



Pressure Seal Valves



Vogt reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this catalogue, are provided for your information only and should not be relied upon unless confirmed in writing.

For more information visit www.vogtvalves.com

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Vogt Valves A History in the Making

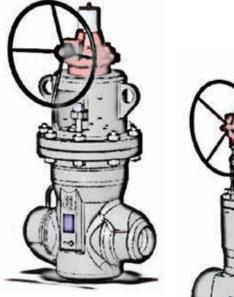
In the late 1890s, Vogt pioneered the early development of ammonia absorption refrigeration systems that made artificial ice. This business, plus Vogt's fledgling boiler business,

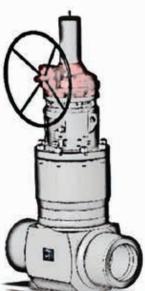
created an internal need for quality valves that initiated Vogt's early entry into the valve manufacturing business. The early reputation of Vogt's quality valves and rapidly growing petroleum processing industry created an outside demand that would firmly establish Vogt in the mass production of high-quality forged steel valves. For more than 100 years, Vogt's leadership has been evident in the production of forged steel gate, globe, angle and check valves in most popular materials, trims and bonnet configurations.

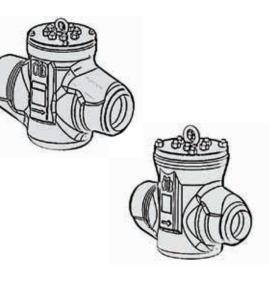
Today, Vogt valves support a worldwide network of distributors with access to the world's largest capability for manufacturing of forged steel valves.



Vogt







VOGT OFFERS FORGED STEEL PRESSURE SEAL VALVES

Class 900 to Class 4500 for the Oil & Gas, Power and Petrochemical Industries.

FORGED PRESSURE SEAL VALVES ARE PREFERRED FOR:

- Severe Service
- Higher reliability
- Stringent leakage rate
- Service to nominal pressure up to class 4500#

AVAILABLE CONFIGURATION:

- Flexible Wedge Gate
- Parallel Slide Gate
- T Pattern Globe
- Y Pattern Globe
- Swing Check
- Tilting Check
- Stop Check

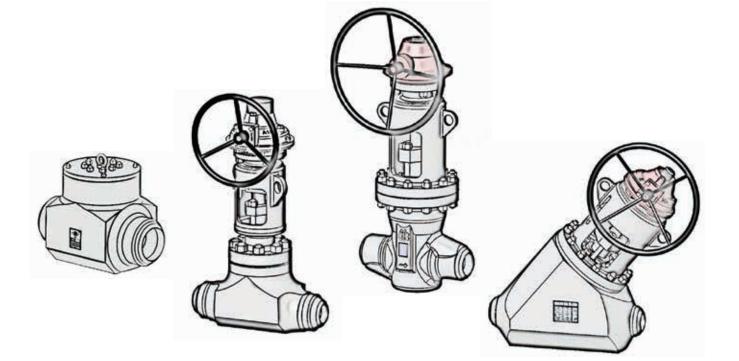
MATERIALS:

Carbon steel: A105 - LF2Stainless steel: F304 - F316 - F321H - F347HLow alloyed material: F1 - F5 - F11- F22 - F9 - F91 - F92Nickel based: $825 - 625 - Hastelloy^{\ensuremath{\circledast}}$ C276 - Hastelloy[@] C22

	DESIGN AND MANUFACTURING STANDARDS
API 600	Steel Gate Valves Flanged and Butt-welding Ends, Bolted Bonnets
API 623	Steel Globe Valves-Flanged and Butt welding Ends, Bolted Bonnets
API 594	Check valves: Flanged, Lug, Wafer and Butt welding
ASME B16.5	Pipe flanges and flanged fittings IS05210 [NPS 1/2 through NPS 24]
ASME B16.10	Face to face and end to end dimensions of valves
ASME B16.25	Butt-welding ends
ASME B16.34	Valves-flanged threaded and welding end



TECHNOLOGY & QUALITY



QUALITY ASSURANCE

Our activities are organized in accordance to procedures qualified to ISO 9001:2015 TÜV süd

DESIGN A	ND MANUFACTURING STANDARDS				
API 624	Fugitive emissions testing				
API 622	Type testing of process valve packing for fugitive emissions				
API 6FA	Specification for fire test for valves				
API 607	Fire Safe for quarter turn valves and valves equipped with non metallic seats				
ISO 15848-1 & 2	Fugitive emissions testing for valve stem seal and body joint				
NACE MR01.75 / ISO15156	Petroleum petrochemical and natural gas industries, materials for use in H2S containing environments oil and gas production				

