

Neway Oil Equipment (Suzhou) Co., Ltd

Address: No.999 Xiangjiang Road,
Suzhou New District, P.R.China
Tel: 0512-6708-1952
Fax: 0512-66618930-4715
Email: noe@neway.com.cn
Website: www.newayoilequipment.com
Post: 215129



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Cat no. : E-V-2015



API 6A VALVES

NEWAY OIL EQUIPMENT (SUZHOU) CO., LTD

Cat No. : E-V-2015



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Figure Number Example:



Following descriptions provide a basic guideline in valve specification:

① Valve type

Valve type	Symbol	Valve type	Symbol
Expanding Gate Valve	GEN	Multiple Orifice Choke	CM
Slab Gate Valve	GBC	Soft Sealing Ball Valve	BS
Slab Gate Valve(lip seal)	GBS	Metallic Sealing Ball Valve	BM
Ball Screw Gate Valve	GBSR	Lifting Check Valve	LC
Plug & Cage Control Choke	CAP	Swing Check Valve	SC
External Sleeve Control Choke	CAE	Mud Valve	GA
Adjustable Needle Choke	CAN	7500psi Mud Valve	GA75
Positive Choke	CP	Globe Valve	GL

② Size

in	1-13/16	2-1/16	2-9/16	3-1/16	3-1/8	4-1/16	5-1/8	6-3/8	6-5/8	7-1/16	9
mm	46	52	65	78	79	103	130	162	168	178	228

③ Working Pressure

Symbol	2M	3M	5M	10M	15M	20M
MPa	13.8	20.7	34.5	69.0	103.5	138.0
psi	2,000	3,000	5,000	10,000	15,000	20,000

④ End Connection

Symbol	FLG	LP	NU	EU	H	W
End	Flange End	Pipeline Thread	Tubing Thread	EU Thread	Hub Connection	Weld Connection

⑤ Material Selection

Please find the detailed sheet on the next page.

⑥ Temperature Rating

Symbol	Range(F)		Range(C)	
K	-75	180	-60	82
L	-50	180	-46	82
N	-50	140	-46	60
P	-20	180	-29	82
S	0	140	-18	60
T	0	180	-18	82
U	0	250	-18	121
V	35	250	2	121
X	0	350	0	180
Y	0	650	0	345

⑦ Product Specification Level

Symbol	PSL1	PSL2	PSL3	PSL3G	PSL4
Testing Type	Hydrostatic Test	Hydrostatic Test	Hydrostatic Test	Hydrostatic & Gas Test	Hydrostatic & Gas Test
Traceability	No	No	Yes	Yes	Yes

⑧ Product Performance Requirement

Symbol	PR1	PR2

⑤ Material Selection

Parts	Material Type	Surface Treatment	Size								
			DD-NL	EE-0.5	EE-1.5	EE-NL	FF-0.5	FF-1.5	FF-NL	HH-NL	
Valve	ZG30CrMo	-									
	AISI 4130	-									
	ASTM A217-CA15	-									
	AISI 410	-									
	AISI 4130	CLAD									
Bonnet	AISI 4130	-									
	AISI 410	-									
	AISI 4130	CLAD									
Stem	AISI 4130	QPQ									
	17-4PH	QPQ									
	AISI 410	QPQ									
Gate	AISI 4130	QPQ									
	AISI 4130	TC									
	AISI 410	QPQ									
	AISI 410	TC									
	AISI 410	STL									
Seat	17-4PH	QPQ									
	INCONEL 718	-									
	AISI 4130	QPQ									
	AISI 4130	TC									
	AISI 410	QPQ									
Bonnet Ring	Carbon Steel	ZINC									
	SS316	-									
	INCONEL 625	-									

Notes:

Symbol	Meaning
CLAD	Surface Overlay
QPQ	Nitriding
TC	Tungsten Carbide
STL	Stellite Inlay

Product Range

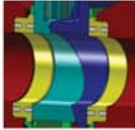
Valve Type		Working Pressure	Size										
			1-13/16"	2-1/16"	2-9/16"	3-1/8"	3-1/16"	4-1/16"	5-1/8"	7-1/16"	9"	11"	
Gate Valve	GE	2,000											
		3,000											
		5,000											
		10,000											
	GBC	2,000											
		3,000											
		5,000											
GBS	2,000												
	3,000												
	5,000												
	10,000												
	20,000												
GBSR	5,000												
	10,000												
	15,000												
	20,000												
GA	2,000												
	3,000												
	5,000												
GA75	7,500												
Choke Valve	CAP	2,000											
		3,000											
		5,000											
		10,000											
		20,000											
CAE	2,000												
	3,000												
	5,000												
	10,000												
	20,000												
CAN	2,000												
	3,000												
	5,000												
	10,000												
	15,000												
CP	2,000												
	3,000												
	5,000												
	10,000												
	15,000												
CM	2,000												
	3,000												
	5,000												
	10,000												
	20,000												

Valve Type		Working Pressure	Size										
			1-13/16"	2-1/16"	2-9/16"	3-1/8"	3-1/16"	4-1/16"	5-1/8"	7-1/16"	9"	11"	
Ball Valve	BS	2,000											
		3,000											
	BM	2,000											
		3,000											
	LC	5,000											
		10,000											
	SC	15,000											
		20,000											
Globe Valve	GL	2,000											
		3,000											
		5,000											

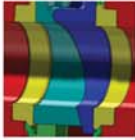
Description

The GE Gate Valve, with expanding split gate design, non-rising stem and all kinds of sealing provide safe, dependable service in applications of 2000 to 5000 psi WP. It is available in sizes from 2-1/16" through 4-1/16" with threaded and 2-1/16 " through 7-1/16" with flanged ends. It is available in trims for all types of oilfield service.

Double sealing type

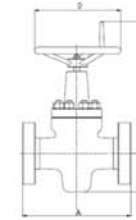


Metal to metal sealing type



Features

- It is available in two sealing types, double sealing and metal to metal sealing.
- Expanding gate design creates a positive mechanical seal across seat, with or without line pressure;
- The valve has a preferred direction of installation (marked with an arrow on the valve body) .
- Gate skirts reduce loss of body lubricants.
- Upper/lower thrust bearings are isolated from well fluid, minimizing torque.
- Stem packing can be re-energized with the valve under pressure.
- Non-rising stem permits valve installation in closer quarters.



Dimensions for flanged end GE

- A: Flange face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Handwheel diameter

2,000 psi Working Pressure

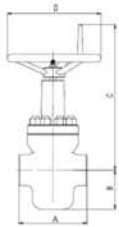
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	11.62	295	4.92	125	18.50	470	11.02	280	99	45
2-9/16"	2.56	65.1	13.12	333	5.91	150	19.29	490	12.99	330	143	65
3-1/8"	3.13	79.4	14.12	359	7.28	185	21.65	550	12.99	330	220	100
4-1/16"	4.06	103.2	17.12	435	8.86	225	25.00	635	15.75	400	353	205
7-1/16"	7.06	179.4	26.12	664	14.17	360	32.48	825	25.59	650	1146	520

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.62	371	5.31	135	18.31	465	12.99	330	165	75
2-9/16"	2.56	65.1	16.62	422	5.91	150	19.49	495	15.75	400	220	100
3-1/8"	3.13	79.4	17.12	435	7.28	185	21.85	555	15.75	400	276	125
4-1/16"	4.06	103.2	20.12	511	8.86	225	25.59	650	18.90	480	573	260
7-1/16"	7.06	179.4	28.12	714	14.17	360	32.48	825	29.92	760	1235	560

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.62	371	5.31	135	18.50	470	12.99	330	154	70
2-9/16"	2.56	65.1	16.62	422	5.91	150	19.49	495	15.75	400	220	100
3-1/8"	3.13	79.4	18.62	473	7.28	185	21.85	555	15.75	400	320	145
4-1/16"	4.06	103.2	21.62	549	9.06	230	25.39	645	18.90	480	573	260
7-1/16"	7.06	179.4	32.00	813	13.98	355	32.68	830	29.92	760	1433	650



Dimensions for threaded end GE

- A: Thread face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Handwheel diameter

2,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	9.65	245	4.92	125	18.50	470	11.02	280	99	45
2-9/16"	2.56	65.1	10.24	260	5.91	150	19.29	490	12.99	330	132	60
3-1/8"	3.13	79.4	11.42	290	7.28	185	21.65	550	12.99	330	198	85
4-1/16"	4.06	103.2	12.99	330	8.86	225	25.00	635	12.99	330	276	150

3,000 psi Working Pressure

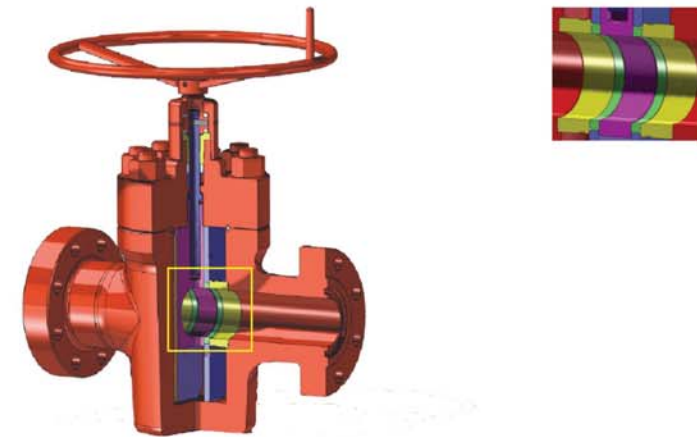
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	8.86	225	4.92	125	18.70	475	12.99	330	110	50
2-9/16"	2.56	65.1	10.24	260	5.91	150	19.49	495	15.75	400	143	65
3-1/8"	3.13	79.4	11.42	290	7.28	185	21.85	555	15.75	400	198	90
4-1/16"	4.06	103.2	12.99	330	9.06	230	26.38	670	20.00	508	276	190

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	8.86	225	4.92	125	18.70	475	12.99	330	110	50
2-9/16"	2.56	65.1	10.24	260	5.91	150	19.49	495	15.75	400	143	65
3-1/8"	3.13	79.4	11.42	290	7.28	185	21.85	555	15.75	400	198	90
4-1/16"	4.06	103.2	12.99	330	9.06	230	25.39	645	18.90	480	419	190

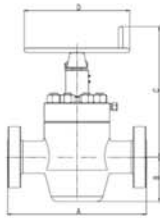
Description

The GBC Gate Valve is a field-proven valve that provides reliability and interchangeability. The valve is available in a wide variety of trim configurations to suit all service conditions. Valves are also available prepared for an actuator of the customer's choice or equipped with a Neway Pneumatic Diaphragm, Pneumatic Piston or Hydraulic Actuator. It is available in pressure ratings from 2000 to 20,000 psi and bore sizes of 1-13/16" to 7-1/16".



