

CHECK VALVE WITH SOFT OR METAL SEALING

TYPE 6141

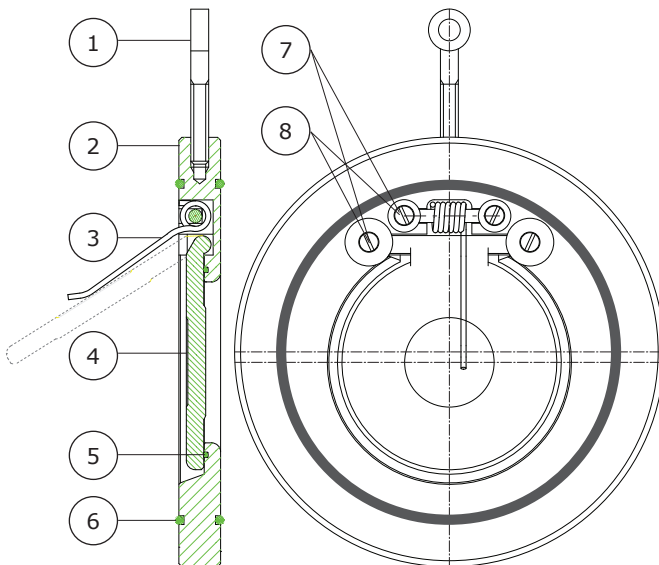


GENERAL

SIZE:	DN 40 - DN 400
PRESSURE:	PN 10/16/25
MATERIAL:	STEEL AND STAINLESS STEEL
SEAT/TEMPERATURE:	NBR MAX. 80° C. EPDM MAX. 120 ° C. PTFE MAX. 180° C. FPM MAX. 170° C. METAL MAX. 350° C.
FLANGE O-RING:	DEPENDING ON PRESSURE RATING
FLANGE CONNECTIONS:	PN 10/PN 16/PN 25

OPTIONS

DIMENSION:	UP TO DN 600
PRESSURE:	PN 6/PN 40/ANSI 150
MATERIAL:	ALU-BRONZE, BRASS AND ALUMINIUM
FLANGES:	GROOVES IN BEARING SURFACE
FLANGE CONNECTIONS:	PN 6/PN 40/ANSI 150

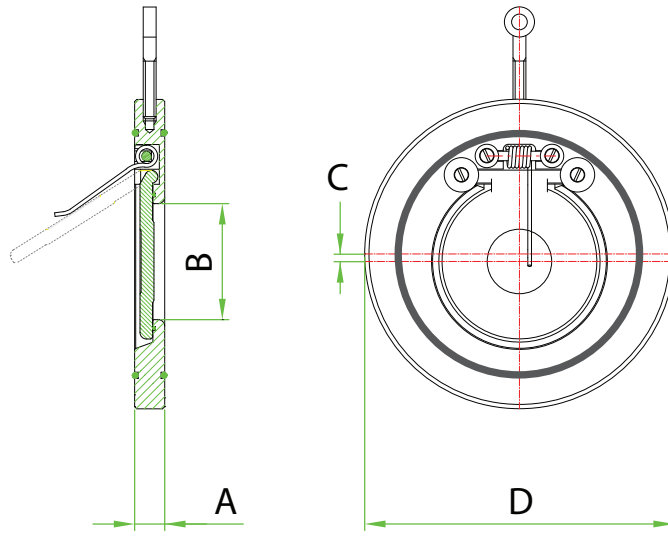


POS	DESCRIPTION	STEEL	STAINLESS
1	EYE BOLT	NICKLEPLATED STEEL	AISI 304
2	BODY	ZINC PLATED STEEL	AISI 316
3	SPRING	AISI 304	AISI 316
4	DISC	AISI 201	AISI 316
5	SEAT O-RING	EPDM/NBR/FPM/PTFE	EPDM/NBR/FPM/PTFE
6	FLANGE O-RING	EPDM/NBR/FPM/PTFE	EPDM/NBR/FPM/PTFE
7	WASHER	AISI 316	AISI 316
8	SCREW	AISI 316	AISI 316

DESCRIPTION

- **Very reliable** and simple construction.
- **Self aligning** between flanges.
- **Very flexible and low weight** due to the small face-to-face measurements.
- **Disc and hinge cast as one.**
- **Easy mounting** because of the eye bolt on top of the valve.
- **Large field of application** due to many options.
- **Protected o-ring.** The o-ring is placed in the body protecting it from flow, detachment and tear.

