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DHV®

Wellhead Valves

Catalogue No: A4-02

DHV Figure Numbers

Code

W = Wellhead Valves

Type

1 = Slab Gate Valves
2 = Expanding Gate Valves
3 = Needle Adjustable Choke
4 = External Sleeve Adjustable Choke
5 = Positive Choke
6 =Check Valves
7 = Mud Gate Valves
8 = Plug and Cage Choke Valves
9 = Ball Valves
X = Special

Body Material

A = AA
B = BB
C = CC
D = DD
E = EE
F = FF
H = HH

2 1/16 " Wellhed Expanding Gate Valve, 5000psi, DD Body Material ,Class PSL-1, PR-1,U Temperature Rating,Threaded End

Example: 21/16”-W205D11UT

Pressure Class

02 =2000psi
03 =3000psi
05 =5000psi
10 =10000psi
20 =20000psi
51 =150LB
53 =300LB
56 =600LB
58 =800LB
59 =900LB
65 =1500LB
75 =2500LB

Product Specification Level

1 = PSL1
2 = PSL2
3 = PSL3
4 = PSL4

Performance Requirement Level

1 = PR1
2 = PR2

Temperature Rating

K, L, P, R, S, T, U, V

End Connection

F = RF (B16.5)
J = RTJ (API 6A)
R = RTJ (B16.5)
T = Threaded End
U = Union
W = Welded End
X = Special

Slab Gate Valve

Features:

- Metal to Metal Seal
- Parallel Gate and Seal With Preloaded Spring.
- Positive Upstream and Downstreams seal.
- Double Block and Bleed Capability.
- Automatic Relief of excess body pressure.
- The full port design allows for pigging or hot tapping.

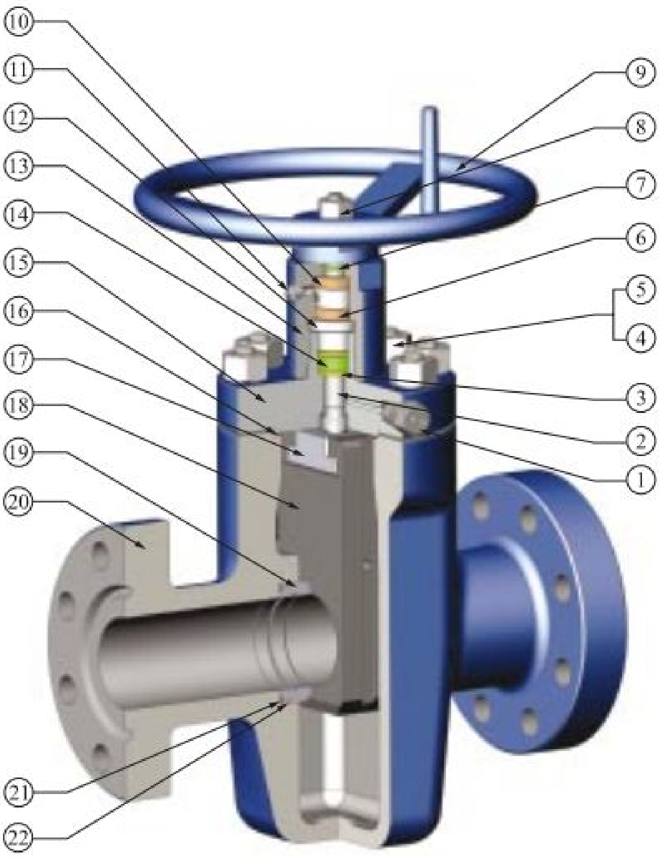
Specifications:

	Non-rising stem gate valve	*Rising stem gate valve*
• Basic Design and Test	**API-6A**	**API-6A**
• Working Pressure (Psi)	**2000, 3000, 5000, 10000, 15000**	**10000, 15000**
• Main Nominal Size	**1-13/16, 2-1/16, 2-9/16, 3-1/16, 3-1/8 4-1/16, 5-1/8, 7-1/16**	**1-13/16, 2-1/16, 2-9/16, 3-1/16, 3-1/8 4-1/16, 5-1/8, 7-1/16**
• Product Specification Level	**PSL1, PSL2, PSL3, PSL3G**	**PSL1, PSL2, PSL3, PSL3G**
• Performance Requirement Level	**PR1, PR2**	**PR1, PR2**
• Material Class	**AA, BB, CC, DD, EE, FF,HH**	**AA, BB, CC, DD, EE, FF,HH**
• Working Temperature	**-20°F~250°F (P~U)**	**-20°F~250°F (P~U)**

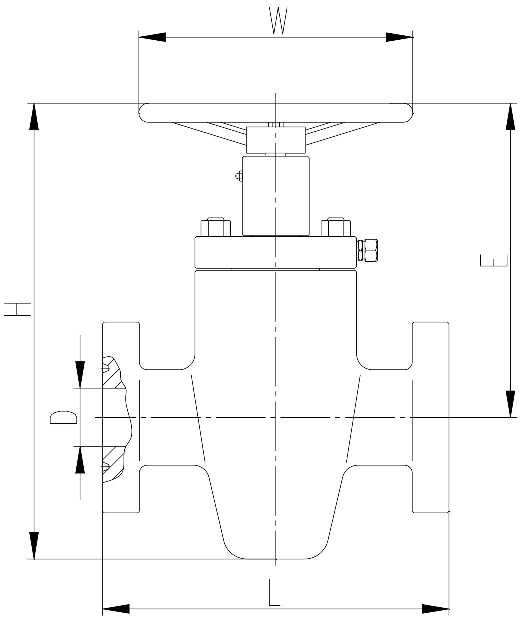
Parts List

No	Name	Material
1	STEM INJECTION FITTING	AISI 4140
2	STEM	AISI 4135
3	GLAND RING	COPPER
4	BOLT	ASTM A 193 B7M
5	NUT	ASTM A 194 2HM
6	BEARING	STEEL
7	DUST SEAL	PTFE
8	HANDWHEEL NUT	ASTM A 194 2HM
9	HANDWHEEL	CARBON STEEL
10	BEARING	STEEL
11	GREASE ZERK	STAINLESS STEEL
12	PACKING GLAND	ASTM A276 420
13	BEARING HOUSING	AISI 1045
14	STEM PACKING	PTFE WITH GRAPHITE
15	BONNET	AISI 4130
16	BONNET GASKET	SPIRAL WOUND 316SS GRAPHITE
17	STEM NUT	ASTM A276 410
18	GATE	ASTM A276 410+NITRIDED
19	SEAT	ASTM A276 410+NITRIDED
20	BODY	AISI 4130
21	SEAT SPRING	INCONEL X-750
22	O-RING	VITON-B

Other trim and body material are available upon request.