Features

- GBC slab gate valves are full bore, through conduit design, non-rising stem, symmetrical, bi-directional design without a preferred direction of operation.
- Bearing cap grease fitting allows positive bearing lubrication.
- Stem can be back seated to allow stem seal replacement with the valve under pressure (For safety purposes, it's suggested to replace packing after releasing pressure).
- Grease injection fitting is located on the bonnets, for lubricating stem, and gate. It can also be used to test the back seat integrity.
- Positive metal-to-metal sealing (gate-to-seat and seat-to-body).
- Special modified ACME threads at the gate-to-stem connection provide sufficient freedom of movement to creating effect a positive downstream seal.
- Handwheel can be easily removed/reassembled by means of a screw and nut.



Dimensions for flanged end GBC

- A: Flange face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Handwheel diameter

2,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	11.61	295	5.00	127	18.90	480	14.02	356	112	51
2-9/16"	2.56	65.1	16.61	422	6.34	161	22.36	568	14.00	356	208	95
3-1/8"	3.13	79.4	18.62	473	7.48	190	22.83	580	17.01	432	320	145
4-1/16"	4.06	103.2	17.13	435	8.98	228	22.64	575	15.16	385	397	180

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	5.28	134	20.67	525	14.00	356	165	75
2-9/16"	2.56	65.1	16.61	422	6.34	161	22.36	568	14.00	356	208	95
3-1/8"	3.13	79.4	17.13	435	7.01	178	22.74	578	17.00	432	262	119
4-1/16"	4.06	103.2	20.12	511	9.37	238	25.12	638	18.50	470	496	225
5-1/8"	5.13	130.2	24.13	613	11.38	289	28.38	670	24.02	610	926	420
7-1/16"	7.13	181.0	28.11	714	14.63	372	34.25	870	24.02	610	1620	735

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	5.32	135	21.65	550	14.00	356	165	75
2-9/16"	2.56	65.1	16.61	422	6.00	153	22.44	570	14.00	356	231	105
3-1/8"	3.13	79.4	18.62	473	7.56	192	22.64	575	17.00	432	320	145
4-1/16"	4.06	103.2	21.61	549	9.65	245	25.20	640	18.50	470	529	240
5-1/8"	5.13	130.2	28.62	727	11.22	285	28.15	715	24.00	610	959	435
7-1/16"	7.13	181.0	32.01	813	14.63	372	34.25	870	24.02	610	1984	900
9"	9.00	228.6	40.98	1041	18.50	470	45.28	1150	-	Gear Box	3748	1700

10,000 psi Working Pressure

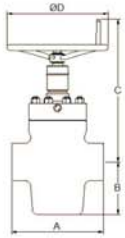
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.81	46.1	18.27	464	5.15	131	21.74	552	14.00	356	187	85
2-1/16"	2.06	52.4	20.51	521	5.75	146	21.54	547	18.50	470	265	120
2-9/16"	2.56	65.1	22.24	565	6.69	170	22.36	568	18.50	470	309	140
3-1/16"	3.06	77.8	24.37	619	8.19	208	23.23	590	24.02	610	452	205
4-1/16"	4.06	103.2	26.38	670	9.84	250	26.26	667	24.00	610	805	365
5-1/8"	5.13	130.2	29.02	737	13.11	333	28.94	735	24.02	610	1312	595

15,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.81	46.1	17.99	457	5.63	143	21.65	550	18.50	470	309	140
2-1/16"	2.06	52.4	19.02	483	6.69	170	21.54	547	18.50	470	298	135
2-9/16"	2.56	65.1	20.98	533	6.69	170	24.61	625	18.50	470	529	240
3-1/16"	3.06	77.8	23.54	598	9.49	241	27.76	705	24.00	610	827	375
4-1/16"	4.06	103.2	29.02	737	10.28	261	29.53	750	24.00	610	1091	495

20,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.66	42.1	20.98	533	5.82	148	21.58	548	18.50	470	474	215



Dimensions for threaded end GBC

- A: Thread face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Handwheel diameter

2,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	8.98	228	5.00	127	18.90	480	14.02	356	99	45
2-9/16"	2.56	65.1	12.20	310	6.34	161	22.36	568	14.00	356	208	95
3-1/8"	3.13	79.4	13.39	340	7.48	190	22.52	572	17.01	432	276	125
4-1/16"	4.06	103.2	15.43	392	8.98	228	22.52	572	18.50	470	331	150

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	9.61	244	5.39	137	21.57	548	14.00	356	115	52
2-9/16"	2.56	65.1	12.20	310	6.34	161	22.36	568	14.00	356	208	95
3-1/8"	3.13	79.4	13.39	340	7.56	192	22.74	578	17.00	432	262	119
4-1/16"	4.06	103.2	15.43	392	9.37	238	25.12	638	18.50	470	496	225

5,000 psi Working Pressure

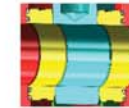
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	9.61	244	5.39	137	21.46	545	14.02	356	132	60
2-9/16"	2.56	65.1	16.61	422	6.00	153	22.38	569	14.00	356	220	100
3-1/8"	3.13	79.4	18.62	473	7.56	192	22.64	575	17.00	432	322	146
4-1/16"	4.06	103.2	21.61	549	9.65	245	25.12	638	18.46	469	525	238

Description

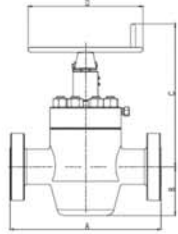
The GBS Gate Valve is manufactured in accordance with API 6A and NACE MR 0175 and widely recognized as a high quality valve for all types of applications. The GBS is a full-bore, through-conduit valve available in standard double flange, threaded-end and special block body configurations. It is available in pressure ratings from 2000 to 20,000 psi and bore sizes of 1-13/16" to 7-1/16".

Features

- Grease injection fitting is located on the bonnet, for lubricating stem, stem nut and gate.
- In addition to the metal-to-metal seal between the seats and gate, GBS gate valves incorporate two spring-loaded, pressure-energized structures.
- The structure can sense the spring supply load to seal when there is low pressures and lip seal to seal when there is high pressure. Non-electrometric lip-seal between each seat and the body. This kind of structure protects the metal seal surface of the seat and gate from damage and improves valve performance at very low pressures.
- This double-seal design provides maximum protection against intrusion of particles into the valve cavity, prevents sand particles from affecting the metal-to-metal seal between the body and seats and gate and also prevents body erosion in drilling mud applications.
- Positive metal-to-metal sealing (gate-to-seat and seat-to-body).
- Simple, reliable gate and seat design promotes ease of field service.
- Bi-directional design provides flow direction versatility and increased service life.



- Bearing cap grease fitting allows positive bearing lubrication.
- Stem can be back seated to allow stem seal replacement with the valve under pressure (For safety purposes, it's suggested to replace packing after releasing pressure).
- Metal-to-metal bonnet seal, (pressure energized at 10,000 psi WP and above).
- The stem packing is a pressure energized seal and can withstand severe temperatures and fluids. It is constructed of a non-elastomeric material that offers a low coefficient of friction.
- Compatible with a wide range of actuators.



Dimensions for flanged end GBS

- A: Flange face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Handwheel diameter

5,000 psi Working Pressure

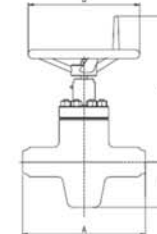
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	5.28	134	21.61	549	14.02	356	165	75
2-9/16"	2.56	65.1	16.61	422	6.34	161	22.36	568	14.00	356	209	95
3-1/8"	3.13	79.4	18.62	473	7.48	190	22.52	572	17.01	432	320	145
4-1/16"	4.06	103.2	21.61	549	9.65	245	24.99	635	17.72	450	507	230
5-1/8"	5.13	130.2	28.62	727	11.38	289	27.36	695	24.00	610	1102	500
7-1/16"	7.06	179.4	32.01	813	14.63	372	51.97	1320	42.91	1090	1984	900

10,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.81	46.0	18.27	464	5.12	130	21.85	555	14.02	356	194	88
2-1/16"	2.06	52.4	20.51	521	5.71	145	21.65	550	18.50	470	243	110
2-9/16"	2.56	65.1	22.24	565	6.69	170	22.44	570	18.50	470	298	135
3-1/16"	3.06	77.8	24.37	619	8.19	208	24.41	620	24.02	610	474	215
4-1/16"	4.06	103.2	26.38	670	9.84	250	26.38	670	24.00	610	805	365
5-1/8"	5.13	130.2	29.02	737	13.19	335	29.13	740	24.02	610	1323	600
6-3/8"	6.37	161.9	35.00	889	14.76	375	45.87	1165	35.00	889	2502	1135

15,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.81	46.1	17.99	457	5.63	143	27.20	691	18.50	470	298	135
2-1/16"	2.06	52.4	19.02	483	6.69	170	21.54	547	18.50	470	287	130
2-9/16"	2.56	65.1	20.98	533	7.68	195	23.48	597	18.50	470	529	240
3-1/16"	3.06	77.8	23.54	598	9.45	240	24.61	625	23.03	585	871	395
4-1/16"	4.06	103.2	29.02	737	11.69	297	35.79	909	24.02	610	1554	705



Dimensions for welded end GBS

- A: Weld face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Handwheel diameter

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	10.63	270	5.28	134	21.61	549	14.02	356	132	60
2-9/16"	2.56	65.1	12.36	314	6.34	161	22.36	568	14.00	356	172	78
3-1/8"	3.13	79.4	13.62	346	7.48	190	22.52	572	17.01	432	320	145

