

**WAFER-TYPE NON-RETURN VALVE
HDC-77
DN 15 – DN 100**

ENG

DESCRIPTION

The HDC-77 all stainless steel disc check valves have a compact design and are specially designed for use with steam and hot condensate.

MAIN FEATURES

Low pressure drop.
Simple and compact design.
Overall lengths according to DIN EN 558-1 (DIN 3202 part 3, series K4).

OPTIONS: Various soft sealing options:
EPDM (E), NBR (N), VITON (V), PTFE (T).
Inconel springs.

USE: Saturated steam, water and other gases and liquids compatible with the construction.

AVAILABLE MODELS: HDC77 – stainless steel.

SIZES: 1/2" to 4"; DN 15 to DN 100.

CONNECTIONS: Sandwiched between flanges as per EN 1092 or ASME.

INSTALLATION: Horizontal or vertical installation.
See IMI – Installation and maintenance instructions.

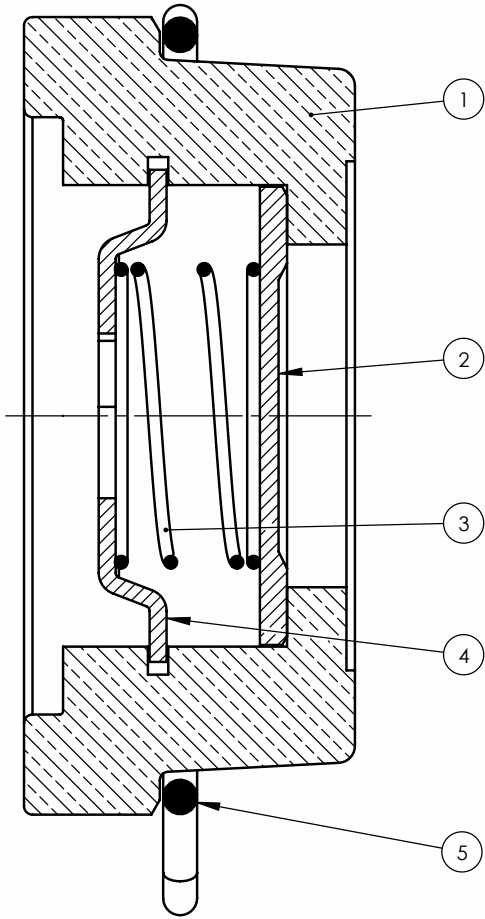


RECOMMENDED LIMITS OF OPERATION WITH SOFT SEALS			
EPDM (E)	NBR (N)	VITON (V)	PTFE (T)
130 °C	95 °C	180 °C	180 °C

CE MARKING – GROUP 2 (PED – European Directive)	
PN 40	Category
1/2" to 1 1/4" – DN 15 to 32	SEP
1 1/2" to 4" – DN 40 to 100	1 (CE marked)

BODY LIMITING CONDITIONS	
WAFER PN 40 *	
ALLOWABLE PRESSURE	RELATED TEMPERATURE
40 bar	100 °C
33,7 bar	200 °C
31,8 bar	250 °C
29,7 bar	300 °C

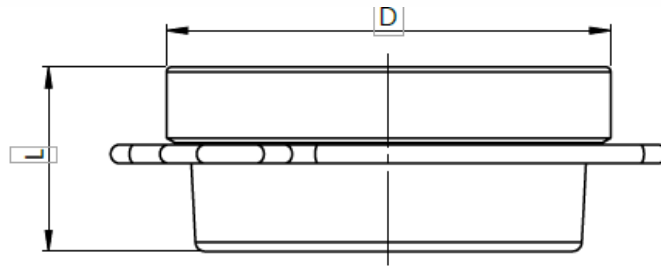
* According to EN 1092.
Minimum operating temperature: - 10 °C.



- | | | |
|---|------------------------|----------|
| 1 | <i>Body</i> | CF8 |
| 2 | <i>Disc</i> | CF8 |
| 3 | <i>Spring Retainer</i> | AISI 304 |
| 4 | <i>Spring</i> | AISI 302 |
| 5 | <i>Centering Hoop</i> | AISI 304 |

HDC 77	DIN, EN, ASME, B 16.5, CLASS 300					
°C	-10	20	100	200	300	
HDN - 100 barg	49,6	49,6	42,3	35,8	31,6	METAL

DIN	BS
DIN EN 1092-1 PN10/16/40	BS10 TABLE D, E, F



SIZE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
L	16	19	21	27	31	40	46	49,5	60
D	39	46	54	70	83	96	115	135	153

DN	(mbar)			
	↑	↑	→	↓
15	2,5	10	7,5	5
20	2,5	10	7,5	5
25	2,5	10	7,5	5
32	3,5	12	8,5	5
40	4	13	9	5
50	4,5	14	9,5	5
65	5	15	10	5
80	6	16	10,5	5
100	6,5	18	11,5	5

FLOW RATE CAPACITY (Kg /h)

Graphic is according to 20°C degease water. In order to pressure drop for toher flow media; it is required to calculate flow which is equal to water volume.

