

DHV Industries, Inc.

3451 Pegasus Drive

Bakersfield, CA 93308 U.S.A.

Call Toll Free: (877) DHV-USA1

Phone: (661) 392-8948

Fax: (661) 392-8947

E-mail: sales@dhvindustries.com

Website: www.dhvindustries.com



Cast Steel Valves

Gate / Globe / Check / Plug



Table of Contents

Introduction

Quality is our commitment, while competitive price and timely delivery is our promise. **From** the beginning, the DHV name has become associated with quality in every step of our manufacturing process. For the past decades our customers worldwide have trusted us to provide them with consistent and reliable valve products in their most severe and critical service. **We** at DHV are proud of our ability to meet the stringent requirements of Refining, Gas/Oil, Pipeline, Petrochemical and Power Plant.

DHV Gate / Globe / Check Valves are designed, manufactured and tested to the latest manufacturing specifications of the American & International Standards Organizations. We welcome your challenges and look forward to serving your critical project needs.

• Figure Number System	2
• Gate Valve	3
• Globe Valve	6
• Check Valve	9
• Parallel Slide Gate Valve	12
• Pressure Seal Gate Valve	14
• Pressure Seal Globe Valve	17
• Pressure Seal Check Valve	20
• API 6D Slab Gate Valve	23
• API 6D Expanding Gate Valve	26
• API 6D Swing Check Valve	29
• API 6D Piston Check Valve	32
• Plug Valve	34
• Dual-Plate Wafer Check Valve	36
• Product Specification	38
• Term & Conditions	39



DHV Figure Numbers

Cast Steel Valves

Type C

1 = OS & Y Gate
2 = Globe
3 = Swing Check
4 = NRS GATE
5 = Pressure Seal Bonnet Gate
6 = Pressure Seal Bonnet Globe
7 = Pressure Seal Bonnet Check
8 = Y Pattern
9 = Angle
A = Conduit Gate
B = Plug Valve
C = Strainer
D = Soft Seat Block & Bleed Gate
E = API 6D Swing Check
F = Twin Seal Plug Valve
G = Parallel Slide Gate
H = Piston Check
X = Special

Type WC

1 = Single-Plate Wafer Check
2 = Dual-Plate Wafer Check
3 = Lift Wafer Check
X = Special

Pressure Class

1 = Class 150
2 = Class 300
3 = Class 600
4 = Class 900
5 = Class 1500
6 = Class 2500

Body and Bonnet Material

0 = ASTM A216 WCB
1 = ASTM A216 WCC
2 = ASTM A352 LCB
3 = ASTM A352 LCC
4 = ASTM A351 CF8M
5 = ASTM A351 CF8
6 = ASTM A351 CF3M
7 = ASTM A351 CF3
8 = ASTM A890 4A
X = Special

End Connections

F = Raised Face Flanged End
R = Ring Type Joint Flanged End
P = Plain Flate Face Flanged End
B = Butt-welding End
T = Threaded End
S = Socket-welding End
W = Wafer-Type
L = Lug-Type or Full Flange
D = Double Flange-Type
X = Other Type End Connection

Conduit Gate & Plug Valve Seat Type

None = Other Valves
S = Soft Seal
M = Metal Seal

*8" OS & Y Gate valve, class 300,
A216 WCB body & bonnet, raised
face, flanged end, with HF / HF
Trim, Gear Operated*

Example: 8" - C120F2-XX-X-GO

Code

C = Cast Steel Valves
F = Forged Steel Valves
I = Cast Iron Valves
B = Ball Valves
WB = Wafer Butterfly
WC = Wafer Check Valve
W = Wellhead Valves

Trim Material

	Seat Seal Face	Disc Seal Face	Stem Material
1 =	13CR	13CR	F6
2 =	HF	HF	F6
3 =	HF	13CR	F6
4 =	Monel	Monel	Monel
5 =	316 SS	316 SS	F316
6 =	HF	316 SS	F316
7 =	304 SS	304 SS	F304
8 =	HF	304 SS	F304
9 =	Inconel	Inconel	Inconel
A =	HF	HF	F316
B =	Duplex S.S.		
X =	Special		

Operator

None = Lever or Handwheel Operator
CO = Chain Wheel Operator
GO = Gear Operator
BS = Bare Stem
EM = Electric Motor Operator
PA = Pneumatic Actuator
HA = Hydraulic Actuator
PH = Pneumatic-Hydraulic Actuator

Conduit Gate Type

None = Other Valves
EG = Expanding Gate
SG = Slab Gate

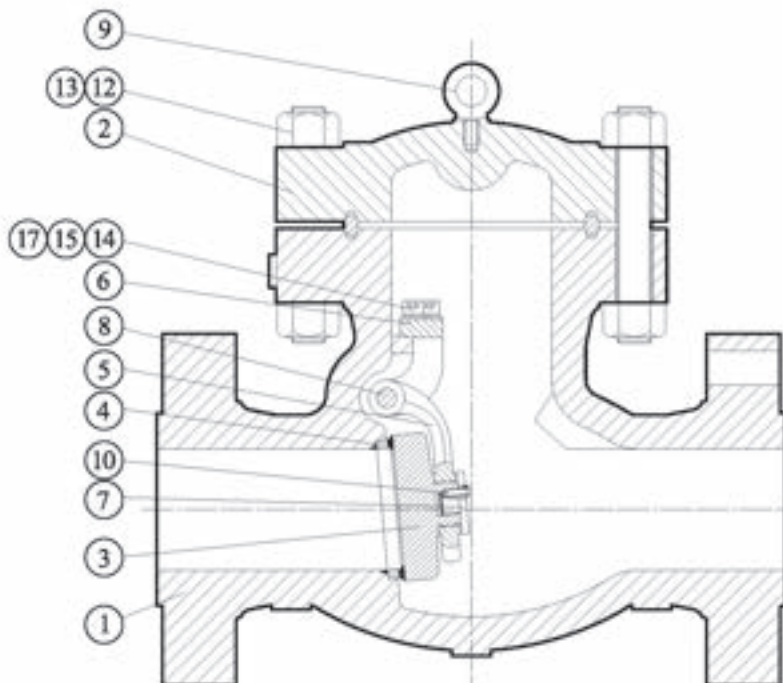


Check Valve

Material List

Trim Material

DHV Trim Code	Disc Surface Part No.3	Seat Ring Surface Part No.4
1	13CR	13CR
2	HF	HF
3	13CR	HF
4	Monel	Monel
5	316	316
6	316	HF
7	304	304
8	304	HF
9	INCONEL	INCONEL
A	HF	HF
B	DSS	DSS



Flange Gasket



Ring Type Joint
≥ 600lb



Spiral Wound Gasket
300lb



Metal Backup
Graphite Gasket
150lb

Standard Material Specifications

Part Name	Carbon Steel to ASTM			Alloy Steel to ASTM			Stainless Steel to ASTM		
1 Body	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
2 Bonnet	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
3 Disc	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
4 Seat Ring	A105	A350 LF2	A350 LF2	A182 F11	A182 F5A	A182 F9	A182 F304	A182 F316	A182 F51
5 Swing Arm	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
6 Hinge	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
7 Disc Screw	Stainless Steel								
8 Hinge Pin	Stainless Steel								
9 Screw	Stainless Steel								
10 Stud	Stainless Steel								
12 Bonnet Bolt	A193 B7	A320 L7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8MLCuN
13 Bonnet Nut	A194 2H	A194 7	A194 7	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8MLCuNa
14 Stud	Stainless Steel								
15 Spring Washer	Stainless Steel								
17 Washer	Stainless Steel								



Check Valve

Feature & Dimension

Features

- Bolted Bonnet
- Swing Type Disc
- Renewable Seat Rings Welded or Threaded
- Flanged Ends or Buttwelding Ends

Specifications

Basic Design: **BS 1868 API 594**

Face to Face: **ASME B16.10**

End Flange:

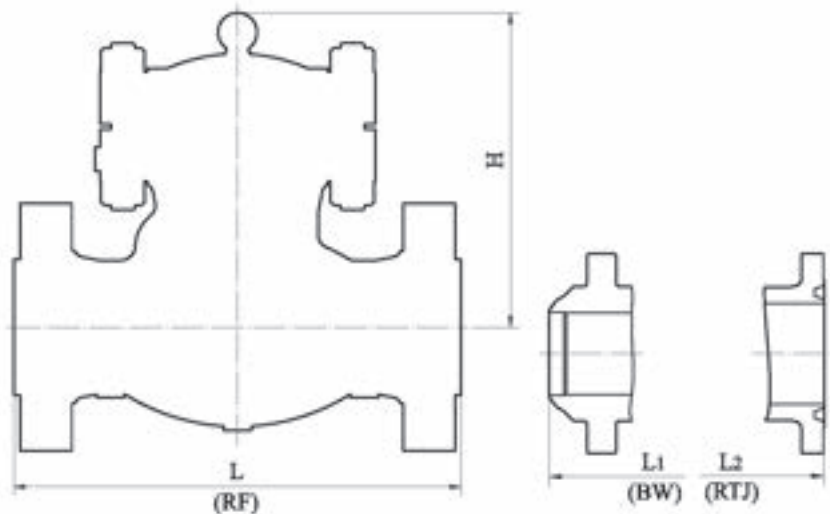
2"-24" **ASME B16.5**

26"-30" **ASME B16.47**

B.W End: **ASME B16.25**

Test and Inspection: **API 598**

Manufacturing to NACE MR0103 on request



150LB

Description			Valve Size											
			2	3	4	6	8	10	12	14	16	20	24	30
Flanged End L	in		8.00	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	51.00	60.00
	mm		203	241	292	356	495	622	699	787	864	978	1295	1524
Weld End L ₁	in		8.00	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	51.00	60.00
	mm		203	241	292	356	495	622	699	787	864	978	1295	1524
Height H	in		7.05	8.19	9.49	10.79	14.37	15.98	18.11	20.08	22.87	27.56	32.83	38.58
	mm		179	208	241	274	365	406	460	510	581	700	834	980
Weight	RF	Kg	16	25	45	73	135	200	302	376	577	870	948	2030
	BW	Kg	11	16	32	51	100	166	247	290	503	770	809	1770

300LB

Description			Valve Size										
			2	3	4	6	8	10	12	14	16	20	24
Flanged End L	in		10.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	40.00	51.00
	mm		267	318	356	445	533	622	711	838	864	1016	1346
Weld End L ₁	in		10.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	40.00	51.00
	mm		267	318	356	445	533	622	711	838	864	1016	1346
Height H	in		7.87	9.06	9.80	12.40	15.00	17.56	20.31	21.69	23.82	29.02	32.83
	mm		200	230	249	315	381	446	516	551	605	737	834
Weight	RF	Kg	25	57	64	120	195	329	460	576	851	1335	1808
	BW	Kg	21	47	52	103	159	251	424	436	777	975	1752

For sizes out of above range, please consult DHV for details.



Check Valve

Dimension

600LB

Description		Valve Size									
		2	3	4	6	8	10	12	14	16	20
Flanged End L	In	11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	47.00
	mm	292	356	432	559	660	787	838	889	991	1194
Weld End L1	In	11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	47.00
	mm	292	356	432	559	660	787	838	889	991	1194
RTJ L2	In	11.62	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	47.25
	mm	295	359	435	562	663	790	841	892	994	1200
Height H	In	8.19	10.28	11.65	15.16	17.68	19.41	22.05	24.02	25.98	31.42
	mm	208	261	296	385	449	493	560	610	660	798
Weight	RF Kg	30	63	99	220	345	509	718	865	1280	2008
	BW Kg	26	53	70	157	262	337	592	674	902	1590

900LB

Description		Valve Size						
		2	3	4	6	8	10	12
Flanged End L	In	14.50	15.00	18.00	24.00	29.00	33.00	38.00
	mm	368	381	457	610	737	838	965
Weld End L1	In	14.50	15.00	18.00	24.00	29.00	33.00	38.00
	mm	368	381	457	610	737	838	965
RTJ L2	In	14.62	15.12	18.12	24.12	29.12	33.12	38.12
	mm	372	384	460	613	740	841	968
Height H	In	11.26	11.81	13.62	16.61	21.02	23.03	25.16
	mm	286	300	346	422	534	585	639
Weight	RF Kg	70	110	155	290	525	775	1020
	BW Kg	50	77	118	215	402	597	801

1500LB

Description		Valve Size						
		2	3	4	6	8	10	12
Flanged End L	In	14.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	470	546	705	832	991	1130
Weld End L1	In	14.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	470	546	705	832	991	1130
RTJ L2	In	14.62	18.62	21.62	28.00	33.13	39.38	45.12
	mm	371	473	549	711	841	1000	1146
Height H	In	11.26	13.62	15.31	20.08	24.33	28.27	31.50
	mm	286	346	389	510	618	718	800
Weight	RF Kg	70	155	220	550	922	1298	2120
	BW Kg	50	120	165	452	662	834	1620

2500LB

Description		Valve Size						
		2	3	4	6	8	10	12
Flanged End L	In	17.75	22.76	26.50	36.00	40.24	50.00	55.98
	mm	451	578	673	914	1022	1270	1422
Weld End L1	In	17.75	22.76	26.50	36.00	40.24	50.00	55.98
	mm	451	578	673	914	1022	1270	1422
RTJ L2	In	17.87	23.00	26.88	36.50	40.87	50.87	56.89
	mm	454	584	683	927	1038	1292	1445
Height H	In	13.62	15.16	20.16	24.21	27.99	33.46	39.37
	mm	346	385	512	615	711	850	1000
Weight	RF Kg	125	280	675	906	2420	3751	5505
	BW Kg	90	210	560	765	1980	2980	4354

For sizes out of above range, please consult DHV for details.



Pressure Seal Check Valve

Dimension

900LB

Description			Valve Size											
			2	3	4	6	8	10	12	14	16	18	20	24
Flanged End L	In		14.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50	48.00	52.00	61.00
	mm		368	381	457	610	737	838	965	1029	1130	1219	1321	1549
Weld End L ₁	In		8.50	12.00	14.00	20.00	26.00	31.00	36.00	39.00	43.00	48.00	52.00	61.00
	mm		216	305	356	508	660	787	914	991	1092	1219	1321	1549
RTJ L ₂	In		14.62	15.12	18.12	24.12	29.12	33.12	38.12	40.87	44.87	48.50	52.50	61.75
	mm		371	384	460	613	740	841	968	1038	1140	1232	1333	1568
Height H	In		9.75	10.92	12.86	16.22	23.74	24.51	28.11	29.65	30.51	34.42	34.94	38.78
	mm		248	277	327	412	603	622	714	753	775	874	888	985
Weight	RF	Kg	43	60	113	249	615	917	1402	1672	1780	2363	3082	4212
	BW	Kg	22	35	70	173	475	745	1100	1316	1457	1900	2465	2979

1500LB

Description			Valve Size											
			2	3	4	6	8	10	12	14	16	18	20	24
Flanged End L	In		14.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50	60.50	65.50	76.50
	mm		368	470	546	705	832	991	1130	1257	1384	1537	1664	1943
Weld End L1	In		8.50	12.00	16.00	22.00	28.00	34.00	39.00	42.00	47.00	60.50	65.50	76.50
	mm		216	305	406	559	711	864	991	1067	1194	1537	1664	1943
RTJ L2	In		14.62	18.62	21.62	28.00	33.13	39.38	45.12	50.25	55.38	61.38	66.38	77.63
	mm		371	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
Height H	In		9.75	10.91	12.86	17.07	19.37	23.90	26.08	28.75	30.29	35.59	38.38	44.44
	mm		248	277	327	433	492	607	663	730	769	904	975	1129
Weight	RF	Kg	43	108	151	370	658	1133	1672	2265	2804	3390	4314	6163
	BW	Kg	22	43	76	239	518	798	1186	1521	1726	2157	2671	3595

2500LB

Description			Valve Size						
			2	3	4	6	8	10	12
Flanged End L	In		17.75	22.75	26.50	36.00	40.25	50.00	56.00
	mm		451	578	673	914	1022	1270	1422
Weld End L1	In		11.00	14.50	18.00	24.00	30.00	36.00	41.00
	mm		279	368	457	610	762	914	1041
RTJ L2	In		17.88	23	26.88	36.50	40.88	50.88	56.88
	mm		454	584	683	927	1038	1292	1445
Height H	In		9.91	10.92	12.86	18.24	22.61	23.29	26.53
	mm		252	277	327	463	574	592	674
Weight	RF	Kg	91	167	307	604	1100	1722	2847
	BW	Kg	54	91	146	293	614	804	1553

For sizes out of above range, please consult DHV for details.

