



CONNECTION BULLETIN

Vogt Valves

Y-Pattern Class 800
Globe Valves

FCD VVENBR1016-01 – 01/11 (Replaces CB-16)



Experience In Motion

Y-Pattern Class 800 Globe Valves

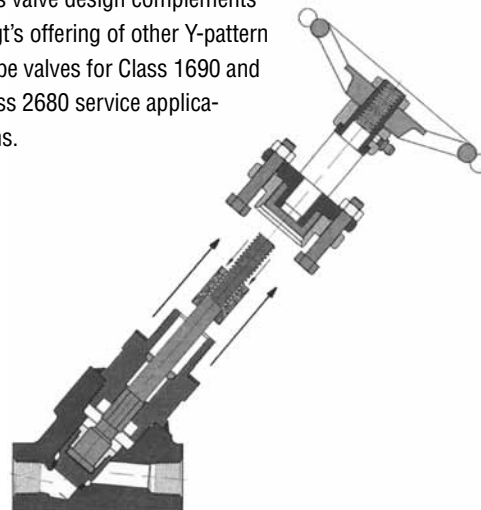
Y-Pattern Welded Bonnet, Forged Steel

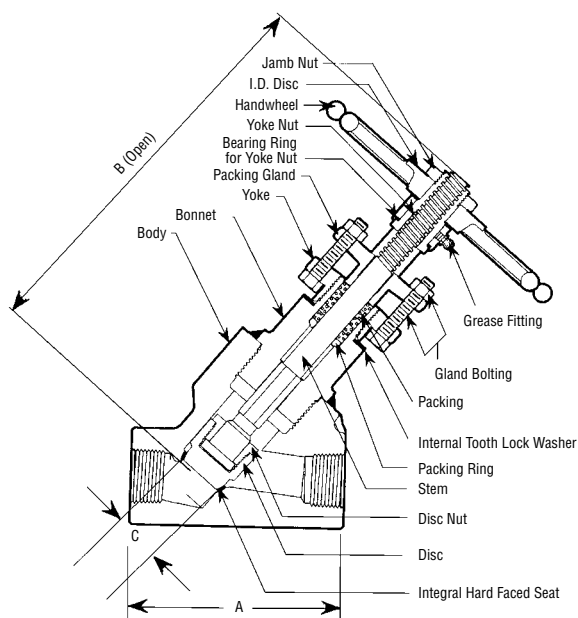
- Seal weld bonnet design
- O.S. & Y. gate valve operating mechanism
- Yoke-Bonnet Locking Device for easy disassembly for repacking
- Unique unitized cartridge of flexible graphite packing
- Integral hard faced seat and hard faced disc
- Higher C_v Factors than typical T-pattern globe valves
- Class 800 Limited Rating in accordance with ASME B16.34
- ASME B31.1 Boiler Blowoff service

The Class 800 Y-Pattern Globe Valve has a continuous cylinder of flexible graphite packing in cartridge form.

1. Uses a body/bonnet threaded connection 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 Flowserve Vogt Valves seal weld design is subject to circumferential stress, which is induced by the operating pressure.
3. Many other bonnet weld designs are subject to combined stresses. Vogt's design uniquely minimizes the stress on the seal weld.
4. A unique one-piece cylinder of flexible graphite packing consisting of top and bottom rings of braided graphite, including a center of ribbon-type flexible graphite all-in-one unitized cartridge.

5. An internal tooth lock washer locks the yoke in place against accidental loosening; yet allows intentional removal of yoke/gland superstructure, providing ease in the replacement of the unitized graphite packing cartridge. The packing does not have to be split.
6. Time-proven, superior gate valve stem and yoke nut design that eliminates the bent stem syndrome of conventional globe valve design.
7. Provides C_v factors greater than a conventional T-pattern globe valve.
8. Higher pressure/temperature ratings in accordance with B16.34 Limited Class (P/T Class 800).
9. This valve design complements Vogt's offering of other Y-pattern globe valves for Class 1690 and Class 2680 service applications.





Class 800 Globe Valves, 2000 psi @ 100°F

Series Number		Material	
Threaded	Socket Weld	Body/Bonnet	Trim
810	SW810	A105	13% Cr.
811	SW811	F11 (1¼% Cr.)	13% Cr.
822	SW822	F22 (2¼% Cr.)	13% Cr.

* Ratings are in accordance with ASME B16.34 for Limited Class.

Integral seats are hard faced.

Valve Size	Weight (lb.)	End-to-end	Center-to-top (open)	Seat Diameter	C _v Factor
		A	B	C	
½	8.0	4.00	9.12	.75	4.5
¾	8.0	4.00	9.12	.75	9.1
1	12.0	5.12	10.44	1.12	21.3
1½	33.0	7.50	14.27	2.00	70.0

Pressure/Temperature Ratings – Threaded and Socket Weld End Valves

	Service Temperature °F																	
	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
Class 800 (Limited) A105 ⁽¹⁾ (2) (5)	2000	2000	1975	1955	1955	1955	1905	1845	1695	1375	1060	765	465	295	—	—	—	—
A182-F11 ⁽¹⁾ (3) (4)	2000	2000	2000	2000	2000	2000	2000	1955	1945	1920	1805	1565	1075	745	495	330	225	145
A182-F22 ⁽¹⁾ (3)	2000	2000	1975	1940	1935	1925	1905	1885	1885	1885	1805	1600	1275	925	600	375	235	145

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



United States

Flowserve Corp.
Flow Control
Flowserve Vogt Valves
1511 Jefferson Street
Sulphur Springs, TX 75482 USA
Telephone: 903-885-3151
Fax: 903-439-3386

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To find your local Flowserve representative:

For more information about Flowserve Corporation, visit
www.flowserve.com or call USA 1 800 225 6989

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