5,000 psi Working Pressure

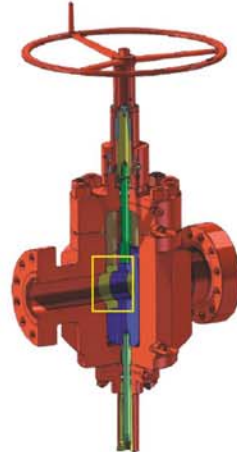
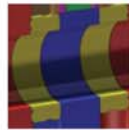
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
5-1/8"	5.13	130.2	28.62	727	11.02	280	20.47	520	23.62	600	734	333

Description

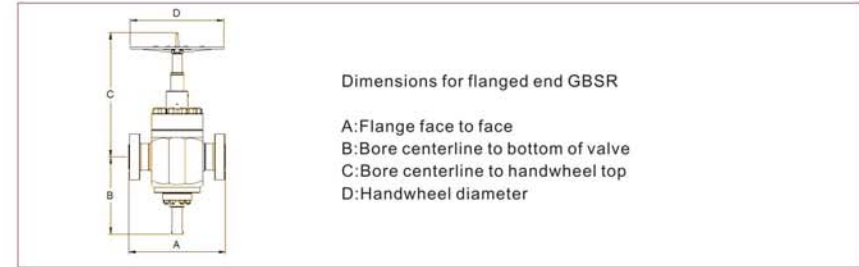
The GBS-R Gate Valve was designed as a manual valve for use in high pressure, large bore applications. This valve incorporates a lower balancing stem and unique ball screw mechanism for ease of operation in the field. It is value-engineered for reliability, low torque, ease of operation and service with many of the same features as the GBS Gate Valve, including the gate and seat design.

Features

- Bearing cap grease fitting allows positive bearing lubrication.
- Positive metal-to-metal sealing (gate-to-seat and seat-to-body).
- The lower stem balances the pressure thrust on the upper stem to reduce operating torque, prevents body cavity pressure build-up during operation and provides position indication.
- The upper stem and lower stem can be back seated to allow either stem packing to be replaced, under pressure if necessary. (For safety purposes, it's suggested to replace packing after releasing pressure).
- In addition to the metal-to-metal seal between the seats and valve body, two spring loaded, non-elastomeric lip-seals provide maximum protection against intrusion of particle contaminants into the valve cavity, improve gate and seat service life, prevent damage to the body-to-seat seal face, and improve valve performance at very low pressure.



- Pressure-energized metal-to-metal bonnet seal.
- The GBS-R Gate Valve has grease fittings located on the downstream side of the upper stem and lower stem back seat shoulders for lubricating stem and the valve cavity.
- Bi-directional design provides flow direction versatility and increased service life.
- The stem packing is a pressure energized seal and can withstand severe temperatures and fluids. It is constructed of a non-elastomeric material that offers a low coefficient of friction.



5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
9"	9.00	228.6	41.00	1041	33.70	856	59.06	1500	24.02	610	4552	2065

10,000 psi Working Pressure

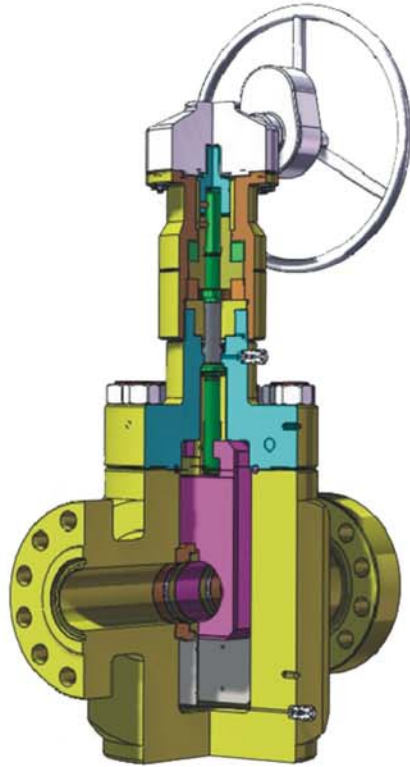
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4-1/16"	4.06	103.2	26.38	670	24.09	612	40.75	1035	23.62	600	1235	560
5-1/8"	5.13	130.2	29.02	737	26.97	685	42.72	1085	23.62	600	2006	910
6-3/8"	6.38	162.0	35.00	889	30.00	762	51.38	1305	34.00	864	2502	1135
7-1/16"	7.06	179.4	35.00	889	27.95	710	65.16	1655	34.00	864	3748	1700

15,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4-1/16"	4.06	103.2	29.02	737	25.24	641	43.31	1100	23.62	600	1687	765
5-1/8"	5.13	130.2	35.00	889	27.99	711	45.08	1145	36.00	914	2601	1180
6-3/8"	6.38	162.0	41.00	1041	34.09	866	61.57	1640	40.00	1016	6779	3075
7-1/16"	7.06	179.4	40.98	1041	36.73	933	58.07	1475	34.00	864	5787	2625

20,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/16"	3.06	77.8	30.51	775	19.49	495	35.24	895	23.62	600	1885	855

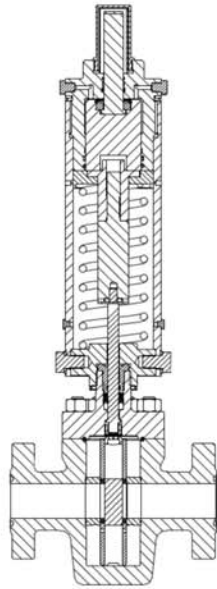


Features

- Zero Leak-The heart of this bidirectional valve is the GBW guide seal. This simple gate/seat assembly eliminates gate guides, seat skirts and springs. Instead , line pressure expands the seat assembly against the floating gate forming a true upstream seal.
- Low Torque-An independent stem nut allows the gate to float, maintaining contact with the seats without binding on the stem. Better retention of lubrication in the body cavity reduces buildup of contaminants which can increase torque.
- Longer Life-Protection against line laden will lengthen a valve's service life. Neway extensive metallurgy expertise ensure material selection will be suitable even for harsh CO2 or H2S applications.

Scope

Working Pressure	Size						
	1-13/16"	2-1/16"	2-9/16"	3-1/16"	4-1/16"	5-1/8"	7-1/16"
3000 psi				★	★	★	★
5000 psi				★	★	★	★
10000 psi	★	★	★	★	★	★	
15000 psi	★	★	★	★	★		
20000 psi	★	★	★	★			



Features

- Valve body pressure assist in closing valve.
- Back seat port for testing of metal to metal seating.
- Quick disconnect.
- Vent weep port above bonnet packing to detect stem packing integrity.
- Top shaft seals easily repaired in-line by removing upper piston assembly.
- Manufactured to Nace MR-0175 for effective operation under harsh environments.
- Non traveling seal design increases piston seals longevity.
- Piston cylinder and piston are electrolysis nickel plated for corrosion resistance.
- Hydraulic control port can be rotated 360 degrees for easy alignment.
- Metal-to-metal seal between bonnet and stem is designed to be secondary seal should high temperatures melt or distort bonnet stem packing.
- No small ports to plug up or freeze.
- Spring assist in closing with no valve body pressure.
- Actuator top shaft serves as a visual for position of gate.
- Can be installed as secondary master valve, wing valve, headers, gathering lines, pipelines or ESD valve.
- External Pressure Relief Device (PSE) to protect from over-pressure.

Scope

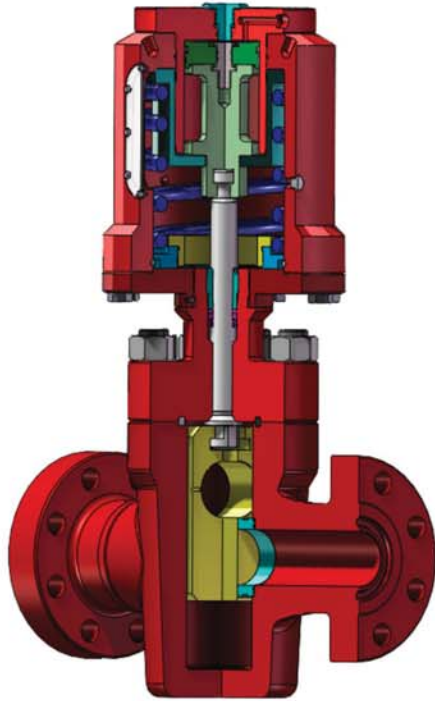
Working Pressure	Size							
	1-13/16"	2-1/16"	2-9/16"	3-1/16"	4-1/16"	5-1/8"	7-1/16"	9"
3000 psi	★	★	★	★	★	★	★	★
5000 psi	★	★	★	★	★	★	★	★
10000 psi	★	★	★	★	★	★	★	★
15000 psi	★	★	★	★	★	★	★	
20000 psi	★	★	★	★				

Actuator Accessories

- Mechanical Hold Open Hand Jack Assembly (Non Fusible)
- Mechanical Hold Open Hand Jack Assembly (Fusible)
- Fusible Lock Open Cap
- Limit Switch & Position Indicator
- Transparent Stem Protector
- Hydraulic Override

Standard AH Actuator Specification	
Model	AH
Size	AH 4.5 / AH 6.5 / AH 9.5
API Material Class	AA
Maximum Operating Pressure	3,000# PSI (207 Bars)
Relief Device Setting	3000 PSI (207 Bars) @ +72°F (+ 22°C)
Housing Test Pressure	6000 PSI (414 Bars)
API 6A Monogrammed	API 6A / ISO 10423
Operating Temperature	-20°F to +250°F (-28°C to +121°C)

Standard Bonnet Specification						
Pressure Ratings	API 6A 2,000# PSI thru 20,000# PSI					
Size	API 6A 1-13/16" thru 9"					
Material Class	AA	BB	CC	Non Nace/None Sour Service		
	DD-0.5	DD-1.5	DD-NL	EE-0.5	EE-1.5	EE-NL
	FF-0.5	FF-1.5	FF-NL	HH-0.5	HH-1.5	HH-NL
Product Specification Level	PSL 1, 2, 3, 3G, 4					
Temperature Rating	-50°F to 250°F (-46°C to +121°C)					



Features

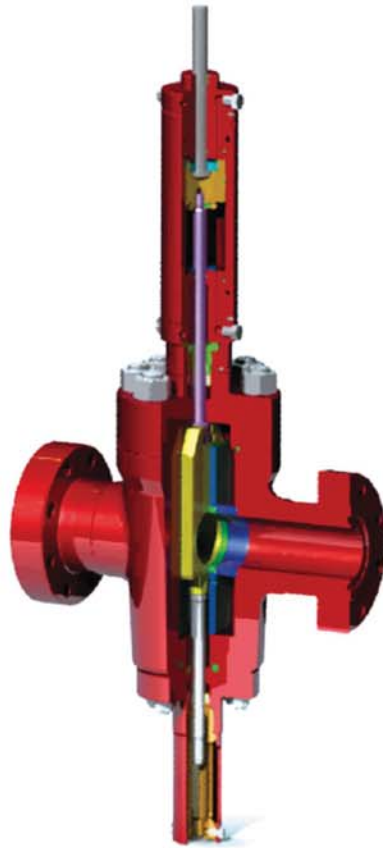
- Liberal use of wear rings in actuator assuring long life.
- Actuator has single forged top cap and cylinder for simple in-line maintenance.
- Quick disconnect mechanism allows for fast removal without disturbing the body / bonnet connection and provides immediate access to stem packing.
- Provides immediate access to stem packing.
- Anti-explosive decompression seals and energized non-elastomeric lip seals are available.
- Adjustable internal down-stop for gate alignment.
- A metal to metal seal between the bonnet and stem acts as a secondary seal if the stem packing is damaged.