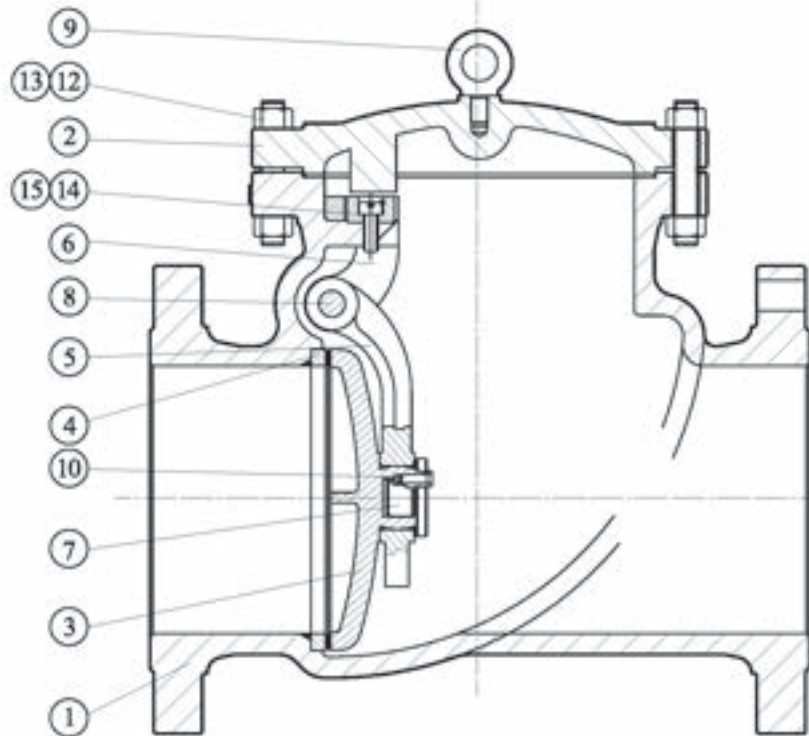


API 6D Swing Check Valve

Material List

Trim Material

DHV Trim Code	Disc Surface Part No.3	Seat Ring Surface Part No.4
1	13CR	13CR
2	HF	HF
3	13CR	HF
4	Monel	Monel
5	316	316
6	316	HF
7	304	304
8	304	HF
9	INCONEL	INCONEL
A	HF	HF
B	DSS	DSS



Flange Gasket



Ring Type Joint
≥ 600lb



Spiral Wound Gasket
300lb



Metal Backup
Graphite Gasket
150lb

Standard Material Specifications

Part Name	Carbon Steel to ASTM			Alloy Steel to ASTM			Stainless Steel to ASTM		
1 Body	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
2 Bonnet	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
3 Disc	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
4 Seat Ring	A105	A350 LF2	A350 LF2	A182 F11	A182 F5A	A182 F9	A182 F304	A182 F316	A182 F51
5 Swing Arm	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
6 Hinge	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
7 Disc Screw	Stainless Steel								
8 Hinge Pin	Stainless Steel								
9 Screw	Stainless Steel								
10 Stud	Stainless Steel								
12 Bonnet Bolt	A193 B7	A320 L7	Ductile Iron	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8M	A193 B8MLCuN
13 Bonnet Nut	A194 2H	A194 7	A194 7	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8MLCuNa
14 Stud	Stainless Steel								
15 Stop Plate	Stainless Steel								



API 6D Swing Check Valve

Feature & Dimension

Features

- Bolted Bonnet
- Swing Type Disc
- Renewable Seat Rings Welded or Threaded
- Flanged Ends or Buttwelding Ends
- API 6D Bore, Piggable
- Metal Seat & Soft Seat Seal

Specifications

Basic Design: **API 6D**

Face to Face: **API 6D**

End Flange:

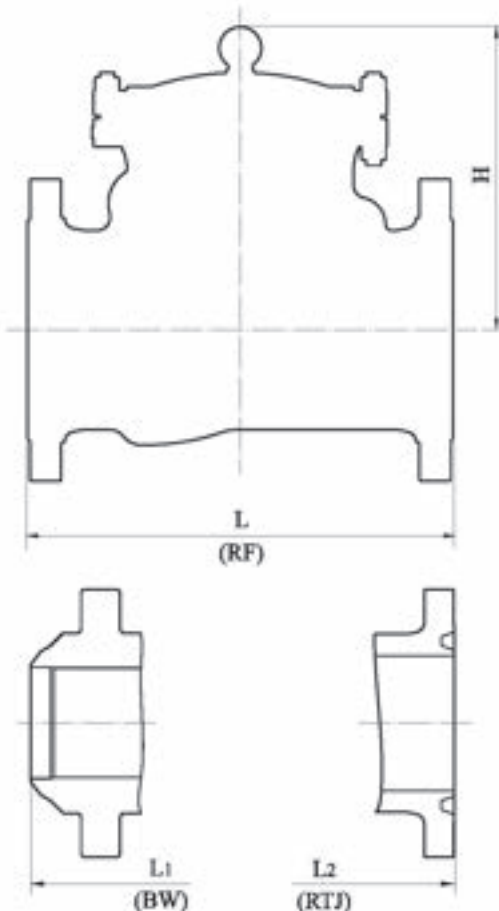
2"-24" **ASME B16.5**

26"-30" **ASME B16.47**

B.W End: **ASME B16.25**

Test and Inspection: **API 6D**

Manufacturing to NACE MR0175 on request



150LB

Description		Valve Size											
		2	3	4	6	8	10	12	14	16	20	24	30
Flanged End L	in	8.00	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	51.00	60.00
	mm	203	241	292	356	495	622	699	787	864	978	1295	1524
Weld End L1	in	8.00	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	51.00	60.00
	mm	203	241	292	356	495	622	699	787	864	978	1295	1524
Height H	in	7.56	8.86	10.24	11.65	15.51	17.52	19.57	21.69	24.57	29.21	35.47	41.65
	mm	192	225	260	296	394	445	497	551	624	742	901	1058
Weight	RF Kg	17	27	49	79	146	224	326	406	620	922	1024	2192
	BW Kg	12	17	35	55	108	186	267	313	540	816	874	1910

300LB

Description		Valve Size											
		2	3	4	6	8	10	12	14	16	20	24	30
Flanged End L	in	10.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	40.00	53.00	62.80
	mm	267	318	356	445	533	622	711	838	864	1016	1346	1594
Weld End L1	in	10.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	40.00	53.00	62.80
	mm	267	318	356	445	533	622	711	838	864	1016	1346	1594
Height H	in	8.19	9.41	10.20	12.91	15.59	18.27	21.14	22.56	24.76	30.16	34.13	51.50
	mm	208	239	259	328	396	464	537	573	629	766	867	1308
Weight	RF Kg	26	59	67	125	203	342	479	599	885	1388	1880	3996
	BW Kg	22	49	54	107	165	261	441	453	808	1013	1821	2865

For sizes out of above range, please consult DHV for details.



