



Vogt Valves

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*The Connection Bulletin for
Forged Steel "Y" Pattern
Class 1690, Class 2680*

CB 08

In-Line Repairable "Y" Pattern Forged Steel: Class 1690 and Class 2680



In-Line Repairable Globe Valves

New...An In-line Repairable Valve with the advantages of a positive locked bonnet arrangement under service conditions.

- **Positive Locking Devices**

To insure against accidental loosening of bonnet and/or yoke while valves are in service.

- **Repair In-Line**

For In-Line repair, this valve can be restored to first class service by refinishing of the seat/disc, and can be disassembled before post weld heat treatment.

- **"Y" Pattern Design**

The body/bonnet threaded connection is designed to support the full stress induced by the operating pressure. The encapsulated graphite gasket and flexible graphite packing help maintain leak-free performance.

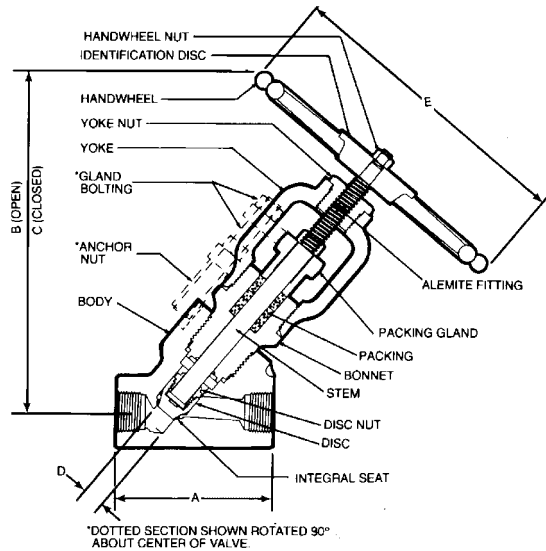
REPAIR KIT AVAILABLE (PURCHASE OR RENTAL)

One kit supports complete line of Class



1690 and Class 2680 valves.

In-Line Repairable "Y" Pattern Forged Steel: Class 1690 and Class 2680



Valve Features

- In-line Repairable
- Screw Bonnet
- Outside Screw & Yoke
- Bolted Gland
- Loose Solid Stellite Disc
- Integral Hard Faced Seat
- ASME B16.34 Limited Pressure Class

Order by Size and Series Number.

Dimensions are in inches.

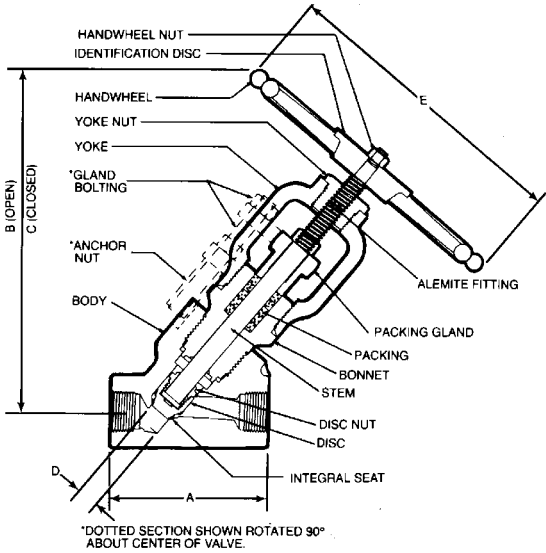
SERIES NUMBER		MATERIAL		Valve Size	Weight (Lbs.)	A End to End	B Center to Top (open)	C Seat Diam.	Cv Factor Sch. 160	Cv Factor Sch. xxH
Threaded	Socket Weld	Body/Bonnet	Trim							
Class 1690 GLOBE Full Port (Except 2" Size)				☼ 4225 PSI @ 100°F						
R1510	SWR1510	A105	13% CR★	1/2	19.6	5.12	11.60	.75	4.3	1.5
				3/4	19.5	5.12	11.60	.75	6.4	3.9
R1511	SWR1511	A182 F11 CL2 (1-1/4% Cr.)	13% CR★	1	19.5	5.12	11.60	.75	9.3	7.9
				1 1/2†	43.0	7.50	17.06	1.53	28.9	29.3
R1522	SWR1522	A182 F22 CL3 (2-1/4% Cr.)	13% CR★	2†	41.8	7.50	17.06	1.53	36.5	39.6

★Integral seat is hard faced and disc is solid stellite.

