Fluidline

600-0008
AN API 600 LICENSEE

6D-0504
AN API 6D LICENSEE

AN ISO-9001 COMPANY

Dual Plate Check Valve

Dual Plate Check Valves

Fluidline

High performance wafer check valves. They are available in the sizes, pressure classes and configurations you need to meet the demands of your applications. Our product range includes, but is not limited to:

Sizes: 2" to 40"

- ASME Pressure Class 125 through 1500
- API 6D and API 598 pressure classes
- Wafer, lug, double flanged and extended body styles
- Configurations available in retainerless style

Body Materials: Cast Iron, Cast Steel,

- 316 Stainless Steel. All alloys

Resilient Seat Materials:

- EPDM, Buna-N, Neoprene,
- Refrigeration-grade elastome
- Integral and overlaid metal seats also available

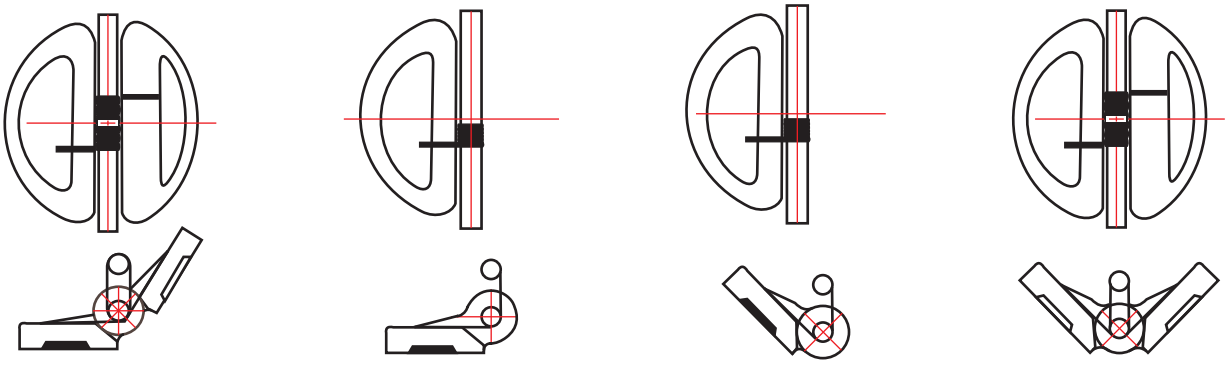
End Connections:

- Raised Face, Plain Face, Ring Joint, Weld-End

Industries Standards*	
API 594	Valve Design
API 598	Valve Pressure Testing & Inspection
ASME B16.5 & B16.47	Flanges
ASME B16.34	Pressure / Temperature Ratings
API 6D	Pipeline Valves

*Duo-Chek meets or exceed these industry standards.

Independent Spring Design



Industries we Serve		
Petroleum Refining	Chemicals	Marine
Oil and gas Production	Power Generation	Water and Wastewater
Petrochemicals	Steel/Primary Metals	Pulp and Paper

Wafer Installation Dimensions

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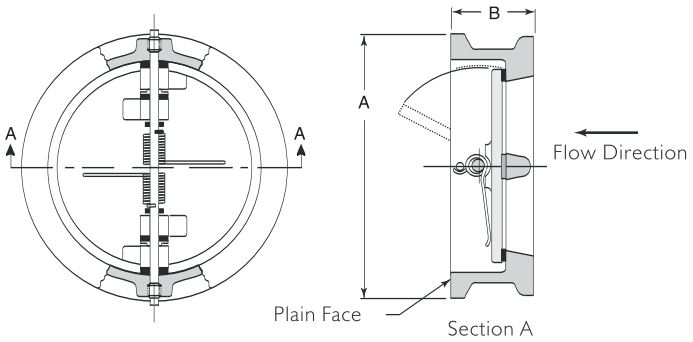

The view is rotated 90° to show the actual operating position of the valve. The pin must be vertical for horizontal flow.

Style G wafer style body valves are designed with flange less bodies with relatively short face-to-face dimensions. They are clamped between mating flanges which are connected by studs and nuts.

