FCD VVABR0003-00

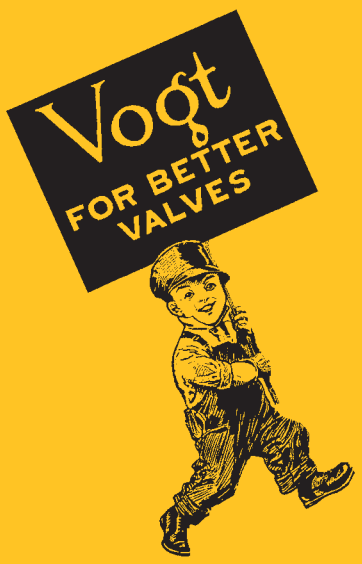
Vogt Valves
Product Overview




FLOWSERVE®

Vogt Valves

Flowserve Vogt Valves — A Name Everyone Recognizes



In the late 1890s, Henry Vogt Machine Company pioneered the development of ammonia absorption refrigeration systems that made artificial ice. This business, plus Vogt's fledgling boiler business, created an internal need for quality valves. This initiated Vogt's entry into valve manufacturing. Vogt's early reputation for quality valves and the rapidly growing petroleum processing industry created an outside demand that would firmly establish Vogt in the mass production of high quality forged steel valves.

For more than one hundred years, Vogt's leadership has been evident in the production of forged steel gate, globe and check valves in the most popular materials, trims and bonnet configurations.

Vogt's innovative designs, quality standards and engineering capabilities have made Flowserve Vogt Valves a world leader in gate, globe and check valve technology.

Today, the Flowserve operation in Sulphur Springs, Texas, is the largest manufacturer of forged steel valves in the USA. This facility is registered under the ISO 9001-2000 quality system program, and continues to make Flowserve Vogt Valves the "benchmark of quality" for forged steel valves. A comprehensive network of distributors makes Flowserve Vogt Valve products readily available worldwide.

Gate Valves

Bolted Bonnet

Sizes: ¼–4 (8–100 DN)
Service Pressures: ANSI Class 150–1500
Service Temperatures: -325°F to 1500°F
Body Material: A105, A182 F316 / F316L, A350 LF2, A182 F316H, A182 F5, A182 F9, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded, Flanged, Butt Weld, Socket Weld, Flanged Ring Joint, Threaded x Socket Weld
Special Construction: HF Alkylation Service, -325°F (-198°C) Cryogenic Service, Low-temperature Service (-50°F), NACE, Nuclear Service, Full-port

Welded Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: ANSI Class 800–2500
Service Temperatures: -325°F to 1100°F
Body Material: A105, A182 F316 / F316L, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded, Butt Weld, Socket Weld, and Threaded x Socket Weld
Special Construction: NACE

Union Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -325°F to 1000°F
Body Material: A105 and A182 F316 / F316L
End Connections: Threaded, Socket Weld, and Threaded x Socket Weld
Special Construction: NACE

Bellowseal – Welded Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -20°F to 800°F
Body Material: A105
End Connections: Threaded, Socket Weld, and Threaded x Socket Weld

Extended Body – Bolted Bonnet

Sizes: ½–1½ (15–40 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -325°F to 1000°F
Body Material: A105, A182 F316/F316L
End Connections: Integrally Reinforced Extended Length Male Couplet x Female Threaded, Integrally Reinforced Extended Length Butt Weld End x Female Threaded, Integrally Reinforced Extended Length Butt Weld End x Socket Weld, Integral Socket Weld x Female Threaded, Male Threaded x Female Threaded
Special Construction: NACE

Extended Body – Welded Bonnet

Sizes: ½–1½ (15–40 DN)
Service Pressures: ANSI Class 800 & 1500
Service Temperatures: -325°F to 1000°F
Body Material: A105 and A182 F316 / F316L
End Connections: Integral Male Couplet x Female Threaded, Integrally Reinforced Extended Length Male Couplet x Socket Weld, Integrally Reinforced Extended Length Butt Weld End x Female Threaded, Integral Male Threaded x Female Threaded, Integral Socket Weld x Female Threaded, Socket Weld, Threaded x Socket Weld, Integral Male Socket Weld x Female Socket
Special Construction: NACE

Globe Valves

Bolted Bonnet

Sizes: ¼–3 (8–80 DN)
Service Pressures: ANSI Class 150–1500
Service Temperatures: -325°F to 1500°F
Body Material: A105, A350 LF2, A182 F316 / F316L, A182 F316H, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded, Flanged, Socket Weld, and Threaded x Socket Weld
Special Construction: NACE, Water-free Chlorine Service, HF Alkylation Service, -325°F (-198°C) Cryogenic Service, Flow Control Service, Bellowseal, Full-port

Angle Valves

Sizes: ¼–2 (8–50 DN)
Service Pressures: ANSI Class 800, Type 3000 and 5000 Needle-point
Service Temperatures: -20°F to 800°F
Body Material: A105
End Connections: Threaded and Socket Weld
Special Construction: Meter and Gauge Line Service

Extended Body – Bolted Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -20°F to 800°F
Body Material: A105
End Connections: Integrally Reinforced Male Couplet x Female Threaded, Male Socket Weld x Female Threaded, Male Threaded x Female Threaded
Special Construction: NACE

Welded Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: ANSI Class 800–2500
Service Temperatures: -325°F to 1100°F
Body Material: A105, A182 F11 CL2, A182 F22 CL3, and A182 F316/F316L
End Connections: Threaded, and Socket Weld
Special Construction: NACE

Meter – Screw Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: Type 3000, 5000, and 6000
Service Temperatures: -20°F to 450°F
Body Material: A105 and A182 F316 / F316L
End Connections: Threaded and Socket Weld
Special Construction: Not recommended for steam or dry gas service.

