Válvula Retención de Disco RD40

DESCRIPTION

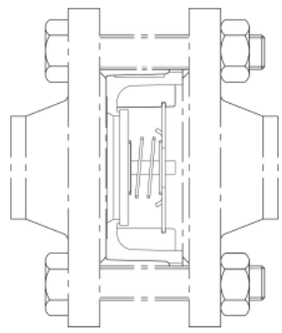
The RD40 all stainless steel disc check valves have a compact design and are specially designed for use with steam and hot condensate.



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 options of soft sealing: 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:	RD40 – 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.

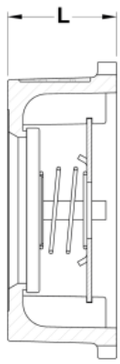


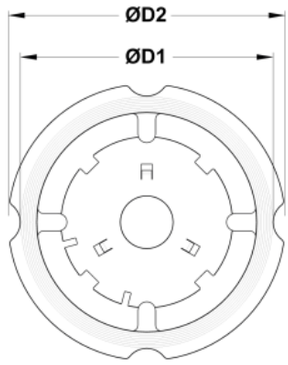
RECOMMENDED LIMITS OF OPERATION WITH SOFT SEALS			
EPDM (E)	**NBR (N)**	**VITON (V)**	**PTFE (T)**
130 ºC	95 ºC	180 ºC	180 ºC

CE MARKING – GROUP 2 (PED – European Directive)	
PN 40	**Category**
1/2" to 11/4" – DN 15 to 32	SEP
11/2" to 4" – DN 40 to 100	1 (CE marked)

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

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





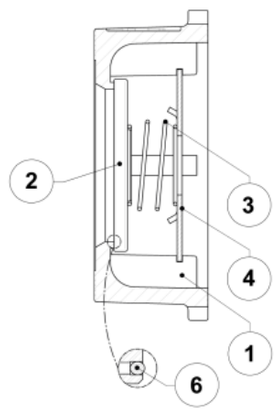
DIMENSIONS				
SIZE	D1	D2	L	WEIGHT (kg)
1/2" – DN 15	43	50	16	0,18
3/4" – DN 20	53	60	19	0,2
1" – DN 25	62	70	22	0,25
11/4" – DN 32	75	81	28	0,5
11/2" – DN 40	86	91	32	0,7
2" – DN 50	96	105	40	1,3
21/2" – DN 65	115	125	46	1,7
3" – DN 80	133	147	50	2,5
4" – DN 100	154	167	60	3,5

MATERIALS		
POS. Nº	DESIGNATION	MATERIAL
1	Body	A351 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

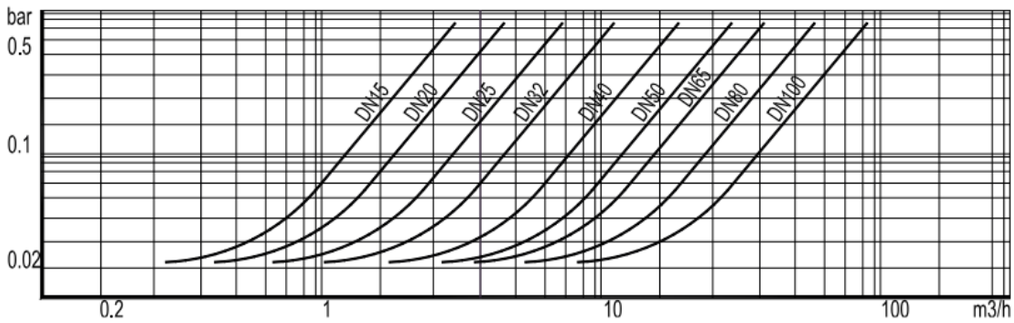
* Available spare parts.

MINIMUM OPENING PRESSURES WITH STANDARD SPRING (mbar)				
SIZE	D.P. ↑	D.P. →	D.P. ↓	D.P. * ↑
1/2" – DN 15	25	23	21	2
3/4" – DN 20	25	23	21	2
1" – DN 25	25	23	21	2
11/4" – DN 32	27	24	21	3
11/2" – DN 40	28	25	21	4
2" – DN 50	29	25	21	4
21/2" – DN 65	30	26	21	5
3" – DN 80	31	26	21	5
4" – DN 100	33	27	21	6

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



Pressure drop, horizontal flow, standard spring (water – 20º)



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