Scope

Working Pressure	Size		
	3-1/16"	4-1/16"	5-1/8"
3000 psi		★	★
5000 psi	★	★	★
10000 psi	★	★	★
15000 psi	★		

Standard Piston Actuator Specification	
Model	AC
API Material Class	AA
Maximum Operating Pressure	3,000# PSI (207 Bars)
Relief Device Setting	3,000# PSI (207 Bars)
Housing Test Pressure	4500# PSI (310 Bars)
API 6A Monogrammed	API 6A / ISO 10423
Operating Temperature	- 20°F to +180°F (-28°C to +82°C)

Standard Bonnet Specification						
Pressure Ratings	API 6A 2,000# PSI thru 15,000# PSI					
Size	API 6A 1-13/16" thru 5-1/8"					
Material Class	AA	BB	CC	Non Nace/None Sour Service		
	DD-0.5	DD-1.5	DD-NL	EE-0.5	EE-1.5	EE-NL
	FF-0.5	FF-1.5	FF-NL	HH-0.5	HH-1.5	HH-NL
Product Specification Level	PSL 1, 2, 3, 3G, 4					
Temperature Rating	-50°F to 250°F (-46°C to +121°C)					



Features

- Back seat test port and packing detection port.
- Rising stem provides indication of gate valve position.
- Cylinder and piston are electrolysis nickel plated for corrosion resistance.
- External Pressure Relief Device (PSE) to protect from over-pressure.

Scope

Working Pressure	Size							
	1-13/16"	2-1/16"	2-9/16"	3-1/16"	4-1/16"	5-1/8"	7-1/16"	9"
3000 psi	★	★	★	★	★	★	★	★
5000 psi	★	★	★	★	★	★	★	★
10000 psi	★	★	★	★	★	★	★	★
15000 psi	★	★	★	★	★	★	★	
20000 psi	★	★	★	★				

Actuator Accessories

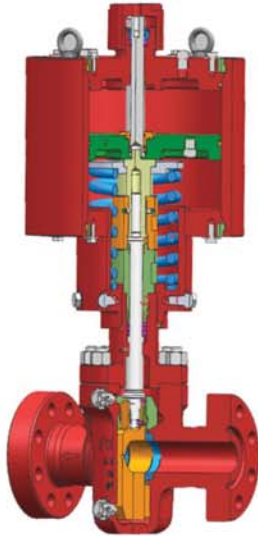
- Mechanical Hand Jack Assembly (Non Fusible)
- Fusible Lock Cap

Standard DH Actuator Specification

Model	DH
Size	DH 4.5 / DH 6.5 / DH 9.5
API Material Class	AA
Maximum Operating Pressure	3,000# PSI (207 Bars)
Relief Device Setting	3000 PSI (207 Bars) @ +72°F (+ 22°C)
Housing Test Pressure	6000 PSI (414 Bars)
API 6A Monogrammed	API 6A / ISO 10423
Operating Temperature	- 20°F to +250°F (-28°C to +121°C)

Standard Bonnet Specification

Pressure Ratings	API 6A 2,000# PSI thru 20,000# PSI					
Size	API 6A 1-13/16" thru 9"					
Material Class	AA	BB	CC	Non Nace/None Sour Service		
	DD-0.5	DD-1.5	DD-NL	EE-0.5	EE-1.5	EE-NL
	FF-0.5	FF-1.5	FF-NL	HH-0.5	HH-1.5	HH-NL
Product Specification Level	PSL 1, 2, 3, 3G, 4					
Temperature Rating	-50°F to 250°F (-46°C to +121°C)					



Features

- Valve is designed to close upon loss of control pressure.
- A metal to metal seal between the bonnet and stem acts as a secondary seal if the stem packing is damaged.
- Back seat port for gas testing of metal to metal seating.
- Vent weep port above the bonnet packing to detect stem packing integrity.
- An internal Pressure Relief Valve (PSE) helps provide tamper proof protection against overpressure. The internal PSE is set to relieve at a higher setting than the external PSE.
- Actuator top shaft serves as a visual for position of gate.
- Piston Housing is coated internally and externally with low friction coating, high corrosion resistance to oxidation and high temperatures. All other internal components are either stainless steel or coated to prevent corrosion from contamination.
- The AP Safety Valve is designed to be repaired and maintained in the field. Internal parts can be removed and changed without removing the valve assembly from the line.
- Top shaft seals easily repaired in line without removing piston housing.
- Spring assist in closing with no valve body pressure.
- Internal adjustable down stop.
- Quick disconnect.
- Manufactured to Nace MR-0175 for effective operation under harsh environments.

Scope

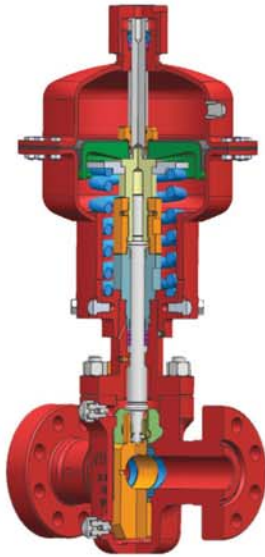
Working Pressure	Size						
	1-13/16"	2-1/16"	2-9/16"	3-1/16"	4-1/16"	5-1/8"	7-1/16"
3000 psi	★	★	★	★	★	★	★
5000 psi	★	★	★	★	★	★	★
10000 psi	★	★	★	★	★	★	★
15000 psi	★	★	★	★	★	★	
20000 psi	★	★	★	★			

Actuator Accessories

- Mechanical Hold Open Hand Jack Assembly (Non Fusible)
- Mechanical Hold Open Hand Jack Assembly (Fusible)
- Fusible Lock Open Cap
- Limit Switch & Position Indicator
- Transparent Stem Protector
- Hydraulic Override

Standard Piston Actuator Specification	
Model	AP
Size	AP1200 thru AP2000
API Material Class	AA
Maximum Operating Pressure	170 PSI (12 Bars)
Relief Device Setting	170 PSI (12 Bars) @ +72°F (+22°C)
Housing Test Pressure	225 PSI (18 Bars)
API 6A Monogrammed	API 6A / ISO 10423
Operating Temperature	- 20°F to +180°F (-28°C to +82°C)

Standard Bonnet Specification						
Pressure Ratings	API 6A 2,000# PSI thru 20,000# PSI					
Size	API 6A 1-13/16" thru 7-1/16"					
Material Class	AA	BB	CC	Non Nace/None Sour Service		
	DD-0.5	DD-1.5	DD-NL	EE-0.5	EE-1.5	EE-NL
	FF-0.5	FF-1.5	FF-NL	HH-0.5	HH-1.5	HH-NL
Product Specification Level	PSL 1, 2, 3, 3G, 4					
Temperature Rating	-50°F to 250°F (-46°C to +121°C)					



Features

- Rolling diaphragm design leads to longer seal life and reduces problems associated with moving O-Ring seals.
- Non stainless steel components are Xylan coated for longer wear life and maximum corrosion resistance.
- Manufactured to Nace MR-0175 for effective operation under harsh environments.
- Internal adjustable down stop.
- Spring assist in closing with no valve body pressure.
- Top shaft seals easily repaired in line without removing upper diaphragm case.
- External Pressure Relief Valve (PSE) for over pressure protection.
- Actuator top shaft serves as a visual for position of gate.
- Vent weep port above the bonnet packing to detect stem packing integrity.
- The AD Safety Valve are designed to be repaired and maintained in the field.
- Back seat port for testing of metal to metal seating.
- Valve is designed to close upon loss of control pressure.
- Operates with low pressure air, gas, and nitrogen.
- Quick disconnect.
- A metal to metal seal between the bonnet and stem acts as a secondary seal if the stem packing is damaged.