☼Ratings are in accordance with ASME B 16.34, limited pressure class.

†1 1/2" & 2" sizes have impactor handwheels.

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SERIES NUMBER		MATERIAL		Valve Size	Weight (lbs.)	A End to End	B Center to Top (open)	C Seat Diam.	Cv Factor Sch. 160	Cv Factor Sch. xxH
Threaded	Socket Weld	Body/Bonnet	Trim							
Class 2680† GLOBE Full Port (Except 2" Size)						⊛ 6700 PSI @ 100°F				
R2510	SWR2510	A105	13% CR★	1/2	19.6	5.12	11.60	.75	4.3	1.5
				3/4	19.5	5.12	11.60	.75	6.4	3.9
R2511	SWR2511	A182 F11 CL2 (1 1/4% Cr.)	13% CR★	1	19.5	5.12	11.60	.75	9.3	7.9
				1 1/2†	62.6	8.25	17.88	1.53	28.9	29.3
R2522	SWR2522	A182 F22 CL3 (2 1/4% Cr.)	13% CR★	2+	62.5	8.25	17.88	1.53	36.5	39.8

★Integral seat is hard faced and disc is solid stellite.

⊛Ratings are in accordance with ASME B 16.34, limited pressure class.

†1 1/2" & 2" sizes have impactor handwheels.

‡Threaded valves limited to Class 2500 applications under ASME B16.34.

In-Line Repairable “Y” Pattern Forged Steel: Class 1690 and Class 2680

Pressure-temperature ratings — Threaded and Socket Weld End Valves

Service Temp. (°F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Class 1500 (Limited)																		
A105 (1)(2)(5)	3750	3750	3750	3750	3750	3565	3495	3470	3150	2570	1670	1070	660	340	—	—	—	—
A182-F11-CL.2 (1)(3)(4)	3750	3750	3750	3750	3750	3750	3750	3655	3695	3600	3385	2935	2040	1445	960	640	410	250
A182-F22-CL.3 (1)(3)	3750	3750	3705	3670	3600	3600	3580	3555	3450	3365	3215	3000	2405	1740	1170	730	460	275
Class 2500 (Limited)																		
A105 (1)(2)(5)	6250	6250	6250	6250	6250	5940	5825	5780	5250	4285	2785	1785	1110	600	—	—	—	—
A182-F11 (1)(3)(4)	6250	6250	6250	6250	6250	6250	6250	6110	6070	6000	5645	4895	3445	2520	1680	1120	720	480
A182-F22 (1)(3)	6250	6250	6180	6035	6000	6000	5965	5930	5750	5605	5335	5000	4075	3040	2040	1280	800	480
Class 1690 (Limited)																		
A105 (1)(2)(5)	4225	4225	4225	4225	4225	4015	3940	3910	3550	2895	1880	1205	745	390	—	—	—	—
A182-F11-CL.2 (1)(3)(4)	4225	4225	4225	4225	4225	4225	4225	4130	4110	4055	3815	3310	2305	1640	1095	730	470	285
A182-F22-CL.3 (1)(3)	4225	4225	4175	4080	4055	4055	4035	4005	3885	3790	3620	3380	2720	1480	1330	830	525	310
Class 2680 (Limited)																		
A105 (1)(2)(5)	6700	6700	6700	6700	6700	6370	6245	6195	5630	4595	2985	1915	1195	650	—	—	—	—
A182-F11-CL.2 (1)(3)(4)	6700	6700	6700	6700	6700	6700	6700	6550	6505	6430	6050	5245	3700	2725	1520	1210	789	480
A182-F22-CL.3 (1)(3)	6700	6700	6625	6470	6430	6430	6395	6355	6165	6010	5740	5360	4380	3290	2205	1385	865	520

- (1) Ratings are in accordance with ASME B16.34-96 for Limited Class.
- (2) Permissible but not recommended for prolonged use above 800°F.
- (3) Permissible but not recommended for prolonged use above 1100°F.
- (4) Use Normalized and Tempered material only.
- (5) Only killed steel shall be used above 850°F.



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