

WAFER DISC CHECK VALVE CV-90

Pmax: 40bar | Tmax: +200°C | DN15 – DN100

WAFER DISC CHECK VALVE WITH SPRING



APPLICATION

Wafer disc stainless steel check valve for water, chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air.

FEATURES

Stainless steel type with spring, all positions. Metal/metal tightness (leakage rate according to API 598 standard). Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.

GENERAL CHARACTERISTICS

Range from DN15 – DN100
Connection Between flanges PN10/16/25/40, A150, A300
Wafer spring check valve
Short length

Metal / metal tightness

Assembling: All positions
Respect the flow direction indicated by the arrow

STANDARDS

Manufacturer certified ISO 9001 : 2015 and ISO 14001 : 2015

Pressure tests according to API 598, table 6

DIRECTIVE 2014/68/EU :

- a) DN15-25 : Article 4, §3 (SEP), no CE marking
- b) DN32-100 : Risk Category II, CE0036 marking

Designing according to EN 12516-1

Pressure tests according to API 598, table 6

Length according to EN 558 series 49 (DIN 3202 K4)

On request:

Certificate 3.1

ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 (marking)

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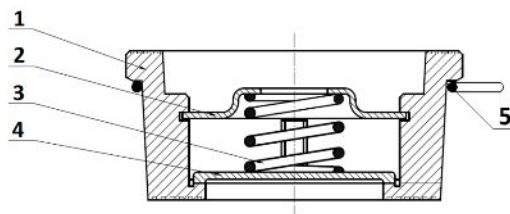
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WORKING CONDITIONS

Maximum Working Pressure: 40 bar
 Working Temperature:- 20°C / +200°C.

CONSTRUCTION

item	Part	Material
1	Body	EN 1.4408
2	Spring holder	AISI 316
3	Spring	AISI 316
4	Disc	AISI 316
5	Centering hoop	AISI 304
Id marking		CV90-xxx.177Z7 PN10/40



xxx – dimension type f.g. 1/2" = 015, 1 1/4" = 032

NOTE! „id marking” is not complete. In case of fully id please send the inquiry to email: info@mixflow.com.pl

OPENING PRESSURE (in mbar) :

DN	Vertical Position Ascending fluid	Horizontal Position	DN	Vertical Position Ascending fluid	Horizontal Position
DN 15	32 ↑	26 →	DN 50	29 ↑	25 →
DN 20	33 ↑	26 →	DN 65	25 ↑	23 →
DN 25	31 ↑	27 →	DN 80	21 ↑	23 →
DN 32	27 ↑	24 →	DN100	21 ↑	23 →
DN 40	29 ↑	25 →			
DN 50	29 ↑	25 →			

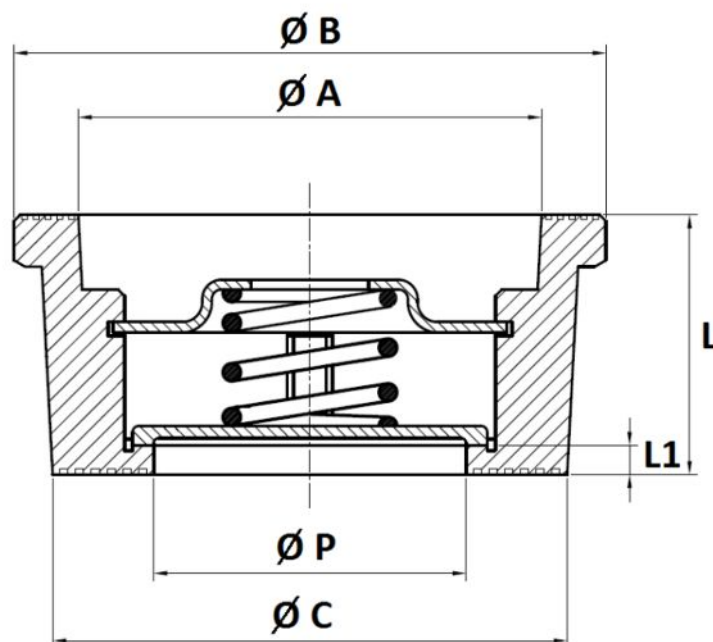
FLOW COEFFICIENT Kvs (m³/h)

DN	15	20	25	32	40	50	65	80	100
Kvs (m ³ /h)	4.4	6.8	10	17	26	43	75	112	172

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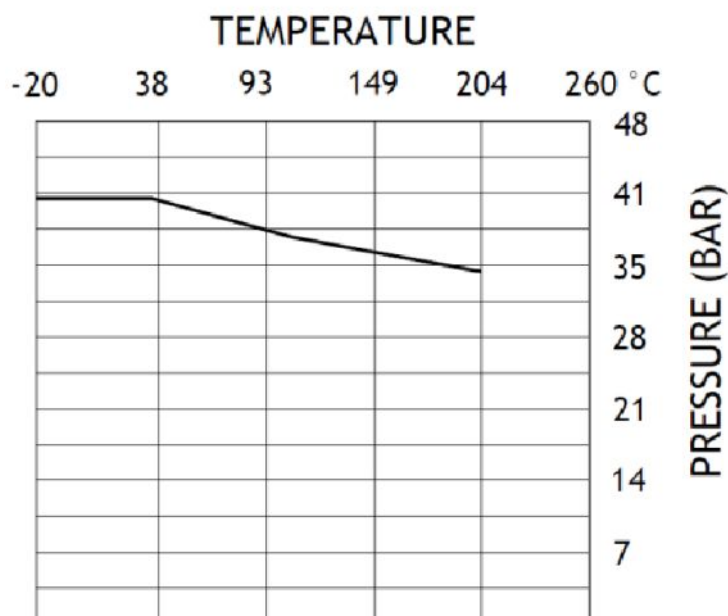
Overall dimensions [mm] for DN15 – DN100



Dim	Ø A	Ø B	Ø C	Ø P	L	L1	Weight (Kg)
15	28.5	39	32	15	16	3	0.09
20	36.2	46	40	20	19	3	0.12
25	43.3	54	46	25	21	3	0.16
35	56	70	60	32	27	3.5	0.31
40	68.5	83	72	40	31	3.5	0.43
50	80.5	96	84	49	40	4	0.78
65	99	115	103	62	46	5	1.03
80	117	135	123	75	50	5	1.54
100	135	153	140	85	60	6	2.25

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PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) DN15 – 100:



HEAD LOSS GRAPH :

