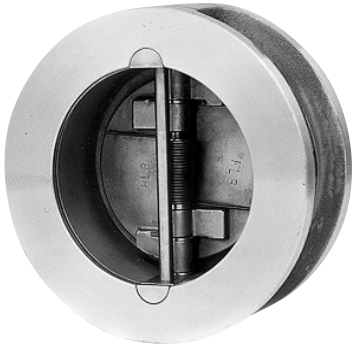


Style H[†] Retainerless Wafer Check Valves

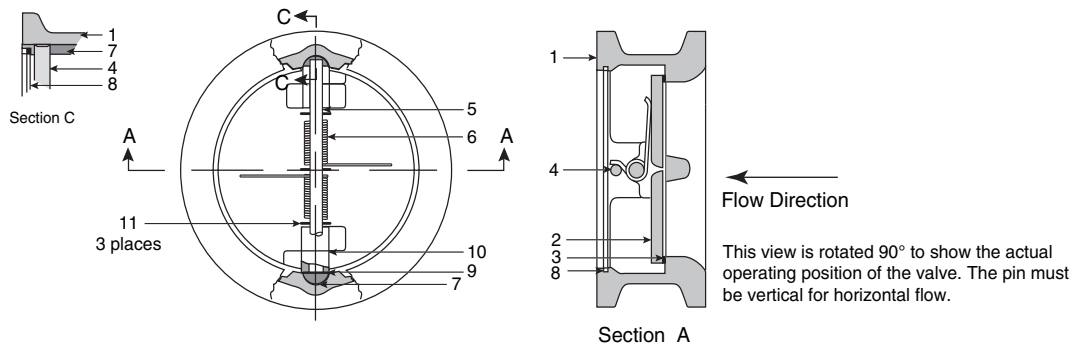
High Performance Check Valve for Critical Applications



For critical applications, Style H retainerless Duo-Chek valves feature a one-piece body with no pin retainer penetration through the body.

These high performance valves utilize the same internal design of other Duo-Chek II valves with all the unique features and advantages built into them.

Item No.	Part No.
1	Body
2	Plate
3	Seal
4	Stop Pin
5	Hinge Pin
6	Spring*
7	Pin Insert
8	Snap Ring
9	Body Bearing
10	Plate Bearing
11	Spring Bearing



* Independent spring in valve sizes 6" and larger.

Because Retainerless Duo-Chek II valves have no body penetrations potential leak paths through the valve are eliminated. This makes the Retainerless Duo-Chek II ideally suited to meet the following critical service applications:

- Hydrocarbon processing
- Chemical processing
- Any industry concerned with fire hazards or environmental safety

Key features of the Duo-Chek Style H wafer check valve include:

- A wide selection of body and plate materials
- A choice of metal-to-metal or resilient sealing

- A full range of pressure classes and sizes
- A variety of end connections
- Designs available in ASME, API, BS and DIN pressure ratings
- Internals easily removed for field replacement under normal inspections and maintenance procedures

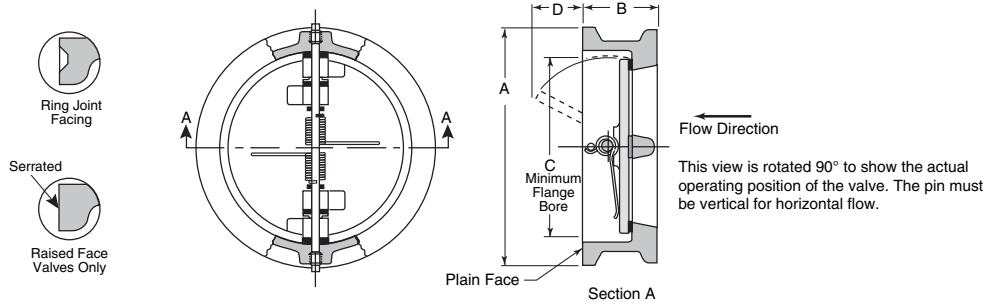
The advanced design of the Duo-Chek provides many operational benefits to the user, which combined with its more compact size and lower weight, make the Duo-Chek Style H an excellent alternative to a standard swing check valve.

Remarkable advantages include:

- Independent spring action (on 6" and larger) and plate suspension on larger valves
- Free release flat seats
- Springs provide superior response to flow reversal or deceleration
- Minimal water hammer
- Savings in purchase price and installation costs compared to a conventional swing check valve
- Single body design with no body cartridge

† Installation dimensions for these valves are as shown on pages 8-9.