DIMENSIONS

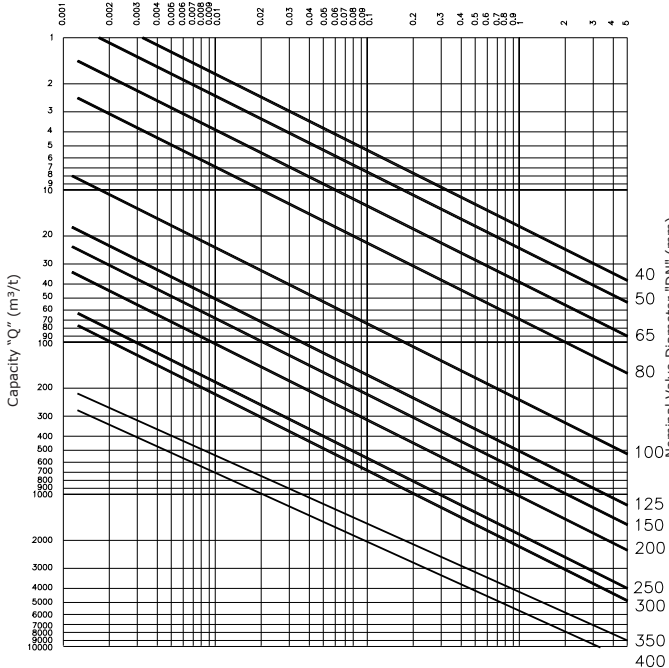


DIM [MM]	A [MM]	B [MM]	C [MM]	D [MM] PN 10	D [MM] PN 16	D [MM] PN 25	WEIGHT [KG]	Kv-value [m³/t]
40	14	22	0	95	95	95	0.8	17.2
50	14	32	2	109	109	109	1.0	25.4
65	14	40	2	129	129	129	1.3	42.1
80	14	54	2	144	144	144	1.7	67.1
100	18	70	3	164	164	170	2.2	245.9
125	18	92	4	195	195	198	3.2	546.1
150	20	112	4	220	220	228	5.0	722.4
200	22	154	6	275	275	285	11.0	1036.3
250	26	200	7	330	330	343	15.0	1892.0
300	32	240	11	380	387	403	25.0	2201.6
350	38	269	12	440	447	460	37.0	4145.2
400	44	308	14	490	495	517	55.0	5203.0

PRESSURE DROP DIAGRAM

TEST CONDITIONS: WATER (H2O)
WEIGHT: 1 KG/DM³
TEMPERATURE: 20° C.

PRESSURE DROP "ΔP" (BAR)



OPENING PRESSURE

DIM [MM]	OPENING PRESSURE [mbar]			
	FLOW DIRECTION			
	→	→	→	↑
40 - 150	10° OPEN	30° OPEN	60° OPEN	UPWARD OPEN
200 - 400	13	19	23	23
	15	25	32	35

The curves shown on the diagram represent pressure drop related to water at 15° C. Pressure drop related to fluids other than water (air or gas) is obtained by calculating the equivalent related water flow (Qe) and including this new value on the diagram.

To obtain the value of the equivalent water flow (Qe) the following formula should be applied:

$$Q_e = \sqrt{\frac{Y}{1000}} \times Q$$

Qe = Equivalent water flow in m³/h.

Q = Fluid flow (air or gas) at operating conditions in m³/h.

Y = Fluid density measured in operation conditions in kg/m³.

The pressure drops shown on the diagram and those obtained from the formula refer to valves fitted on horizontal pipelines. The valves indicated on the diagram are also applicable to valves fitted on vertical pipelines, only in case of partial valve opening. The resulting differences are unimportant.