SIZE		SERIES	A	B	WT
INCH	MM		MM	MM	KG
2	50	150	105	60	3
		300	111	60	3
		600	111	60	3
		900	143	70	6
		1500	143	70	6
2.5	65	150	124	67	5
		300	130	67	5
		600	130	67	5
		900	165	83	7
		1500	165	83	7
3	80	150	137	73	6
		300	149	73	7
		600	149	73	7
		900	168	83	11
		1500	175	83	11
4	100	150	175	73	8
		300	181	73	8
		600	194	79	12
		900	206	102	81
		1500	210	102	20

SIZE		SERIES	A	B	WT
INCH	MM		MM	MM	KG
8	200	15	279	127	32
		300	308	127	37
		600	321	165	61
		900	359	206	104
		1500	352	206	99
10	250	150	340	146	48
		300	362	146	57
		600	400	213	108
		900	435	241	176
		1500	435	248	180
12	300	150	410	181	78
		300	422	181	91
		600	457	229	151
		900	498	292	245
		1500	521	305	329
14	350	150	451	184	91
		300	486	222	147
		600	492	273	206
		900	521	356	420
		1500	578	356	430
16	400	150	514	191	125
		300	540	232	188
		600	565	305	290
		900	475	384	523
		1500	641	384	627
18	450	150	549	203	143
		300	597	264	252
		600	613	362	404
		900	638	451	598
20	500	150	606	21	197
		300	654	29	329
		600	683	36	508
		900	699	45	647
24	600	150	718	222	2811
		300	775	318	499
		600	791	438	925
		900	838	495	1238
26	650	150	775	356	705
		300	835	356	728
		600	867	557	1148
30	750	150	883	330	558
		300	953	368	930
		600	972	505	1531
36	900	150	1048	387	915
		600	1130	635	2858

Double Flange Retainerless Valve

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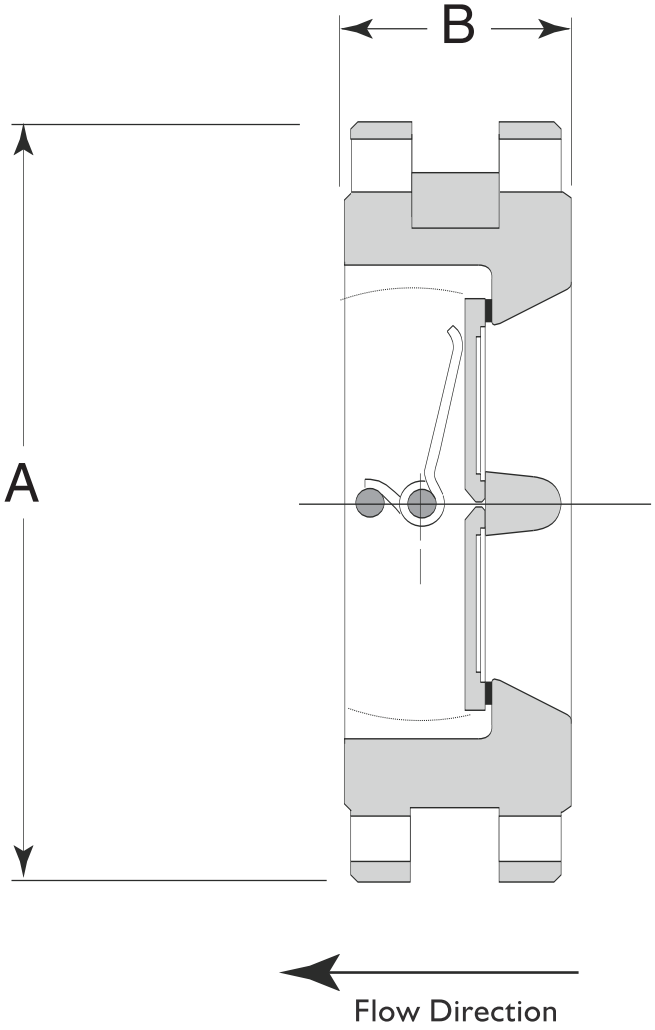
Double Flanged Style Valves bolt up similar to a bolted cap swing check or gate valve. Double flanged versions are offered as standard on larger size valves where the lay length of the body permits installation of two heavy nuts between the flanges. These valves are standard retainer less design.



