Design Attributes

Wafer Dual Plate Check Valves use two half-sphere discs and a connecting hinge to create a closure element that collapses when positive flow exists, and folds back to a full circular disc when reverse flow exists. Discs are preloaded with springs that favour the closing of the valve when no positive flow. These valves are featured as a light, compact and economic option. With a dedicate design and production, they offer a low pressure drop in comparison to other wafer check valves, and full seat tightness, being widely used mainly in clean water and oil systems, with significant savings in space and investment costs for installation.

Main Features

Valve design: API 594
Nominal Pressure: 150#/300#
Face to face length: API 594
Valve end connections: Wafer design to suit ASME B16.5 / B16.47 RF
Marking: MSS SP-55
Pressure Tests: API 598
Primer painted for protection during storage and transport
Product compliant with Directive 2014/68/EU on Pressure Equipment (PED) for European Union territory

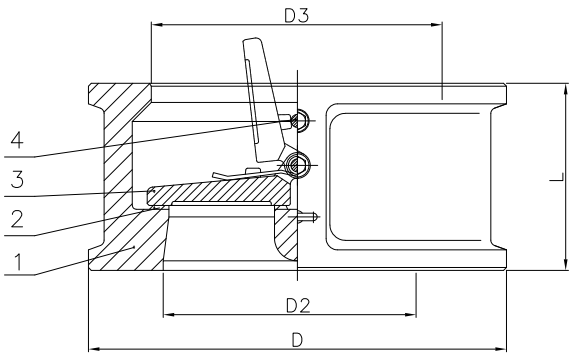
Main Duties / Limits of use

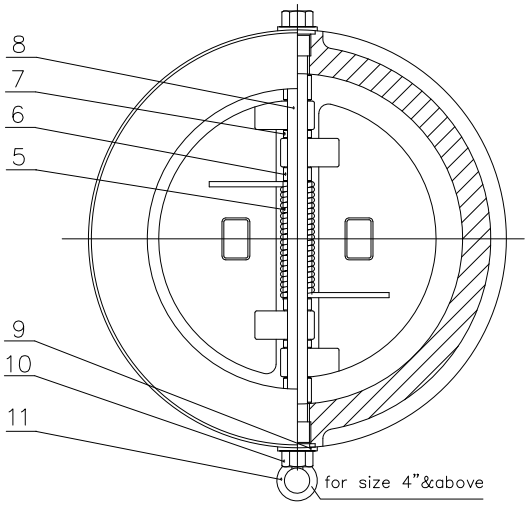
Fluids compatible with materials of construction. Questions referring to chemical resistance, please consult us
Pressure / Temperature Rating to ASME B16.34
For products compliant with Directive 2014/68/EU, observe also limits acc. to Annex II tables 6 & 8 (gases & liquids group 1*) and tables 7 & 9 (gases & liquids group 2*) up to category III
*Classification of fluids (group 1 or 2) acc. to Directive 2014/68/EU, Article 13

Options

Other designs and materials. Please consult us

Main Parts and Materials





Nº	PART	MATERIAL			
1	BODY	A216 WCB	A351 CF8M	1.4469	C93200
2	SEALING FACE	13CR overlay			A351 CF8
3	DISC	A216 WCB	CF8M	1.4469	C93200
4	STOP PIN	A182 F304			
5	SPRING	SS304	SS316	X-750	
6	BEARING WASHER	SS304	Viton	Viton	EPDM
7	BEARING WASHER	SS304	Viton	Viton	EPDM
8	HINGE PIN	A182 F304	F316	254SMO	A182 F6
9	GASKET	SS304			
10	POSITION PLUG	Carbon steel			
11	EYEBOLT	Carbon steel			

Main Valve Parameters

DN	mm	50	65	80	100	125	150	200	250	300	350
	inch	2	2½	3	4	5	6	8	10	12	14
150#	D	103	122	135	173	195	220	277	337	407	448
	D2	51	65	80	102	127	152	203	254	305	350
	D3	56	73	88	108	132	160	210	266	310	355
	L	60	67	73	76	86	98	127	146	181	184
300#	D	110	128	147	179	214	249	305	359	420	483
	D2	51	65	80	102	127	152	203	254	305	350
	D3	58	73	88	108	132	160	210	266	310	355
	L	60	67	73	73	86	98	127	146	181	222

Dimensions in mm subject to manufacturing tolerance

DN	mm	400	450	500	600	700	750	800	900	1050	1200
	inch	16	18	20	24	28	30	32	36	42	48
150#	D	512	547	604	715	773	824	878	983	1142	1302
	D2	400	450	500	600	700	746	796	898	1050	1200
	D3	405	455	505	605	700	750	800	910	1055	1205
	L	191	203	219	222	305	305	305	368	432	524
300#	D	537	594	652	772	895	949	1003	1113	1161	1320
	D2	400	450	500	600	685	735	784	873	1035	1166
	D3	405	455	505	608	685	740	784	880	1045	1190
	L	232	264	292	318	368	368	368	483	568	629

Dimensions in mm subject to manufacturing tolerance

Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

The engineer, designing a system or a plant, is responsable for the selection of the correct valve
Product suitability must be verified, contact manufacturer for information