Slab Gate Valve



Dimensions

2000Psi

NPS	L	D	E	H	W
	in mm	in mm	in mm	in mm	in mm
2 1/16"	11.62	2.06	12.44	17.83	9.84
	295	52.3	316	453	250
2 9/16"	13.12	2.56	13.86	20.08	9.84
	333	65.0	352	510	250
3 1/8"	14.12	3.12	14.61	22.01	12.76
	359	79.3	371	559	324
4 1/16"	17.12	4.06	15.94	25.00	12.76
	435	103.1	405	635	324
5 1/8"	22.12	5.12	22.56	33.94	19.69
	562	130.1	573	862	500
71/16"	26.12	7.06	34.25	48.23	23.62
	664	179.3	870	1225	600

3000Psi

NPS	L	D	E	H	W
	in mm	in mm	in mm	in mm	in mm
2 1/16"	14.62	2.06	12.44	17.83	12.76
	371	52.3	316	453	324
2 9/16"	16.62	2.56	15.87	22.32	12.76
	422	65.0	403	567	324
3 1/8"	17.12	3.12	15.55	22.76	12.76
	435	79.3	395	578	324
4 1/16"	20.12	4.06	18.31	27.76	12.76
	511	103.1	465	705	324
5 1/8"	24.12	5.12	22.56	33.94	23.62
	613	130.1	573	862	600
7 1/16"	28.12	7.06	34.25	48.23	27.56
	714	179.3	870	1225	700

5000Psi

NPS	L	D	E	H	W
	in mm	in mm	in mm	in mm	in mm
2 1/16"	14.62	2.06	12.44	17.83	12.76
	371	52.3	316	453	324
2 9/16"	16.62	2.56	15.87	22.32	12.76
	422	65.0	403	567	324
3 1/8"	18.62	3.12	15.55	22.76	12.76
	473	79.3	395	578	324
4 1/16"	21.62	4.06	19.69	29.13	19.69
	549	103.1	500	740	500
5 1/8"	28.62	5.12	25.24	38.39	27.56
	727	130.1	641	975	700
71/16"	32.00	7.06	41.50	55.51	41.34
	813	179.3	1054	1410	1050

10000Psi

NPS	L	D	E	H	W
	in mm	in mm	in mm	in mm	in mm
2 1/16"	20.50	2.06	16.34	22.05	15.75
	521	52.3	415	560	400
2 9/16"	22.25	2.56	17.24	24.02	17.72
	565	65.0	438	610	450
3 1/16"	24.38	3.06	18.39	26.06	17.72
	619	77.7	467	662	450
4 1/16"	26.38	4.06	21.26	31.30	23.62
	670	103.1	540	795	600

15000Psi

NPS	L	D	E	H	W
	in mm	in mm	in mm	in mm	in mm
2 1/16"	19.00	2.06	22.48	28.39	15.75
	483	52.3	571	721	400
2 9/16"	21.00	2.56	28.74	36.50	17.72
	533	65.0	730	927	450
3 1/16"	23.56	3.06	27.40	37.05	17.72
	598	77.7	696	941	450
4 1/16"	29.00	4.06	31.30	42.99	19.69
	737	103.1	795	1092	500

Note: ***1. Data listed above is for reference only.***
2. H for 10000psi and above valves is consided as gear operated

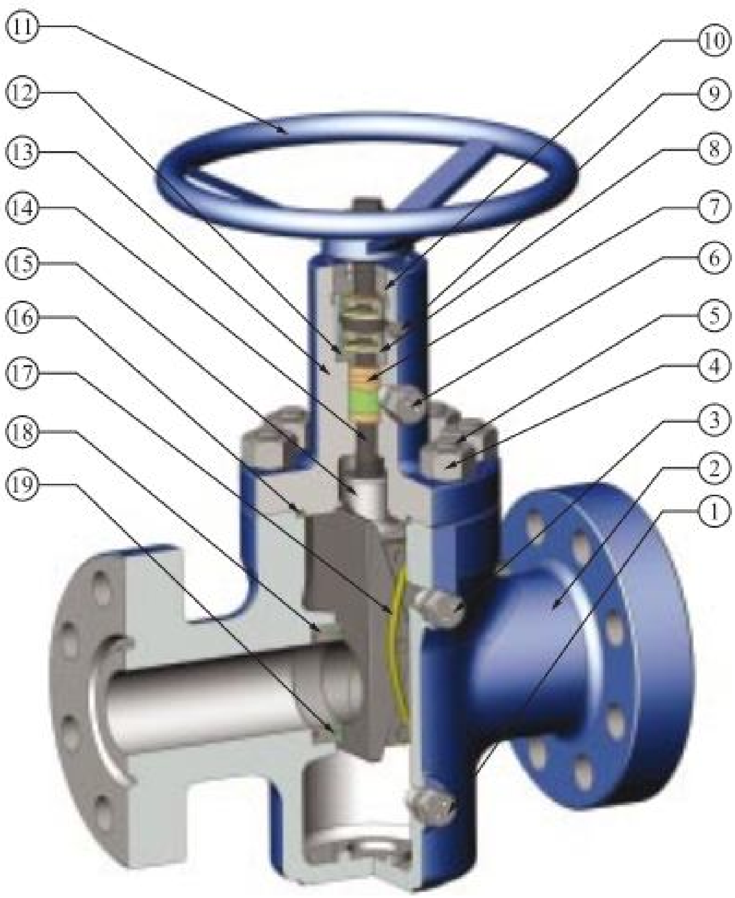
Expanding Gate Valve

Features:

- Parallel expanding gate gives positive seal across both seats.
- A double row roller thrust bearing on the stem makes operation easy, even under full pressure.
- Upper and lower roller thrust bearings are used to minimize torque and are isolated from pressure of medium.
- The full bore through conduit design minimize pressure drop, eliminating turbulance.
- The seal faces are protected from in the open and closed positions for long life.

