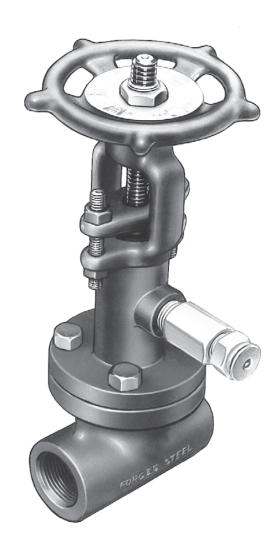


CONNECTION BULLETIN

Vogt Valves

Emission Reduction Gate Valve and Retrofit Bonnet Assembly

FCD VVABR1002-00 - 09/04 (Replaces CB-02)





Emission Reduction: Gate Valve and Retrofit Bonnet Assembly

Forged Gate Valves for Emission Reduction

Features include:

· Lower-cost alternative for emissions reduction

· Available in gate valve or retrofit bonnet assembly package

· Reduces fugitive emissions through packing chamber

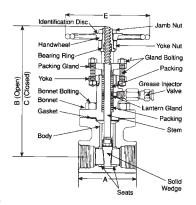
· Reduces tight stem/packing friction drag

 "ER" Bonnet retrofit of existing valves without removal from line

The Class 800 Gate Valve Series 12111ER and SW12111ER utilizes the proven efficiency of two sets of flexible graphite valve packing, separated by a lantern ring and equipped with a grease injector for the injection of a compatible sealant between the sets of packing. The resultant seal dramatically reduces fugitive emissions through the most vulnerable leak path of a valve. Maintenance of this seal is easily accomplished by replenishing the grease sealant in the packing chamber through the grease injector.

Flowserve Vogt Valves makes this Emissions Reduction offering available in the form of threaded and socket weld end gate valves and retrofit bonnet assembly. These bonnet assemblies can be used for field conversion of existing in-line Vogt Class 150, 300, 600 and 800 compact design bolted bonnet gate valves (Sizes ½"–2").





- · Round Bolted Bonnet
- · Spiral Wound Gasket
- · Outside Screw and Yoke
- · Bolted Gland
- · Double Packing
- · Lantern Ring
- · Sealant Injector
- Solid Wedge
- · Hard Faced Seats
- API 602
- ASME B16.34

Conventional Port

1975 psi @ 100°F*
Class 800 Sizes ½–2
Threaded Series 12111ER
Socket Weld Series SW 12111ER
A105 Body/Bonnet
13% Cr. Trim; Seats: HF

Valve Size	1/2	3/4	1	11⁄4	1½	2
Weight (lb.)	5.9	5.8	9.8	17.7	17.6	23.0
A End to End (in.)	3.38	3.38	4.00	4.75	4.75	5.25
B Open (in.)	8.16	8.16	10.28	12.12	12.12	13.38
C Closed (in.)	7.56	7.56	9.36	10.72	10.72	11.69
D Seat Dia. (in.)	.50	.50	.75	1.25	1.25	1.50
E Handwheel Dia. (in.)	4.00	4.00	4.75	5.75	5.75	7.00
C _v Factor	9.6	9.7	20.3	80.5	91.6	117.6

^{*}Service temperature will be limited by sealant manufacturer's recommendation.

Also available: Emissions Reduction Retrofit Bonnet Assembly Packages for Field Retrofitting of Vogt Series 353, 363, 373, 12111, SW 12111, 12161 and SW 12161 in ½"-2" Valve Sizes. The Retrofit Bonnet Assembly Packages can be easily installed on most existing in-line Vogt Compact Design Gate Valves in Classes 150, 300, 600 and 800 of A105 bolted bonnet design with 13% Cr. trim. Specify the desired Retrofit Bonnet Assembly Package for the valve size and series you intend to convert to Emissions Reduction design.

Jamb Nut	7
Handwheel	∞
Yoke Nut	Gland Bolting
Bearing Ring	Packing
Packing Gland	Grease Injector
Stem Yoke	Valve
Lantern Ring	
Bonnet	Packing
Gasket	

Valve Size	For Vogt Valve Series	Retrofit Bonnet Assembly Package	E (in.)	
1/2, 3/4	353, 363, 373, 12111, SW12111, 12161, SW12161	41000 04	4.00	
1	353, 363, 373, 12111, SW12111, 12161, SW12161	41000 06	4.75	
11/4, 11/2	353, 363, 373, 12111, SW12111, 12161, SW12161	41000 08	5.75	
2	353, 363, 373, 12111, SW12111, 12161, SW12161	41000 09	7.00	

Write for the Flowserve Vogt Valves installation procedure covering instructions for proper field retrofit to Emissions Reduction valve designs.



United States

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

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