SIZE		SERIES	A	B	WT
INCH	MM		MM	MM	KG
8	200	150	343	127	42
10	250	150	406	146	86
12	300	150	483	181	99
		300	521	181	152
		600	559	229	277
		900	610	292	349
14	350	150	533	184	124
		300	584	222	195
		600	603	273	309
		900	641	356	561
16	400	150	597	191	160
		300	648	232	280
		600	685	305	430
		900	705	384	548
18	450	150	635	203	185
		300	711	264	385
		600	743	362	553
		900	787	451	835
20	500	150	699	219	250
		300	775	292	488
		600	813	368	728
		900	857	451	1787
24	600	150	813	222	389
		300	914	318	686
		600	940	445	1111
		900	1041	495	1893
30	750	150	984	330	687
		300	1092	368	1406
		600	1130	505	1735
36	900	150	1168	387	1145
		300	1270	483	2109
		600	1314	635	2747

Lug Retainerless Valve

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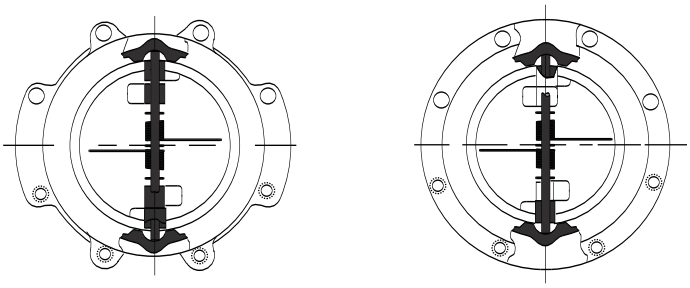
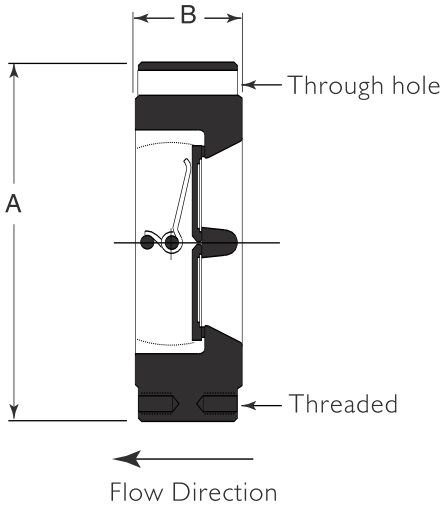
Lug Style valves cover the bolting for the entire length of the body. Lug valves are furnished in scallop and full body designs. Scallop is furnished whenever possible to maintain the design. Scallop is furnished whenever possible to keep weight to a minimum. These valves are standard retainerless design. Lug valves are furnished with through-hole bolting in accordance with API 594. Threaded bolt holes are available when specified, however the valve should not be used for dead end service.



Scallop Full Body

Pin must be vertical for horizontal flow.



SIZE		SERIES	A	B	WT
INCH	MM		MM	MM	KG
2	50	150	152	60	8
		300	152	60	8
		600	152	60	8
		900	216	70	17
		1500	216	70	17
2.5	65	150	191	67	8
		300	191	67	10
		600	191	67	10
3	80	150	210	73	8
		300	210	73	14
		600	210	73	14
		900	241	83	26
		1500	267	83	32
4	100	150	229	73	13
		300	254	73	16
		600	273	79	23
		900	292	102	45
		1500	311	102	51
5	125	150	254	86	16
		300	279	86	23
6	1500	150	249	98	22
		300	318	98	38
		600	356	137	83
		900	381	159	114
		1500	394	159	119
8	200	300	381	127	61
		600	419	165	134
		900	470	206	200
		1500	483	206	221
10	250	300	445	146	123
		600	508	213	245
		900	546	241	357
		1500	584	248	416
12	300	1500	673	305	646
16	400	1500	826	384	1179
18	450	1500	914	468	1761
20	500	1500	984	533	2580
24	600	1500	1168	559	3236

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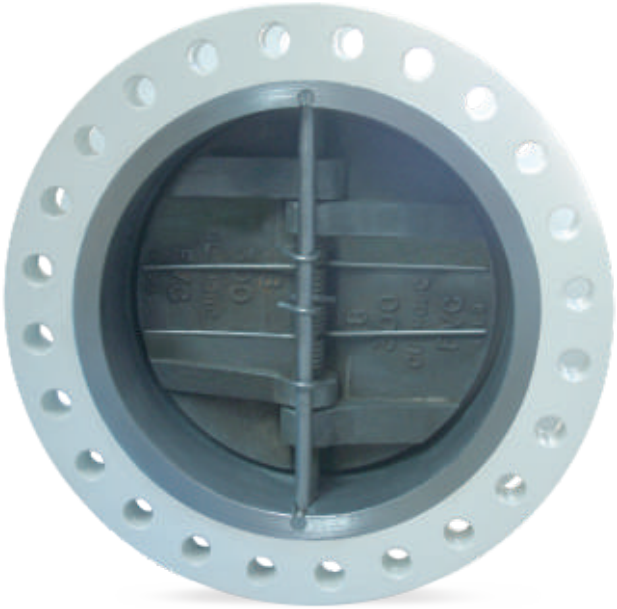