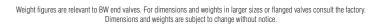


PRODUCT LINE

	\bigcap	GATE					\bigcap		GLC	OBE			CHECK					
	۱ I	WEDGE PARALLEL SLIDE			T PATTERN Y PATTERN				SWING TILTING			3						
	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500
1⁄2"																		
3⁄4"																		
1"																		
1 ½"																		
2"																		
2 1⁄2"																		
3"																		
4"																		
6"																		
8"																		
10"																		
12"																		
14"																		
16"																		
18"																		
20"																		
24"																		

Larger size details available on request • Class 4500 details available on request

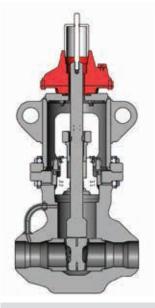
	GATE	GLOBE	CHECK			
P	TBP - Threaded Body - on	TB - Threaded Body one forged piece				
	TBY - Threaded Body - or	TBY - Threaded Body - one forged piece with Yoke				
	SR1 - Segmented ring - o	ne forged piece with Yoke	SR - Segmented ring			
	SR2 - Segmented ring - tv	vo forged piece with Yoke	one forged piece			



PRODUCT LINE

Vogt Valves Catalog VVPS0000-01 08/18

Vogt

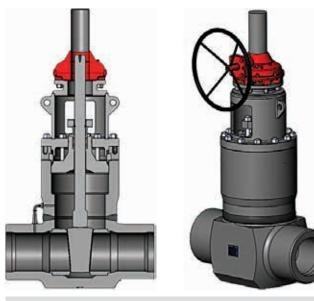




GATE one piece

- Sizes 1/2" through 6"
- Closed Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500

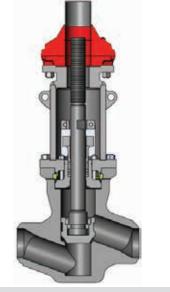
- Wedge
- Parallel slide



GATE two pieces welded

- Sizes 8" through 24"
- Open Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500

- Wedge
- Parallel slide





GLOBE

- Sizes ½" through 24"
- Closed Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500



- Y-Pattern
- Stop Check



CHECK

- Sizes 1/2" through 24"
- Closed Die Forging
- Open Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500
- Swing
- Tiliting disc

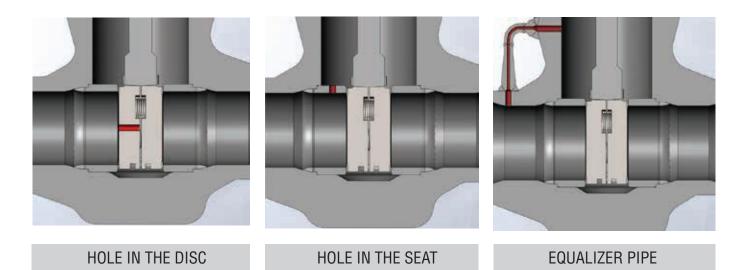




FEATURES

Overpressure Release

Equalizer pipe, relief valve or drilled seat available to avoid body cavity overpressure. Body cavity can be pressure equalized upstream by means of:



Overpressure relief configurations render the valve unidirectional.

Main Body Seal

Sealing material, composite or metallic, available in triangular shape as standard. Encapsulated rectangular shape available upon request.

Bypass and Drain

Bypass and drain are available with on/off globe or gate valves. In case bypass is requested body cavity can still be pressure equalized or pressure relieved. With these configurations the valve will be bidirectional.



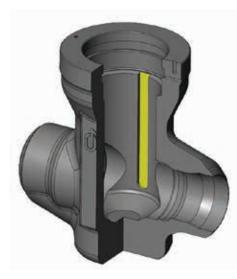


FEATURES



Body Guided Design

Gate standard design has female machined guides in the body Stem guided design without body grooves available on request

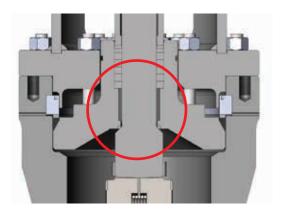




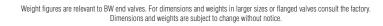


Stem Guided Design Stem guided by the bushing Stem and bearing can be Chrome carbide coated





NOTE: Fully supported "pocket" design available



FEATURES





Choice of Operators

Manual, Electric, Hydraulic Actuator, Pneumatic linear Standard operator interfaces connections are designed to ISO5210



In consideration of the high number of turns required to operate large size valves, Vogt suggests use of an actuator to minimize operating or stroke time.

