



Vogt Valves

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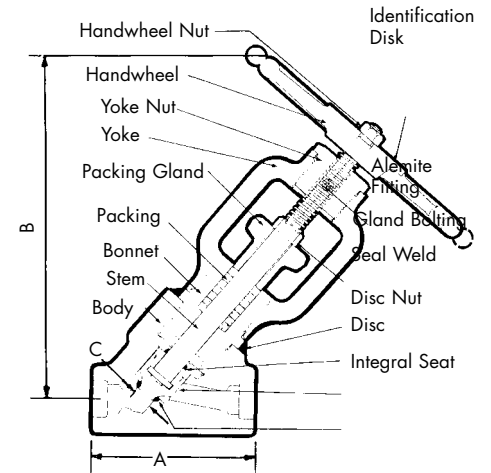
*The Connection Bulletin for
“Y” Pattern Globe & Check Valves
Class 1690 & Class 2680*

CB 18

"Y" Pattern Globe & Check Valves

RELIABLE... VOGT'S SEAL WELDED BONNET VALVE DESIGN OFFERS THESE ADVANTAGES:

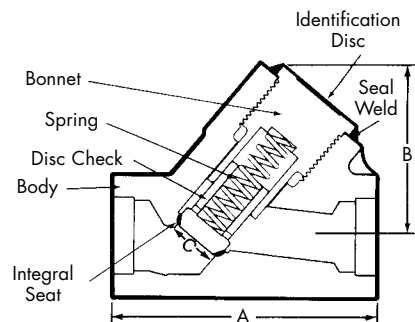
1. The body/bonnet threaded connection is designed to support the full longitudinal stress induced by the operating pressure. A failure of the joint would not occur merely as the result of a seal weld failure.
2. The body/bonnet threads are a quality fit to insure that the valve operating torques are "frictionally resisted" by the connection; therefore, operating stresses are not imposed on the seal welds.
3. The Vogt seal weld design is subject only to circumferential stress which is induced by the operating pressure.
4. Many other bonnet weld designs are subject to combined stresses... Vogt's design uniquely minimizes the stresses on the seal weld.



GLOBE VALVE



**CLASS 1690
CLASS 2680**



CHECK VALVE

**CLASS 1690 & CLASS 2680
"Y PATTERN" GLOBE VALVES
ALSO AVAILABLE
WITH AN IN-LINE
REPAIRABLE DESIGN**



"Y" Pattern Globe & Check Valves

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 ⁽¹⁾	Socket Weld	Body/Bonnet	Trim							
Class 1690 GLOBE *4225 PSI @ 100°F										
1510	SW1510	A105	13%Cr. ★	1/2	9.1	4.00	9.06	.50	6.0	
1511	SW1511	F11 (1 1/4% Cr.)	13%Cr. ★	3/4	9.0	4.00	9.06	.50	4.6	
				1	18.1	5.12	11.00	.75	9.3	
1522	SW1522	F22 (2 1/4% Cr.)	13%Cr. ★	1 1/2[†]	42.0	7.50	16.38	1.53	46.0	
				2[†]	40.8	7.50	16.38	1.53	36.5	
Class 1690 CHECK *4225 PSI @ 100°F										
1610	SW1610	A105	13%Cr. ★	1/2	4.0	4.00	2.75	.50		
				3/4	19.0	4.00	2.75	.50		
				1	19.0	5.12	3.72	.75		
1622	SW1622	F22 (2 1/4% Cr.)	13%Cr. ★ (302 Spring)	1 1/2	65.1	7.50	5.03	1.53		
				2	62.0	7.50	5.03	1.53		
Class 2680 GLOBE *6700 PSI @ 100°F										
2510	SW2510	A105	13%Cr. ★	1/2	9.1	4.00	9.06	.50		1.8
2511	SW2511	F11 (1 1/4% Cr.)	13%Cr. ★	3/4	19.0	5.12	11.00	.75		4.3
				1	19.0	5.12	11.00	.75		7.9
2522	SW2522	F22 (2 1/4% Cr.)	13%Cr. ★	1 1/2[†]	65.1	8.25	16.94	1.53		29.3
				2[†]	62.0	8.25	16.94	1.53		39.8
Class 2680 CHECK *6700 PSI @ 100°F										
2610	SW2610	A105	13%Cr. ★ (302 Spring)	1/2	4.1	4.00	2.75	.50		
				3/4	9.1	5.12	3.75	.75		
2611	SW2611	F11 (1 1/4% Cr.)	13%Cr. ★ (302 Spring)	1	9.1	5.12	3.75	.75		
				1 1/2	36.0	8.25	5.38	1.53		
2622	SW2622	F22 (1 1/4% Cr.)	13%Cr. ★ (302 Spring)	2	33.2	8.25	5.38	1.53		

★ Integral seat and disc are hard faced. * Ratings are in accordance with ASME B16.34 Limited Class. † 1 1/2" & 2" sizes have impactor handwheels.
 (1) Class 2680 threaded valves are limited to Class 2500 applications under ASME B16.34 scope.

"Y" Pattern Globe & Check Valves

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 (1) (3) & (4)	3750	3750	3750	3750	3750	3750	3750	3665	3645	3600	3385	2935	2040	1445	960	640	410	250
A182-F22 (1) (3)	3750	3750	3705	3620	3600	3600	3580	3555	3450	3365	3215	3000	2405	1740	1170	730	460	275
Class 1690 (Limited) A105 (1) (2) & (5)	4225	4225	4225	4225	4225	4015	3940	3910	3550	2895	1880	1205	745	390	—	—	—	—
A182-F11 (1) (3) & (4)	4225	4225	4225	4225	4225	4225	4225	4130	4105	4055	3815	3305	2300	1640	1095	730	470	285
A182-F22 (1) (3)	4225	4225	4175	4080	4055	4055	4035	4005	3885	3790	3620	3380	2720	1980	1330	830	525	315
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	440
A182-F22 (1) (3)	6250	6250	6180	6035	6000	6000	5965	5930	5750	5605	5355	5000	4075	3040	2040	1280	800	480
Class 2680 (Limited) A105 (1) (2) & (5)	6700	6700	6700	6700	6700	6370	6245	6195	5630	4595	2985	1915	1190	650	—	—	—	—
A182-F11 (1) (3) & (4)	6700	6700	6700	6700	6700	6700	6700	6550	6505	6430	6050	5245	3700	2725	1820	1210	780	480
A182-F22 (1) (3)	6700	6700	6625	6470	6430	6430	6395	6355	6165	6010	5740	5360	4385	3290	2205	1385	865	520

(1) Ratings are in accordance with ASME B16.34-96, 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.



Vogt Valves

1511 Jefferson Street
Sulphur Springs, TX 75482

US Sales Offices

Phone: 903-885-3151
Fax: 903-439-3386

Toll-Free Telephone Service

1-800-225-6989

Visit Our Website

www.flowserve.com

After Hours Customer Service

1-800-543-3927

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FLOWSERVE CORPORATION

FLOW CONTROL DIVISION

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1511 Jefferson Street
Sulphur Springs, TX 75482
Phone: 903-885-3151
Facsimile: 903-439-3386