Specifications:

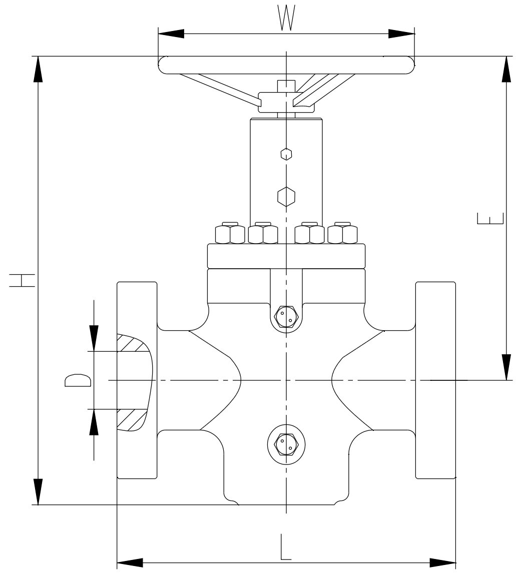
Basic Design and Test	**API-6A**
Working Pressure(Psi)	**2000, 3000, 5000,10000,15000**
Main Nominal Size	**1-13/16, 2-1/16, 2-9/16, 3-1/16, 3-1/8, 4-1/16, 5-1/8**
Product Specification Level	**PSL1, PSL2, PSL3, PSL3G**
Performance Requirement Level	**PR1, PR2**
Material Class	**AA, BB, CC, DD, EE, FF,HH**
Working Temperature	**-50 °F~250 °F (L~U)**



Parts List

No	Name	Material
1	GREASE FITTING	AISI 4140
2	BODY	AISI 4130
3	GREASE FITTING	AISI 4140
4	NUT	ASTM A194 2HM
5	BOLT	ASTM A193 B7M
6	GREASE FITTING	STAINLESS STEEL
7	PACKING	TEFLON
8	BEARING	STEEL
9	GREASEI ZERK	STAINLESS STEEL
10	BEARING GLAND	AISI 1045
11	HANDWHEEL	ASTM A216 WCB
12	PACKING GLAND	AISI 4130
13	BONNET	AISI 4130
14	STEM	AISI 4130
15	GATE	AISI 4130
16	BONNET GASKET	SPIRAL WOUND 316SS GRAPHITE
17	GATE SPRING	INCONEL X-750
18	SEAT RETAINER	AISI 4135
19	SEAT	TEFLON

Other trim and body material are available upon request.



Dimensions

2000Psi

NPS	L in / mm	D in / mm	E in / mm	H in / mm	W in / mm
2 1/16"	11.62	2.06	14.37	19.25	11.02
	295	52.3	365	489	280
2 9/16"	13.12	2.56	14.49	20.20	12.99
	333	65.0	368	513	330
3 1/8"	14.12	3.12	15.43	22.52	12.99
	359	79.3	392	572	330
4 1/16"	17.12	4.06	17.32	25.94	15.98
	435	103.1	440	659	406

3000Psi

NPS	L in / mm	D in / mm	E in / mm	H in / mm	W in / mm
2 1/16"	14.62	2.06	14.37	19.45	12.99
	371	52.3	365	494	330
2 9/16"	16.62	2.56	14.49	20.43	15.98
	422	65.0	368	519	406
3 1/8"	17.12	3.12	15.43	22.76	15.98
	435	79.3	392	578	406
4 1/16"	20.12	4.06	17.32	26.38	20.00
	511	103.1	440	670	508

5000Psi

NPS	L in / mm	D in / mm	E in / mm	H in / mm	W in / mm
2 1/16"	14.62	2.06	14.37	19.45	12.99
	371	52.3	365	494	330
2 9/16"	16.62	2.56	14.49	20.43	15.98
	422	65.0	368	519	406
3 1/8"	18.62	3.12	15.43	22.76	15.98
	473	79.3	392	578	406
4 1/16"	21.62	4.06	17.32	26.38	20.00
	549	103.1	440	670	508

10000Psi

NPS	L in / mm	D in / mm	E in / mm	H in / mm	W in / mm
2 1/16"	20.50	2.06	24.41	40.39	24.02
	521	52.3	620	1026	610
2 9/16"	22.25	2.56	26.38	44.49	24.02
	565	65.0	670	1130	610
3 1/16"	24.38	3.06	30.63	53.23	27.56
	619	77.7	778	1352	700
4 1/16"	26.38	4.06	37.40	63.58	27.56
	670	103.1	950	1615	700

15000Psi

NPS	L in / mm	D in / mm	E in / mm	H in / mm	W in / mm
2 1/16"	19.00	2.06	25.20	41.46	27.56
	483	52.3	640	1053	700
2 9/16"	21.00	2.56	27.87	46.85	27.56
	533	65.0	708	1190	700
3 1/16"	23.56	3.06	31.69	54.13	27.56
	598	77.7	805	1375	700
4 1/16"	29.00	4.06	41.34	68.31	27.56
	737	103.1	1050	1735	700

