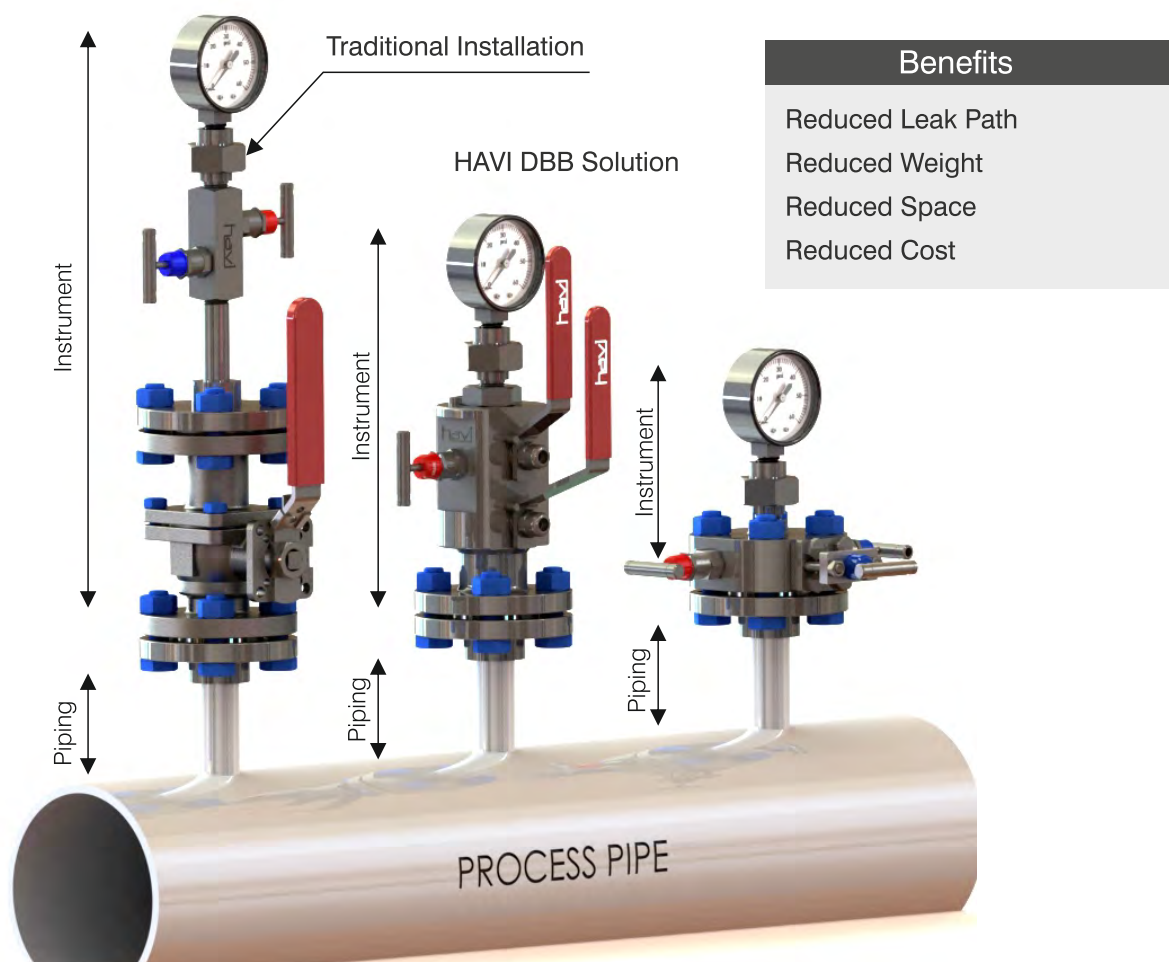
Saves Cost, Space, Weight.

Leak Paths are reduced.

Reduces Installation and Maintenance Cost.

Minimum Pressure Drop.

Custom made to your Requirements.