Coated & Lined Valves may be with linings, when specified, for abrasion or corrosion resistance. Linings include Natural Rubber, Neoprene, and others. All body surfaces of lined valves are covered with the specified material eliminating the need for gaskets. Hinge and stop pin holes are encapsulated to seal them against line fluids. Solid alloy valves are recommended for extremely corrosive applications. a variety of coatings may be provided on request to resist corrosion or abrasion . Some of the commonly specified coatings include epoxies, coal tar derivatives and sacrifical zinc primers. Please discuss your requirements with your sales office

Valve Coefficient Cv

Valve Size		Class 125-300
in	mm	
2"	50	83
2.5"	65	105
3"	80	210
4"	100	415
5"	127	532
6"	150	821
8"	200	1,749
10"	250	3,212
12"	300	4,917
14"	350	6,457
16"	400	9,559
18"	450	12,034
20"	500	15,719
24"	600	25,300
30"	750	40,920

Spring Information

Spring Selection Guide		
Spring Material	Operating Temperature Range	
	°C	°F
Type 316 S.S.	-129 to 120	-200 to 250
Inconel 600	-250 to 315	-420 to 600
Inconel X-750	-250 to 537	-420 to 1000

Other Specials furnished include:

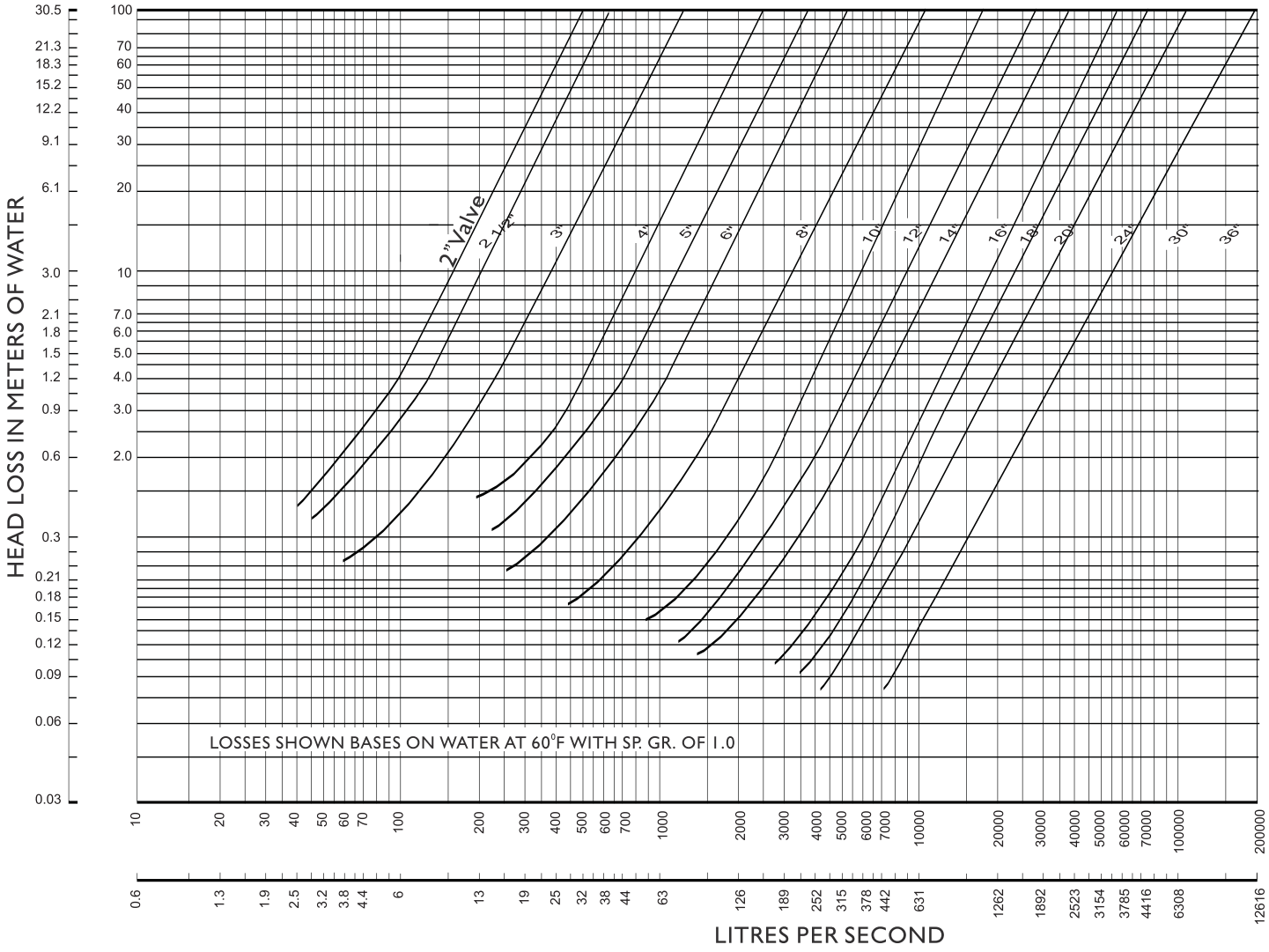
- Valves to comply with NACE MR-01-75
- Special testing for valves, including radiography, magnetic particle, dye penetrant, ultrasonic, helium leak, etc.

