



Vogt Valves

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*The Connection Bulletin for
“Y” Pattern Globe Valves
Class 800*

CB 16

"Y" Pattern Class 800 Globe Valves



"Y" PATTERN WELDED BONNET, FORGED STEEL

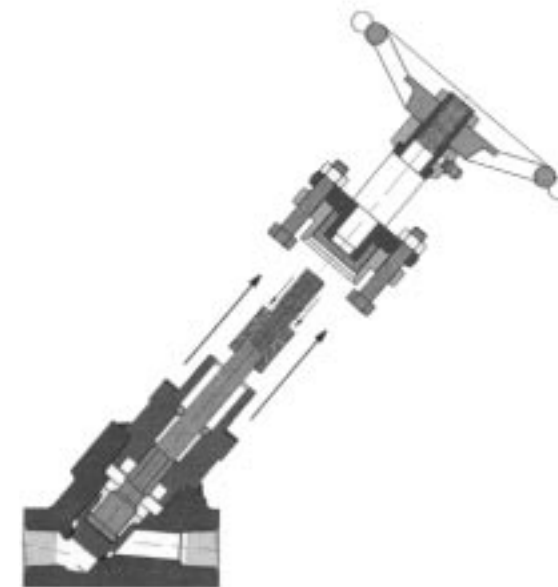
- Seal Weld Bonnet Design
- O.S. & Y. Gate Valve Operating Mechanism
- Yoke-Bonnet Locking Device for Easy Disassembly for Repacking
- Patented Unitized Cartridge of Flexible Graphite Packing
- Integral Hard Faced Seat and Hard Faced Disc
- Higher Cv Factors than Typical "T" Pattern Globe Valves
- Class 800 Limited Rating in Accordance with ASME B16.34

CLASS 800 Y PATTERN GLOBE VALVE

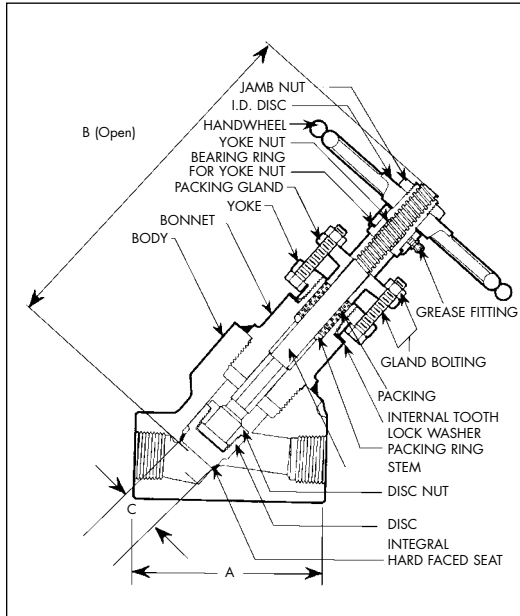
with continuous cylinder of flexible graphite packing in cartridge form.

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 VOGT 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 patented 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. Internal tooth lock washer locks 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**. 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 **Cv 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.



"Y" Pattern Class 800 Globe Valves



SERIES NUMBER		MATERIAL		Valve Size	Weight (Lbs.)	A End to End	B Center to Top (open)	C Seat Diam.	Cv Factor
Threaded	Socket Weld	Body/Bonnet	Trim						
Class 800 GLOBE *2000 PSI @ 100°F									
810	SW810	A105	13%Cr. ★	1/2	8.0	4.00	9.12	.75	4.5
				3/4	8.0	4.00	9.12	.75	9.1
811	SW811	F11 (1 1/4% Cr.)	13%Cr. ★	1	12.0	5.12	10.44	1.12	21.3
822	SW822	F22 (2 1/4% Cr.)	13%Cr. ★	1 1/2	33.0	7.50	14.27	2.00	70.0
				2	32.0	7.50	14.27	2.00	79.1

★ Integral seat and disc are hard faced

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

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 800 (Limited) A105 (1) (2) (5)	2000	2000	2000	2000	2000	1900	1865	1850	1680	1375	895	575	350	180	—	—	—	—
A182-F11 (1) (3) & (4)	2000	2000	2000	2000	2000	2000	2000	1955	1945	1920	1805	1565	1070	745	495	330	210	130
A182-F22 (1) (3)	2000	2000	1980	1935	1920	1920	1905	1900	1840	1795	1715	1600	1275	895	600	380	235	145

(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.



Vogt Valves

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