Scope

Working Pressure	Size						
	1-13/16"	2-1/16"	2-9/16"	3-1/16"	4-1/16"	5-1/8"	7-1/16"
3000 psi	★	★	★	★	★	★	★
5000 psi	★	★	★	★	★	★	★
10000 psi	★	★	★	★	★	★	★
15000 psi	★	★	★	★	★	★	

Actuator Accessories

- Mechanical Hold Open Hand Jack Assembly (Non Fusible)
- Mechanical Hold Open Hand Jack Assembly (Fusible)
- Fusible Lock Open Cap
- Limit Switch & Position Indicator
- Transparent Stem Protector
- Hydraulic Override

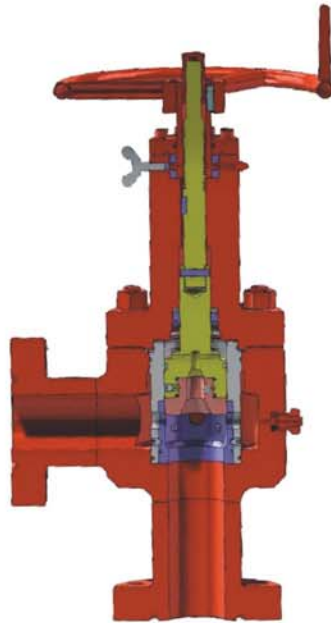
Standard Diaphragm Actuator Specification	
Model	AD
Size	AD1300 thru AD2000
API Material Class	AA
Maximum Operating Pressure	170 PSI(12 Bars)
Relief Device Setting	170 PSI (12 Bars) @ +72°F (+22°C)
Housing Test Pressure	225 PSI (18 Bars)
API 6A Monogrammed	API 6A / ISO 10423
Operating Temperature	- 20°F to +180°F (-28°C to +82°C)

Standard Bonnet Specification						
Pressure Ratings	API 6A 2,000# PSI thru 15,000# PSI					
Size	API 6A 1-13/16" thru 5-1/8"					
Material Class	AA	BB	CC	Non Nace/None Sour Service		
	DD-0.5	DD-1.5	DD-NL	EE-0.5	EE-1.5	EE-NL
	FF-0.5	FF-1.5	FF-NL	HH-0.5	HH-1.5	HH-NL
Product Specification Level	PSL 1, 2, 3, 3G, 4					
Temperature Rating	-50°F to 250°F (-46°C to +121°C)					

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.

Description

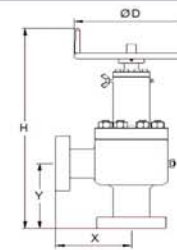
The Plug and Cage Choke has a plug that throttles the flow on the inside diameter of the ported cage. This choke is used for high capacity/medium pressure drop applications. Because of its high capacity, the Plug and Cage Choke is useful for flow optimization near the end of well life.



Features

- Tungsten carbide flow plug assembly in conjunction with cage sleeve provides optimum wear resistance in erosive conditions.
- Metal-to-metal bonnet closure seal.
- Fully guided plug minimizes side loading and vibration.
- Self-flushing, pressure-balanced ports minimize stem loads and actuator requirements. Heavy duty thrust bearings also reduce operating torque.
- Outer flow cage provides protection from impact damage.
- Stem lock maintains set position.
- Indicator calibrated in 1/64" or multiples of 1/64" increments to show effective orifice diameter.

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.



Dimensions for CAP

D: Handwheel diameter
 X: Bore centerline to inlet flange face
 Y: Bore centerline to outlet flange face
 H: Overall size

3,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/8"	3.13	79.4	15.75	400	10.39	264	11.22	285	34.84	885	386	175

5,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	15.75	400	8.74	222	10.87	276	27.95	710	309	140
2-9/16"	2.56	65.1	15.75	400	10.51	267	12.52	318	30.71	780	342	155
3-1/8"	3.13	79.4	15.75	400	10.39	264	11.61	295	35.43	900	392	178
4-1/16"	4.06	103.2	15.75	400	11.89	302	15.98	406	39.37	1000	476	216
5-1/8"	5.13	130.2	24.02	610	14.25	362	19.37	492	40.16	1020	849	385

10,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	15.75	400	8.74	222	10.87	276	27.95	710	320	145
2-9/16"	2.56	65.1	15.75	400	10.51	267	12.52	318	30.71	780	364	165
4-1/16"	4.06	103.2	15.75	400	10.00	254	11.54	293	33.98	863	560	254

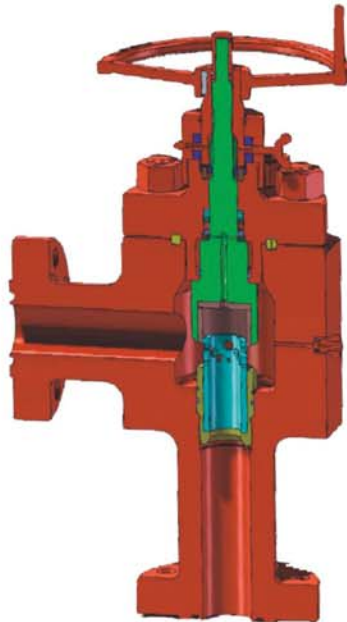
15,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	15.75	400	8.74	222	10.87	276	27.95	710	331	150
3-1/16"	3.06	77.8	15.75	400	11.46	291	12.52	318	34.84	885	763	346

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.

Description

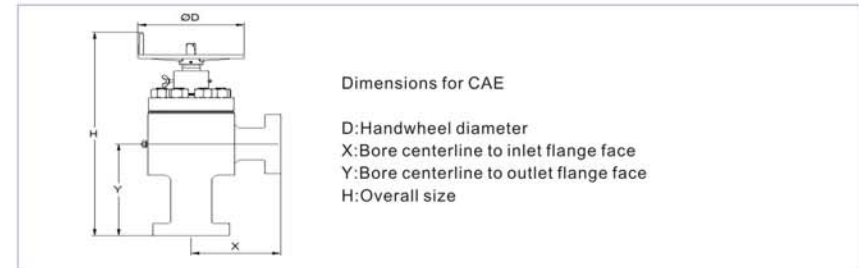
The External Sleeve Control Choke has a sleeve that throttles the flow on the outside diameter of the ported cage. This choke is used for low capacity/high pressure drop applications. The external sleeve is specifically designed for severely erosive conditions where the combination of high pressure drops and high sand concentrations can reduce the life of a choke.



Features

- Tungsten carbide lined stem and seat provide optimum wear resistance in erosive conditions.
- Metal-to-metal bonnet closure seal.
- Reverse angle trim reduces annular flow-by extending the life of the trim.
- Self-flushing, pressure-balanced ports minimize stem loads and actuator requirements. Heavy duty thrust bearings also reduce operating torque.
- Outer Flow Sleeve provides protection from impact damage.
- Stem lock maintains set position.
- Indicator calibrated in 1/64" or multiples of 1/64" increments to show effective orifice diameter.

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.



10,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	15.75	400	11.81	300	12.13	308	33.86	860	304	138

15,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/16"	3.06	77.8	15.75	400	13.46	342	17.76	451	39.25	997	1019	462

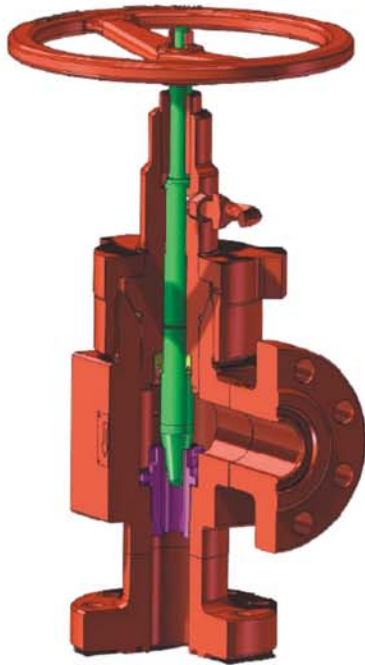
20,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/16"	3.06	77.8	15.75	400	14.96	380	15.51	394	38.43	976	970	440

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.

Description

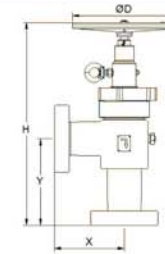
The adjustable needle choke has a standard body with an adjustable bonnet assembly and seat installed. This assembly features a tungsten carbide-tipped needle, tungsten carbide-lined seat, and an indicator calibrated in 1/64" or multiple of 1/64" to show effective orifice diameter. A needle lock device retains needle position.



Features

- Bleed valve allows the operator to safely vent the body cavity pressure prior to removal of the bonnet assembly.
- Body pressure is automatically vented when the operator unscrews the bonnet nut one turn.
- ACME threads can be cleaned and inspected easily on both the bonnet assembly and body.
- CAN type choke prevents bonnet seal extrusion by means of body-to-bonnet contact behind the O-ring seal.
- The bean/seat has been recessed in the body below the inlet flow path for longer life.

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.



Dimensions for CAN

D: Handwheel diameter
X: Bore centerline to inlet flange face
Y: Bore centerline to outlet flange face
H: Overall size

3,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	12.99	330	8.74	222	10.87	276	24.88	632	172	78
3-1/8"	3.13	79.4	12.99	330	10.39	264	11.61	295	27.56	700	249	113
4-1/16"	4.06	103.2	15.75	400	11.89	302	15.98	406	33.98	863	401	182
7-1/16"	7.13	181.0	7.09	180	14.25	362	19.37	492	38.27	972	791	359

5,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	12.99	330	8.74	222	10.87	276	25.43	646	187	85
2-9/16"	2.56	65.1	12.99	330	10.51	267	12.01	305	28.74	730	220	100
3-1/8"	3.13	79.4	15.75	400	10.39	264	11.61	295	31.65	804	287	130
4-1/16"	4.06	103.2	15.75	400	11.89	302	15.98	406	34.72	882	452	205
5-1/8"	5.13	130.2	18.90	480	14.25	362	19.37	492	38.27	972	833	378
7-1/16"	7.06	179.4	18.90	480	14.25	362	19.37	492	38.27	972	833	378

10,000 psi Working Pressure

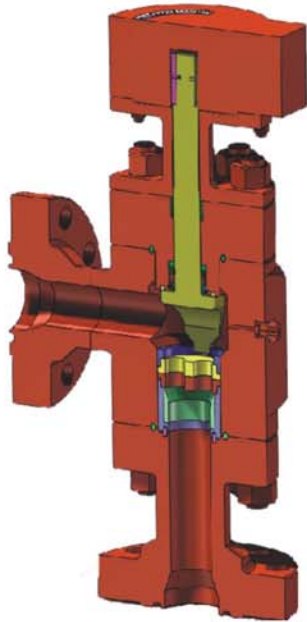
Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	12.99	330	7.68	195	8.74	222	23.62	600	163	74
2-9/16"	2.56	65.1	15.75	400	10.51	267	12.52	318	25.59	650	243	110
3-1/16"	3.06	77.8	8.66	220	10.39	264	11.61	295	28.46	723	370	168
4-1/16"	4.06	103.2	19.69	500	11.89	302	15.98	406	29.53	750	430	195

Multiple Orifice Choke CM

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.