Double start stem design available to decrease operating time.

Actuator flanges are standardized to ISO 5210 mounting interfaces, allowing interchangeability at any time.

On wedge configuration gear and actuators can be supplied with high temp stem expansion compensator.

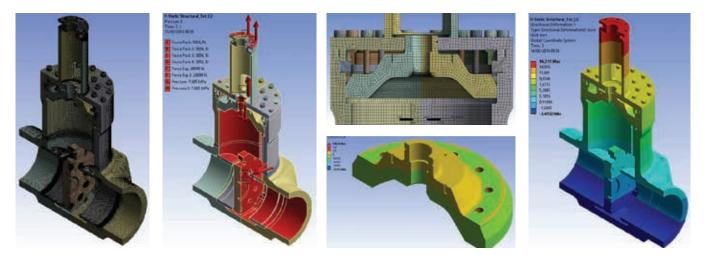


DESIGN VERIFICATON

Finite Element Analysis is performed on all designs to evaluate the product performance in simulated min./ max. service conditions. Computational Fluid Dynamics calculations and 3D solid design analysis are executed in house.

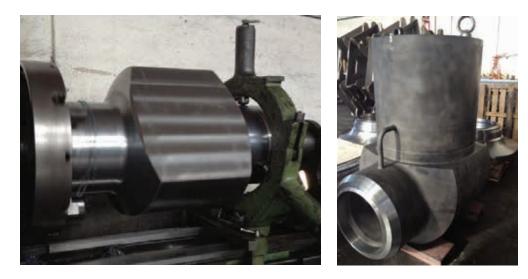
Design analysis is performed in addition to code to mitigate stress and or fatigue introduced by temperature/ pressure, maximize flow, minimize erosion and optimize each component part.

DESIGNED BY ANALYSIS AND DESIGNED TO CODE



IN PROCESS QUALITY CONTROL

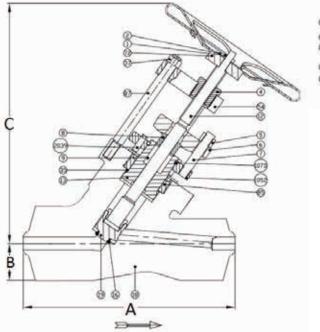
Forgings up to 50 tons are machined to final shape in any alloyed steel material; strict surveillance of machining tolerances ensure proper mating of parts during assembly. Two piece bodies are full penetration welded with post weld heat treatment and 100% radiographic inspection as standard. All other welding activities are inspected using UT or RX. All component parts are inspected in one of our laboratories, by our NDE technicians and/or our QA/QC level II/III inspectors to guarantee the highest level of reliability.

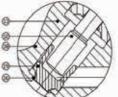


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GLOBE Y VALVES - PS - TBP





STOP CHECK DETAIL

BUTT WELDING ENDS ACCORDING TO ASME B16.25 DESIGN ACCORDING TO ASME B16.34 END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

	DESCRIPTION		MATERIAL SP	ECIFICATION						
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91					
1	WHEEL NUT		CARBON	I STEEL						
2	NAMEPLATE		AISI 316							
5	GLAND NUT	ASTM A194 2H		ASTM A194 Gr.7						
6	GLAND FLANGE		ASTM	A105						
7	GLAND STUD	ASTM A193 B7		ASTM A194 B16						
8	GLAND		ASTM A4	479 410						
9	PACKING		GRAF	PHITE						
12	STEM		ASTM A479 410		ASTM A479 XM-19					
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A105N+STELLITE Gr.6 ASTM A182 F11+STELLITE Gr.6 ASTM A739 B22+STELLITE Gr.6 ASTM A182 F91+STELLIT							
16	INTEGRAL SEAT		STELLI	TE Gr.6						
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6					
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 CI.3	ASTM A182 F91					
35	GASKET		S.S.	316						
37	PILLAR NUT		ASTM A194 2H		ASTM A194 Gr.8					
72	HANDWHEEL		CARBON	N STEEL						
54	YOKE FLANGE		ASTM A105		AISI 316					
85	SCREWED RING		ASTM A479 410		ASTM A479 XM-19					
87	PILLAR		ASTM	A105						
4	BUSHING		AISI 416							
1052	COUPLING FLANGE	ASTM A105								
2039	BONNET BOLTS		ASTM A	193 B8						
1075	SEGMENTED RING		ASTM A	182 F6						