Note: ***1. Data listed above is for reference only.***
2. H for 10000psi and above valves is consided as gear operated

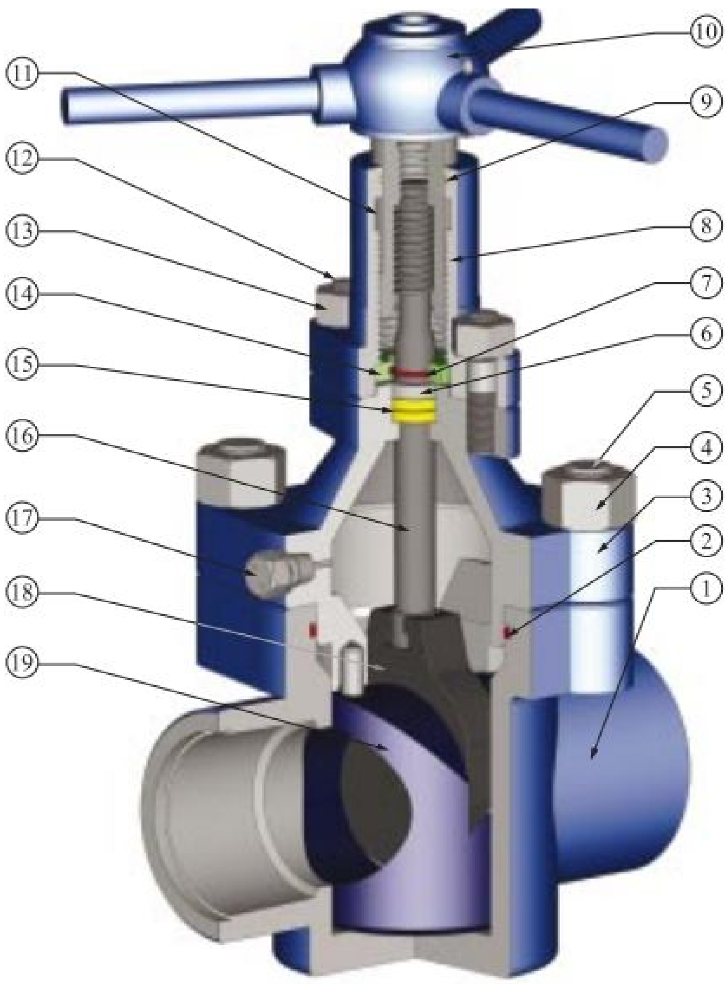
Mud Gate Valve

Features:

- The unique design of the mud gate valve seat assures tight shut-off after exposure to the most rigorous field conditions.
- Rising stems are driven by means of a double acting thread for fast operation with low turning effort.
- Both stem and stem screw are permanently lubricated and sealed with the aid of an O-ring between the stem and screw housing. The stem seal assembly assures sealing under both low and high pressure.

Specifications:

Basic Design and Test	**API-6A**	**ANSI**
Working Pressure	**2000, 3000, 5000, 10000, 15000 (Psi)**	**400, 600, 900, 1500(LB)**
Main Nominal Size(in)	**2-1/16, 2-9/16, 3-1/8, 4-1/16**	**2, 2-1/2, 3, 4**
Product Specification Level	**PSL1, PSL2, PSL3, PSL3G**	**PSL1, PSL2, PSL3, PSL3G**
Performance Requirement Level	**PR1, PR2**	**PR1, PR2**
Material Class	**AA, BB, CC, DD, EE, FF,HH**	**AA, BB, CC, DD, EE, FF,HH**
End Connection	**Flanged, Thread, Union**	**Flanged, Thread, Union**

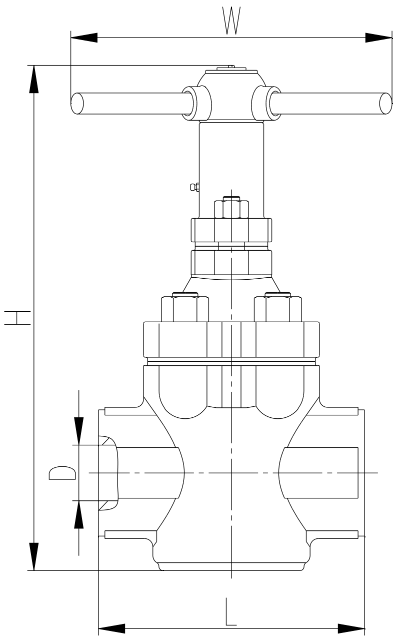


Parts List

No	Name	Material
1	BODY	AISI 4130
2	BONNET SEAL	VITON-B
3	BONNET	AISI 4130
4	NUT	ASTM A194 2HM
5	BOLT	ASTM A193 B7M
6	PACKING RING	STAINLESS STEEL
7	O-RING	BUNA-N
8	SCREW HOUSING	ASTM A216 WCB
9	O-RING	BUNA-N
10	HANDWHEEL	CARBON STEEL
11	NUT	AISI 1045+ZN
12	BOLT	ASTM A193 B7M
13	NUT	ASTM A194 2HM
14	GLAND	STAINLESS STEEL
15	PACKING	BUNA-N
16	STEM	AISI4130+NITRIDED
17	INJECTION FITTING	STAINLESS STEEL
18	GATE	AISI 4130+NITRIDED
19	SEAT	AISI 4140+BUNA-N

Other trim and body material are available upon request.