Description

The Multiple Orifice Chokes utilize a set of adjacent discs, each containing a pair of circular opening orifices. The two discs are diamond lapped on the mating surfaces to tolerances near two high bands of flatness. This allows for extremely precise shutoff and flow regulation.

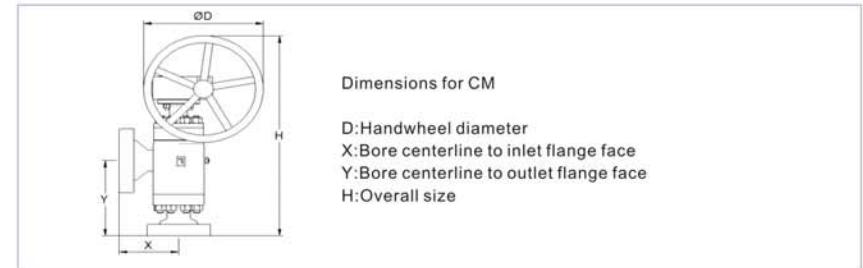


Features

- Pressure holds discs together, avoid vibration, noise or fatigue failures.
- The circular shape of disc offers a smaller wearing surface, less wear on the throttling and greatly extended service life.
- Very little downtime for maintenance.
- Tungsten carbide discs are offered for extreme erosive conditions and very high pressure drops.
- The outlet end of a Multiple Orifice Choke has a replaceable adapter flange, the customer can changes it in accordance with different pressure ratings and sizes.

CM Multiple Orifice Choke

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.



Dimensions for CM

D: Handwheel diameter
 X: Bore centerline to inlet flange face
 Y: Bore centerline to outlet flange face
 H: Overall size

5,000 psi Working Pressure

Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4-1/16"	4.06	103.2	23.62	600	11.93	303	16.89	429	44.49	1130	794	360

15,000 psi Working Pressure

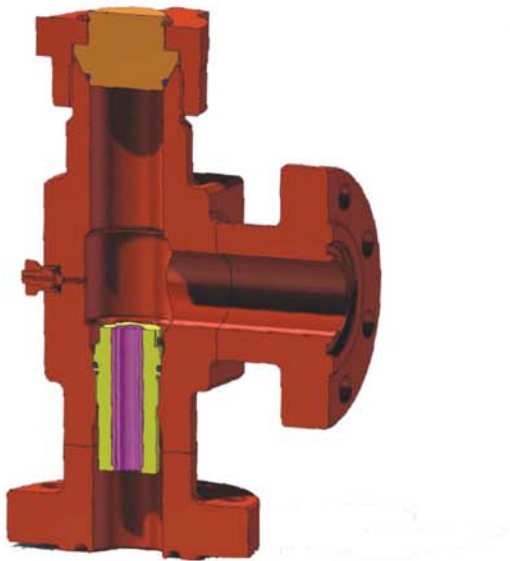
Size	Bore		D		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/16"	3.06	77.8	12.80	325	12.80	325	37.20	945	37.20	945	1080	490
4-1/16"	4.06	103.2	23.62	600	13.50	343	19.69	500	48.43	1230	794	360

Positive Choke CP

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.

Description

Positive Choke provides a fixed flow condition with a large selection of available bean sizes and types. All standard positive chokes under 15000psi wp are furnished with a blanking plug that has a 1/2" NPT port for attaching a needle valve and/or pressure gauge. Positive chokes 15000psi wp and over are supplied with a 9/16" autoclave port.

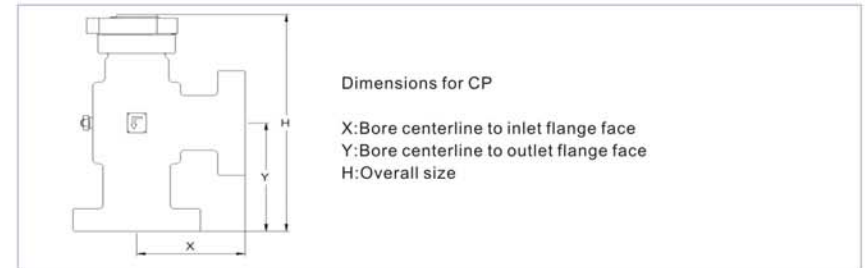


Features

- Positive choke bodies are interchangeable with adjustable needle choke.
- Bleed valve allows the operator to safely vent the body cavity pressure prior to removal of the bonnet assembly.
- Body pressure is automatically vented when the operator unscrews the bonnet nut one turn.
- ACME threads can be cleaned and inspected easily on both the bonnet assembly and body.
- CAN type choke prevents bonnet seal extrusion by means of body-to-bonnet contact behind the O-ring seal.
- The bean/seat has been recessed in the body below the inlet flow path for longer life.

CP Positive Choke

Neway choke products include plug and cage choke, external sleeve choke, adjustable needle choke, positive choke and multiple orifice choke.



3,000 psi Working Pressure

Size	Bore		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
7-1/16"	7.06	179.4	14.25	362	19.37	492	29.17	741	505	229

5,000 psi Working Pressure

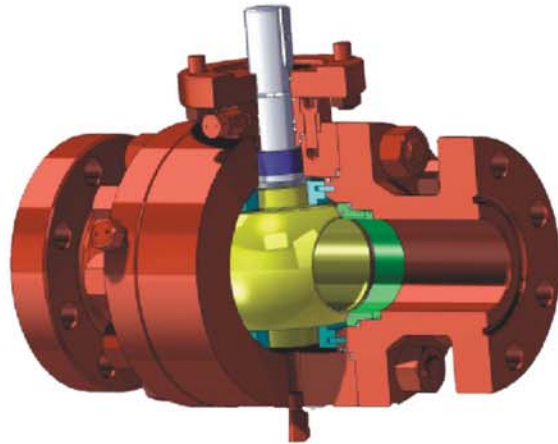
Size	Bore		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2-9/16"	2.56	65.1	10.55	268	12.52	318	20.87	530	198	90
3-1/8"	3.13	79.4	10.39	264	11.61	295	20.16	512	254	115
7-1/16"	7.06	179.4	14.25	362	19.37	492	29.17	741	604	274

10,000 psi Working Pressure

Size	Bore		X		Y		H		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2-9/16"	2.56	65.1	10.51	267	12.52	318	20.87	530	220	100
3-1/16"	3.13	77.8	9.06	230	11.02	280	22.05	560	282	128
4-1/16"	4.06	103.2	10.00	254	11.50	292	21.18	538	381	173

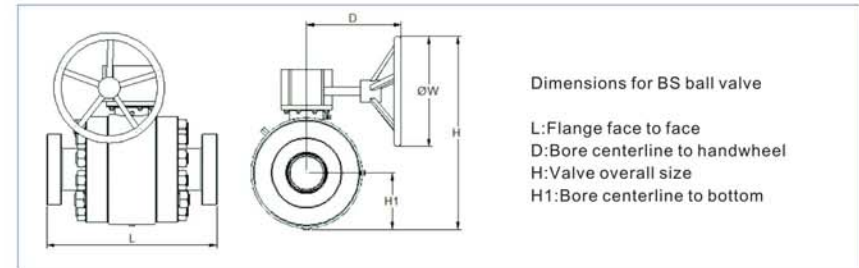
Description

NOE Trunnion Mounted soft sealing Ball Valve is supplied for two-piece or three-piece split body, all design is based on standard API 6A&ISO 10423. Flow shut off can be achieved by rotating the ball 90 degrees.



Features

- Two O-ring seals prevents leakage from stem area.
- Emergency Sealant Injection Fitting: Allow external interventions to prevent stem leakage.
- Blow-out Proof Stem(internally inserted): Safety feature that functions to assure stem sealing at all pressures.
- Emergency Sealant Injection Fitting: Allows for external intervention to prevent seat leakage.
- Back-up Metal to Metal Sealing: When primary soft-seat material is deteriorated by fire, the metal-to-metal provides shutoff.
- O-ring & Gasket Combination: Prevents leakage from body joint area.
- Floating Spring-loaded Seats: Ensure sealing even at low pressures.
- Anti-Static Device: Anti-static device ensures electric continuity preventing damage from static build-up.



3,000 psi Working Pressure

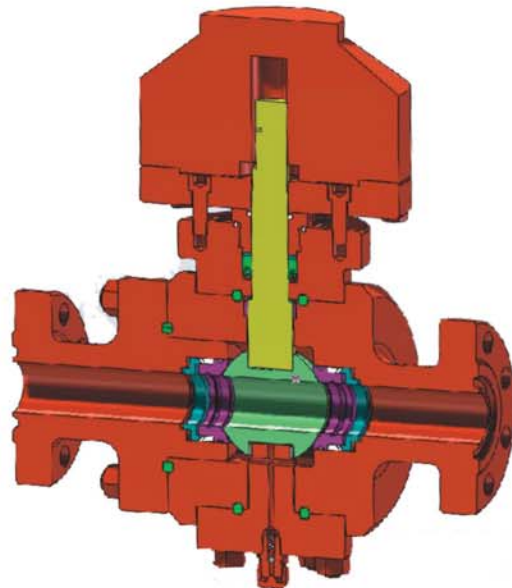
Size	Bore		L		D		H1		H		W		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	17.87	454	9.06	230	5.20	132	19.76	502	11.81	300	220	100
3-1/8"	3.13	79.4	25.00	635	16.54	420	7.91	201	29.53	750	19.69	500	728	330
4-1/16"	4.06	103.2	22.13	562	16.54	420	7.87	200	29.33	745	19.69	500	672	305
7-1/16"	7.06	179.4	37.40	950	20.87	530	13.86	352	47.83	1215	27.56	700	3549	1610

5,000 psi Working Pressure

Size	Bore		L		D		H1		H		W		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	17.87	454	10.63	270	6.34	161	24.06	611	15.75	400	309	140
3-1/8"	3.13	79.4	25.98	660	16.54	420	7.91	201	29.53	750	19.69	500	761	345
4-1/16"	4.06	103.2	26.89	683	16.54	420	7.99	203	29.72	755	19.69	500	882	400
7-1/16"	7.06	179.4	40.98	1041	20.87	530	13.86	352	47.83	1215	27.56	700	3638	1650
9"	9.00	228.6	46.06	1170	25.59	650	15.35	390	52.56	1335	29.92	760	5864	2660

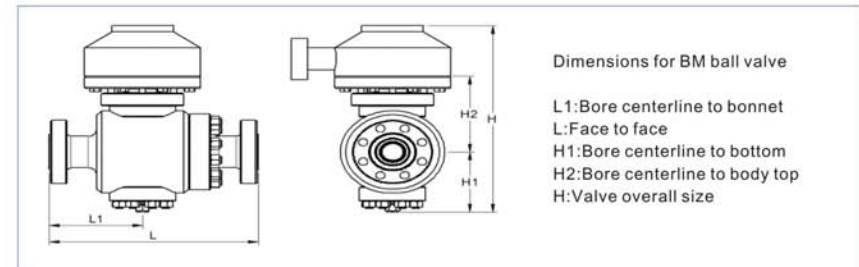
Description

Metallic sealing ball valve is designed to suit severe conditions, such as high temperature, high pressure, strong corrosive fluid and the medium with solid phase particles. It is value-engineered for reliability, low pressure loss, ease of operation and has long service time.