API 6D Swing Check Valve

Dimension

600LB

Description			Valve Size											
			2	3	4	6	8	10	12	14	16	20	24	30
Flanged End L	In		11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	47.00	55.00	65.00
	mm		292	356	432	559	660	787	838	889	991	1194	1397	1651
Weld End L ₁	In		11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	47.00	55.00	65.00
	mm		292	356	432	559	660	787	838	889	991	1194	1397	1651
RTJ L ₂	In		11.61	14.13	17.13	22.13	26.14	31.14	33.11	35.12	39.13	47.24	55.39	65.51
	mm		295	359	435	562	664	791	841	892	994	1200	1407	1664
Height H	In		9.02	11.30	12.83	16.69	19.45	21.34	24.25	26.42	28.78	34.57	43.90	52.56
	mm		229	287	326	424	494	542	616	671	731	878	1115	1335
Weight	RF	Kg	33	69	109	242	380	560	790	865	1418	2209	3111	5550
	BW	Kg	29	58	77	173	288	370	651	674	1000	1749	2510	4740

900LB

Description		Valve Size										
		2	3	4	6	8	10	12	14	16	20	24
Flanged End L	In	14.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.40	52.00	61.00
	mm	368	381	457	610	737	838	965	1029	1130	1321	1549
Weld End L ₁	In	14.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.40	52.00	61.00
	mm	368	381	457	610	737	838	965	1029	1130	1321	1549
RTJ L ₂	In	14.61	15.12	18.11	24.13	29.13	33.11	38.11	40.87	44.88	52.52	61.73
	mm	371	384	460	613	740	841	968	1038	1140	1334	1568
Height H	In	12.40	12.99	15.00	18.27	23.11	25.35	27.68	31.18	33.78	37.01	37.40
	mm	315	330	381	464	587	644	703	792	858	940	950
Weight	RF Kg	77	121	171	319	577	853	1122	1398	1945	4077	5290
	BW Kg	55	85	130	236	442	657	881	1154	1651	3620	4730

1500LB

Description		Valve Size										
		2	3	4	6	8	10	12	14	16	20	24
Flanged End L	In	14.50	18.50	21.50	27.80	32.80	39.00	44.50	49.50	54.50	65.50	76.50
	mm	368	470	546	705	832	991	1130	1257	1384	1664	1943
Weld End L ₁	In	14.50	18.50	21.50	27.80	32.80	39.00	44.50	49.50	54.50	65.50	76.50
	mm	368	470	546	705	832	991	1130	1257	1384	1664	1943
RTJ L ₂	In	14.61	18.62	21.61	27.99	33.11	39.37	45.12	50.24	55.39	66.38	77.64
	mm	371	473	549	711	841	1000	1146	1276	1407	1686	1972
Height H	In	12.40	14.96	16.85	22.09	26.77	31.10	34.65	38.90	41.73	52.56	62.99
	mm	315	380	428	561	680	790	880	988	1060	1335	1600
Weight	RF Kg	77	170	242	605	1014	1428	2332	3182	4676	8320	10200
	BW Kg	55	132	182	497	728	918	1782	2382	3637	7800	8733

2500LB

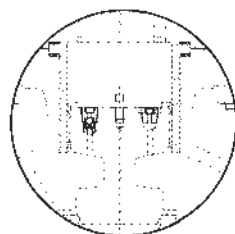
Description		Valve Size						
		2	3	4	6	8	10	12
Flanged End L	In	17.80	22.80	26.50	36.00	40.20	50.00	56.00
	mm	451	578	673	914	1022	1270	1422
Weld End L ₁	In	17.80	22.80	26.50	36.00	40.20	50.00	56.00
	mm	451	578	673	914	1022	1270	1422
RTJ L ₂	In	17.87	22.99	26.89	36.50	40.87	50.87	56.89
	mm	454	584	683	927	1038	1292	1445
Height H	In	15.00	16.69	22.17	26.65	30.79	36.81	43.31
	mm	381	424	563	677	782	935	1100
Weight	RF Kg	138	308	742	997	2662	4126	6056
	BW Kg	99	231	616	842	2178	3278	4789

For sizes out of above range, please consult DHV for details.

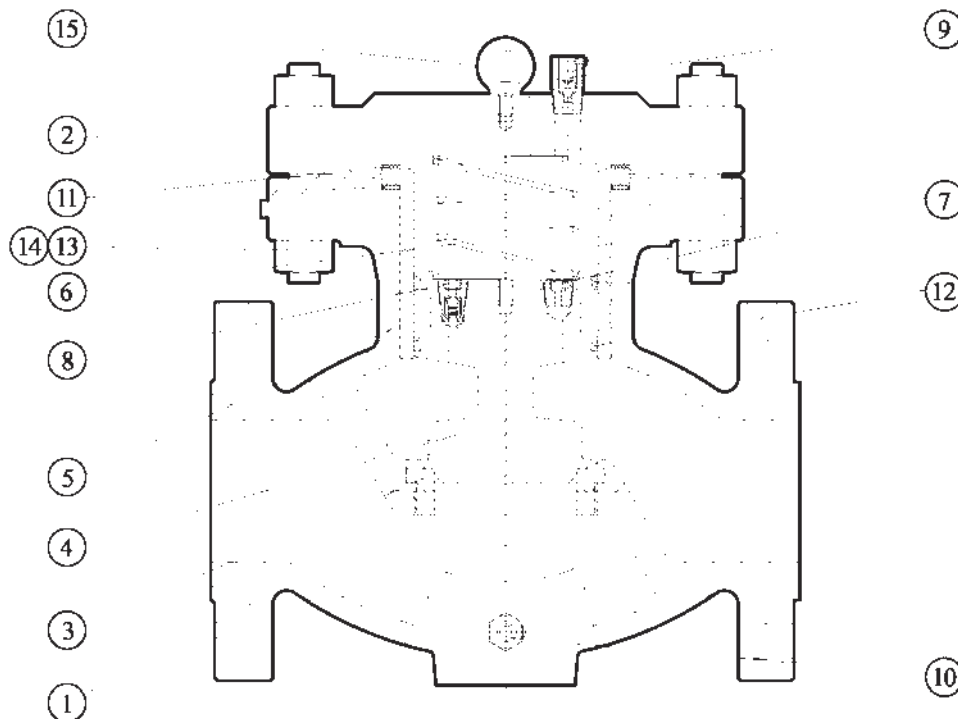


API 6D Piston Check Valve

Material List



≥4" No Spring



Standard Material Specifications

Trim Material		
DHV Trim Code	Seat Surface Part No.3	Piston Surface Part No.4
1	13CR	13CR
2	HF	HF
3	HF	13CR
4	Monel	Monel
5	316	316
6	HF	316
7	304	304
8	HF	304
9	INCONEL	INCONEL
A	HF	HF
B	DSS	DSS

Part Name		Carbon Steel to ASTM
1	Body	A216 WCB
2	Bonnet	A105
3	Seat	A105+Stellite
4	Piston	410SS+Stellite
5	Liner	Cast Iron+HCr
6	Spring	Inconel
7	Orifice Plug	316SS
8	Ball Check Valve	Assembly
9	Vent Fitting	Assembly
10	Drain Fitting	Assembly
11	Gasket	316SS+Graphite
12	Cast Iron Ring	Cast Iron / Peek
13	Stud	A193 B7M
14	Nut	A194 2HM
15	Hook Screw	Carbon Steel

Note: Part No 7 and 8 shall be removed for liquid service.



