

**NON-RETURN VALVE  
 RT25**

**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).  
 Inconel springs

**USE :**

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

**AVAILABLE MODELS :**

RT 25

**SIZES :**

DN 1/4" 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 25 bar

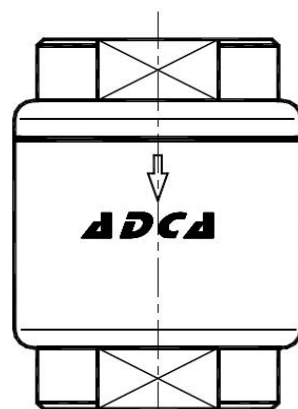
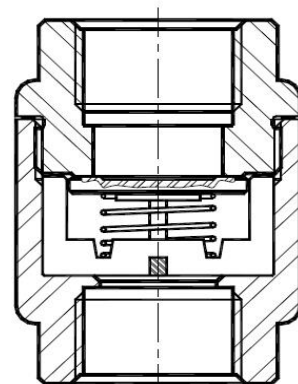
TMA – Max. allowable temperature 250 °C

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
DN 1/4" to DN 1 1/2"	SEP - art. 3, paragraph3
DN 2"	Category1 (CE marked)



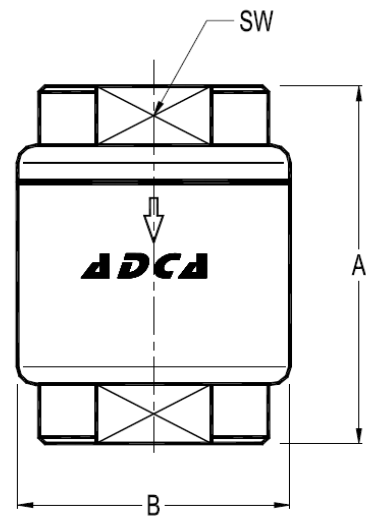
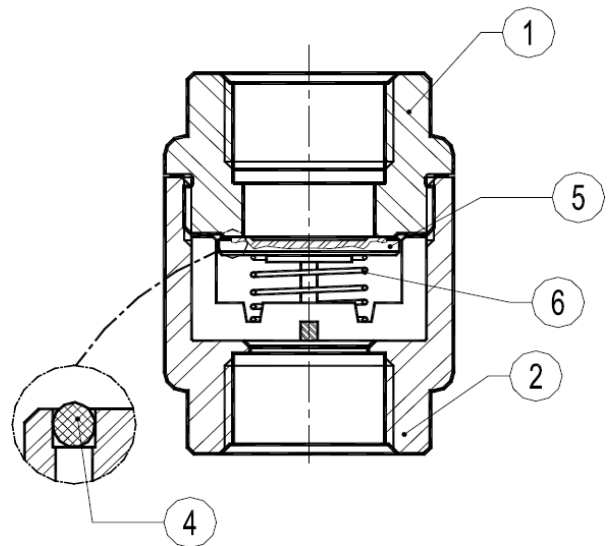
DIMENSIONS (mm)								
DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	55	55	55	60	70	61	72	72
B	40	40	40	45	50	65	80	80
SW	27	27	27	32	41	50	55	70
Kgs	0,3	0,3	0,3	0,38	0,54	0,68	0,96	1,13

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI316 / 1.4401
2	Cover	AISI316 / 1.4401
4	*Soft seal	See options
5	*Valve disc	AISI316 / 1.4401
6	*Spring	AISI302 / 1.4300

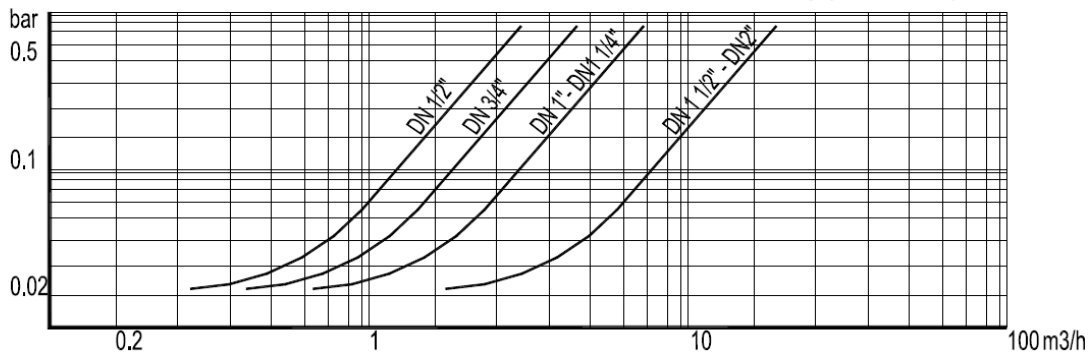
\*Available spare parts

Minimum opening pressures with standard spring in mbar									
DN		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
D.P.	▲	25	25	25	25	25	25	28	29
D.P.	➔	23	23	23	23	23	24	25	25
D.P.	▼	21	21	21	21	21	21	21	21
*D.P.	▲	2	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:  $V_w = \sqrt{\frac{Q}{1000}} \times V$

$V_w$  = Equivalent water flow volume in m3/h ;  $Q$  = Density in Kg/m3 ;  $V$  = Flow volume in m3/h