Features

Directly Mounted on the Flange of Piping connection, hence the overall height is reduced

Reduces Weight upto 70% and Cost upto 30%

Available upto 3" size and 2500 Class

Flange Connections conforming to ANSI B16.5

Anti Blow out Stem Design

Fire Safe Design testing to API 607 & API 6FA

TAT approved as per MESC SPE 77/300

Fugitive Emission Test as per MESC SPE 77/312 Class A & Class B

Colour coded Dust Caps for identification of Valve type

100% Factory Tested

Thread rolled and Burnished Stem

Configuration

Primary Isolation	Secondary Isolation	Drain
Ball	Ball	Needle
Needle	Needle	Needle
Ball	Ball	Ball

Function

The Double Block & Bleed Valve can perform the tasks of 3 Separate Valves (2 Separate Isolations and 1 Drain Valve) which apart from being hugely space saving also saves on the Weight and the time required for Installation and Maintenance. The Operation ease is such that the Operator is able to locate and operate all the 3 Valves in one location.

Double Block and Bleed Valves operate on the principle that Isolation can be achieved from both the Upstream and Downstream process flow / pressures.

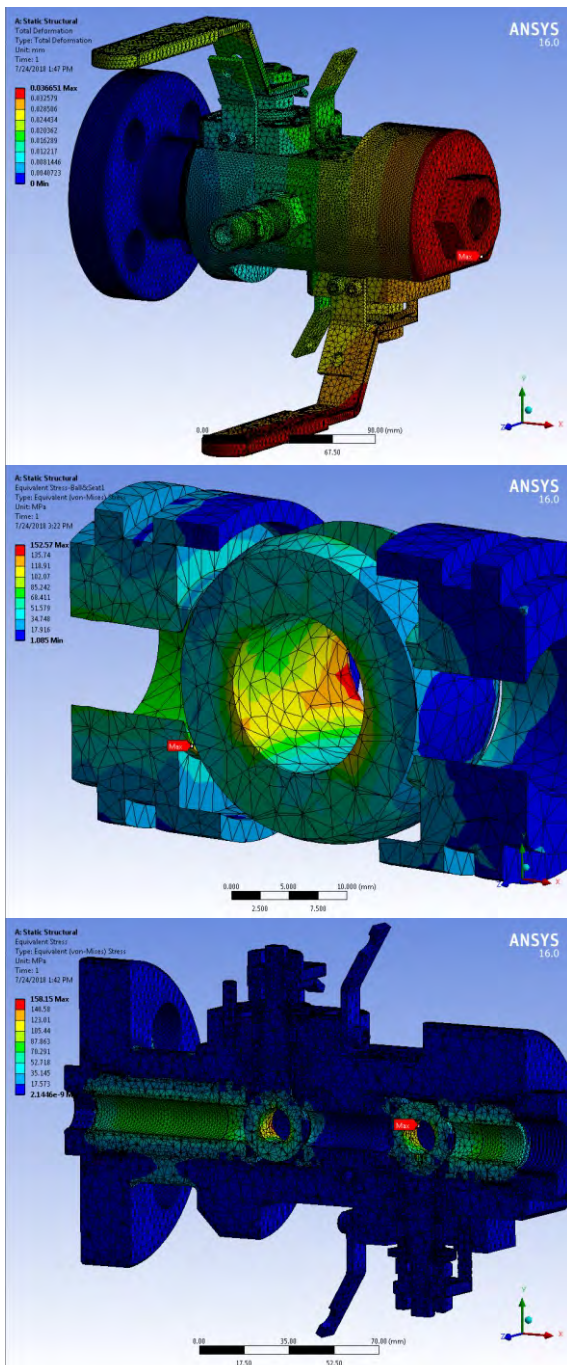
This is achieved by two Ball and 1 Needle or Bleed Valve. Valves placed back to back, with a third Isolatable Valve in the centre cavity.

Once Isolation has been achieved in one or more of the main process Isolation Valves, the cavity that is created between these Isolations can be drained. This is useful for Flow diverting, Sampling or Injection situations, and for maintenance or integrity check situations where Seat leakage can be monitored through third Bleed Valve.