Mud Gate Valve



Dimensions

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	2000Psi				
	in / mm	in / mm	in / mm	in / mm	in / mm
2 1/16"	11.62	9.02	2.06	14.57	14.02
	295	229	52.3	370	356
2 9/16"	13.12	9.76	2.56	18.90	17.72
	333	248	65.0	480	450
3 1/8"	14.12	10.98	3.12	20.08	17.72
	359	279	79.3	510	450
4 1/16"	17.12	12.99	4.06	22.83	17.72
	435	330	103.1	580	450

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	3000Psi				
	in / mm	in / mm	in / mm	in / mm	in / mm
2 1/16"	14.62	9.02	2.06	14.57	14.02
	371	229	52.3	370	356
2 9/16"	16.62	9.76	2.56	18.90	17.72
	422	248	65.0	480	450
3 1/8"	17.12	10.98	3.12	20.08	17.72
	435	279	79.3	510	450
4 1/16"	20.12	12.99	4.06	28.35	17.72
	511	330	103.1	720	450

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	5000Psi				
	in / mm	in / mm	in / mm	in / mm	in / mm
2 1/16"	14.62	9.02	2.06	14.57	14.02
	371	229	52.3	370	356
2 9/16"	16.62	9.76	2.56	18.90	17.72
	422	248	65.0	480	450
3 1/8"	18.62	10.98	3.12	20.08	17.72
	473	279	79.3	510	450
4 1/16"	21.62	16.93	4.06	29.92	17.72
	549	430	103.1	760	450

Note: Data listed above is for reference only.

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	Class 400				
	in / mm	in / mm	in / mm	in / mm	in / mm
2"	11.5	9.02	2.06	14.57	19.25
	292	229	52.3	370	489
2 1/2"	13	9.76	2.56	18.90	20.20
	330	248	65.0	480	513
3"	14	10.98	3.12	20.08	22.52
	356	279	79.3	510	572
4"	16	12.99	4.06	22.83	25.94
	406	330	103.1	580	659

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	Class 600				
	in / mm	in / mm	in / mm	in / mm	in / mm
2"	11.62	9.02	2.06	14.57	14.02
	295	229	52.3	370	356
2 1/2"	13.12	9.76	2.56	18.90	17.72
	333	248	65.0	480	450
3"	14.12	10.98	3.12	20.08	17.72
	359	279	79.3	510	450
4"	17.12	12.99	4.06	22.83	17.72
	435	330	103.1	580	450

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	Class 900				
	in / mm	in / mm	in / mm	in / mm	in / mm
2"	14.5	9.02	2.06	14.57	14.02
	368	229	52.3	370	356
2 1/2"	16.5	9.76	2.56	18.90	17.72
	419	248	65.0	480	450
3"	15	10.98	3.12	20.08	17.72
	381	279	79.3	510	450
4"	18	12.99	4.06	22.83	17.72
	457	330	103.1	580	450

NPS	Flanged (RTJ) L	Threaded L	D	Open H	W
	Class 1500				
	in / mm	in / mm	in / mm	in / mm	in / mm
2"	14.62	9.02	2.06	14.57	14.02
	359	229	52.3	370	356
3"	16.62	10.98	2.56	20.08	17.72
	422	279	65.0	510	450
4"	18.62	16.93	3.12	29.92	17.72
	473	430	79.3	760	450

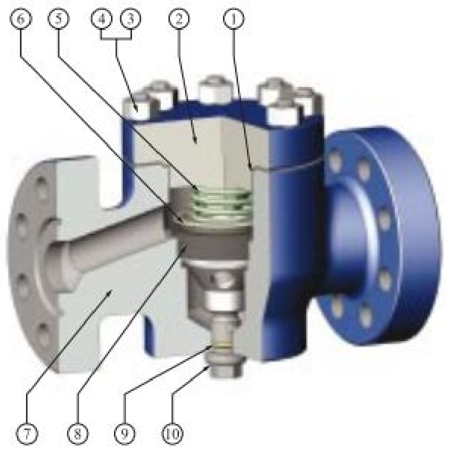
Check Valve

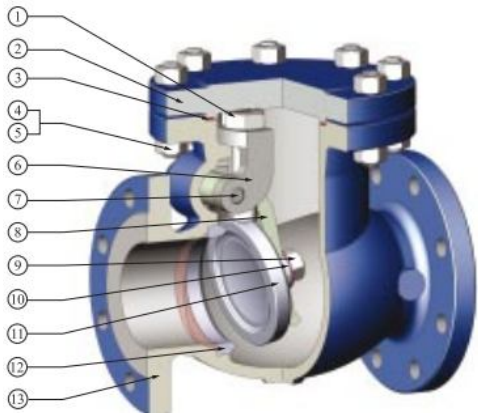
Features:

- Check valve flows in single direction.
- Check valve may be furnished in the following types:
  Regular swing check
  Full opening swing check
  Lift check, reduced opening
- It is usually used for kill manifold.

Specifications:

- Basic Design and Test **API-6A**
- Working Pressure (Psi) **2000, 3000, 5000, 10000, 15000**
- Main Nominal Size (in) **2-1/16, 2-9/16, 3-1/16, 3-1/8, 4-1/16**
- Product Sepcification Level **PSL1, PSL2, PSL3, PSL3G**
- Performance Requirement Level **PR1, PR2**
- Material Class **AA, BB, CC, DD, EE, FF, HH**
- End Connection **Flanged, Wafer, Treaded**





Parts List

No	Name	Material
1	**GASKET**	SPIRAL WOUND 316SS GRAPHITE
2	**BONNET**	AISI 4130
3	**NUT**	2HM
4	**BOLT**	B7M
5	**SPRING**	INCONEL X-750
6	**DISC**	AISI 4130
7	**BODY**	AISI 4130
8	**SEAT**	AISI 4135+VITON
9	**O-RING**	VITON-B
10	**SCREW**	AISI 4130

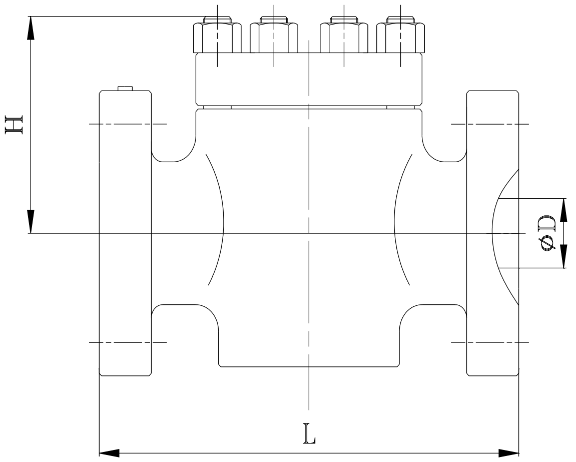
Other trim and body material are available upon request.