Union Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -20°F to 800°F
Body Material: A105
End Connections: Threaded and Socket Weld
Special Construction: NACE

Meter and Gauge Line – Union Bonnet

Sizes: ¼–1 (8–25 DN)
Service Pressures: Type 4000
Service Temperatures: -20°F to 450°F
Body Material: A105
End Connections: Threaded and Socket Weld
Special Construction: Not recommended for steam or dry gas service.

Y-Pattern Globe Valves

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 800–2680
Service Temperatures: -20°F to 1100°F
Body Material: A105, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded and Socket Weld
Special Construction: NACE

Check Valves

Ball Check Valve – Bolted Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 150–800
Service Temperatures: -325°F to 1100°F
Body Material: A105, A182 F316 / F316L, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded and Socket Weld
Special Construction: HF Alkylation Service, Spring-loaded

Hydraulic Ball Check Valve – Screw Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: Type 3000
Service Temperatures: -20°F to 450°F
Body Material: A105
End Connections: Threaded and Socket Weld
Special Construction: Not recommended for steam or dry gas service.

Piston and Ball Check Valve – T-Pattern – Union Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -20°F to 800°F
Body Material: A105
End Connections: Threaded and Socket Weld
Special Construction: NACE

In-line Ball Check Valve – Union Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 800
Service Temperatures: -325°F to 1000°F
Body Material: A105 and A182 F316 / F316L
End Connections: Threaded and Socket Weld
Special Construction: Full-port

Swing Check Valve – Bolted Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 150–800
Service Temperatures: -325°F to 1100°F
Body Material: A105, A182 F316 / F316L, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded, Flanged, and Socket Weld
Special Construction: API 600 wall thickness design available

Hydraulic Piston Check Valve – Screw Bonnet

Sizes: ¼–2 (8–50 DN)
Service Pressures: Type 3000 and 6000
Service Temperatures: -20°F to 450°F
Body Material: A105
End Connections: Threaded and Socket Weld
Special Construction: Oil Service, Oil Hydraulic Service. Not recommended for steam or dry gas service.

Piston – T-Pattern – Bolted Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 150–1500
Service Temperatures: -325°F to 1100°F
Body Material: A105, A350 LF2, A182 F316 / F316L, A182 F316H, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded, Flanged, and Socket Weld
Special Construction: NACE, Full-port, Zero-leakage, Spring-loaded

Piston Check Valve – Y-Pattern – Welded Bonnet

Sizes: ½–2 (15–50 DN)
Service Pressures: ANSI Class 1690 & 2680
Service Temperatures: -20°F to 1100°F
Body Material: A105, A182 F11 CL2, and A182 F22 CL3
End Connections: Threaded and Socket Weld
Special Construction: Oil Hydraulic Service

Technical Bulletins

Technical bulletins are available at www.flowserve.com.

VVABR1001	Emission Reduction Gate Valve and Retrofit Bonnet Assembly
VVABR1002	Zero-Leakage Forged Steel Check Valves
VVABR1003	Forged Steel Bellowseal Gate Valves
VVABR1004	Forged Steel Bellows Globe Valves Class 150, 300, 600, and 800
VVABR1005	Forged Steel Gate, Globe, and Check Valves
VVABR1006	Forged Steel Globe Valves for Water-Free Chlorine Service Class 300, 600, and 800
VVABR1007	Forged Steel “Y” Pattern Class 1690 and 2680
VVABR1008	Forged Steel: ASTM 1350, Grade LF2
VVABR1009	Forged Steel Weld Couplets; Class 3000 and 6000
VVABR1010	Bellows Seal Valves
VVABR1011	Fugitive Emissions: A Leakage Viewpoint
VVABR1012	A Treatise on Leakage
VVABR1014	Forged Steel Flow Control Valves
VVABR1015	“Y” Global Pattern Valves Class 800
VVABR1016	Sour Service Valve Applications
VVABR1017	“Y” Pattern Globe and Check Valves Class 1690 & 2680
VVABR1018	Motor-Operated Gate and Globe Valves
VVABR1019	Post Weld Heat Treatment of Socket Weld Valves
VVABR1020	HK Alkylation Service Valve Applications for Forged Steel Alkylation Valves
VVABR1021	Extended Body Forged Steel Valves Welded Bonnet, Bolted Bonnet, Class 800 and 1500

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

FLOWSERVE®

Vogt Valves

FCD VVABR0003-00 Printed in USA.