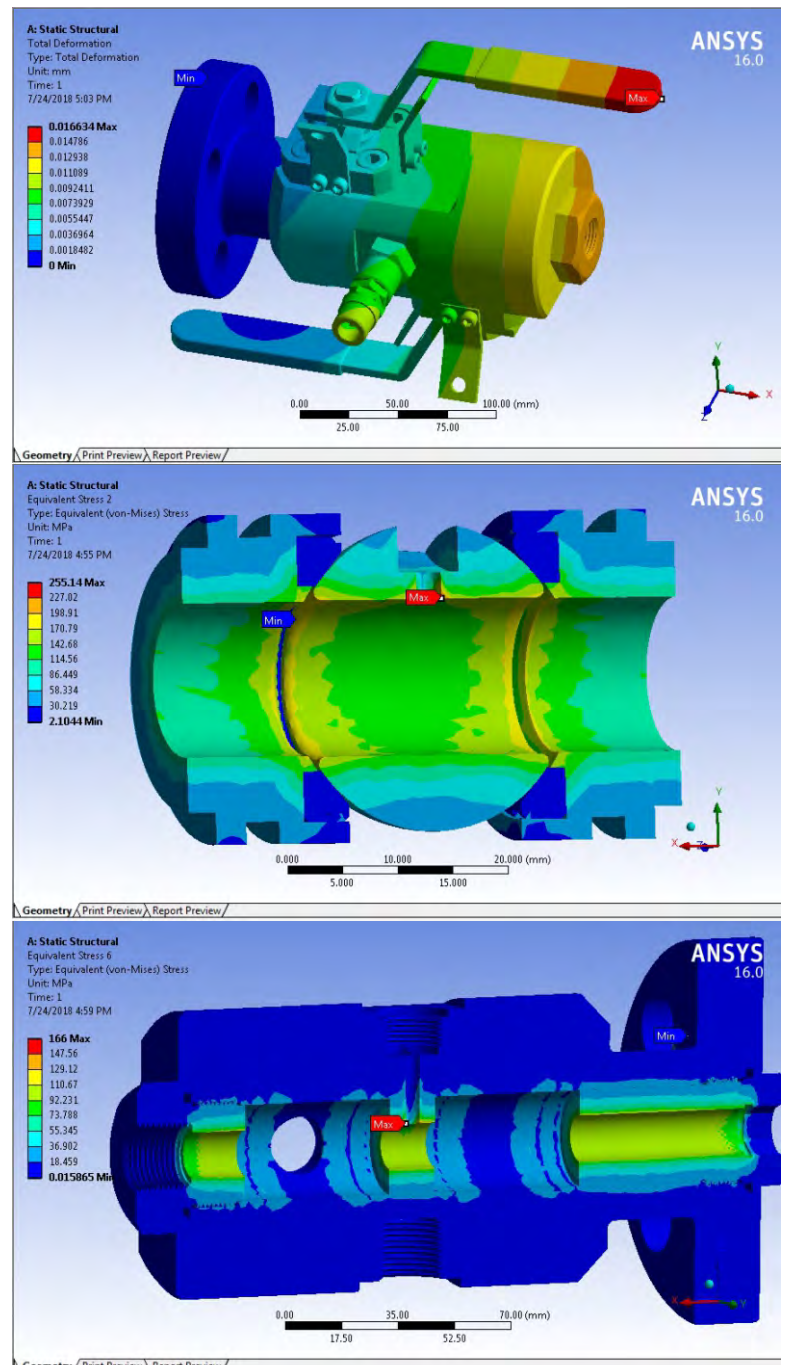
Product Designing

HAVI has got proven Track Record of the DBB Valves in India as well as in the International Market on Projects of ADNOC, Petronas, etc.. The Valves are designed on FEA Softwares to ensure Product Reliability. HAVI has got its Independent R&D Facility to Continually improve the performance, safety and Reliability of the Products.

FEA in Closed Position for Class 1500 DBB



FEA in Open Position for Class 1500 DBB



Single Piece Integral Valves

Features

- ❑ Made from Single Piece Forging
- ❑ Permanent Marked Body with full details
- ❑ Metal Seated Valve available
- ❑ Valve Inspection & Test to API 598
- ❑ Fire safe Design to API 607 / BS 6755
- ❑ OS&Y Bonnet Assembly available
- ❑ NACE Compliance Material available
- ❑ 1/2" to 3" NB (15 to 50DN)
- ❑ ANSI B16.5 150# - 2500# and API 10,000
- ❑ 10M/15M/20M/25M & Full Bore Design
- ❑ Standard Outlet is 1/2" NPT Female
- ❑ Standard Drain Port 1/2" NPT Female
- ❑ MOC of ASTM A182 F316/316L, Carbon Steel ASTM A350 LF2/A105, Duplex Steel to ASTM A 182 F51
- ❑ Raised Face, Ring Type Flanges
- ❑ Pressure Boundary calculations as per ASME VIII Div. I

