

Dual plate check valves

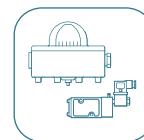
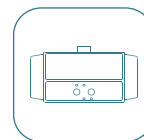
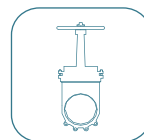
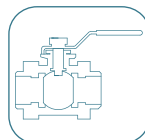
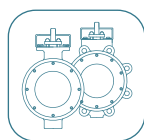
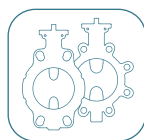


English

Fig.612 : Wafer



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General information

Coreline Fig.612 wafer dual check valve is a self-operating check valve where it is desirable to permit flow in one direction and prevent backflow in the opposite direction. The disc opens in case that the upstream pressure exceeds the downstream pressure and the spring elasticity. When the flow velocity upstream decreases or ceases, the spring will automatically close the dual plates prior to flow reversal. This creates a positive shutoff against flow reversal and eliminates system surges and water hammer.



It is designed to handle a variety of applications:

In downstream of pump preventing flow reverser.

In wellhead injection lines, for oil rigs and platforms.

In gas and oil processing plants and refinery on delivery/discharge side of pumps.

For LNG and chemical storage tank, use on discharge side of pump to prevent backflow.

Design features

- Short face-to-face dimension.
- Lighter weight, by 80-90% than non-conventional full-body check valves.
- Low cracking pressure because of spring-loaded, double disc design.
- interchangeability of shafts due to the independent, dual shaft design of shafts. The stop shaft stabilizes the plates under high flow rates.
- Standard internal and external fusion bonded epoxy coated body (Special coating on request).
- Long leaf springs prevent rubbing of plate on seat.

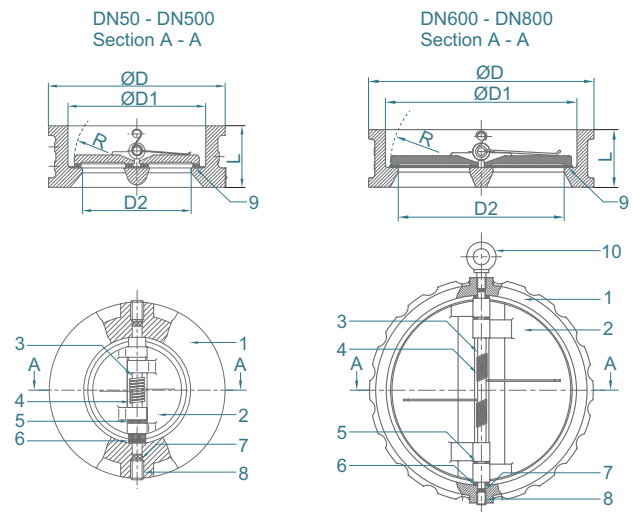
Specifications

Connection:	Wafer
Nominal diameter:	DN50-DN800
Pressure rating:	PN10, PN16, PN25, CLASS150
Face to face:	DI/CI body - EN558 Series 16 SS body - API594
Temperature range:	-20 to +180 (Depending on pressure, medium and material)
Body:	Cast iron, ductile iron, stainless steel
Disc:	SS304, SS316, C95400, C95800
Seat:	NBR, EPDM, FKM
Spring:	Stainless steel, Inconel

Technical data

Part list and material specification

No.	Part name	Material
1	Body	GG25, GGG40, CF8, CF8M
2	Disc	CF8M, CF8, C95800, C95400
3	Stem	SS304, SS316, SS410
4	Spring	SS304, SS316, Inconel
5	Bearing	PTFE
6	Bearing	PTFE
7	O-Ring	Same as seat
8	Hex Screw	SS304, SS316
9	Seat	EPDM, NBR, FKM
10	Eye Bolt	SS304, SS316



Dimensions (mm)

SIZE		L		D				D1	D2	R
DN	INCH	CI/DI body	SS body	PN10	PN16	PN25	CLASS150			
50	2"	43	60	109	109	109	103	65	40	27
65	2 1/2"	46	67	129	129	129	122	80	60	35
80	3"	64	73	144	144	144	135	94	70	42
100	4"	64	73	164	164	170	173	117	88	50
125	5"	70	86	194	194	196	195	145	115	64
150	6"	76	98	220	220	226	220	171	134	77
200	8"	89	127	275	275	286	277	224	182	102.5
250	10"	114	146	330	331	343	337	265	220	125
300	12"	114	181	380	386	403	407	310	260	146
350	14"	127	184	440	446	460	448	360	298	170
400	16"	140	191	491	494	517	512	410	350	195
450	18"	152	203	541	558	567	547	450	385	215
500	20"	152	219	596	620	627	604	505	438	238
600	24"	178	222	698	737	734	715	624.5	573	292
700	28"	229	305	813	807	836	773	720	680	350
800	32"	241	305	920	914	945	878	825	770	400