API 6D Piston Check Valve

Feature & Dimension

Features

- Bolted Bonnet
- Rising Type Disc
- Renewable Seat Rings Welded or Threaded
- Flanged Ends or Buttwelding Ends
- Metal Seat & Soft Seat Seal
- Quiet non-slam closure

Specifications

Basic Design: **API 6D ASME B16.34**

Face to Face: **DHV Standard**

End Flange:

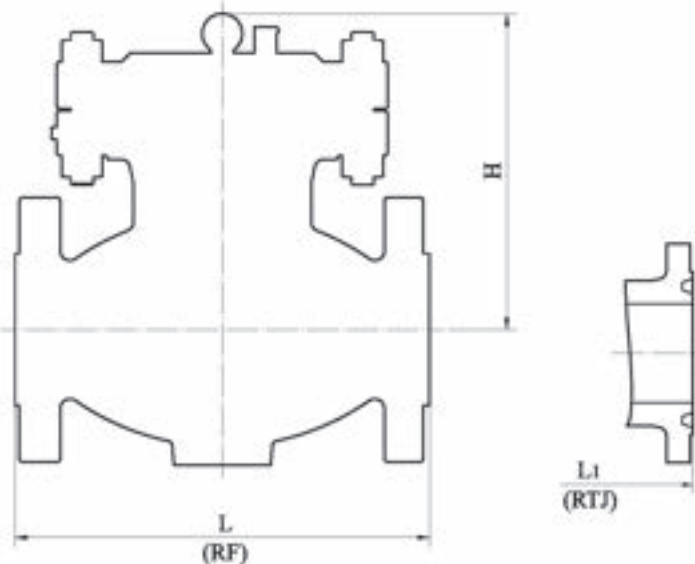
2"-24" **ASME B16.5**

26"-40" **ASME B16.47**

B.W End: **ASME B16.25**

Test and Inspection: **API 6D**

Manufacturing to NACE MR0175 on request



150LB										300LB										
Description			Valve Size								Valve Size									
			2	3	4	6	8	10	12	14	16	2	3	4	6	8	10	12	14	16
Flanged End L	in		8.00	9.50	11.50	16.00	19.50	24.50	27.50	31.00	34.00	10.25	14.75	17.63	19.38	22.50	29.63	32.00	35.25	39.38
	mm		203	241	292	356	495	622	699	787	864	260	375	448	492	571.5	753	813	895	1000
Height H	in		8.46	10.79	12.99	16.73	18.98	23.15	23.43	28.15	31.10	8.46	10.79	12.99	16.93	19.17	23.31	23.62	28.35	31.30
	mm		215	274	330	425	482	588	595	715	790	215	274	330	430	487	592	600	720	795
Weight	RF	Kg	26	42	68	138	271	448	595	888	1100	33	65	104	173	313	542	693	1043	1294

600LB											900LB							
Description		Valve Size									Valve Size							
		2	3	4	6	8	10	12	14	16	20	2	3	4	6	8	10	12
Flanged End L	in	11.00	14.75	18.50	20.75	24.00	30.88	33.63	37.00	41.25	55.50	13.63	14.88	19.38	21.88	24.88	31.38	33.88
	mm	279	375	470	527	610	784	854	940	1048	1410	346	378	492	556	632	797	860
RTJ L ₁	in	11.13	14.88	18.63	20.88	24.13	31.00	33.75	37.13	41.38	55.63	13.75	15.00	19.50	22.00	25.00	31.50	34.00
	mm	282	378	473	530	613	787	857	943	1051	1413	349	381	495	559	635	800	864
Height H	in	8.46	10.79	13.15	17.20	19.45	23.54	23.98	28.62	31.50	35.24	11.50	11.73	14.09	18.07	22.17	25.47	26.50
	mm	215	274	334	437	494	598	609	727	800	895	292	298	358	459	563	647	673
Weight	RF Kg	37	75	125	237	349	711	1056	1210	1544	3591	64	112	160	376	612	929	1334

1500LB									2500LB							
Description			Valve Size						Valve Size							
			2	3	4	6	8	10	12	2	3	4	6	8	10	12
Flanged End L	in	13.63	17.25	20.25	24.00	32.38	34.88	41.00	14.88	20.25	23.13	32.00	37.38	40.38	56.00	
	mm	346	438	514	610	822	886	1041	378	514	587	813	949	1026	1422	
RTJ L ₁	in	13.75	17.38	20.38	24.25	32.75	35.00	41.63	15.00	20.50	23.50	32.50	38.00	41.25	56.88	
	mm	349	441	518	616	832	889	1057	381	521	597	826	965	1048	1445	
Height H	in	9.44	11.73	13.52	19.38	22.06	26.20	27.41	10.88	12.50	15.00	18.94	23.25	23.25	31.19	
	mm	240	298	343	492	560	665	696	276	318	381	481	591	591	792	
Weight	RF	Kg	67	137	222	435	849	1675	2360	77	197	330	846	1588	1987	6350

For sizes out of above range, please consult DHV for details.

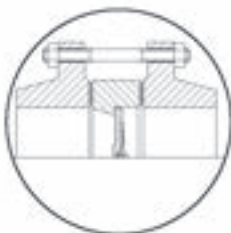
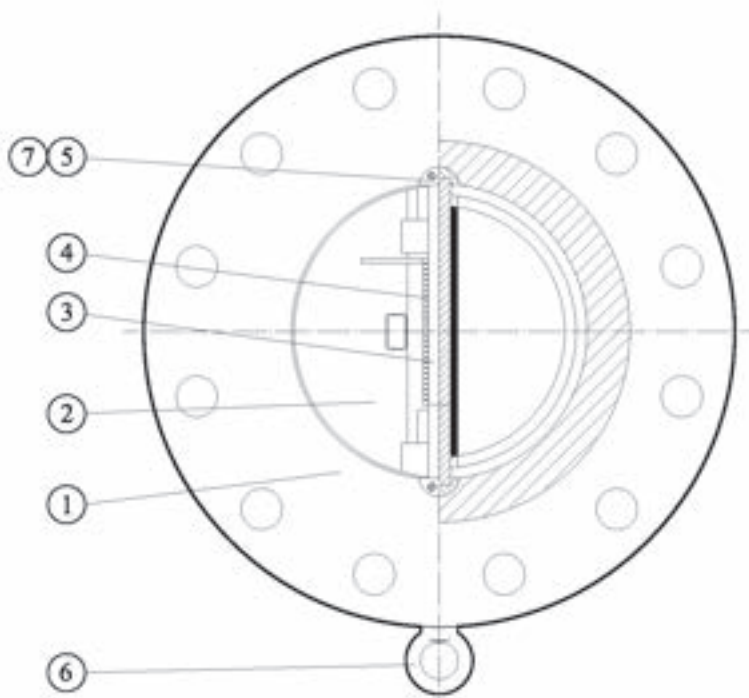


Dual-Plate Wafer Check Valve

Material List

Trim Material

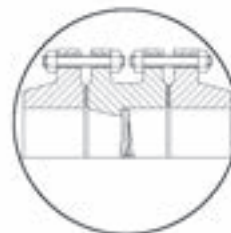
DHV Trim Code	Seat Surface Part No.3	Piston Surface Part No.4
1	13CR	13CR
2	HF	HF
3	HF	13CR
4	Monel	Monel
5	316	316
6	HF	316
7	304	304
8	HF	304
9	INCONEL	INCONEL
A	HF	HF
B	DSS	DSS



Wafer Type



Lug Type



Double Flanged Type

Standard Material Specifications

Part Name	Carbon Steel to ASTM			Alloy Steel to ASTM			Stainless Steel to ASTM		
1 Body	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
2 Disc	A216 WCB	A352 LCB	A352 LCC	A217 WC6	A217 C5	A217 C12	A351 CF8	A351 CF8M	A890 4A
3 Pin	A105	A350 LF2	A350 LF2	A105	A105	A105	A182 F304	A182 F316	A182 F51
4 Spring	Steel								
5 Holder Lock	A105	A350 LF2	A350 LF2	A105	A105	A105	A182 F304	A182 F316	A182 F51
6 Screw	Steel								
7 Pin Holder	A105	A350 LF2	A350 LF2	A105	A105	A105	A182 F304	A182 F316	A182 F51