Features

- Low leakage graphite packing.
- Surface harding treatment between ball and seat, it meets the requirement of high temperature abrasive wear and high impact resistance.
- Floating Spring-loaded Seats: Ensure sealing even at low pressures.
- Blow-out Proof Stem(internally inserted): Safety feature that functions to ensure stem sealing at all pressures.
- The top flange is designed according to ISO 5211, it is available for installation with either gear box or power drive mechanism.



5,000 psi Working Pressure

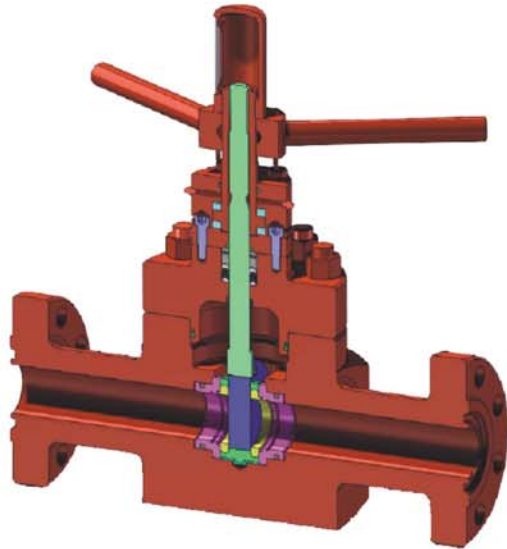
Size	Bore		L		L1		H		H1		H2		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/8"	3.13	79.4	18.62	473	8.03	204	29.02	737	7.99	203	8.35	212	613	278

10,000 psi Working Pressure

Size	Bore		L		L1		H		H1		H2		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.81	46.0	20.24	514	7.96	202	34.25	570	8.29	210	10.16	258	866	393
2-1/16"	2.06	52.4	20.51	521	9.17	233	26.69	678	7.48	190	9.37	238	529	240

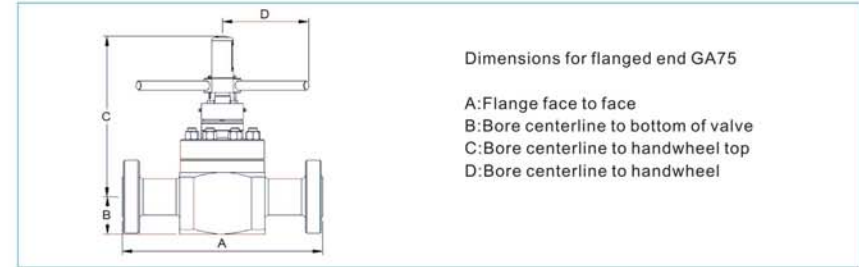
Description

The GA75 Series Mud Valve is designed to meet the 7,500 psi working pressure demands of deep well drilling. It is chosen for the following drilling applications: standpipe manifolds, pump manifolds, pump manifold block valves, high pressure drilling system block valves and high pressure frac service. This Valve is available in sizes 2-1/16" to 5-1/8" with butt weld end or flanged end connections.



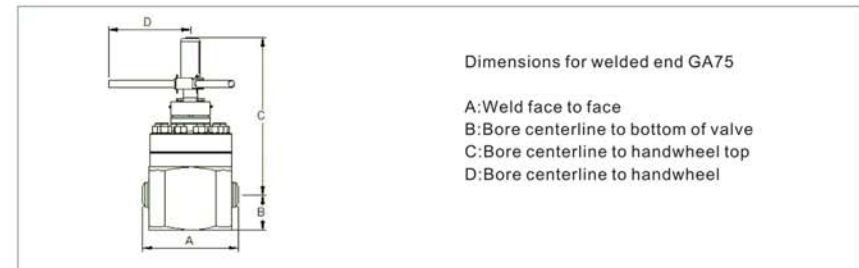
Features

- Unique abrasion-resistant one piece seat and metal wear rings ensure positive seal performance for extended service.
- Replaceable one piece seat and metal wear rings eliminate costly valve removal.
- In Line Field Repairability, bonnet is easily removed for internal parts inspection and/or replacement without removing the valve from the line.
- Include a sight lens to view the stem for determining gate position.
- Locking seat design ensures alignment and minimum resistance to flow.
- Flow-cleansed body cavity eliminates sanding problems.
- Floating slab gate design.



7,500 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	20.51	521	4.02	102	17.36	441	9.96	253	265	120
2-9/16"	2.56	65.1	22.24	565	4.72	120	20.08	510	11.02	280	417	189
3-1/16"	3.06	77.8	24.38	619	5.39	137	22.36	568	11.02	280	562	255
4-1/16"	4.06	103.2	26.38	670	6.22	158	24.80	630	9.53	242	739	335
5-1/8"	5.13	130.2	29.00	737	7.17	182	33.94	862	10.00	254	1404	637

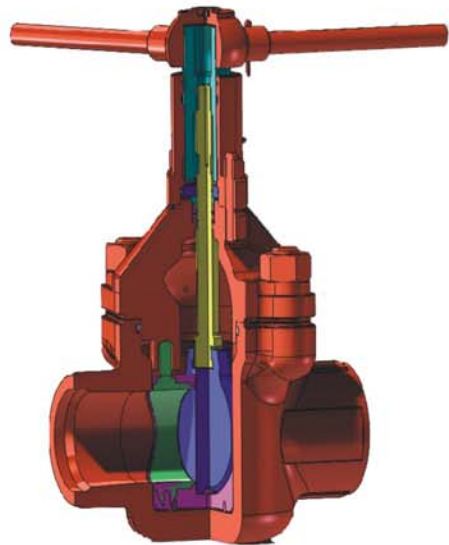


7,500 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.00	50.8	9.00	229	4.02	102	13.03	331	9.96	253	260	118
3-1/16"	3.00	76.2	13.00	330	5.39	137	22.36	568	11.02	280	430	195
4-1/16"	4.00	101.6	16.00	406	6.22	158	24.80	630	9.53	242	529	240
5-1/8"	5.00	127.0	17.88	454	7.17	182	33.94	862	10.00	254	1102	500

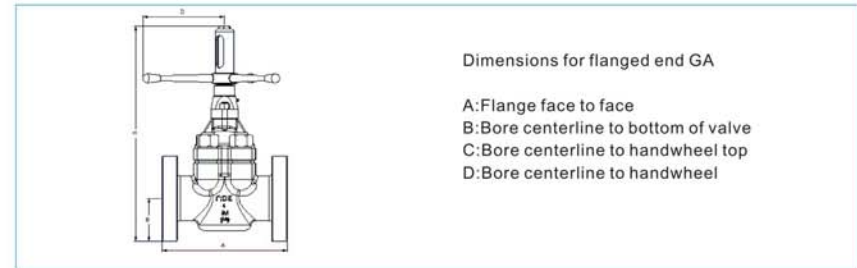
Description

The GA series mud valve specifically engineered for the rigorous requirements of oilfield applications. It is designed for dependable, heavy duty performance in abrasive service conditions. It is available in pressure ratings from 2000 to 5000psi and bore sizes from 2-1/16" to 4-1/16".



Features

- The valve should be either fully open or fully closed while in service. Flow through a partially open valve may erode the gate and seat.
- In Line Field Repairability, the bonnet is easily removed for internal parts inspection and/or replacement without removing the valve from the line.
- Flexible trim offerings: Optional materials for stems, gates, seat inserts and seat elastomers make it easier to trim valves for a wide range of service conditions.
- The rising stem design protects the stem threads from lading.
- Include a sight lens to view the stem for determining gate position.
- The seat uses a unique design to ensures a tight seat seal against the body and around each valve port and has proven to be effective even if the gate and seat ring become scored or abraded during service.



