

## NON-RETURN VALVE RT 25

### DESCRIPTION

The RT25 all stainless steel disc check valve has a compact design and was specially designed for use with steam and hot condensate. Connections are female screwed

### MAIN FEATURES

Low pressure drop.  
Simple and compact design.

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

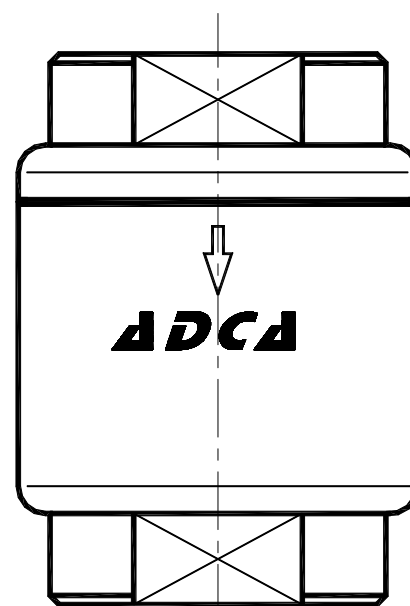
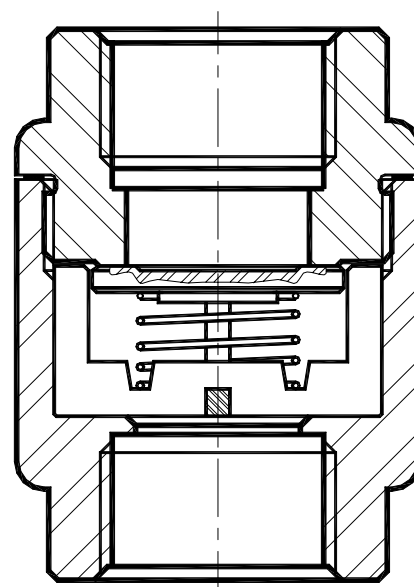
**USE :** Inconel springs  
Saturated steam, water and other gases (Group 2) compatible with the construction

**AVAILABLE MODELS :** RT 25  
**SIZES :** DN 3/8" to DN 2"  
**CONNECTIONS :** Female screwed ISO 7/1 Rp (BS21)  
**INSTALLATION :** Horizontal or vertical installation .See IMI, installation and maintenance instructions.  
**RATING :** PN 25

PMA – Max.allowable pressure 32 bar  
TMA – Max.allowable temperature 250 °C  
PMO – Max.operating pressure 21 bar  
TMO –Max. Operating temperature 220 °C

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

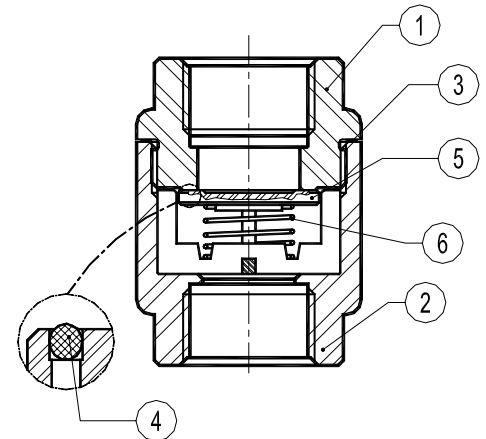
CE MARKING	
PN 25	Category
DN3/8" to DN 11/2"	SEP - art. 3, paragraph3
DN 2"	Category1 (CE marked)



DIMENSIONS (mm)							
DN	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	55	55	60	70	61	72	72
B	40	40	45	50	65	80	80
SW	27	27	32	41	50	55	70
Kgs	0,3	0,3	0,38	0,54	0,68	0,96	1,13

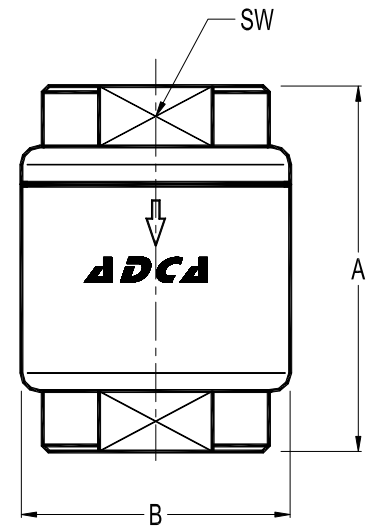
MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316
2	Cover	AISI 316
4	*Soft seal	See options
5	*Valve disc	AISI 316
6	*Spring	AISI 302

\*Available spare parts

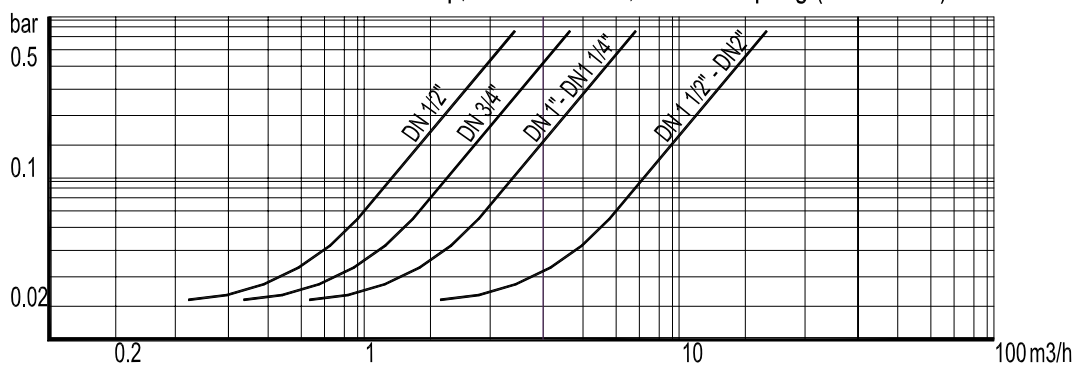


Minimum opening pressures with standard spring in mbar									
DN	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"		
D.P. ▲	25	25	25	25	25	28	29		
D.P. →	23	23	23	23	24	25	25		
D.P. ▼	21	21	21	21	21	21	21		
*D.P. ▲	2	2	2	2	3	4	4		

\* Vertical installation without springs ( bottom to top ). → 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