WAFER-TYPE NON-RETURN VALVE
RD40 DN 125 – DN 200

DESCRIPTION
The RD40 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 3202 part 3-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 :   RD 40
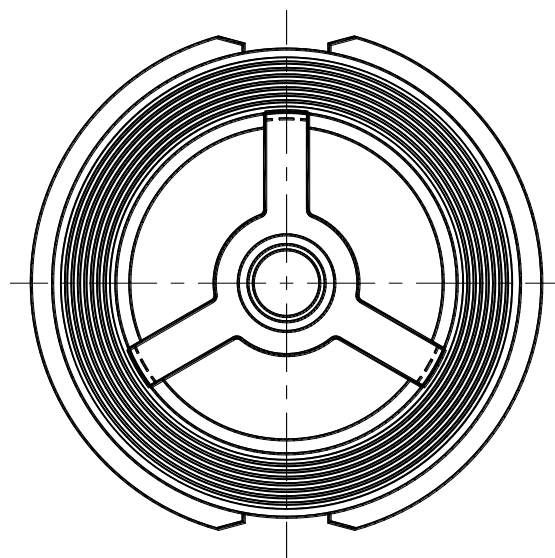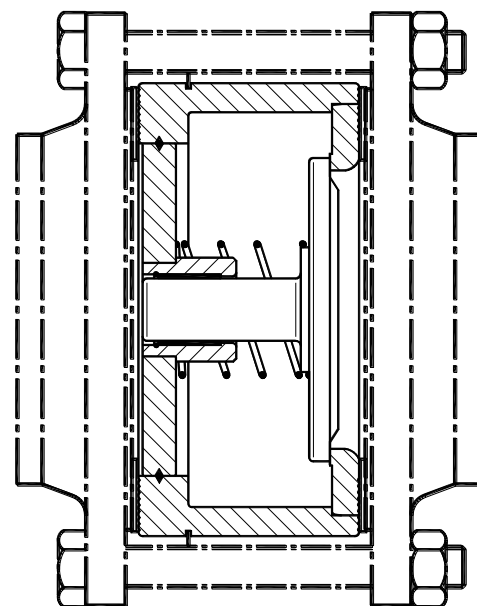SIZES :   DN 125 to DN 200
CONNECTIONS :   Sandwiched between flanges as per EN 1092 or ANSI.
INSTALLATION :   Horizontal or vertical installation .See IMI, installation and maintenance instructions.
RATING :   PN 40
LIMIT OF
OPERATION: As per EN 1092

BODY LIMITING CONDITIONS	
ALLOW. PRES.	RELATED TEMP.
40 bar	100 ºC
33,7 bar	200 ºC
31,8 bar	250 ºC
29,7 bar	300 ºC

Minimum operating temperature: 20ºC

Recommended limit of operation with soft seats (ºC)			
EPDM (E)	NBR (N)	VITON (V)	PTFE (T)
130º	95º	180º	180º

CE MARKING (PED - European Directive)	
PN 40	Category
DN125 -DN200	Category 2 (CE marked)

VALSTEAM ADCA

DIMENSIONS (mm)

DN	D1 PN10/16	D2 PN25	D2 PN40	D2 ANSI150	D2 ANSI300	L	Weight Kg
125	192	192	192	192	216	90	11
150	218	226	226	218	251	106	13,5
200	273	286	293	273	308	140	24
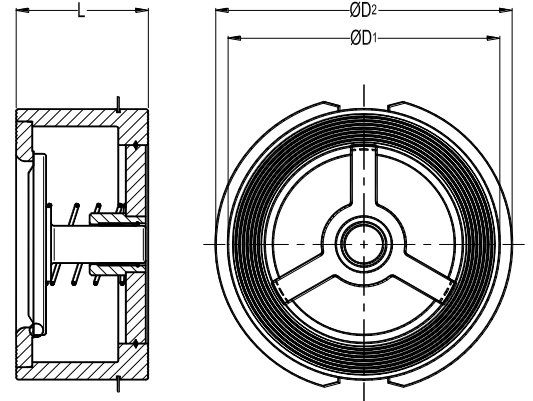
MATERIALS

POS.	DESIGNATION	MATERIAL
1	Valve body	S355J2G3 / 1.0570
2	Seat	AISI316 / 1.4401
3	*Disc	AISI316 / 1.4401
4	*Spring	AISI302 / 1.4300
5	Centering ring	AISI304 / 1.4301
6	Bearing	Steel Fe Zn
7	Star	S355J2G3 / 1.0570
8	*Soft seal	See options

*Available spare parts
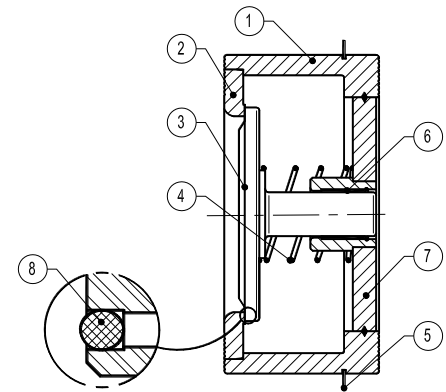
Minimum opening pressures with standard spring in mbar

DN		125	150	200
D.P.	▲	37	40	46
D.P.	➔	22	25	28
D.P.	▼	7	10	10
Flow direction.	———→			

Pressure drop, horizontal flow, standard spring (water − 20°)
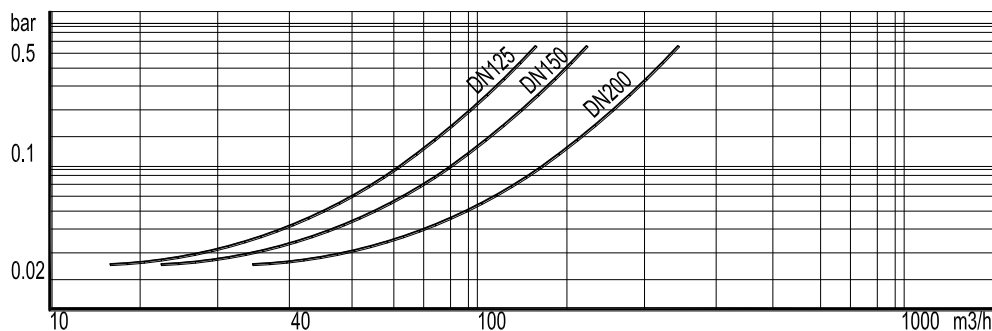
To determine the pressure drop of other mediums the equivalent water flow volume has to be calculated:

$$V_W = \sqrt{\frac{Q}{1000}} \times V$$

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