Dimensions for flanged end GA

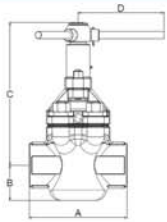
- A: Flange face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Bore centerline to handwheel

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/8"	3.13	79.4	17.13	435	4.92	125	17.72	450	19.02	483	298	135
4-1/16"	4.06	103.2	14.13	359	4.72	120	16.93	430	19.02	483	179	81

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4-1/16"	4.06	103.2	17.99	457	6.10	155	24.65	626	22.99	584	374	170



Dimensions for threaded end GA

- A: Thread face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Bore centerline to handwheel

2,000 psi Working Pressure

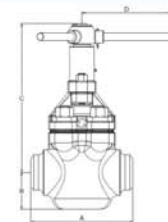
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
5-1/8"	5.13	130.2	16.00	406	5.55	141	31.61	803	24.02	610	402	183

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4-1/16"	4.06	103.1	13.03	331	4.69	119	19.02	483	22.91	582	207	94
5-1/8"	5.13	130.2	15.98	406	5.55	141	31.61	803	24.02	610	403	183

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.09	53.1	8.98	228	2.56	65	13.58	345	12.52	155	74	35
4-1/16"	4.06	104.0	13.00	330	4.59	116	24.61	625	11.50	292	254	115



Dimensions for welded end GA

- A: Weld face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Bore centerline to handwheel

3,000 psi Working Pressure

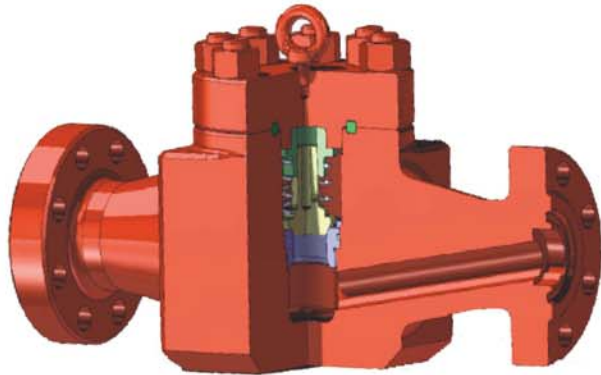
Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4-1/16"	4.09	104.0	13.03	331	4.70	119	19.01	483	22.91	582	207	94

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.0	8.98	228	2.56	65	13.59	345	12.21	310	73	33
3-1/8"	3.11	79.0	10.98	279	3.94	100	17.72	450	9.45	240	132	60
4-1/16"	4.06	104.0	13.00	330	4.59	117	24.61	625	11.50	292	254	115

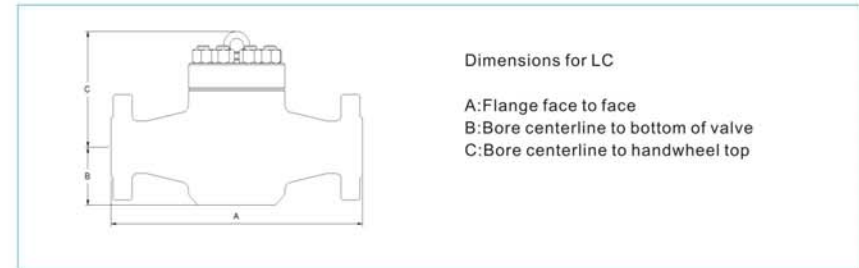
Description

LC Series Check Valve is a unidirectional check valve which utilizes a spring loaded Poppet. The Poppet is guided for consistent, reliable operation and seating. This Valve is designed for installation and use in high-pressure Mud Choke Manifolds, and high pressure Christmas Tree Injection and Kill Lines. It is available in pressure ratings from 2000 to 20,000 psi and Bore sizes of 1-13/16" to 7-1/16".



Features

- Although the preferred orientation of installation is vertical, the check valve can operate equally well in the horizontal orientation with its spring loaded Poppet.
- The Check Valves are available with a variety of end connections. Flanged, Clamp Hub and Butt Weld connections or any combination of these are available.
- Metal sealing between disc and seat offers advantages over elastomeric seals in applications where chemical and well fluid attack and extreme temperatures are factors.
- Streamlined valve seat area results in less flow turbulence and improves body longevity.
- Low Maintenance Operation: The Check Valve is non-lubricated and requires no routine maintenance.



3,000 psi Working Pressure

Size	Bore		A		B		C		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	4.61	117	8.58	218	179	81
3-1/8"	3.13	79.4	15.12	384	4.72	120	9.76	248	216	98
4-1/16"	4.06	103.2	18.11	460	5.91	150	8.27	210	298	135
7-1/16"	7.05	179.0	29.02	737	9.06	230	14.69	373	992	450

5,000 psi Working Pressure

Size	Bore		A		B		C		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	4.61	117	7.28	185	183	83
2-9/16"	2.56	65.1	16.61	422	6.00	153	8.27	210	220	100
3-1/8"	3.13	79.4	18.62	473	5.51	140	8.66	220	265	120
4-1/16"	4.06	103.2	21.61	549	7.09	180	9.96	253	547	248
7-1/16"	7.05	179.0	29.02	737	9.06	230	16.77	426	1190	540

10,000 psi Working Pressure

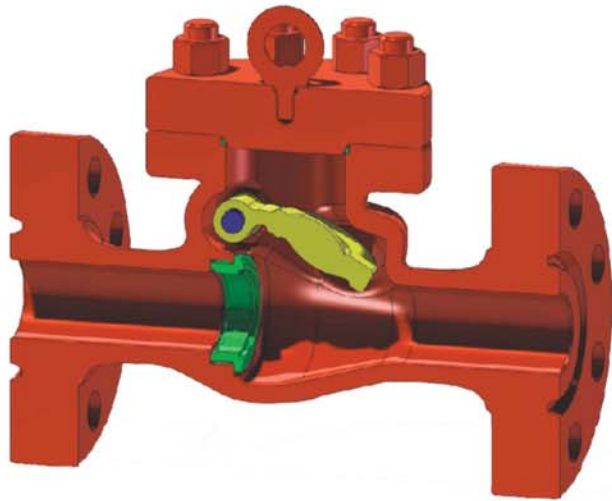
Size	Bore		A		B		C		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
1-13/16"	1.81	46.1	18.27	464	4.33	110	7.60	193	225	102
2-1/16"	2.06	52.4	20.51	521	4.33	110	7.60	193	313	142
2-9/16"	2.56	65.1	22.24	565	4.96	126	8.78	223	295	134
3-1/16"	3.06	77.8	24.37	619	5.71	145	8.98	228	353	160

15,000 psi Working Pressure

Size	Bore		A		B		C		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
3-1/16"	3.06	77.8	23.54	598	6.69	170	12.05	306	705	320
4-1/16"	4.06	103.2	29.02	737	10.28	261	13.90	353	1091	495

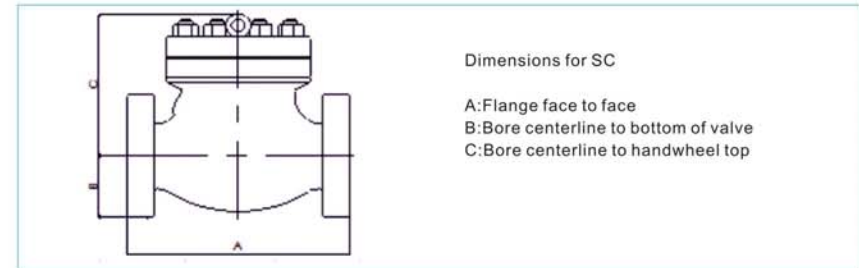
Description

The swing check valve is a unidirectional valve and always installed in the horizontal orientation. The valve opened or closed by virtue of flow force and chosen for clean liquid. It is available in pressure ratings from 2000-5000psi and bore sizes of 2-1/16" to 7-1/16".



Features

- A hinge and hinge pin provided and mounted so as to permit full movement of the disc.
- Standard renewable seal welded seat with stellite 6.
- Standard swing disc type used in horizontal position for liquid service applications.
- There is a reserved standard boss at the bottom of body center line.



3,000 psi Working Pressure

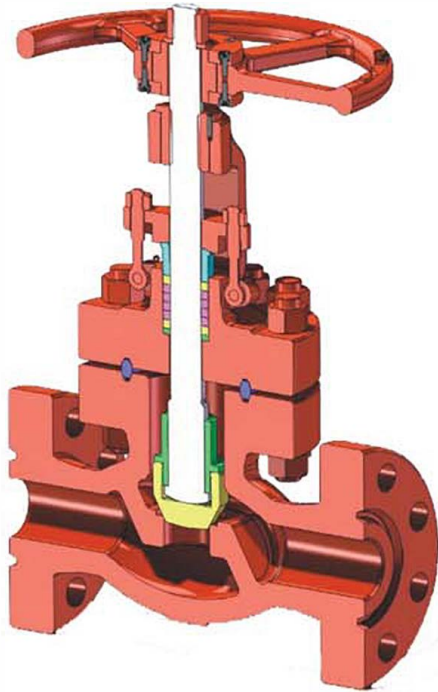
Size	Bore		A		B		C		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	4.25	108	8.54	217	106	48
4-1/16"	4.06	103.2	20.12	511	5.71	145	13.07	332	434	197
7-1/16"	7.0	179.0	24.13	613	7.48	190	15.75	400	681	309
9"	7.44	189.0	31.50	800	9.25	235	18.50	470	1272	577

5,000 psi Working Pressure

Size	Bore		A		B		C		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	4.23	108	9.17	233	121	55

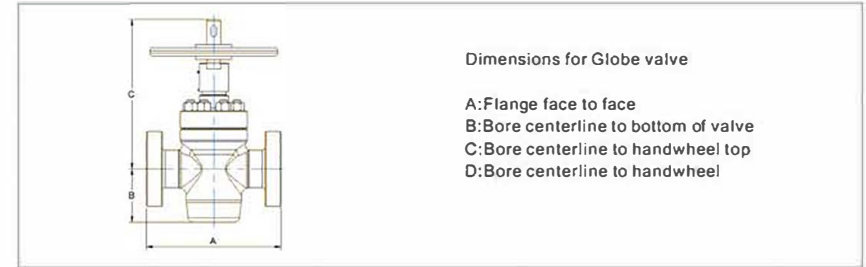
Description

The globe valve is a unidirectional valve, with simple structure and ease of maintenance. The valve has a very short stroke and reliable cutting function and it is also well controlled for flow regulation.



Features

- Impact handwheel supplied at manufacture's option or on customer request.
- Anti blow-out stem design with conical backseat surface to permit repacking of valve in the fully open position.
- Plug seat surface is standard disc design as well as spherical and flat seating surface is optional on customer request.
- Seat face with stellite 6 is standard design.



Dimensions for Globe valve

- A: Flange face to face
- B: Bore centerline to bottom of valve
- C: Bore centerline to handwheel top
- D: Bore centerline to handwheel

3,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	5.28	134	18.70	475	14.00	350	198	90
4-1/16"	4.06	103.2	20.12	511	9.37	238	20.47	520	18.00	450	595	270
7-1/16"	7.05	179.0	28.11	714	7.87	200	32.09	815	-	Gear Box	1179	535

5,000 psi Working Pressure

Size	Bore		A		B		C		D		Weight	
	in	mm	in	mm	in	mm	in	mm	lb	mm	lb	kg
2-1/16"	2.06	52.4	14.61	371	4.25	108	18.70	475	14.00	350	198	90
3-1/8"	3.13	79.4	18.62	473	7.44	189	16.93	430	18.00	450	386	175
7-1/16"	7.05	179.0	41.93	1065	7.67	200	57.28	1455	-	Gear Box	2646	1200