NON-RETURN VALVES
RT25

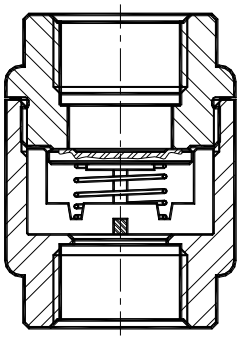
DESCRIPTION

The RT25 all stainless steel disc check valves have a compact design and were specially designed for use with steam and hot condensate.

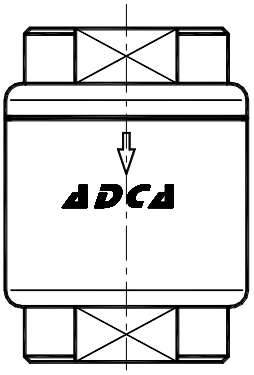
MAIN FEATURES

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 compatible with the construction.
AVAILABLE MODELS:	RT25.
SIZES:	1/4” to 2”.
CONNECTIONS:	Female screwed ISO 7/1 Rp (BS21).
INSTALLATION:	Horizontal or vertical installation. See IMI – Installation and maintenance instructions.
RATING:	PN25.



PMA – Max. allowable pressure	25 bar
TMA – Max. allowable temperature	250 ºC
PMO – Max. operating pressure	21 bar
TMO – Max. operating temperature	220 ºC



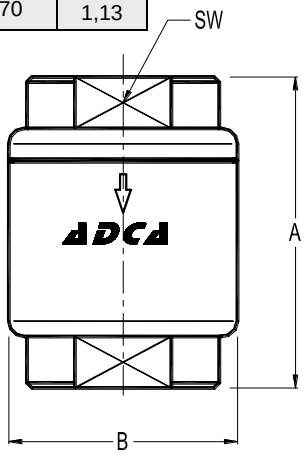
RECOMMENDED LIMITS OF OPERATION WITH SOFT SEALS			
EPDM (E)	**NBR (N)**	**VITON (V)**	**PTFE (T)**
130 ºC	95 ºC	180 ºC	180 ºC

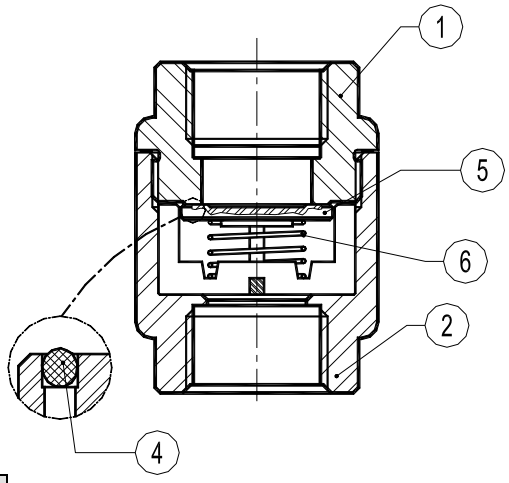
CE MARKING – GROUP 2 (PED – European Directive)	
PN16	**Category**
1/4” to 11/2”	SEP
2”	1 (CE marked)

DIMENSIONS (mm)				
SIZE	**A**	**B**	**SW**	**WGT. (kg)**
1/4”	55	40	27	0,3
3/8”	55	40	27	0,3
1/2”	55	40	27	0,3
3/4”	60	45	32	0,38
1”	70	50	41	0,54
11/4”	61	65	50	0,68
11/2”	72	80	55	0,96
2”	72	80	70	1,13

MATERIALS		
POS. Nº	**DESIGNATION**	**MATERIAL**
1	Body	AISI 316 / 1.4401
2	Cover	AISI 316 / 1.4401
4	* Soft seal	EPDM; NBR; VITON; PTFE
5	* Valve disc	AISI 316 / 1.4401
6	* Spring	AISI 302 / 1.4300

* Available spare parts.

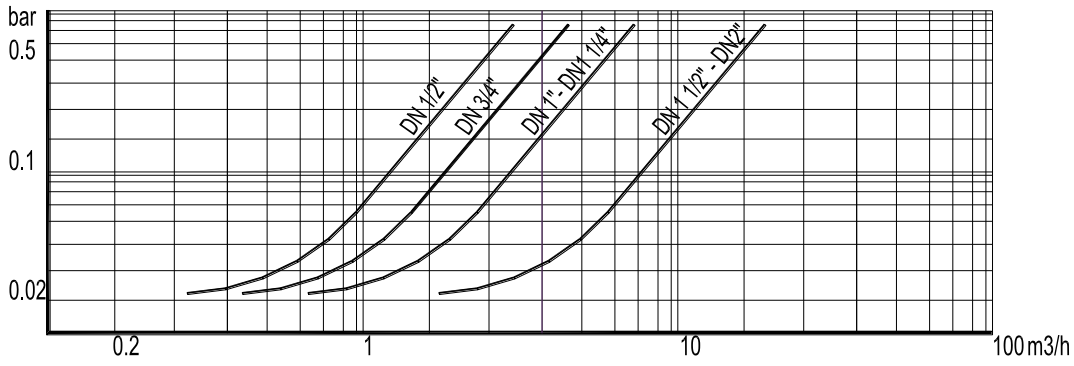




MINIMUM OPENING PRESSURES WITH STANDARD SPRING (mbar)								
SIZE	**D.P.**	↑	**D.P.**	→	**D.P.**	↓	**D.P. ***	↑
1/4”	25		23		21		2	
3/8”	25		23		21		2	
1/2”	25		23		21		2	
3/4”	25		23		21		2	
1”	25		23		21		2	
11/4”	25		24		21		3	
11/2”	28		25		21		4	
2”	29		25		21		4	

→ : 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 m^3/h ; Q = Density in kg/m^3 ; V = Flow volume in m^3/h