- Spring materials are included in trim materials as an important part of materials selection. The most common standard trim materials are shown under Ordering Information.

Pressure Loss Information

The curves show pressure drops available with standard springs and the valves in horizontal flow.

Chek valves should be installed in horizontal flow with pins vertical for best performance.
For other installations, contact the factory.



Standard material for gate, globe and check valves

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PART NO	ITEM	CARBON STEEL	HIGH TEMPERATURE STEEL	STAINLESS STEEL	LOW TEMPERATURE CARBON STEEL
1	BODY	ASTM A 216 GR.WCE	ASTM A 217 GR.WC9	ASTM A3 51 GR.CF8M	ASTM A 352 GR.LGB/C
3	WEDGE/DSC	ASTMA216 GR.WCB	ASTMA217 GR.WC9	ASTMA351 GR.CFTM	ASTM A 352 GR.LCB/C
			ASTM A 276 TP 410	ASTMA276 TP316	ASTM A 276 TP 316
4	SPINDLE / HINGE PIN	ASTM A 276 TP 410	ASTM A 276 TP 410	ASTMA276 TP316	ASTM A 276 TP 316
D5	SEATS	13%CR/STELLITED	HF WITH STELLITE6	INTEGRAL	ASTM A 276 TP 316
			A 193 GR.B7	A 193 GR.B8	A 193 GR L7
			A 194 2H	A 194 GR.8	A 194 GR 7
9	GASKET				
		ASTM A 105	ASTM A 105	STAINLESS STEEL GR.316	STAINLESS STEEL GR.304
		ASTM A 276 TO 410	ASTM A 276 TO 411	S.S.316	S.S. 304
		ASTM A 307 GR.B	ASTM A 307 GR.B	ASTM A 307 GR.B	ASTM A 307 GR.B
		AISI 4140/ASTM A 439 D2	AISI 4140/ASTM A 439 D2	AISI 4140/ASTM A 439 D2	AISI 4140/ASTM A 439 D2
		ASTM A 276 TP 410	ASTM A 276 TP 316	ASTM A 276	ASTM A 276 TP
		CAST IRON	CARBON STEEL	CARBON STEEL	CARBON STEEL
		CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
		ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.BM	ASTM A 352 GR.LCB/C
		SKF/FAG	SKF/FAG	SKF/FAG	SKF/FAG
		ALLUMINIUM	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
		CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
		A 182 F6 A 182 CR.FG	A 182 F6	A 182 F6	A 182 F 304
		INCONE 750	INCONE 750	INCONE 750	INCONE 750

ALLOY STEEL	WC6, C5, C12
STAINLESS STEEL	CF8, CF3, CF3M, CN7M
NON FERROUS	DUPLEX STAINLESS STEEL, SUPER DUPLEX STAINLESS STEEL NI-CR, NI-CU MONEL (K-400 / K-500)
	BRONZE - BS 1400 LG2/ASTM B 62
	ALLUMINIUM BRONZE - BS 14000 AB2

Due to constant changes and advancements in standards and technology. We reserved our right to make changes in technical and dimensional details without prior notice.

* Items marked as '0' are avilable as operational spares.

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