No	Name	Material
1	**BOLT**	ASTM A193 B7M
2	**COVER**	ASTM A-487-4C
3	**GASKET**	SPIRAL WOUND 316SS GRAPHITE
4	**BOLT**	ASTM A193 B7M
5	**NUT**	ASTM A194 2HM
6	**HINGE**	ALLOY STEEL
7	**CLAPPER PIN**	STAINLESS STEEL
8	**HINGE**	ASTM A-487-4C
9	**DISC NUT**	ASTM A194 2HM
10	**DISC WASHER**	ALLOY STEEL
11	**DISC**	ASTM A-487-4C
12	**SEAT RING**	AISI 4130
13	**BODY**	ASTM A-487-4C

Other trim and body material are available upon request.

Check Valve

Dimensions



Piston Check

NPS	2-1/16"			2-9/16"			3-1/8"(3-1/16")			4-1/16"			7-1/16"			9"			11"		
CLASS	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm
2000PSI	11.62	2.067	8.07	13.12	2.469	8.46	14.12	3.068	10.35	17.12	4.026	13.27	22.12	5.761	17.32	26.12	7.813	19.57	31.12	9.750	24.21
	295	52.5	205	333	62.7	215	359	77.9	263	435	102.3	337	562	146.3	440	664	198.5	497	790	247.7	615
3000PSI	14.62	1.939	11.14	16.62	2.323	11.61	15.12	2.900	13.66	18.12	3.826	15.79	24.12	5.761	18.39	29.12	7.439	25.20	33.12	9.314	26.57
	371	49.3	283	422	59.0	295	384	73.7	347	460	97.2	401	613	146.3	467	740	189.0	640	841	236.6	675
5000PSI	14.62	1.689	11.14	16.62	2.125	11.61	18.62	2.624	13.98	21.62	3.438	17.56	28.00	5.189	22.44	33.12	6.813	24.29	39.36	8.500	27.32
	371	42.9	283	422	54.0	295	473	66.6	355	549	87.3	446	711	131.8	570	841	173.1	617	1000	215.9	694
10000PSI	20.50	1.689	11.42	22.25	2.125	11.81	24.38	2.624	14.17	26.38	3.438	17.72	/	/	/	/	/	/	/	/	/
	521	42.9	290	565	54.0	300	619	66.6	360	670	87.3	450	/	/	/	/	/	/	/	/	/
15000PSI	19.00	1.689	13.78	21.00	2.125	14.17	23.56	2.624	16.93	29.00	3.438	21.65	/	/	/	/	/	/	/	/	/
	483	42.9	350	533	54.0	360	598	66.6	430	737	87.3	550	/	/	/	/	/	/	/	/	/

Note: Data listed above is for reference ***only.***

Swing Check

NPS	2-1/16"			2-9/16"			3-1/8"(3-1/16")			4-1/16"			7-1/16"			9"			11"		
CLASS	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm	L in mm	D in mm	H in mm
2000PSI	11.62	2.067	7.72	13.12	2.469	8.27	14.12	3.068	9.65	17.12	4.026	10.83	22.12	5.761	14.53	26.12	7.813	17.68	31.12	9.750	19.61
	295	52.5	196	333	62.7	210	359	77.9	245	435	102.3	275	562	146.3	369	664	198.5	449	790	247.7	498
3000PSI	14.62	1.939	9.84	16.62	2.323	10.24	15.12	2.900	11.14	18.12	3.826	12.91	24.12	5.761	16.02	29.12	7.439	19.29	33.12	9.314	24.17
	371	49.3	250	422	59.0	260	384	73.7	283	460	97.2	328	613	146.3	407	740	189.0	490	841	236.6	614
5000PSI	14.62	1.689	10.39	16.62	2.125	10.91	18.62	2.624	12.64	21.62	3.438	14.45	28.00	5.189	19.13	33.12	6.813	23.19	39.36	8.500	28.19
	371	42.9	264	422	54.0	277	473	66.6	321	549	87.3	367	711	131.8	486	841	173.1	589	1000	215.9	716
10000PSI	20.50	1.689	11.02	22.25	2.125	11.42	24.38	2.624	13.78	26.38	3.438	17.72	/	/	/	/	/	/	/	/	/
	521	42.9	280	565	54.0	290	619	66.6	350	670	87.3	450	/	/	/	/	/	/	/	/	/
15000PSI	19.00	1.689	13.39	21.00	2.125	13.78	23.56	2.624	17.32	29.00	3.438	21.65	/	/	/	/	/	/	/	/	/
	483	42.9	340	533	54.0	350	598	66.6	440	737	87.3	550	/	/	/	/	/	/	/	/	/

Note: Data listed above is for reference only.