Vogt

CLASS 900

SIZE	Α		I	В		C		N
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
1⁄2"	110	4.33	20	0.79	149	5.87	7	16
3/4"	110	4.33	20	0.79	175	6.89	9	20
1"	142	5.59	28	1.10	185	7.28	12	27
1 ½"	170	6.69	38	1.50	283	11.14	16	36
2"	368	14.49	43	1.69	350	13.78	56	124

CLASS 1500

SIZE	Α		В		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
1⁄2"	142	5.59	25	0.98	240	9.45	10	23
3⁄4"	226	8.90	42	1.65	265	10.43	19	42
1"	254	10.00	42	1.65	305	12.01	20	45
1 ½"	305	12.01	42	1.65	360	14.17	26	58
2"	368	14.49	58	2.28	360	14.17	80	177

CLASS 2500

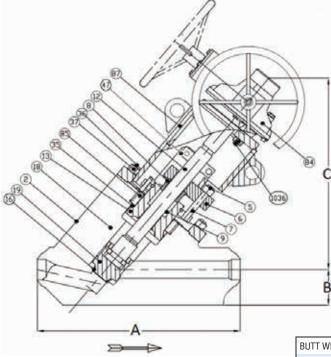
SIZE	A		В		(;	W		
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs	
1⁄2"	246	9.69	42	1.65	310	12.20	21	47	
3⁄4"	273	10.75	42	1.65	350	13.78	25	56	
1"	308	12.13	33	1.30	350	13.78	27	60	
1 ½"	384	15.12	45	1.77	395	15.55	34	75	
2"	451	17.76	58	2.28	420	16.54	100	221	

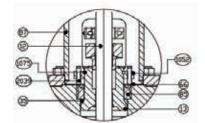
Stop Check design available | One single piece - closed die forging | Threaded body with pillars

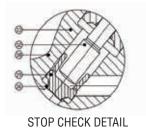




GLOBE Y VALVES - PS - TBY







BUTT WELDING ENDS ACCORDING TO ASME B16.25 DESIGN ACCORDING TO ASME B16.34 END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

	DESCRIPTION		MATERIAL SP	ECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91		
2	NAMEPLATE		AISI	316			
5	GLAND NUT	ASTM A194 2H		ASTM A194 Gr.7			
6	GLAND FLANGE		ASTM	A105			
7	GLAND STUD	ASTM A193 B7		ASTM A193 B16			
8	GLAND		ASTM A	479 410			
9	PACKING		GRAP	PHITE			
12	STEM		ASTM A479 410		ASTM A479 XM-19		
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6		
16	INTEGRAL SEAT		STELLI	TE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6		
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 CI.3	ASTM A182 F91		
35	GASKET		GRAPHITE	+ SS.316			
36	BODY BOLTS	ASTM A193 B7 / 2H		ASTM A193 B16 / Gr.7			
85	SCREWED RING		ASTM A182 F6a CL.2		ASTM A182 FXM-19		
47	INDICATOR		ASTM A105		AISI 316		
1075	SEGMENTED RING		ASTM A	479 410			
66	WASHER		ASTM A5	16 Gr.70			
84	GEAR		DUCTIL	E IRON			
87	YOKE	ASTM A105					
2039	BONNETS BOLTS	ASTM A193 B8					
1036	GEAR BOLTS & NUTS		ASTM A193 B7 /	ASTM A194 2H			
1052	COUPLING FLANGE		ASTM	A105			



GLOBE Y VALVES - PS - TBY



CLASS 900

SIZE	А		В		()	W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 1⁄2"	368	14.49	53	2.09	420	16.54	82	181
3"	381	15.00	62	2.44	510	20.08	110	243
4"	457	17.99	82	3.23	550	21.65	340	750

CLASS 1500

SIZE	Α		В		(C	W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	384	15.12	62	2.44	430	16.93	106	234
3"	470	18.50	68	2.68	540	21.26	130	287
4"	546	21.50	90	3.54	645	25.39	190	419