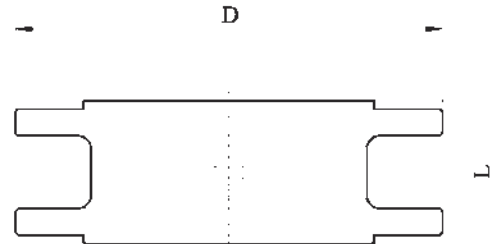


Dual-Plate Wafer Check Valve

Feature & Dimension

Specifications

Basic Design: **API 594**
 Face to Face Dimensions: **API 594**
 End Flange Dimensions: **ASME B16.5**
 Inspection and Testing: **API 598**
 Type: **Wafer, Wafer-Lug, and Double Flange**



150LB

Description			Valve Size															
			2	3	4	6	8	10	12	14	16	18	20	24	28	30	32	36
Flanged End L.	In		2.40	2.90	2.90	3.90	5.00	5.75	7.10	7.20	7.50	8.00	8.60	8.70	12.00	12.00	12.00	14.50
	mm		60	73	73	98	127	146	181	184	191	203	219	222	305	305	305	368
OD of flange D.	In		4.00	5.30	6.80	8.70	11.00	13.30	16.00	17.60	20.20	21.50	23.80	28.20	32.70	34.70	37.00	41.10
	mm		103	135	173	221	277	337	407	448	512	547	604	715	830	880	938	1045
Weight	RF	Kg	2	4	6	13	24	40	66	83	102	124	150	203	380	413	580	665

300LB

Description			Valve Size															
			2	3	4	6	8	10	12	14	16	18	20	24	28	30	32	36
Flanged End L.	In		2.40	2.90	2.90	3.90	5.00	5.75	7.10	8.70	9.10	10.40	11.50	12.50	14.50	14.50	19.00	
	mm		60	73	73	98	127	146	181	222	232	264	292	318	368	368	483	
OD of flange D.	In		4.33	5.79	7.05	9.80	12.01	14.13	16.54	19.02	21.14	23.39	25.67	30.39	35.28	37.40	39.53	43.86
	mm		110	147	179	249	305	359	420	483	537	594	652	772	896	950	1004	1114
Weight	RF	Kg	3	5	7	17	32	50	81	117	158	200	285	380	586	696	986	1070

600LB

Description			Valve Size															
			2	3	4	6	8	10	12	14	16	18	20	24	28	30	32	36
Flanged End L.	In	2.36	2.87	3.11	5.35	6.50	8.39	9.02	10.75	12.01	14.25	14.49	17.24	19.88	19.88	19.88	25.00	
	mm	60	73	79	136	165	213	229	273	305	362	368	438	505	505	505	635	
OD of flange D.	In	4.33	5.79	7.52	10.39	12.52	15.67	17.91	19.29	22.13	24.02	26.77	30.94	35.91	38.11	40.16	44.41	
	mm	110	147	191	264	318	398	455	490	562	610	680	786	912	968	1020	1128	
Weight	RF	Kg	3	5	9	27	48	94	115	187	261	365	453	705	995	1180	1675	2110

900LB

Description			Valve Size															
			2	3	4	6	8	10	12	14	16	18	20	24	28	30	32	36
Flanged End L.	in		2.76	3.27	4.02	6.26	8.11	9.49	11.50	14.02	15.12	17.76	17.76	19.49	22.01	22.01	22.01	27.60
	mm		70	83	102	159	206	241	292	356	384	451	451	495	559	559	559	701
OD of flange D.	in		5.51	6.50	8.03	11.26	14.02	17.01	19.49	20.47	22.52	25.04	27.40	32.87	37.17	39.69	42.13	47.17
	mm		140	165	204	286	356	432	495	520	572	636	696	835	944	1008	1070	1198
Weight	RF	Kg	6	10	17	41	80	135	212	335	395	600	810	1030	1450	1820	2100	3250

1500LB

Description		Valve Size											
		2	3	4	6	8	10	12	14	16	18	20	24
Flanged End L.	In	2.76	3.27	4.02	6.26	8.11	9.76	12.01	14.02	15.12	18.43	20.98	22.01
	mm	70	83	102	159	206	248	305	356	384	468	533	559
OD of flange D.	In	5.51	6.77	8.19	11.06	13.78	17.05	20.39	22.68	25.20	27.68	29.69	35.35
	mm	140	172	208	281	350	433	518	576	640	703	754	898
Weight	RF Kg	8	10	17	50	96	176	287	433	580	780	1250	2700

2500LB

Description		Valve Size							
		2	3	4	6	8	10	12	
Flanged End L.	In	2.76	3.39	4.13	6.26	8.11	10.00	12.01	
	mm	70.00	86.00	105.00	159.00	206.00	254.00	305.00	
OD of flange D.	In	5.63	7.64	9.13	12.44	15.20	18.70	21.57	
	mm	143	194	232	316	386	475	548	
Weight	RF Kg	9	16	30	85	124	223	395	

For sizes out of above range, please consult DHV for details.



Product Specification

Description	Basic Design	Class	Size															
			2	3	4	6	8	10	12	14	16	20	24	30	36	42	48	52
Gate Valve	API 600 ASME B 16.34	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	API 603	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Globe Valve	BS 1873 API 623	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check Valve	BS 1868 API 594	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Parallel Slide Gate Valve	ASME B16.34	600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pressure Seal Gate Valve	API 600 MSS SP-144	600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pressure Seal Globe Valve	ASME B16.34	600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pressure Seal Check Valve	ASME B16.34	600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Slab Gate Valve	API 6D	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Expanding Gate Valve	API 6D	150					*	*	*	*	*	*	*	*	*	*	*	*
		300				*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Swing Check Valve	API 6D	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Piston Check Valve	API 6D ASME B 16.34	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Plug Valve	API 6D API 599 ASME B 16.34	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Dual-Plate Wafer Check Valve	API 594	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		600	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		900/1500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		2500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

DHV will develop more size and class to meet client special requirement. Consult DHV for latest complete product scope.



Terms & Conditions

1. DEFINITIONS

(a) "The CONTRACT" - The General Conditions of Orders together with COMPANY'S quote and any exhibits, attachments and other documents incorporated by reference.

(b) "The PRODUCTS" - valves and related products and services as well as their packaging that form the subject-matter of the CONTRACT.

(c) "The COMPANY" - DHV Industries, Inc. or DHV Valve Company, Inc. or alternatively any affiliated company named in COMPANY'S quotation.

(d) "The CUSTOMER" - The individual, firm, partnership, company or other party with whom the Company contracts.

(e) "FORCE MAJEURE" - Any cause or circumstances (including but not limited to, act of God, fire, storm, flood, drought, earthquake, malicious damage, shortage of material, manufacturer's inability to provide the Product, embargo, riot, strike, lock-out, trade dispute, civil disturbance, war, compliance with any law or government order, rule or direction or any other event or accident) beyond the reasonable and direct control of COMPANY.

2. SCOPE

(a) These General Conditions set out the standard terms on which the COMPANY supplies PRODUCTS to the CUSTOMER. Accordingly, these General Conditions apply to all quotations and sales unless otherwise agreed in writing.

(b) The legality, validity, and enforceability of other clauses in these General Conditions will not be affected if one of the clauses is, or becomes illegal, invalid, or unenforceable.

(c) We reserve the right to institute changes in material, design and specification without notice.

3. QUOTATIONS AND ORDERS

(a) Unless otherwise expressly stipulated, all of the COMPANY'S quotations and prices are subject to change without notice, and to availability. Prices are valid only for the duration indicated in the quotation and are subject to change without notice.

