

# PRESSURE REDUCING VALVES

## PED 2014/68/UE

RP10/E

07 | 2016



## TYPE **RP10**



**A105 nickel plated carbon steel PN25**  
**AISI 316 L stainless steel PN25**

### DESCRIPTION

Series RP10 pressure reducing valve is self-actuated type suitable for steam or not dangerous gases as compressed air or nitrogen.

It is available in two different versions, with screwed or flanged connections and in two different materials :

- nickel plated carbon steel
- AISI 316L stainless steel

#### SIZES :

Ø 1/2" - 3/4" - 1"  
 DN 15 - 20 - 25

#### MAX WORKING CONDITIONS :

Maximum inlet pressure :

- With steam, compressed air and nitrogen : 19 bar

Maximum working temperature : 210 °C  
 Maximum downstream reduced pressure : 8,6 bar  
 Minimum downstream reduced pressure : 0,12 bar  
 Rangeability Ø 1/2" – DN15 : 10:1  
 Ø 3/4" – Ø1"–DN20–DN25 : 15:1

#### ON REQUEST :

Ø 1/8" BSP hole complete with AISI 316 L st. st. plug and fitting for external pressure sensing connection (Ø 6 mm)

**CV flow rate coefficients (flow in GPM with 1 psi of differential pressure)**

NOMINAL DIAMETER		
DN 15	DN 20	DN 25
Ø 1/2"	Ø 3/4"	Ø 1"
1,31	2,68*	4,18*

#### CONNECTIONS :

Female screwed UNI - ISO 7/1 Rp (gas) PN 25  
 flanged EN 1092-1 form B PN25

#### REDUCED PRESSURE RANGE :

White : 0,12- 1,8 bar (white plate)  
 Green : 1,5 - 4 bar (green plate)  
 Red : 3 - 8,6 bar (red plate)

If the reduced pressure value falls in between of two of the above mentioned range, always choose the lower range which ensures greater accuracy and easy positioning.

**Kv flow rate coefficients (flow in m3/h with 1 bar of differential pressure)**

NOMINAL DIAMETER		
DN 15	DN 20	DN 25
Ø 1/2"	Ø 3/4"	Ø 1"
1,12	2,28*	3,57*

\* On request are available the following reduced bores :

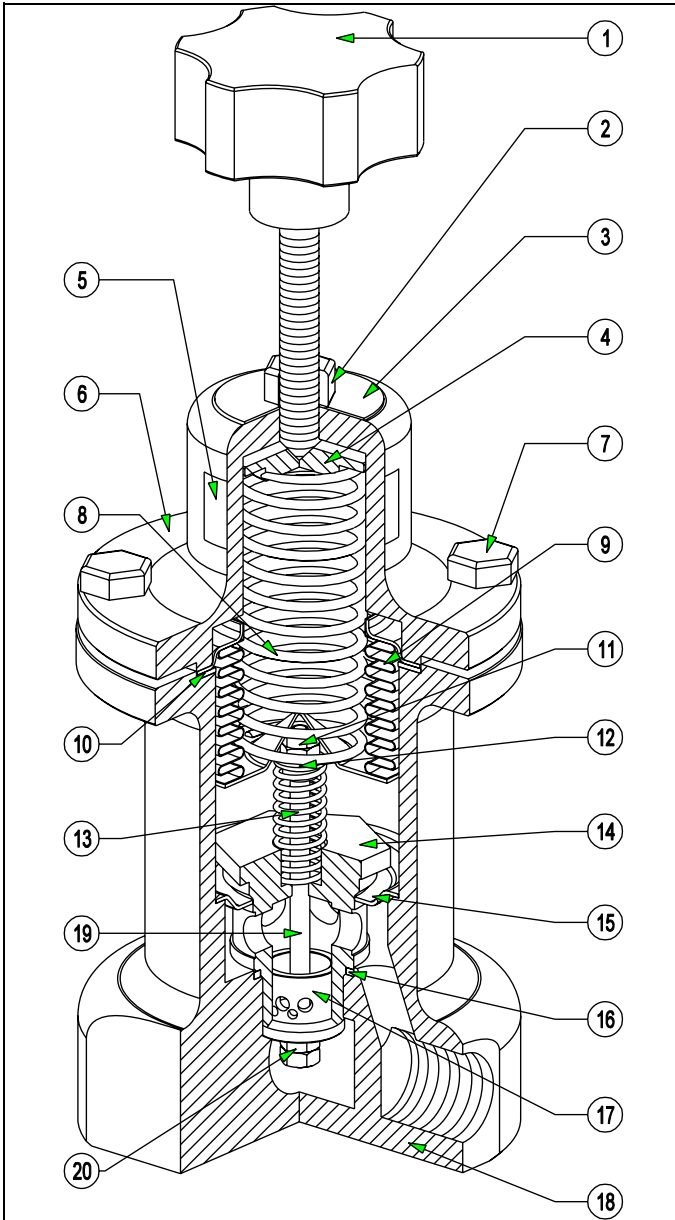
Ø 3/4" with reduced bore Ø 1/2" - Ø 1" with reduced bore Ø 3/4" or Ø 1/2"