Style G Installation Dimensions



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

ASME Class 125 (Cast Iron valves only)

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	4 1/8	105	2 1/8	54	2 1/16	52	-	-	4	1.8
2 1/2"	65	4 7/8	124	2 1/8	54	2 15/32	63	-	-	6	2.7
3"	80	5 3/8	137	2 1/4	57	3 1/16	78	5/8	16	7	3.2
4"	100	6 7/8	175	2 1/2	64	4	102	1	25	12	5.4
5"	125	7 3/4	197	2 3/4	70	5	127	1 5/16	33	15	6.8
6"	150	8 3/4	222	3	76	6 1/16	154	1 15/16	35	20	9
8"	200	11	279	3 3/4	95	8	203	3 7/16	54	40	18
10"	250	13 3/8	340	4 1/4	108	10	254	3 3/8	70	65	29
12"	300	16 1/8	410	5 5/8	143	11 15/16	303	3 9/16	83	110	50
14"	350	17 3/4	451	7 1/4	184	12 1/2	318	3 1/16	83	183	83
16"	400	20 1/4	514	7 1/2	191	15	381	4 1/4	113	255	116
18"	450	21 5/8	549	8	203	16 7/8	429	5 5/8	137	315	143
20"	500	23 7/8	606	8 3/8	213	18 13/16	478	6 3/16	160	380	172
24"	600	28 1/4	718	8 3/4	222	22 5/8	575	8 1/4	210	575	261
30"	750	34 3/4	883	12	305	29 1/4	743	9 9/16	229	1070	486
36"	900	41 1/4	1048	14 1/2	368	35	889	12 5/16	303	1962	890
42"	1050	48	1219	17	432	41	1041	15	381	2800	1270
48"	1200	54 1/2	1384	20 5/8	524	47	1194	16 3/4	425	3920	1178
54"	1350	61	1549	21 1/4	540	51 1/2	1308	19 3/4	502	6172	2800
60"	1500	67 1/2	1715	26	660	56	1422	-	-	7800	3538
66"	1650	74 1/4	1886	31	787	65 1/4	1657	-	-	12000	5443
72"	1800	80 3/4	2051	36	914	68	1727	-	-	14000	6350

ASME Class 150

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	4 1/8	105	2 3/8	60	1 15/16	49	-	-	6	3
2 1/2"	65	4 7/8	124	2 5/8	67	2 11/32	60	-	-	10	5
3"	80	5 3/8	137	2 7/8	73	2 29/32	74	1/4	6	13	6
4"	100	6 7/8	175	2 7/8	73	3 53/64	97	5/8	16	17	8
5"	125	7 3/4	197	3 3/8	86	4 13/16	122	7/8	22	27	12
6"	150	8 3/4	222	3 7/8	98	5 49/64	146	1 3/8	35	35	16
8"	200	11	279	5	127	7 5/8	194	2 1/8	54	70	32
10"	250	13 3/8	340	5 3/4	146	9 9/16	243	2 3/4	70	106	48
12"	300	16 1/8	410	7 1/8	181	11 3/8	289	3 1/4	83	172	78
14"	350	17 3/4	451	7 1/4	184	12 1/2	318	3 1/4	83	200	91
16"	400	20 1/4	514	7 1/2	191	15	381	4 7/16	113	275	125
18"	450	21 5/8	549	8	203	16 7/8	429	5 3/8	137	315	143
20"	500	23 7/8	606	8 5/8	219	18 13/16	478	6 5/16	160	435	197
24"	600	28 1/4	718	8 3/4	222	22 5/8	575	8 1/4	210	620	281
26"	650	30 1/2	775	14	356	24 1/4	616	8	203	1555	705
30"	750	34 3/4	883	13	330	29 1/4	743	9	229	1230	558
36"	900	41 1/4	1048	15 1/4	387	35	889	11 15/16	303	2017	915
42"	1050	48	1219	17	432	41	1041	15	381	2800	1270
48"	1200	54 1/2	1384	20 5/8	524	47	1194	16 3/4	425	3920	1178
54"	1350	61	1549	21 1/4	540	51 1/2	1308	19 3/4	502	6172	2800
60"	1500	67 1/2	1715	26	660	56	1422	-	-	7800	3538
66"	1650	74 1/4	1886	31	787	65 1/4	1657	-	-	12000	5443
72"	1800	80 3/4	2051	36	914	68	1727	-	-	14000	6350

Duo-Cheks are available in accordance with DIN, BS, JIS, AS and ISO Dimensions. For other sizes and pressure classes contact factory. Class 125 face-to-face dimensions 2-1/2"-12" are thinner than the requirements of API 594.