Trunnion Mounted Ball Valve

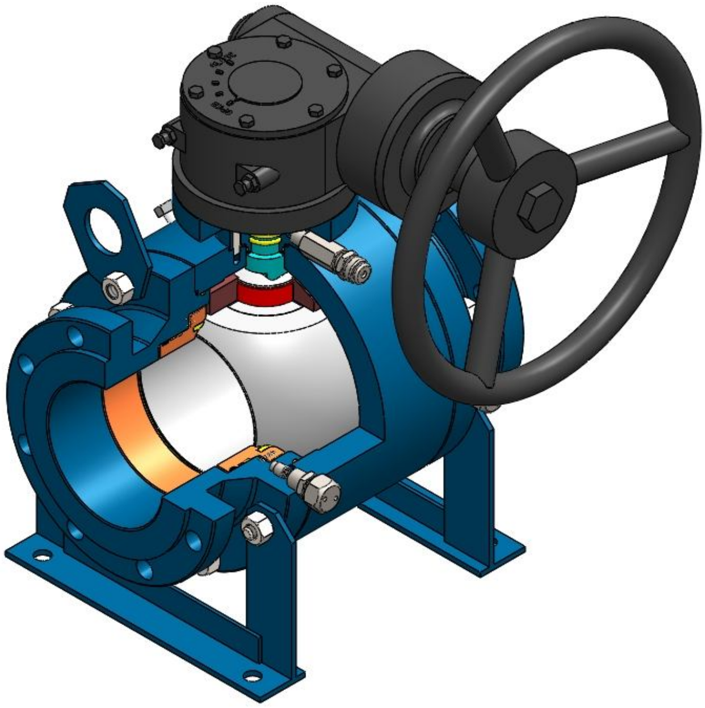
Features:

- Self-Relieving Seat Design.
- Standard Seat Design (DBB) (Two Single Piston Effect (SPE) Seats).
- Fire Safe Design and fire tested as per API 6FA or API 607.
- Blow-out Proof Stem.
- Anti-Static Device.
- Emergency Sealant Injection System.
- Vent/drain configuration according to Customer requirements.
- Metal-to-metal seat design (Optional).
- Optional Seat Design (DIB-1) (Two Double Piston Effect (DPE) Seats).
- Optional Seat Design (DIB-2) (One SPE Seat and One DPE Seat).
- Extended bonnet for High Temperature or Cryogenic requirements (Optional).
- Lip Seal Design (Optional).
- Liquid Port (Optional).
- Weld overlay on sealing areas or integral on wetted parts (Optional).
- Bleed valve of Double Ball Valves according to Customer requirements (Optional).

Specifications:

• Basic Design and Test	**API-6A**
• Working Pressure (Psi)	**2000, 3000, 5000, 10000, 15000**
• Main Nominal Size (in)	**1-13/16, 2-1/16, 2-9/16, 3-1/16, 3-1/8, 4-1/16, 5-1/8, 7-1/16, 9, 11**
• Product Specification Level	**PSL1, PSL2, PSL3, PSL3G**
• Performance Requirement Level	**PR1, PR2**
• Material Class	**AA, BB, CC, DD, EE, FF, HH**
• Working Temperature	**-50 ^{o}F~250 ^{o}F (L~U)**
• End Connection	**Flanged, Butt weld**

Trunnion Mounted Ball Valve



Material Specification

No.	Description	Carbon Steel		Stainless Steel	
1	**Body**	A105	A350 LF2	A182 F316	A182 F51
2	**Cap**	A105	A350 LF2	A182 F316	A182 F51
3	**Ball**	A105	A350 LF2	A182 F316	A182 F51
4	**Seat**	A105	A350 LF2	A182 F316	A182 F51
5	**Seat Insert**	R-PTFE/Nylon/Devlon/PEEK			
6	**Stem**	A105	A350 LF2	A182 F316	A182 F51
7	**Gland**	A105	A350 LF2	A182 F316	A182 F51
8	**Top Flange**	A105	A350 LF2	A182 F316	A182 F51
9	**Stop Plate**	Carbon Steel			
10	**Spring**	Inconel			
11	**Anti-Static Device**	Stainless Steel			
12	**Pin**	Alloy Steel		Stainless Steel	
13	**Drain Fitting**	Assembly			
14	**Sealant Injection Fitting**	Assembly			
15	**Thrust Washer**	R-PTFE/Metal Backed PTFE			
16	**Fire-safe Seal**	Graphite			
17	**Gasket**	Graphite			
18	**Gasket**	Metal & Flexible Graphite			
19	**Gasket**	Metal & Flexible Graphite			
20	**O-Ring**	HNBR/VITON B/VITON GLT			
21	**O-Ring**	HNBR/VITON B/VITON GLT			
22	**O-Ring**	HNBR/VITON B/VITON GLT			

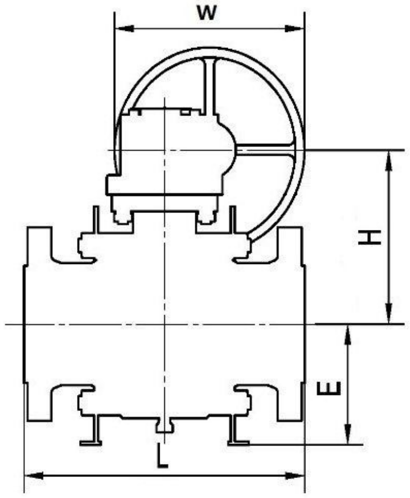
Material Specification

No.	Description	Carbon Steel		Stainless Steel	
23	**O-Ring**	HNBR/VITON B/VITON GLT			
24	**Bearing**	Metal Backed PTFE			
25	**Bearing**	Metal Backed PTFE			
26	**Stud**	A193 B7	A320 L7	A193 B8M	A193 B8MLCuN
27	**Nut**	A194 2H	A194 7	A194 8M	A194 8MLCuNa
28	**Bolt**	A193 B7	A320 L7	A193 B8M	A193 B8MLCuN
29	**Bolt**	A193 B7	A320 L7	A193 B8M	A193 B8MLCuN
30	**Anti-Static Device**	Stainless Steel			
31	**Anti-Static Device**	Stainless Steel			
32	**Bearing Retainer**	A105	A350 LF2	A182 F316	A182 F51
33	**Gearbox**	Carbon Steel			
34	**Lifting Lug**	Carbon Steel			
35	**Support Leg**	Carbon Steel			
36	**Key**	Carbon Steel			
37	**Vent Fitting**	Assembly			
38a	**Sealant Injection Fitting**	Assembly			
38b	**Check Valve**	Assembly			
39	**Thrust Washer**	R-PTFE			
40	**Pin**	Alloy Steel			
41	**Stud**	A193 B7	A320 L7	A193 B8M	A193 B8MLCuN
42	**Nut**	A194 2H	A194 7	A194 8M	A194 8MLCuNa
43	**Washer**	Carbon Steel		Stainless Steel	

Note: Materials listed are based on typical configurations, other materials can be provided upon request.