(b) Any written or oral purchase order received from the CUSTOMER by the COMPANY ("Order") shall be interpreted as a written acceptance of the COMPANY'S offer to sell, and shall be filled in accordance with the terms and conditions of the sale set forth herein. The terms and conditions of the Company's proposal (if at all any) shall prevail over any conflicting or different terms in CUSTOMER'S orders unless the CUSTOMER notifies the COMPANY in writing of its objections thereto within the earlier of the date of shipment of the Product or fifteen (15) days from receipt of COMPANY'S General Conditions. CUSTOMER'S standard terms of purchase will not be considered as a counter-offer to COMPANY'S terms and conditions of sale. The COMPANY will not be bound by conflicting purchasing conditions or reservations made by the CUSTOMER even if the COMPANY does not explicitly contradict the conditions or reservations.

(c) No order in pursuance of any quotation or otherwise shall be binding on the COMPANY unless and until such an order is accepted by the COMPANY. The COMPANY may reject any order in whole or part. A contract between the COMPANY and CUSTOMER is finalized once the COMPANY issues a telephonic, electronic, or written order confirmation to the CUSTOMER or ships the Product to the CUSTOMER. Except as otherwise specifically provided herein, the Order is the final and complete expression of the agreement between the parties, setting forth the entire agreement between the parties regarding this transaction and including all promises and representations both express and implied. Any matters not contained herein, or otherwise referenced or incorporated herein, are not part of the Order.

(d) Subject to the specific procedures for changes to the Order, none of the terms and conditions contained herein may be added to, modified, superseded, or otherwise altered except by a written instrument specifically referencing the affected provision of the Order signed by the President or Vice President of the COMPANY.

4. PRICES

(a) All prices shown are in U.S. dollars and are F.O.B. COMPANY'S shipping point, unless otherwise expressly agreed to by COMPANY.

(b) Prices exclude any duties, federal, state or local taxes or other government charges and delivery costs, which the CUSTOMER must pay unless the law specifically provides that the COMPANY must make such payment in which case the CUSTOMER shall reimburse the COMPANY for such payments as part of the purchase price. All prices include the COMPANY'S

standard packing, but not pallets or crating for export goods.

5. PAYMENTS AND LICENSES

(a) Payment must be made in the currency specified in COMPANY'S invoice.

(b) The CUSTOMER must pay the full invoice amount before the shipment from the date of the invoice unless otherwise agreed in writing. The COMPANY is entitled to charge interest on overdue payments at the greater of the following two rates: (a) 1.5% monthly or (b) 2% annually above the current monthly base rate of the COMPANY'S bank. In no event shall the interest rate be higher than the maximum rate permitted by applicable law.

(c) In addition to exercising its rights at common law or under statute, the COMPANY is entitled to terminate the CONTRACT by written notice to the CUSTOMER if the CUSTOMER is in material breach of its obligations under the CONTRACT or any other agreements with the COMPANY. The CUSTOMER is in material breach:

- If it fails to meet its liabilities when they fall due;
- If it seeks a composition with its creditors;
- If all or part of its property is subject to receivership; or
- If a petition for liquidation, winding-up or administration is filed in respect of the CUSTOMER.

(d) The CUSTOMER is not entitled to withhold, set off or deduct claims against the COMPANY from an amount that it owes the COMPANY under the CONTRACT or other agreement with the COMPANY.

(e) The COMPANY is obligated to deliver a PRODUCT only if the CUSTOMER has made due payment of all amounts that it owes to the COMPANY at the date of delivery under the CONTRACT or other agreement with the COMPANY. The COMPANY is entitled to suspend delivery of a PRODUCT if the CUSTOMER is in default without this affecting the COMPANY'S other rights under the CONTRACT or other agreement with the CUSTOMER. The COMPANY is not obligated to resume deliveries until the CUSTOMER has paid all overdue amounts, including all expenses and accrued interest.

(f) It is the CUSTOMER'S exclusive responsibility to obtain all licenses, exchange control documents and other consents needed for the import and use of the PRODUCTS as well as for payment of the PRODUCTS. The CUSTOMER will not be discharged from his obligations under these General Conditions because he fails to obtain a license or other consents.

6. DELIVERY AND FORCE MAJEURE

(a) While the COMPANY will endeavor to deliver the PRODUCTS by any date or within any period agreed upon, such dates and periods are estimates only given in good faith and the COMPANY will not be liable for any failure to deliver by such date or within such a period. Time for delivery shall not be of the essence of the CONTRACT.

(b) Should the COMPANY be delayed in or prevented from making the delivery of the PRODUCTS due to Force Majeure, the COMPANY may terminate the CONTRACT or suspend the Order without incurring any liability for any loss or damage arising there from, but without prejudice in any such case to rights accrued to the COMPANY for deliveries already made.

(c) Unless otherwise agreed to in writing by the COMPANY, the COMPANY shall deliver the PRODUCTS by the means most convenient to the COMPANY to the address or addresses specified by the CUSTOMER at the time of placing the Order or (in the event that the CUSTOMER fails so to specify an address) to an address at which the CUSTOMER resided or carries on business. The PRODUCTS are considered to be delivered when they are physically handed over to 1) the CUSTOMER, 2) the CUSTOMER'S agent or a person that the CUSTOMER has authorized to take delivery, or (3) the carrier, regardless of who pays shipping costs. The COMPANY shall be entitled to add to the contract price a reasonable charge for packaging, delivery and insurance. Off-loading will be at CUSTOMER'S expense.

(d) The CUSTOMER is obligated to pay all costs that the COMPANY incurs because of the CUSTOMER'S failure to take delivery either 1) on the date stated in the invoice or the COMPANY'S confirmation, or 2) when the PRODUCTS are ready, if the COMPANY has notified the CUSTOMER in writing of their readiness and the CUSTOMER has not taken delivery within seven days or any period to which the parties agree.

(e) If the COMPANY is responsible for delivery, the CUSTOMER must thoroughly inspect the PRODUCTS sent at the COMPANY'S risk. The CUSTOMER is to notify the COMPANY in writing immediately of loss, damage or shortage of PRODUCTS. If the CUSTOMER does not receive the PRODUCTS on the agreed date of delivery, it is to notify the COMPANY within 48 hours of the agreed date of delivery. The COMPANY disclaims all liability, and the CUSTOMER waives its rights of recovery, under this provision unless the CUSTOMER'S information is sufficient to



Terms & Conditions

allow the COMPANY to make a valid claim against the carrier of the PRODUCTS for their loss or damage.

(f) If the CUSTOMER is responsible for delivery, the COMPANY will not be responsible for delays or failure to deliver by the carrier set up by the CUSTOMER or due to causes beyond the COMPANY control. Delivery of material to a common carrier shall be considered delivery to the Buyer. Claims for loss or any damage to material in transit shall be filed by the Buyer direct with the carrier. Claims for any shortage, corrections or deductions must be made in writing within 48 hours after receipt of goods.

7. PASSING OF RISK AND TITLE, CANCELLATION AND RETURNS

The COMPANY'S liability for the PRODUCTS passes from the COMPANY to the CUSTOMER on the earlier of the following two dates: 1) the date when the PRODUCTS are delivered to the CUSTOMER, the CUSTOMER'S agent, or a person that the CUSTOMER has authorized to accept delivery, or 2) the agreed date of delivery, if the CUSTOMER fails to take delivery as required.

(a) Under the CONTRACT.

(b) The COMPANY remains the owner of the PRODUCTS until it receives full payment for all PRODUCTS whether or not the PRODUCTS are delivered to the CUSTOMER. If the CUSTOMER sells the PRODUCTS to a third party before the COMPANY receives full payment, the proceeds of the sale shall first apply to pay all amounts due to the COMPANY. The COMPANY or its representative is entitled to recover or resell the PRODUCTS and to enter the CUSTOMER'S premises for that purpose, without this affecting its other rights; if the CUSTOMER has not paid the full purchase price or if insolvency proceedings are commenced against the CUSTOMER.