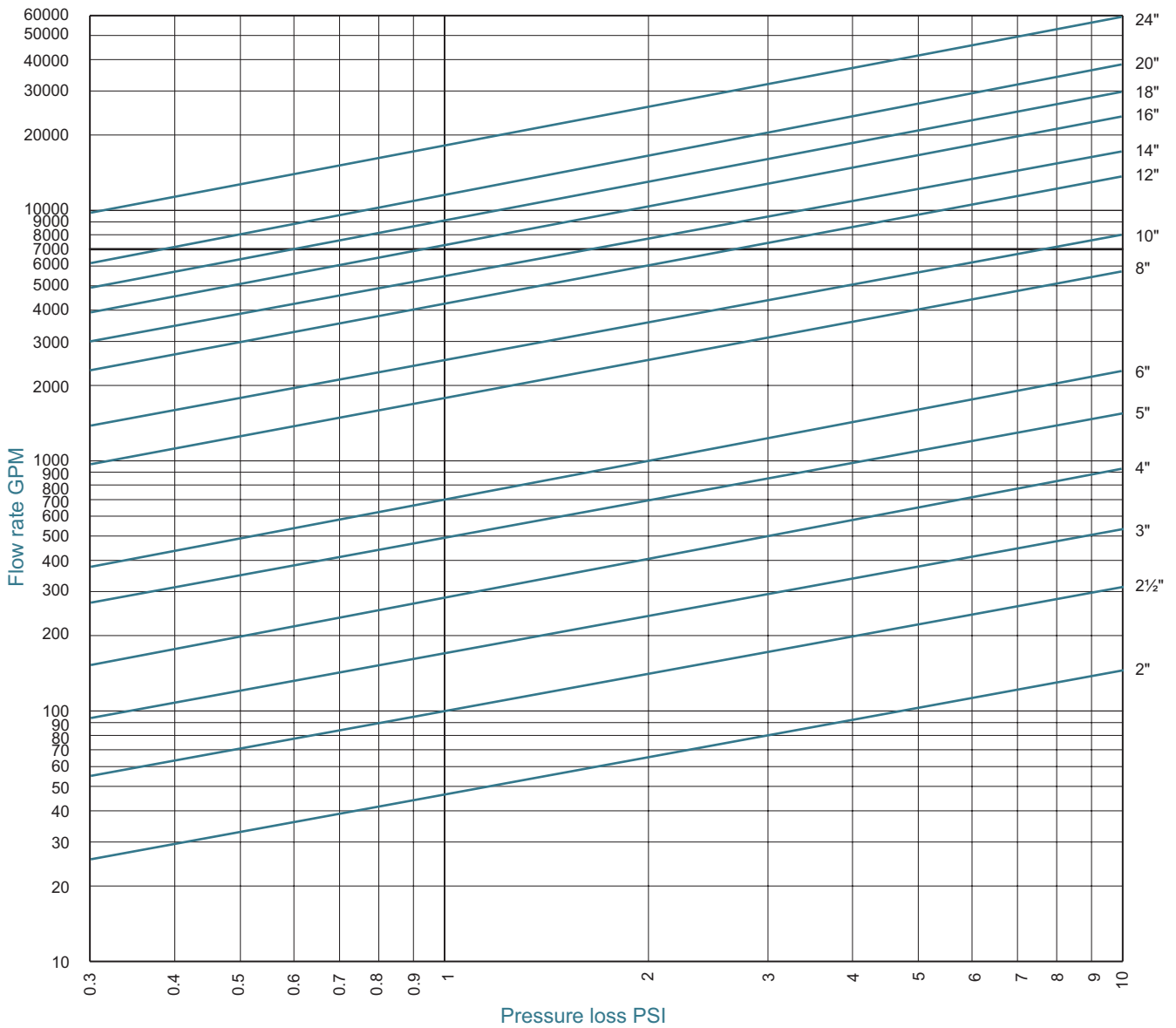
* Bigger sizes available on request.

Flow coefficient

DN	50	65	80	100	125	150	200	250
INCH	2"	2 1/2"	3"	4"	5"	6"	8"	10"
Cv	48	100	180	290	495	705	1795	2560
DN	300	350	400	450	500	600	700	800
INCH	12"	14"	16"	18"	20"	24"	28"	32"
Cv	4260	5440	7350	9400	12600	19000	33600	48000

Pressure loss

Pressure loss chart



This pressure loss chart is based on the flow clean water through Coreline Fig.612 wafer dual plate check valve at ambient temperature.

The check valve shall be installed minimum 5 to 10 pipe diameters from sources of turbulence.

Coreline

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