Style G Installation Dimensions, cont'd

ASME Class 250 (Cast Iron valves only)

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	4 3/8	111	2 1/8	54	1 15/16	49	3/32	2	5	2.3
2 1/2"	65	5 1/8	130	2 3/8	60	2 11/32	60	3/8	10	11	5
3"	80	5 7/8	149	2 5/8	67	2 29/32	74	9/16	14	11	5
4"	100	7 1/8	181	2 5/8	67	3 53/64	97	9/16	14	14	6.4
5"	125	8 1/2	216	3 1/4	83	4 13/16	122	1	25	29	13.2
6"	150	9 7/8	251	3 3/4	95	5 49/64	146	1 1/2	38	35	16
8"	200	12 1/8	308	5	127	7 5/8	194	2 1/8	54	75	34
10"	250	14 1/4	362	5 1/2	140	9 9/16	243	3 1/16	80	113	51
12"	300	16 5/8	422	7 1/8	181	11 3/8	289	3 1/4	83	174	79
14"	350	19 1/8	486	8 3/4	222	12 1/2	318	3 3/16	81	299	136
16"	400	21 1/4	540	9 1/8	232	14 5/16	364	4 1/8	105	380	172
18"	450	23 1/2	597	10 3/8	264	16 3/8	429	4 13/16	122	510	231
20"	500	25 3/4	654	11 1/2	292	17 15/16	456	5 3/8	136	593	269
24"	600	30 1/2	775	12 1/2	318	21 9/16	548	7 1/16	179	1010	458
30"	750	37 1/2	953	14 1/2	368	28 3/4	730	8 13/16	224	1880	853
36"	900	44	1118	19	483	35	889	11 3/16	294	3573	1608
42"	1050	50 3/4	1289	22 3/8	568	41	1041	14 3/4	375	5780	2622
48"	1200	58 3/4	1492	24 3/4	629	47	1194	16 1/2	419	6572	2981

ASME Class 300

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	4 3/8	111	2 3/8	60	1 15/16	49	-	-	7	3
2 1/2"	65	5 1/8	130	2 5/8	67	2 11/32	60	-	-	11	5
3"	80	5 7/8	149	2 7/8	73	2 29/32	74	1/4	6	15	7
4"	100	7 1/8	181	2 7/8	73	3 53/64	97	5/8	16	18	8
5"	125	8 1/2	216	3 3/8	86	4 13/16	122	7/8	22	35	16
6"	150	9 7/8	251	3 7/8	98	5 49/64	146	1 3/8	35	45	20
8"	200	12 1/8	308	5	127	7 5/8	194	2 1/8	54	82	37
10"	250	14 1/4	362	5 3/4	146	9 9/16	243	2 3/4	70	125	57
12"	300	16 5/8	422	7 1/8	181	11 3/8	289	3 1/4	83	200	91
14"	350	19 1/8	486	8 3/4	222	12 1/2	318	3 3/16	81	325	147
16"	400	21 1/4	540	9 1/8	232	14 5/16	364	4 1/8	105	415	188
18"	450	23 1/2	597	10 3/8	264	16 3/8	429	4 13/16	122	555	252
20"	500	25 3/4	654	11 1/2	292	17 15/16	456	5 5/8	143	725	329
24"	600	30 1/2	775	12 1/2	318	21 9/16	548	7 1/16	179	1100	499
26"	650	32 7/8	835	14	356	24 3/8	619	8	203	1605	728
30"	750	37 1/2	953	14 1/2	368	28 3/4	730	9 1/16	230	2050	930
36"	900	44	1118	19	483	35	889	11 3/16	284	3573	1621
42"	1050	50 3/4	1289	22 3/8	568	41	1041	14 3/4	375	5780	2622
48"	1200	58 3/4	1492	24 3/4	629	47	1194	16 1/2	419	6572	2981