# CONFLOW s.p.a.

COMPANY WITH  
 QUALITY SYSTEM  
 CERTIFIED BY DNV GL  
 = ISO 9001 =

Via Lecco, 69/71  
 20864 AGRATE BRIANZA (MB)  
 Tel. 039/651.705 - 650.397  
 Fax 039/654.018  
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# COMPONENTS LIST and MATERIALS



## COMPONENTS LIST

- 1) Adjustment handwheel
- 2) Handwheel locking nut
- 3) Reducing range plate
- 4) Top spring plate
- 5) Identification plate
- 6) Cap
- 7) n°4 locking nuts
- 8) Spring
- 9) Bellows
- 10) Body gasket
- 11) n°2 stem locking nuts
- 12) Plug washer
- 13) Plug spring
- 14) Seat
- 15) Bulkhead plate
- 16) Seat gasket
- 17) Plug
- 18) Body
- 19) Stem
- 20) Washer and n° 2 plug locknuts

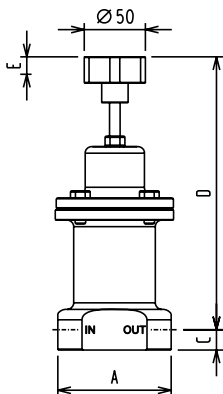
## MATERIALS

- 1) Phenoplast with AISI 304 st. steel bolt
- 2) AISI 304 st. steel
- 3) Alluminium
- 4) OT58 Brass
- 5) Alluminium
- 6) C40 nickel plated AISI 316 L st. steel
- 7) AISI 304 st. steel
- 8) C98 painted steel
- 9) AISI 321 st. steel
- 10) Centellen WS3820
- 11) AISI 304 st. steel
- 12) AISI 316 L st. steel
- 13) AISI 316 st. steel
- 14) AISI 316 L st. steel
- 15) AISI 316 L st. steel
- 16) Centellen WS3820
- 17) AISI 316 L st. steel
- 18) C40 nickel plated AISI 316 L st. steel
- 19) AISI 316 L st. steel
- 20) AISI 304 st. steel

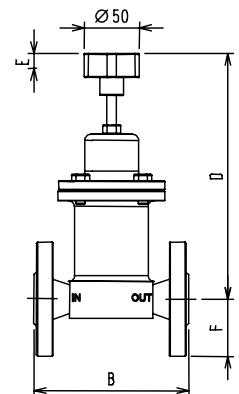
## SPARE PARTS KIT

Spring - Plate and body gasket (ref. 3-8-10)	Bellows and body gasket (ref. 9-10)	Complete trim (Seat-plug) (ref. 10-11-12-13-14-15-16-17)
<b>Code</b>		
JRP10MB (white spring)	<b>JRP10SGFB00</b>	JRP10TC1500 (Ø 1/2"- DN 15)
JRP10MV (green spring)		JRP10TC2000 (Ø 3/4"- DN 20)
JRP10MR (red spring)		JRP10TC2500 (Ø 1"- DN 25)
JRP10MU (three spring)		

## DIMENSIONS and WEIGHTS



DIMENSIONS mm								WEIGHT Kg.	
DN	Ø	A	B	C	D	E stroke max	F	Screwed	Flanged
15	1/2"	86	130	15.5	181	-15	47.5	2,9	4,0
20	3/4"	90	150	18.5	184	-15	52.5	3,1	5,0
25	1"	93	160	21.5	187	-15	57.5	3,3	5,9



Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. All data sheets by CONFLOW SpA, are available last update on our internet web site [www.conflo.it](http://www.conflo.it).