



LVF Gate valve Type: 1782 Steel Flange Class 600

Forged steel gate valve, OS&Y, with bolted bonnet and flanged ends, Class 600

Characteristics

Type: 1782
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: 100 bar
Approvals: API 624

Application

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

Technical Information

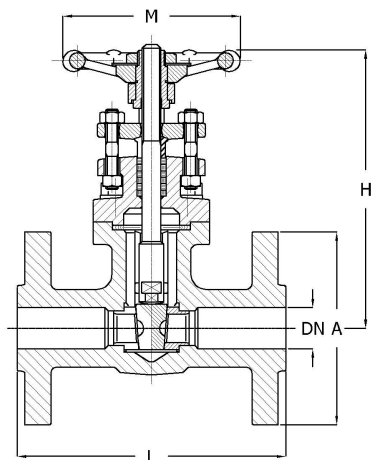
- Design: API602, ASME B16.34.
- Testing: API598.
- Emission standard: API 624.
- NACE MR01-75, MR01-03.

Options

- Available in Class 150; type 1780.
- Available in Class 300; type 1781.
- 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.

Size table:

DN	A	H	L	M	Weight
	mm	mm	mm	mm	kg
1/2" [15]	95	180	165	80	4.5
3/4" [20]	118	205	191	80	5.8
1" [25]	124	232	216	100	7.5
1.1/2" [40]	156	278	241	120	16
2" [50]	165	327	292	140	23



Pressure and temperature table

-29/38	50	100	150	200	250	300	350	400	425	450	500	538	[°C]
102.1	100.2	93.2	90.2	87.6	83.9	79.6	75.1	69.4	57.5	46	23.5	11.8	[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 600	ASME B16.10, T3, Serie 2	165	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614907
ASTM A105N	3/4" [20]	Class 600	ASME B16.10, T3, Serie 2	191	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614908
ASTM A105N	1" [25]	Class 600	ASME B16.10, T3, Serie 2	216	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614909
ASTM A105N	1.1/2" [40]	Class 600	ASME B16.10, T3, Serie 2	241	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	13614911
ASTM A105N	2" [50]	Class 600	ASME B16.10, T3, Serie 2	292	Hand wheel, non-rising with rising stem	Bolted bonnet	Trim 8	ASTM A479 410	ASTM A479 410	14281738

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