Additional Features

- ❑ TAT as per MESC SPE 77/300
- ❑ FET as per MESC SPE 77/312 Class A & B
- ❑ MESC SPE 77/100 & 110 for Ball Valves
- ❑ MESC SPE 77/200 for Cryogenic Services
- ❑ MESC SPE 77/302, 303, 307



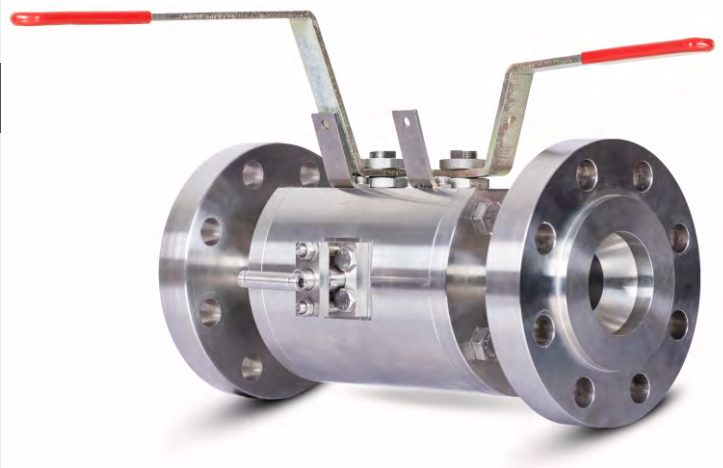
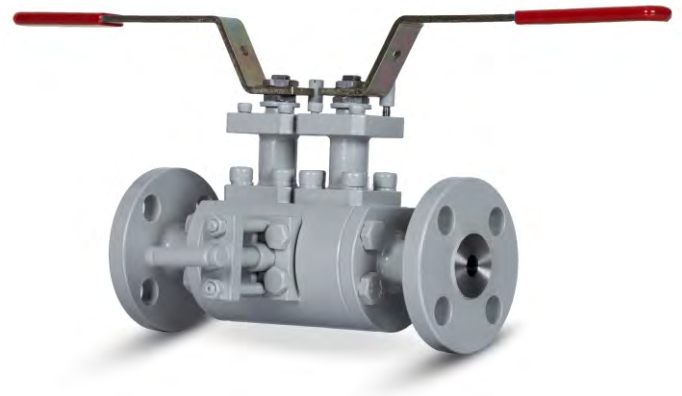
Bolted Body Full Bore Integral Valves

Features

- 3 Piece and 2 Piece Design
- Permanent Marked Body with full details
- Metal Seated Valve available
- Valve Inspection & Test to API 598
- Fire safe Design to API 607 / BS 6755
- OS&Y Bonnet Assembly available
- NACE Compliance Material available
- 1/2" to 2" NB (15 to 50DN)
- ANSI B16.5 150# - 2500# and API 10,000
- 10M/15M/20M/25M & Full Bore Design
- Standard Outlet is 1/2" NPT Female
- Standard Drain Port 1/2" NPT Female
- MOC of ASTM A182 F316/316L, Carbon Steel ASTM A350 LF2/A105, Duplex Steel to ASTM A 182 F51
- Raised Face, Ring Type Flanges
- Pressure Boundary calculations as per ASME VIII Div. I

Additional Features

- TAT as per MESC SPE 77/300
- FET as per MESC SPE 77/312 Class A & B
- MESC SPE 77/100 & 110 for Ball Valves
- MESC SPE 77/200 for Cryogenic Services
- MESC SPE 77/302, 303, 307



Instrument DBB

Features

- Thread to Thread Connection
- Permanent Marked Body with full details
- Locking facility available
- Valve Inspection & Test to API 598
- Fire safe Design to API 607 / BS 6755
- OS&Y Bonnet Assembly available
- NACE Compliance Material available
- MWP of 6000 psi & 10000 psi
- Reduced Bore Design
- Standard Outlet is 1/2" NPT Female
- Standard Drain Port 1/2" NPT Female
- MOC of ASTM A182 F316/316L, Carbon Steel ASTM A350 LF2/A105, Duplex Steel to ASTM A 182 F51
- Pressure Boundary calculations as per
- ASME VIII Div. I