ASME Class 600

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	4 3/8	111	2 3/8	60	1 15/16	49	-	-	7	3
2 1/2"	65	5 1/8	130	2 5/8	67	2 11/32	60	1/8	3	11	5
3"	80	5 7/8	149	2 7/8	73	2 29/32	74	1/4	6	15	7
4"	100	7 5/8	194	3 1/8	79	3 53/64	97	7/8	22	26	12
5"	125	9 1/2	241	4 1/8	105	4 13/16	122	1	25	50	22.7
6"	150	10 1/2	267	5 3/8	137	5 49/64	146	1 7/16	36	80	36
8"	200	12 5/8	321	6 1/2	165	7 5/8	194	2	51	135	61
10"	250	15 3/4	400	8 3/8	213	9 9/16	243	2 3/32	58	238	108
12"	300	18	457	9	229	11 3/8	289	3 15/32	88	333	151
14"	350	19 3/8	492	10 3/4	273	12 1/2	318	2 3/4	70	455	206
16"	400	22 1/4	565	12	305	14 5/16	364	4 5/16	110	640	290
18"	450	24 3/8	613	14 1/4	362	16 3/8	410	3 1/16	94	890	404
20"	500	26 7/8	683	14 1/2	368	17 15/16	456	5 5/16	135	1120	508
24"	600	31 1/8	791	17 1/4	438	21 9/16	548	6 9/16	167	2040	925
26"	650	34 1/8	867	18	547	24	610	7 1/4	184	2530	1148
30"	750	38 1/4	972	19 7/8	505	28 3/4	730	9 9/16	243	3375	1531
36"	900	44 1/2	1130	25	635	33 3/4	857	11 15/16	303	6300	2858
42"	1050	51	1295	27 5/8	702	39 1/2	1003	14 1/4	362	8447	3832

ASME Class 900

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	5 5/8	143	2 3/4	70	1 11/16	43	-	-	14	6
2 1/2"	65	6 1/2	165	3 1/4	83	2 1/8	54	1/16	2	16	7
3"	80	6 5/8	168	3 1/4	83	2 5/8	67	5/16	8	24	11
4"	100	8 1/8	206	4	102	3 7/16	87	9/16	14	40	18
5"	125	9 3/4	248	-	-	4 5/16	110	-	-	-	-
6"	150	11 3/8	289	6 1/4	159	5 3/16	132	1 1/16	27	115	52
8"	200	14 1/8	359	8 5/8	206	6 13/16	173	1 13/32	36	229	104
10"	250	17 1/8	435	9 1/2	241	8 1/2	216	1 13/16	46	388	176
12"	300	19 5/8	498	11 1/2	292	10 1/8	257	2 5/16	59	540	245
14"	350	20 1/2	521	14	356	11 1/2	292	2	51	926	420
16"	400	22 5/8	575	15 1/8	384	12 13/16	325	2 3/8	67	1152	523
18"	450	25 1/8	638	17 3/4	451	14 7/16	367	2 9/16	65	1318	598
20"	500	27 1/2	699	17 3/4	451	17 15/16	456	5 5/16	135	1426	647
24"	600	33	838	19 1/2	495	21 1/2	546	5 5/8	143	2729	1238

ASME Class 1500

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	5 5/8	143	2 3/4	70	1 11/16	43	-	-	14	6
2 1/2"	65	6 1/2	165	3 1/4	83	2 1/8	54	1/16	2	16	7
3"	80	6 7/8	175	3 1/4	83	2 5/8	67	5/16	8	25	11
4"	100	8 1/4	210	4	102	3 3/16	87	9/16	14	43	20
5"	125	10	254	-	-	4 3/16	110	-	-	-	-
6"	150	11 1/8	283	6 1/4	159	5 3/16	132	1 1/16	27	110	50
8"	200	13 7/8	352	8 5/8	206	6 13/16	173	1 13/32	36	219	99
10"	250	17 1/8	435	9 3/4	248	8 1/2	216	1 11/16	43	397	180
12"	300	20 1/2	521	12	305	10 1/8	257	2 1/4	57	725	329
14"	350	22 3/4	578	14	356	11 1/2	292	2	51	948	430
16"	400	25 1/4	641	15 1/8	384	12 13/16	325	2 5/8	67	1380	627
18"	450	27 3/4	705	18 7/16	468	13 3/4	349	2 11/16	68	1900	863
20"	500	29 3/4	756	21	533	14 3/4	375	4	102	2750	1247
24"	600	35 1/2	902	22	559	15 1/8	384	4 1/8	105	5860	2658

ASME Class 2500

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
2"	50	5 3/4	146	2 3/4	70	1 11/16	43	-	-	15	7
2 1/2"	65	6 5/8	168	3 1/4	83	2 1/8	54	1/16	2	22	10
3"	80	7 3/4	197	3 3/8	86	2 5/8	67	1/4	6	31	14
4"	100	9 1/4	235	4 1/8	105	3 7/16	87	7/16	11	54	25
5"	125	11	279	-	-	4 5/16	110	-	-	-	-
6"	150	12 1/2	318	6 1/4	159	5 3/16	132	1 1/16	27	190	86
8"	200	15 1/4	387	8 1/8	206	6 13/16	173	1 11/16	43	285	129
10"	250	18 3/4	476	10	254	8 1/2	216	1 13/16	46	502	228
12"	300	21 5/8	549	12	305	10 1/8	257	2 3/16	56	963	437