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.

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OPTIONS:	Various soft sealing options: EPDM (E), NBR (N), VITON (V), PTFE (T). Inconel springs.
USE:	Saturated steam, water and other gases compatible with the construction.
AVAILABLE MODELS:	RT25 – stainless steel.
SIZES:	1/4" to 2".
CONNECTIONS:	Female threaded ISO 7 Rp or NPT.
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 25	Category
1/4" to 11/2"	SEP
2"	1 (CE marked)

LIMITING CONDITIONS	
Body design conditions	PN 25
Maximum allowable pressure	25 bar
Maximum allowable temperature	250 ºC
Maximum operating pressure	21 bar
Maximum operating temperature	220 ºC
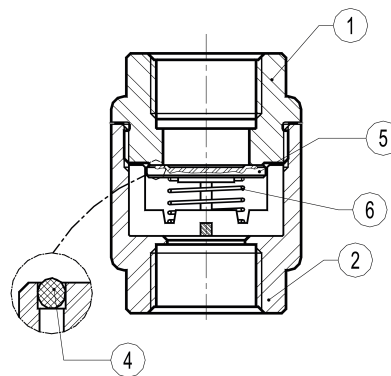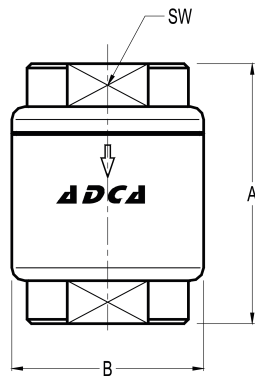
DIMENSIONS				
SIZE	A	B	SW	WEIGHT (kg)
1/4"	55	40	27	0,3
3/8"	55	40	27	0,3
1/2"	55	40	27	0,3
3/4"	60	45	32	0,38
1"	70	50	41	0,54
11/4"	61	65	50	0,68
11/2"	72	80	55	0,96
2"	72	80	70	1,13

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)
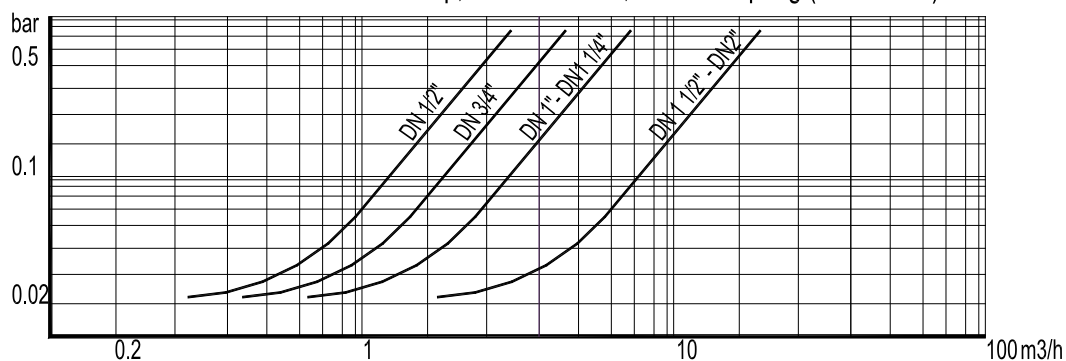
To determine the pressure drop of other mediums the equivalent water flow volume has to be calculated:

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

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