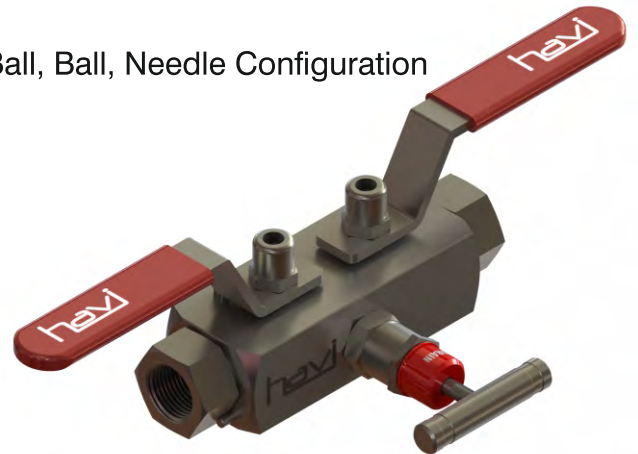
Additional Features

- TAT as per MESC SPE 77/300
- FET as per MESC SPE 77/312 Class A & B
- MESC SPE 77/100 & 110 for Ball Valves
- MESC SPE 77/200 for Cryogenic Services
- MESC SPE 77/302, 303, 307

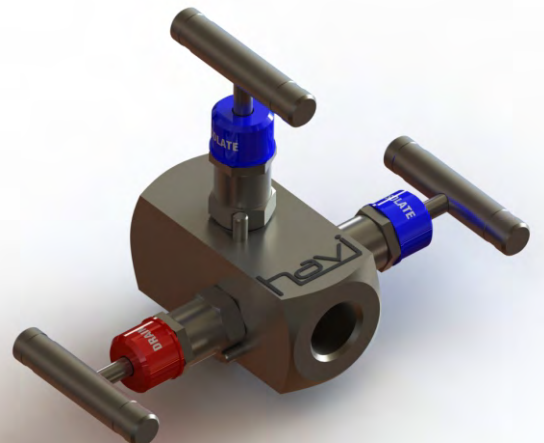
Ball, Ball, Ball Configuration



Ball, Ball, Needle Configuration



Needle, Needle, Needle Configuration



Ordering Information

Construction	IN	DBB	TBH	FB	14B	16	N	10K	4ND	16	N	BNB	S6L	I625	N
Model															
Handle Position															
Bore type															
Bore Size															
Process Connection Size															
Process Connection Type															
Process Pressure Rating															
Drain Size															
Instrument Connection Size															
Instrument Connection Type															
Valve Configuration															
Material of Construction															
Trim Material of Construction															
Special Requirements															

<p>OH-Opposite Handle position TBH-Top & Bottom handle position</p> <p>SBB-Single Block & Bleed DB-Double Block DBB-Double Block & Bleed SB-Single Block</p> <p>IN-Instrument</p>	<p>50B-50mm Bore 38B-38mm Bore 25B-25mm Bore 19B-19mm Bore 14B-14mm Bore 12B-12mm Bore 10B-10mm Bore</p> <p>FB-Full Bore RB-Reduced Bore</p>	<p>48 - 3" 32 - 2" 24 - 1-1/2" 20 - 1-1/4" 16 - 1" 12 - 3/4" 8 - 1/2"</p> <p>ITM - BSPT Male ITF - BSPT Female M - NPT Male N - NPT Female</p>	<p>10K - 10000 PSIG 6K - 6000 PSIG 2K - 2000 PSIG</p>	<p>ITM - BSPT Male ITF - BSPT Female M - NPT Male N - NPT Female</p>	<p>8ND - 1/2" NPTF Drain 4ND - 1/4" NPTF Drain</p>	<p>48 - 3" 32 - 2" 24 - 1-1/2" 20 - 1-1/4" 16 - 1" 12 - 3/4" 8 - 1/2"</p> <p>NNN - Needle, Needle, Needle BAB - Ball, Anti Tamper, Ball BOB - Ball, OS&Y, Ball BBB - Ball, Ball, Ball BNB - Ball, Needle, Ball</p>	<p>A350 - CS to ASTM A 350 LF2 A400 - Monel A400 CS - Carbon Steel S6L - SS316L F51 - Duplex Steel F51 I625 - Inconel 625 C276 - Hastelloy C276</p>	<p>S6L - SS316L F51 - Duplex Steel F51 I625 - Inconel 625 C276 - Hastelloy C276</p>	<p>ES - Extended Stem LH - Lockable Handle TP - Tamper Proof Handle FE - Fugitive Emission Sealing N - NACE MR 0175</p>
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Slim Line Monoflange Valve

