

## WAFER-TYPE NON-RETURN VALVES RD40 (5" to 8" – DN 125 to DN 200)

### DESCRIPTION

The ADCA RD40 disc check valves have a compact design and are specially designed for use with steam and hot condensate.

### MAIN FEATURES

Low pressure drop.  
Simple and compact design.  
Overall lengths according to DIN EN 558-1 (DIN 3202 part 3, series K4).

**OPTIONS:** Various soft sealing options:  
EPDM (E), NBR (N), FPM (V), PTFE (T).  
Inconel springs.

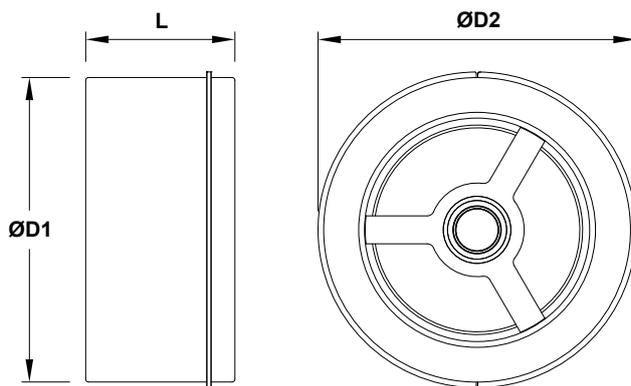
**USE:** Saturated steam, water and other gases and liquids compatible with the construction.

**AVAILABLE MODELS:** RD40 – carbon steel body, stainless steel disc and seat.

**SIZES:** 5" to 8"; DN 125 to DN 200.

**CONNECTIONS:** Sandwiched between flanges as per EN 1092 or ASME.

**INSTALLATION:** Horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.



DIMENSIONS							
SIZE	PN 10/16	PN 40		CLASS 150	CLASS 300	L	WGT. (kg)
	ØD1	ØD1	ØD2 *	ØD1	ØD2 *		
5" – DN 125	192	192	–	192	212	90	10
6" – DN 150	218	–	226	218	247	106	14
8" – DN 200	273	–	290	273	304	140	24

\* Centering ring required.

<b>CE MARKING – GROUP 2 (PED – European Directive)</b>	
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PN 40	Category
DN 125 to 200	2 (CE marked)

<b>BODY LIMITING CONDITIONS</b>	
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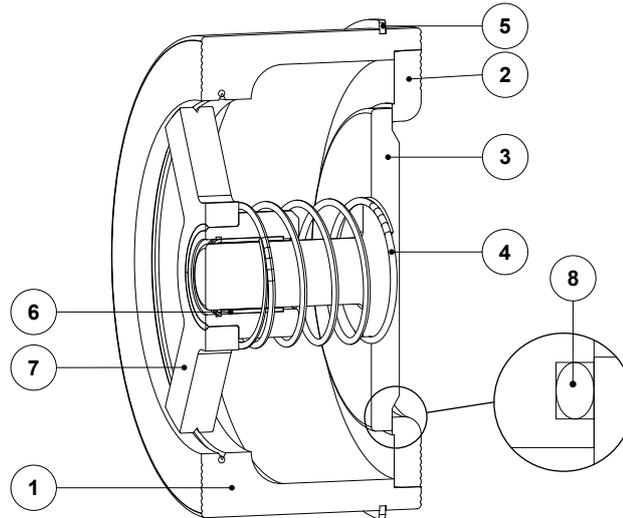
WAFER PN 40 *	
ALLOWABLE PRESSURE	RELATED TEMPERATURE
40 bar	100 °C
33,7 bar	200 °C
31,8 bar	250 °C
29,7 bar	300 °C

\* According to EN 1092.

Minimum operating temperature: - 10 °C.

<b>RECOMMENDED LIMITS OF OPERATION WITH SOFT SEALS</b>			
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EPDM (E)	NBR (N)	FPM (V)	PTFE (T)
130 °C	95 °C	180 °C	180 °C



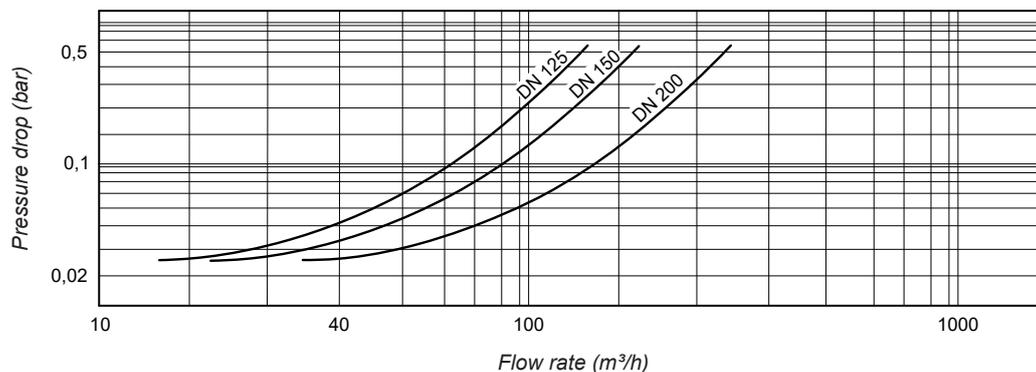
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	S355JR / 1.0045
2	Seat	AISI 316 / 1.4401
3	* Disc	AISI 316 / 1.4401
4	* Spring	AISI 302 / 1.4300
5	Centering ring	AISI 304 / 1.4301
6	Bearing	Steel Fe Zn
7	Star	S355JR / 1.0045
8	* Soft seal	EPDM; NBR; FPM; PTFE

\* Available spare parts.

MINIMUM OPENING PRESSURES WITH STANDARD SPRING (mbar)			
SIZE	D.P. ↑	D.P. →	D.P. ↓
5" – DN 125	37	22	7
6" – DN 150	40	25	10
8" – DN 200	46	28	10

→ : Flow direction.

### PRESSURE DROP, HORIZONTAL FLOW, STANDARD SPRING (WATER AT 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