Trunnion Mounted Ball Valve

Dimensions



2000Psi

NPS	L in / mm	D in / mm	H in / mm	E in / mm	W in / mm
2 1/16"	11.62	2.06	7.48	4.02	9.84
	295	52.3	190	102	250
2 9/16"	13.12	2.56	8.46	4.96	11.81
	333	65.0	215	126	300
3 1/8"	14.12	3.12	10.35	6.89	11.81
	359	79.3	263	175	300
4 1/16"	17.12	4.06	11.89	8.19	13.78
	435	103.1	302	208	350

3000Psi

NPS	L in / mm	D in / mm	H in / mm	E in / mm	W in / mm
2 1/16"	14.61	2.06	8.27	4.80	9.84
	371	52.3	210	122	250
2 9/16"	16.61	2.56	9.33	5.71	11.81
	422	65.0	237	145	300
3 1/8"	15.12	3.12	11.22	7.60	13.78
	384	79.3	285	193	350
4 1/16"	18.11	4.06	12.52	9.09	15.75
	460	103.1	318	231	400

5000Psi

NPS	L in / mm	D in / mm	H in / mm	E in / mm	W in / mm
2 1/16"	14.61	2.06	7.95	5.43	9.84
	371	52.3	202	138	250
2 9/16"	18.62	2.56	10.43	5.91	19.69
	473	65.0	265	150	500
3 1/8"	18.62	3.12	10.98	8.86	19.69
	473	79.3	279	225	500
4 1/16"	21.61	4.06	13.50	12.36	19.69
	549	103.1	343	314	500
7 1/16"	32.01	7.06	13.23	13.23	27.56
	813	179.3	400	336	700
9"	40.98	9.00	19.45	16.85	27.56
	1041	228.6	494	428	700
11"	45.98	10.98	20.94	17.28	27.56
	1168	279	532	439	700

10000Psi

NPS	L in / mm	D in / m	H in / mm	E in / mm	W in / mm
1 13/16"	18.27	1.81	14.65	13.31	17.72
	464	46.0	372	338	450
2 1/16"	20.51	2.06	14.88	13.46	19.69
	521	52.3	378	342	500
2 9/16"	22.24	2.56	16.46	14.88	19.69
	565	65.0	418	378	500
3 1/16"	24.37	3.06	18.19	16.54	23.62
	619	77.7	462	420	600
4 1/16"	26.38	4.06	19.61	18.19	23.62
	670	103.1	498	462	600
5 1/8"	29.02	5.12	20.87	19.21	27.56
	737	130.1	530	488	700
7 1/16"	35.00	7.06	27.64	25.29	27.56
	889	179.3	702	650	700

Notes: Dimensions may be subject to change without notice, please contact the factory for latest updates and non-listed valve sizes.

Design and Performance Requirements

API 6A Valve Material Specification

	Body & Bonnet Material		Trim Material					Service
	Type	Material API 60K,75K	Type	Stem	Gate & Disc	Seat	Bonnet Seal	
AA	Alloy Steel	ASTM A487-4C ANSI 4130/4140	Alloy Steel	4130/4140 Nitrided	4130/4140 Nitrided	4130/4140	CS	General Oilfield Gas, Oil
BB	Alloy Steel	ASTM A487-4C ANSI 4130/4140	Stainless	17-4PH, 630SS	410, F6NM	410, F6NM	SS	General Moderately Corrosive CO_2
CC	Stainless	CA6NM, F6NM ASTM A217-CA15	Full Stainless	17-4PH, 630SS	410, 630SS, 17-4PH	410, 630SS, 17-4PH	SS	General Highly Corrosive CO_2
DD	Alloy Steel NACE MR01-75	ASTM A487-4C Impact Tested ANSI 4130/4140	Alloy Steel NACE MR01-75	4130/4140 Nitrided	4130/4140 Nitrided	4130/4140	CS	Low Temperature - Sour Gas and Oil
EE	Alloy Steel NACE MR01-75	ASTM A487-4C ANSI 4130/4140	Full Stainless NACE MR01-75	17-4PH, 630SS	410SS, 630SS, 17-4PH	410SS, 630SS, 17-4PH	SS	Sour (H_2S) Gas and Oil
FF	Stainless	CA6NM, F6NM ASTM A217-CA15	Full Stainless	17-4PH, 630SS	410SS, 630SS, 17-4PH,	410SS, 630SS, 17-4PH,	SS	Highly Corrosive CO_2 &Sour (H_2S) Gas and Oil

Temperature Ratings

Temperature Classification	Temperature Ratings			
	℉		℃	
	Min	Max	Min	Max
K	- 75	180	- 60	82
L	- 50	180	- 46	82
P	- 20	180	- 29	82
R	Room Temperature		Room Temperature	
S	0	180	- 18	66
T	0	250	- 18	82
U	0	250	- 18	121
V	35	250	2	121

Material Requirements

Materials Class	Minimum Material Requirements		
	Service	Body, Bonnet, End and Outlet Connections	Pressure Controlling Parts, Stems and Mandrel Hangers
AA	General	Carbon or low alloy steel	Carbon or low alloy steel
BB	General		Stainless steel
CC	General	Stainless steel	
DD	Sour[a]	Carbon or low alloy steel[b]	Carbon or low alloy steel
EE	Sour[a]		Stainless steel[b]
FF	Sour[a]	Stainless steel[b]	
HH	Sour[a]	CRAs[b]	CRAs[b]

a. As defined by NACE Standard MR0175.
b.In compliance with NACE Standard MR0175.

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