Features

- Single non-return disc check valve
- Made from stainless steel
- 1/2 inch BSP (British Standard Pipe) female screw connections
- Suitable for use with steam and hot condensate
- Maximum working pressure of 25bar
- Maximum operating temperature of 220°C
- CE (European Conformity) pressure rating of PN25
- Low pressure drop

RS PRO Stainless Steel Single Non Return Valve 1/2 in BSP

RS Stock No.: 720-9279

RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

The RS PRO single non-return valve is ideal for controlling the flow of water and steam in heating and cooling systems. It's made from stainless-steel construction and has a simple, compact design. With a maximum operating temperature of +220°C and maximum working pressure of 25 bar, the valve can withstand higher pressures and temperatures than brass alternatives.
Simple to install, this disk check valve has female screw connectors with a 1/2-inch BSP (British Standard Pipe) thread. As the valve is fitted with a spring, it can be installed either horizontally or vertically.

General Specifications

Type	Single
Connection	1/2 in BSP
Body Material	Stainless Steel
Thread Size	1/2in
Thread Standard	BSP
Applications	Saturated steam, water and other gases (Group 2) compatible with the construction

Mechanical Specifications

Body Size	DN 2in

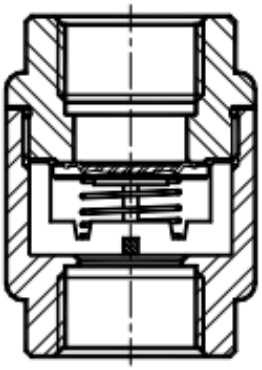
Operating Environment Specifications

Maximum Operating Temperature	+220°C
Maximum Working Pressure	32bar

Approvals

Compliance/Certifications	CE (European Conformity) pressure rating of PN25, ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007

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 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°

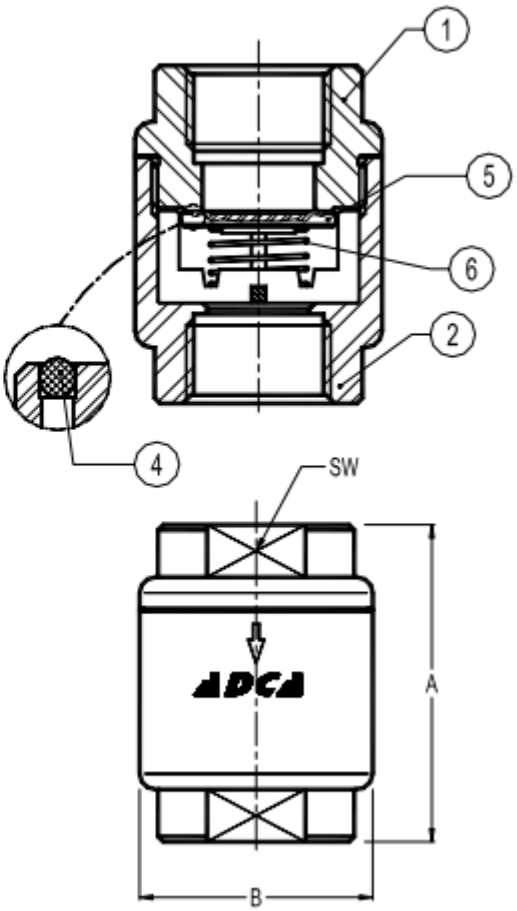
CE MARKING	
PN 25	Category
DN3/8" to DN 11/2"	SEP - art. 3, paragraph3
DN 2"	Category1 (CE marked)

NON-RETURN VALVE
RT 25

DIMENSIONS (mm)							
DN	3/8"	1/2"	3/4"	1"	11/4"	11/2"	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

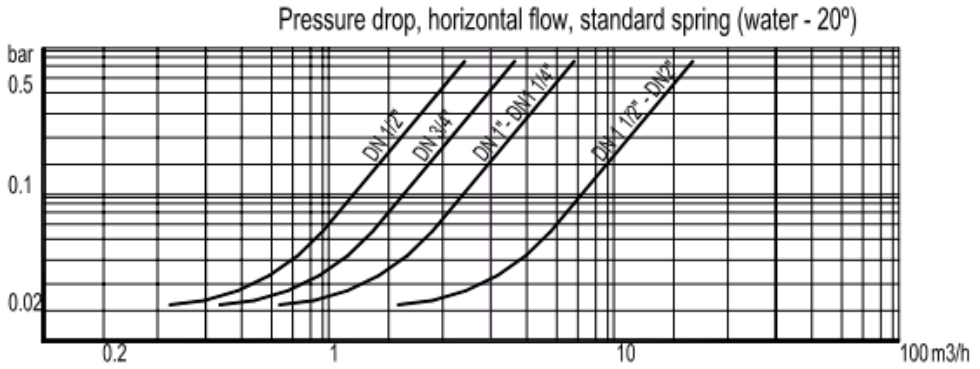
MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI316 / 1.4401
2	Cover	AISI316 / 1.4401
4	*Soft seal	See options
5	*Valve disc	AISI316 / 1.4401
6	*Spring	AISI302 / 1.4300

*Available spare parts



Minimum opening pressures with standard spring in mbar								
DN		3/8"	1/2"	3/4"	1"	11/4"	11/2"	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 direc



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