Features

- ❑ Made from Single Piece Forging
- ❑ Permanent Marked Body with full details
- ❑ Valve Inspection & Test to API 598
- ❑ Fire safe Design to API 607 / BS 6755
- ❑ OS&Y Bonnet Assembly available
- ❑ NACE Compliance Material available
- ❑ 1/2" to 3" NB (15 to 50DN)
- ❑ ANSI B16.5 150# - 2500# and API 10,000
- ❑ Standard Outlet is 1/2" NPT Female
- ❑ Standard Drain Port 1/2" NPT Female
- ❑ MOC of ASTM A182 F316/316L, Carbon Steel ASTM A350 LF2/A105, Duplex Steel to ASTM A 182 F51
- ❑ Raised Face, Ring Type Flanges
- ❑ Pressure Boundary calculations as per ASME VIII Div. I

Additional Features

- ❑ TAT as per MESC SPE 77/300
- ❑ FET as per MESC SPE 77/312 Class A & B
- ❑ MESC SPE 77/100 & 110 for Ball Valves
- ❑ MESC SPE 77/200 for Cryogenic Services
- ❑ MESC SPE 77/302, 303, 307



Ordering Information

Construction	MF	DBB	FNN	16	RF	300	4ND	16	RF	300	NNN	S6L	I625	N
Model														
Valve Type														
Process Connection Size														
Process Connection Type														
Process Flange Class														
Drain Size														
Instrument Connection Size														
Instrument Connection Type														
Instrument Flange Class														
Valve Configuration														
Material of Construction														
Trim Material of Construction														
Special Requirements														

<p>2500 - Class 2500 1500 - Class 1500 900 - Class 900 600 - Class 600 300 - Class 300 150 - Class 150</p> <p>RTJ - Ring type Joint RS - Raised Face - Serrated RF - Raised Face - Smooth</p> <p>48 - 3" 32 - 2" 24 - 1-1/2" 20 - 1-1/4" 16 - 1" 12 - 3/4" 8 - 1/2"</p> <p>8ND - 1/2" NPTF Drain 4ND - 1/4" NPTF Drain</p> <p>2500 - Class 2500 1500 - Class 1500 900 - Class 900 600 - Class 600 300 - Class 300 150 - Class 150</p> <p>RTJ - Ring type Joint RS - Raised Face - Serrated RF - Raised Face - Smooth</p> <p>48 - 3" 32 - 2" 24 - 1-1/2" 20 - 1-1/4" 16 - 1" 12 - 3/4" 8 - 1/2"</p> <p>FN-Flange x NPT FF-Flange x Flange FNF- Flange Inlet x NPT Drain x Flange Outlet FNN-Flange Inlet x NPT Drain x NPT Outlet</p> <p>SBB-Single Block & Bleed DB-Double Block DBB-Double Block & Bleed SB-Single Block</p> <p>MF-Monoflange Valve</p>	<p>2500 - Class 2500 1500 - Class 1500 900 - Class 900 600 - Class 600 300 - Class 300 150 - Class 150</p> <p>N - NPT Female RTJ - Ring type Joint RS - Raised Face - Serrated RF - Raised Face - Smooth</p> <p>48 - 3" 32 - 2" 24 - 1-1/2" 20 - 1-1/4" 16 - 1" 12 - 3/4" 8 - 1/2"</p> <p>NNN - Needle, Needle, Needle</p> <p>A350 - CS to ASTM A 350 LF2 A400 - Monel A400 CS - Carbon Steel S6L - SS316L F51 - Duplex Steel F51 I625 - Inconel 625 C276 - Hastelloy C276</p> <p>S6L - SS316L F51 - Duplex Steel F51 I625 - Inconel 625 C276 - Hastelloy C276</p> <p>ES - Extended Stem LH - Lockable Handle TP - Tamper Proof Handle FE - Fugitive Emission Sealing N - NACE MR 0175</p>
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