



LVF Gate valve Type: 1780 Steel Flange Class 150

Forged steel gate valve, OS&Y, with bolted bonnet and flanged ends, Class 150

Characteristics

Type: 1780

Norm: ASME

Housing material: Steel

Surface protection: Phosphated

Connection: Flange

Flange finish: Raised face

Full bore: No

Stem seal type: Gland seal

Primary spindle seal material: Graphite

Material bonnet: ASTM A105N

Bonnet gasket material: Stainless steel 316 SW
Graphite filled

Actuator material: Steel

Minimum medium temperature (continuous): -29 °C

Maximum medium temperature (continuous): 426 °C

Maximum pressure difference at 20 °C: 20 bar

Approvals: API 624

Technical Information

- Design: API602, ASME B16.34.
- Testing: API598.
- Emission standard: API 624.
- NACE MR01-75, MR01-03.

Options

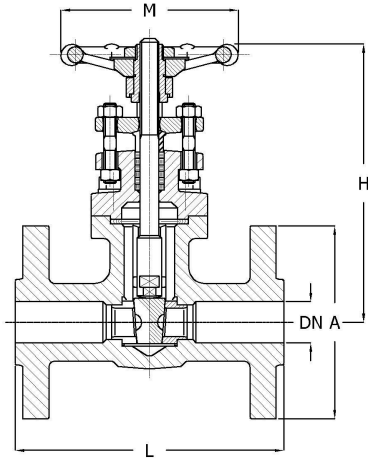
- Available in Class 300; type 1781.
- Available in Class 600; type 1782.
- Available in Class 1500 and 2500.
- Available in other materials.
- Available with butt weld ends or RTJ flanges.
- Available for cryogenic or high temperature applications.
- Equipped with an electric, pneumatic or hydraulic actuator.

Application

- Refineries and (petro-) chemical procesinstallations.
- Oil & gas industry.
- Steam and oil [for thermal oil: bellows sealed valve].
- Neutral liquids and gases.
- Recommended in: Chemical, Petrochemical and Refining

Size table:

DN	A	H	L	M	Weight
	mm	mm	mm	mm	kg
1/2" [15]	89	173	108	80	3.1
3/4" [20]	98.4	180	118	80	4
1" [25]	108	205	127	80	5.7
1.1/2" [40]	127	260	165	120	10.6
2" [50]	152.4	296	178	140	15.4



Pressure and temperature table

-29/38	50	100	150	200	250	300	350	400	425	450	500	538	[°C]
19.6	19.2	17.7	15.8	13.8	12.1	10.2	8.4	6.5	5.5	4.6	2.8	1.4	[bar]

ASTM A105N is not recommended for long-term use above 425 °C.

Check the above values and any additional comments with ASME B16.34 (last version).

Material quality	Nominal inner diameter	Pressure rating	Face to Face norm	Face to Face length	Operation	Type of bonnet	Sealing	Wedge material	Spindle material	Article
mm										
ASTM A105N	1/2" [15]	Class 150	ASME B16.10, T1, Serie 7	108	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614901
ASTM A105N	3/4" [20]	Class 150	ASME B16.10, T1, Serie 7	118	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614902
ASTM A105N	1" [25]	Class 150	ASME B16.10, T1, Serie 7	127	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614903
ASTM A105N	1.1/2" [40]	Class 150	ASME B16.10, T1, Serie 7	165	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614904
ASTM A105N	2" [50]	Class 150	ASME B16.10, T1, Serie 7	178	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	14281736

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