CLASS 2500

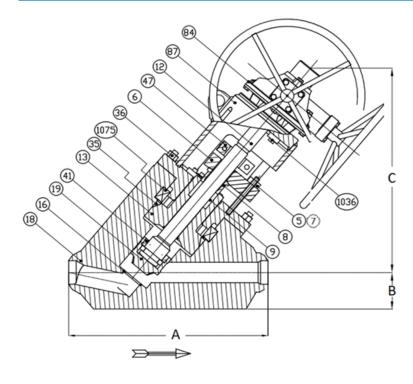
SIZE	A		В		()	W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 1⁄2"	508	20.00	76	2.99	454	17.87	146	322
3"	578	22.76	110	4.33	540	21.26	170	375
4"	-	-	-	-	-	-	-	-

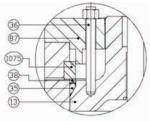
Stop Check design available | One single piece - closed die forging | Threaded body with yoke





GLOBE Y VALVES - PS - SR1





PRESSURE SEAL DETAIL



STOP CHECK DETAIL

BUTT WELDING ENDS ACCORDING TO ASME B16.25 DESIGN ACCORDING TO ASME B16.34 END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION							
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91				
2	NAMEPLATE	AISI 316							
5	GLAND NUT	ASTM A194 2H		ASTM A194 Gr.7					
6	GLAND FLANGE		ASTM	A105					
7	GLAND STUD	ASTM A193 B7		ASTM A193 B16					
8	GLAND		ASTM A	479 410					
9	PACKING		GRAPHITE						
12	STEM		ASTM A479 XM-19						
13	BONNET	ASTM A105N+STELLITE Gr.6 ASTM A182 F11+STELLITE Gr.6 ASTM A739 B22+STELLITE Gr.6 ASTM A182 F91+STEL							
16	INTEGRAL SEAT	STELLITE Gr.6							
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6				
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 CI.3	ASTM A182 F91				
35	GASKET		GRAPHITE	+ SS.316					
36/37	BODY BOLTS	ASTM A193 B7 / 2H	ASTM A193 B7 / 2H ASTM A193 B16 / Gr.7						
41	SCREWED DISC RING	ASTM A479 410							
47	INDICATOR		AISI 316						
1075	SEGMENT RING	ASTM A182 F6a CL.2 ASTM A182 F2							
38	SPACER RING		F316						
84	GEAR	DUCTILE IRON							
87	YOKE	ASTM A105							
1036	GEAR BOLTS NUTS	ASTM A193 B7 / ASTM A194 2H							



CLASS 900

SIZE	A		В		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
4"	-	-	-	-	-	-	-	-
6"	508	20.00	122	4.80	700	27.56	410	904
8"	660	25.98	163	6.40	830	32.68	760	1676
10"	787	30.98	203	8.00	1020	40.16	950	2095
12"	914	35.98	244	9.60	1150	45.28	1290	2844
14"	991	39.02	284	11.20	1280	50.39	1560	3440
16"	1092	42.99	325	12.80	1400	55.12	2020	4454
18"	1219	47.99	366	14.40	1530	60.24	2900	6394
20"	1321	52.01	406	16.00	1700	66.93	3180	7011
24"	1549	60.98	488	19.20	1850	72.83	3750	8268

CLASS 1500

SIZE	A		В		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
4"	-	-	-	-	-	-	-	-
6"	559	22.01	152	6	630	24.80	430	948
8"	711	27.99	203	8	810	31.89	920	2029
10"	864	34.02	254	10	930	36.61	1110	2448
12"	991	39.02	305	12	1200	47.24	1620	3572
14"	1067	42.01	356	14	1320	51.97	1780	3925
16"	1194	47.01	406	16	1450	57.09	2450	5402
18"	1346	52.99	457	18	1560	61.42	3600	7937
20"	1473	57.99	508	20	1680	66.14	3960	8731
24"	1943	76.50	610	24	1830	72.05	4760	10494

CLASS 2500

SIZE	A		В		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
4"	673	26.50	125	4.92	690	27.17	550	1213
6"	610	24.02	183	7.20	650	25.59	605	1334
8"	762	30.00	244	9.60	850	33.46	1120	2470
10"	914	35.98	305	12.00	970	38.19	1360	2999
12"	1041	40.98	366	14.40	1250	49.21	2280	5027
14"	1118	44.02	427	16.80	1380	54.33	2425	5347
16"	1245	49.02	488	19.20	1550	61.02	3490	7695
18"	1397	55.00	549	21.60	1650	64.96	4300	9480
20"	1537	60.51	610	24.00	1730	68.11	5120	11288
24"	1994	78.50	732	28.80	1990	78.35	6950	15323

Stop Check design available | One single piece - open die forging | Segmented ring design





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