

WAFER-TYPE NON-RETURN VALVE RD40 DN15 – DN100

DESCRIPTION

The RD40 all stainless steel disc check valve has a compact design and was specially designed for use with steam and hot condensate.

Connections are flanged (wafer type).

MAIN FEATURES

Low pressure drop.

Simple and compact design.

Overall lengths according to DIN EN 558-1 (DIN 3202 part 3, series K4).

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

USE: Saturated steam, water and other gases
(Group 2) compatible with the construction.

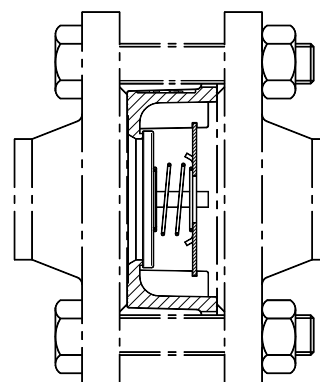
AVAILABLE MODELS: RD40.

SIZES: DN 15 to DN 100.

CONNECTIONS: Sandwiched between flanges as per EN1092 or ANSI.

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

RATING: PN40.
LIMIT OF OPERATION: As per EN1092.



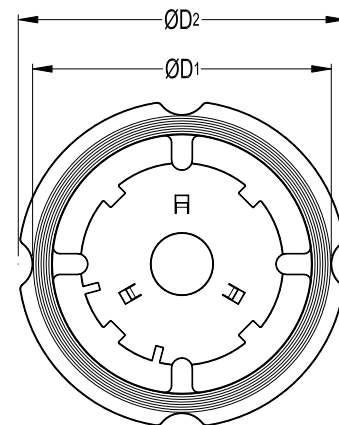
RECOMMENDED LIMITS OF OPERATION WITH SOFT SEALS			
EPDM (E)	NBR (N)	VITON (V)	PTFE (T)
130 °C	95 °C	180 °C	180 °C

CE MARKING – GROUP 2 (PED – European Directive)	
PN40	Category
DN 15 to DN 32	SEP
DN 40 to DN 100	1 (CE marked)

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

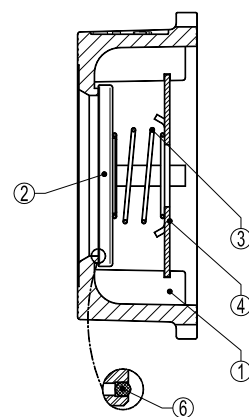
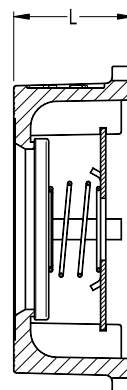
Minimum operating temperature: - 10 °C.

DIMENSIONS (mm)									
SIZE DN	15	20	25	32	40	50	65	80	100
D1	43	53	62	75	86	96	115	133	154
D2	50	60	70	81	91	105	125	147	167
L	16	19	22	28	32	40	46	50	60
WGT. (kg)	0,18	0,2	0,25	0,5	0,7	1,3	1,7	2,5	3,5



MINIMUM OPENING PRESSURES WITH STANDARD SPRING (mbar)							
SIZE	D.P.	↑	D.P.	→	D.P.	↓	D.P. * ↑
15	25		23		21		2
20	25		23		21		2
25	25		23		21		2
32	27		24		21		3
40	28		25		21		4
50	29		25		21		4
65	30		26		21		5
80	31		26		21		5
100	33		27		21		6

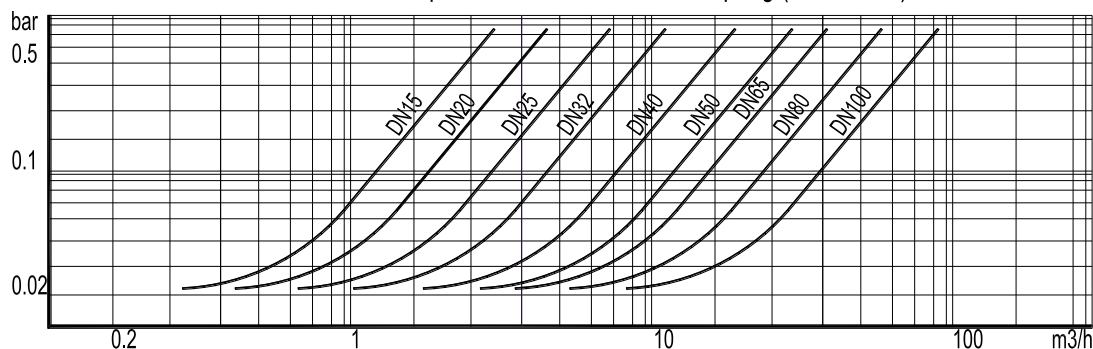
→ : Flow direction. * Vertical installation without springs (bottom to top).



MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	CF8M / 1.4408
2	* Disc	AISI 316 / 1.4401
3	* Spring	AISI 302 / 1.4300
4	Star	AISI 316 / 1.4401
6	* Soft seal	EPDM; NBR; VITON; PTFE

* Available spare parts.

Pressure drop, horizontal flow, standard spring (water - 20°)



To determine the pressure drop of other mediums the equivalent water flow volume has to be calculated: $V_w = \sqrt{\frac{Q}{1000}} \times V$

Vw = Equivalent water flow volume in m³/h ; Q = Density in kg/m³ ; V = Flow volume in m³/h.