(c) Purchase Orders once placed by CUSTOMER and accepted by COMPANY can be cancelled only with COMPANY'S written consent and upon terms which will save COMPANY from loss. No PRODUCTS may be returned for credit or adjustment without written permission from COMPANY'S officer authorized to issue such permission.

(d) All sales are final. This means that the CUSTOMER is not entitled to credit for returned PRODUCTS whether or not the CUSTOMER has made a complaint or a claim. If the Company expressly agrees in writing that the COMPANY will credit the CUSTOMER for returned PRODUCTS, the CUSTOMER must return the PRODUCTS promptly, carriage-paid, and in the COMPANY'S opinion in good condition to receive the credit. If the COMPANY expressly agrees in writing that the CUSTOMER can return the PRODUCTS, cancel order or change order, the CUSTOMER will be charged for work performed, based on the following schedule. All freight for return or cancelled/changed goods shall be prepaid by CUSTOMER.

- Twenty Five (25%) percent of price on stock items.
- Fifty (50%) percent of price of stock items ordered in quantities which exceed normal inventory levels.
- Twenty Five (25%) percent of price prior to drawing submittal on made to order items.
- Forty (40%) percent on drawing approval, but prior to start of castings.
- Seventy (70%) percent during casting cycle, dependent on the state of completion.
- One Hundred (100%) percent on castings that are not standard materials used by COMPANY in daily sales; i.e. Stainless Steel, Duplex, Nickel, etc.
- Eighty (80%) during machining and assembly operations, this is dependent on the state of completion.
- One Hundred (100%) percent after final assembly and test.
- Special Product Orders: or non standard products are not subject to any schedule level of cancellation, except on such terms as COMPANY may specify on application only.

8. WARRANTY AND LIMITATIONS OF LIABILITY

(a) As to all PRODUCTS sold hereunder, the COMPANY expresses no warranties whatsoever but only assigns to CUSTOMER all transferable warranties and remedies granted by the manufacturer of such PRODUCTS to which COMPANY is entitled and CUSTOMER agrees to look solely to such manufacturers with regard to claims and remedies relating to such PRODUCTS. THE COMPANY SPECIFICALLY DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND SATISFACTORY QUALITY. THE COMPANY MAKES NO WARRANTIES AND REPRESENTATIONS, AS TO QUALITY, CAPABILITIES, OPERATIONS, NON-INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS, PERFORMANCE AND SUITABILITY OF THE PRODUCTS.

(b) LIMITATION OF LIABILITY. CUSTOMER'S EXCLUSIVE REMEDY AGAINST COMPANY FOR DEFECTS IN THE PRODUCTS IS THE MANUFACTURER'S WARRANTY SET FORTH IN SECTION 8 (a). THE PARTIES AGREE THAT UNDER NO CIRCUMSTANCE SHALL THE

COMPANY HAVE ANY LIABILITY WHATSOEVER FOR ANY CLAIM ARISING FROM OR RELATING TO THE ORDERS OR THE PRODUCTS FOR AN AGGREGATE AMOUNT IN EXCESS OF THE INVOICED PRICE FOR THE PRODUCTS.

(c) The COMPANY shall not be liable for any damage resulting from delays, failure of the PRODUCTS, loss of profit or revenues, loss of time or loss of use, cost of capital, diminution of goodwill, or claims of CUSTOMER'S customers.

(d) IN NO CIRCUMSTANCES WILL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, PUNITIVE OR INDIRECT LOSS OR DAMAGE WHATSOEVER.

(e) The COMPANY is not liable if the CUSTOMER'S use of the PRODUCTS infringes on a third party's patent rights.

(f) Any exclusions or limitations of liability in this CONTRACT in favor of the COMPANY are agreed to be extended for the benefit of all COMPANY'S and/or individuals within the COMPANY'S group of COMPANIES. The CUSTOMER agrees in the appointment of the COMPANY as its agent or trustee solely for the extension of the benefit of the exclusions and limitations of liability. All duties, liabilities and obligations that would otherwise result from this agency are expressly excluded.

(g) The COMPANY warrants the PRODUCTS provided to the original CUSTOMER, not any third party, for a period of one year after date of shipment, that PRODUCTS will be free from defects in materials and workmanship under proper and normal installation and use. Any claim for defect goods should be by written notice to the COMPANY immediately upon discovery. NO warranty shall apply to PRODUCTS which has been modified or changed in design or function, misused, or improperly maintained. The COMPANY shall be able to inspect claimed defects at original CUSTOMER's facility to determine its obligation. Without written authorization of COMPANY, any repair labor or material is not allowed. No PRODUCTS may be returned without written permission from COMPANY.

9. SPECIFICATION, INSTRUCTIONS AND/OR DESIGN

If PRODUCTS are modified to a specification, instruction or design supplied by CUSTOMER or any third party on behalf of CUSTOMER, then:

(a) The suitability and accuracy of that specification, instruction and/or design will be CUSTOMER'S responsibility.

(b) The CUSTOMER will indemnify COMPANY against any infringement or alleged infringement of any third party's intellectual property rights including but not limited to patent, design right, registered design, trademark, trade name or copyright and any loss, damage or expense which it may incur by reason of any such infringement or alleged infringement in any country, and

(c) The CUSTOMER will indemnify COMPANY against any loss, damage or expense in respect of any liability arising in any country by reasons of the PRODUCTS being made to such specification, instruction or design.

10. CHOICE OF LAW AND JURISDICTION

(a) The laws of the State of California, including the Uniform Commercial Code, shall govern this CONTRACT. Jurisdiction and venue shall be the Superior Court of Kern County, Bakersfield, California. However, the CUSTOMER expressly agrees that the COMPANY may take action in another jurisdiction to obtain security for the COMPANY'S claims under the CONTRACT.

(b) The CONTRACT constitutes the entire agreement between the COMPANY and the CUSTOMER concerning the supply of the PRODUCTS. The CUSTOMER agrees that he has no other rights of recourse to the COMPANY other than those expressly stated in these General Conditions. The General Conditions apply whether or not the CUSTOMER has a cause of action because the COMPANY or its representative has acted negligently.

11. ATTORNEY'S FEES

In the event of any litigation or arbitration or any quasi-judicial or administrative proceeding involving the parties hereto to enforce any provision of this Agreement, to enforce any remedy available upon default hereunder, or seeking a declaration of the rights of either party hereunder, the prevailing party shall be entitled to recover from the other such attorney's fees and costs as may be reasonably incurred, including the costs of reasonable investigation, preparation and professional or expert consultation incurred by reason of such litigation, arbitration or proceeding. Sums actually expended in the prosecution or defense of any litigation, arbitration or proceeding within the meaning of the foregoing sentence shall be prima facie evidence of reasonable attorneys' fees, costs and disbursements.

Seeking a Great Name in Valve Technology

Please visit our DHV website: www.dhvindustries.com or www.dhvvalve.com for a copy of our API 6D monogram certificate. Customer and Project referrals are available upon request. For certified data and current specifications, please contact us or your local DHV agent. Information provided in this catalog is for general purposes only.

DHV reserves the right to discontinue the manufacture or change and modify our design and construction of any DHV product, in due course of our manufacturing procedure without incurring any obligation to accept for credit, to replace or furnish or install such changes or modifications on products previously or subsequently sold.



DHV Industries, Inc.

3451 Pegasus Drive Bakersfield, CA 93308 U.S.A.

Call Toll Free: (877) DHV-USA1

Phone: (661) 392-8948 Fax: (661) 392-8947

E-mail: sales@dhvindustries.com

Website: www.dhvindustries.com

Your local DHV agent