

CHECK VALVE WITH SOFT OR METAL SEALING



Type 6140



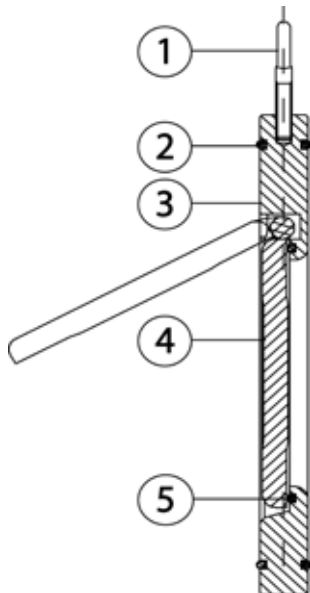
GENERAL

Dimension: DN 40 - DN 400
 Pressure: PN 10 / PN 16 / PN 25
 Material: Steel or stainless steel
 Seat / temperature: NBR max. 80° C.
 EPDM max. 120° C.
 FPM max. 170° C.
 PTFE max. 180° C.
 Metal / metal
 Flange O-ring: Same as seat
 Flange connection: PN 10 / PN 16 / PN 25

OPTIONS

Dimension: Up to DN 600
 Pressure: PN 40
 Material: Aluminium, alu. bronze or brass
 Flanges: Grooves in bearing surface
 Flange connection: PN 6 / PN 40

MATERIAL

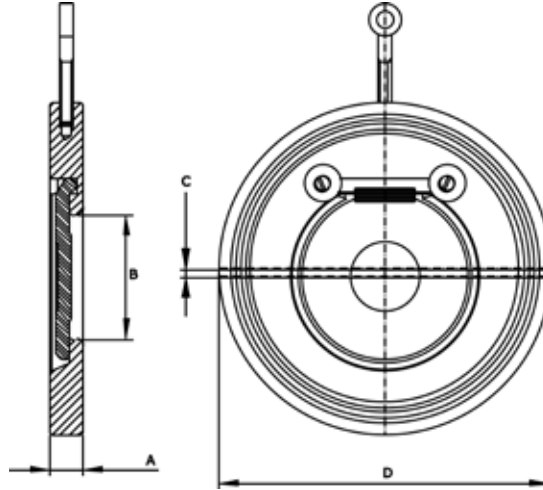


NO	DESCRIPTON	STEEL	STAINLESS STEEL
1	EYE BOLT	NICKLE PLATED STEEL	AISI 316
2	FLANGE O-RING	EPDM / NBR / FPM	EPDM / NBR / FPM
3	BODY	ZINK PLATED STEEL	AISI 316
4	DISC	AISI 201 / AISI 316	AISI 201 / AISI 316
5	SEAT O-RING	EPDM / NBR / FPM	EPDM / NBR / FPM

DESCRIPTION

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

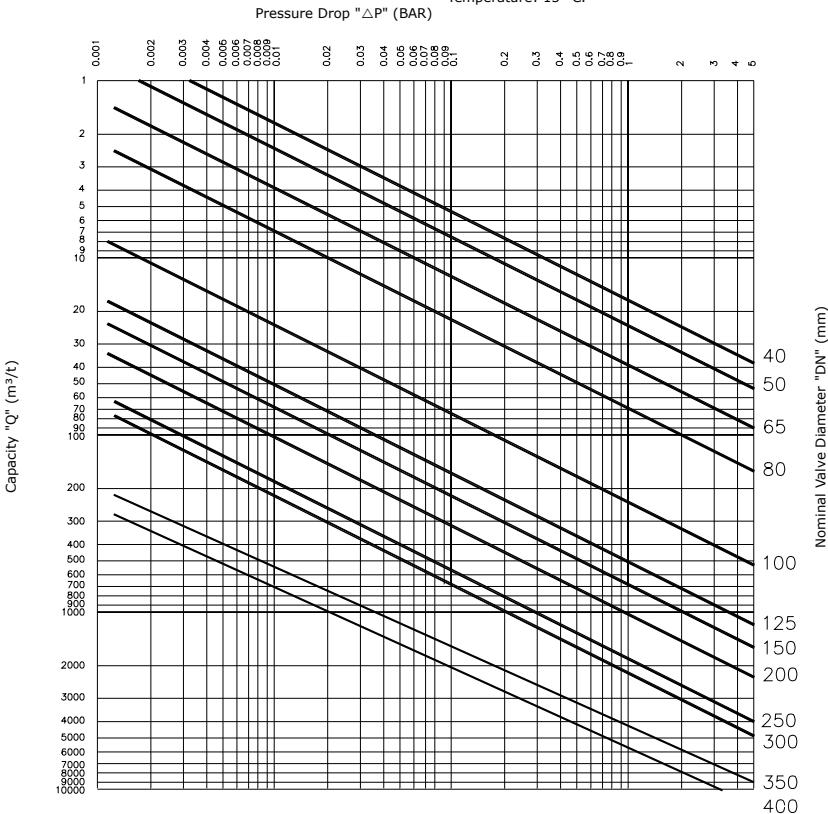
DIMENSION



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/h]
40	14	22	0	95	95	95	0.8	17.2
50	14	32	2	110	110	110	1.0	25.4
65	14	40	2	130	130	130	1.3	42.1
80	14	54	2	145	145	145	1.7	67.1
100	18	70	3	165	165	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	1,036.3
250	26	200	7	330	330	343	15.0	1,892.0
300	32	240	11	380	387	403	25.0	2,201.6
350	38	269	12	440	447	460	37.0	4,145.2
400	44	308	14	490	495	517	55.0	5,203.0

PRESSURE DROP DIAGRAM

Test Conditions: Water (H2O)
Weight: 1 kg/dm³
Temperature: 15° C.



OPENING PRESSURE

Dim [mm]	Opening pressure [mbar]			
	Flow direction			
	→	→	→	↑
	10° open	30° open	60° open	Upward open
40 - 150	3	9	13	16
200 - 400	3	12	19	22

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 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.

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