

YVI (YDF) Gate valve Type: 1850 Steel Flange Class 150

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



Characteristics

Type: 1850
Norm: ASME
Housing material: Steel
Surface protection: Standard manufacturers coating
Connection: Flange
Flange finish: Raised face
Full bore: Yes
Stem seal type: Gland seal
With position indicator: No
Wedge material: ASTM A216 WCB
Spindle material: ASTM A182 F6A
Primary spindle seal material: Graphite
Material bonnet: ASTM A216 WCB
Bonnet gasket material: Stainless steel 304 SW
 Graphite filled
Actuator material: Ductile cast iron
Minimum medium temperature (continuous): -20 °C
Maximum medium temperature (continuous): 426 °C
Maximum pressure difference at 20 °C: 20 bar
Approvals: ISO 15848

Application

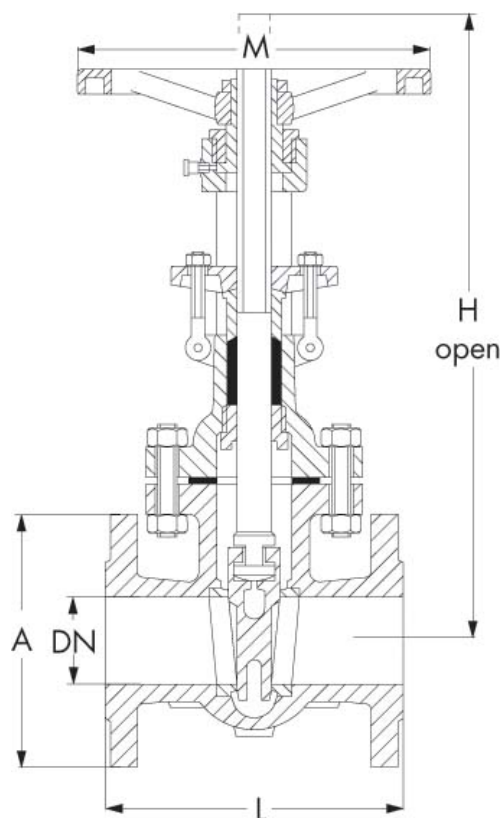
- Refineries and [petro-] chemical procesinstallations.
- Oil & gas industry.
- Tankstorage.
- Steam and oil (for thermal oil: bellows sealed valve).
- Neutral liquids and gases.
- Recommended in: Chemical, Petrochemical and Refining

Technical Information

- Design: BS 1873, ASME B16.34.
- Testing: API598.
- Emission standard: TA Luft, ISO 15848 class B.

Options

- Available in Class 300; type 1870.
- Available in higher pressure classes, also in pressure seal design.
- 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 mm	H mm	L mm	M mm	Weight kg
2" [50]	152	377	178	200	19
3" [80]	203	452	203	250	33
4" [100]	229	555	229	250	50
6" [150]	279	83	267	480	86
6" [150]	279	748	267	300	84
8" [200]	343	1100	292	530	131
8" [200]	343	975	292	350	129
10" [250]	406	1291	330	620	195
10" [250]	406	1166	330	400	193
12" [300]	483	1521	356	630	276
12" [300]	483	1396	356	450	274
14" [350]	533	1598	381	460	410
16" [400]	597	1793	406	460	507
18" [450]	615	1586	432	850	613
20" [500]	698	2203	457	425	808
24" [600]	813	2558	508	540	1305

Pressure and temperature range

-20/38	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	2.4	1.4	[bar]

ASTM A216 WCB is not recommended for extended use above 425 °C.

Check the above values and any additional notes with ASME B16.34 [latest edition].

Material quality	Nominal inner diameter	Pressure rating	Face to Face norm	Face to Face length mm	Operation	Top flange standard	Mounting flange	Type of bonnet	Sealing	Article
ASTM A216 WCB	2" [50]	Class 150	ASME B16.10, T1, Serie 7	178	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12406888
ASTM A216 WCB	3" [80]	Class 150	ASME B16.10, T1, Serie 7	203	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12307633
ASTM A216 WCB	4" [100]	Class 150	ASME B16.10, T1, Serie 7	229	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12307634
ASTM A216 WCB	6" [150]	Class 150	ASME B16.10, T1, Serie 7	267	Gearbox			Bolted bonnet	Trim 8	13667560
ASTM A216 WCB	6" [150]	Class 150	ASME B16.10, T1, Serie 7	267	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12307635
ASTM A216 WCB	8" [200]	Class 150	ASME B16.10, T1, Serie 7	292	Gearbox			Bolted bonnet	Trim 8	13667561
ASTM A216 WCB	8" [200]	Class 150	ASME B16.10, T1, Serie 7	292	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12394560

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Material quality	Nominal inner diameter	Pressure rating	Face to Face norm	Face to Face length	Operation	Top flange standard	Mounting flange	Type of bonnet	Sealing	Article
				mm						
ASTM A216 WCB	10" [250]	Class 150	ASME B16.10, T1, Serie 7	330	Gearbox			Bolted bonnet	Trim 8	13667562
ASTM A216 WCB	10" [250]	Class 150	ASME B16.10, T1, Serie 7	330	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12334388
ASTM A216 WCB	12" [300]	Class 150	ASME B16.10, T1, Serie 7	356	Gearbox			Bolted bonnet	Trim 8	13667563
ASTM A216 WCB	12" [300]	Class 150	ASME B16.10, T1, Serie 7	356	Hand wheel, non-rising with rising stem			Bolted bonnet	Trim 8	12138873
ASTM A216 WCB	14" [350]	Class 150	ASME B16.10, T1, Serie 7	381	Gearbox	ISO 5211	F16	Bolted bonnet	Trim 8	13379009
ASTM A216 WCB	16" [400]	Class 150	ASME B16.10, T1, Serie 7	406	Gearbox	ISO 5211	F16	Bolted bonnet	Trim 8	12605672
ASTM A216 WCB	18" [450]	Class 150	ASME B16.10, T1, Serie 7	406	Gearbox			Bolted bonnet	Trim 8	13667565
ASTM A216 WCB	20" [500]	Class 150	ASME B16.10, T1, Serie 7	456	Gearbox	ISO 5211	F25	Bolted bonnet	Trim 8	12605683
ASTM A216 WCB	24" [600]	Class 150	ASME B16.10, T1, Serie 7	508	Gearbox	ISO 5211	F25	Bolted bonnet	Trim 8	12605684

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