



## TYPE RP10



**C40 nickel plated carbon steel PN25**  
**AISI 316 L stainless steel PN25**

### DESCRIPTION

Series RP10 pressure reducing valve is self-actuated type suitable for steam, compressed air, gases and vapours.  
 For water applications the maximum inlet pressure is not to exceed 5 barg while for steam and gas applications it's recommended for differential pressures not exceeding 10 barg.  
 The series RP10 pressure reducing valve is available with flanged and screwed connections.

### SIZES

Ø 1/2" - 3/4" - 1"  
 DN 15 - 20 - 25

### MAX WORKING CONDITIONS

Maximum inlet pressure :  
 • with steam, compressed air and gases : 19 bar  
 • with water : 5 bar  
 Maximum design 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

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

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

NOMINAL DIAMETERS		
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 (BSP) PN 25  
 flanged UNI/DIN 2238/29 PN25

### REDUCED PRESSURE RANGES

White : 0,12- 1,8 bar (white identification plate)  
 Green : 1,5 - 4 bar (green identification plate)  
 Red : 3 - 8.6 bar (red identification plate)

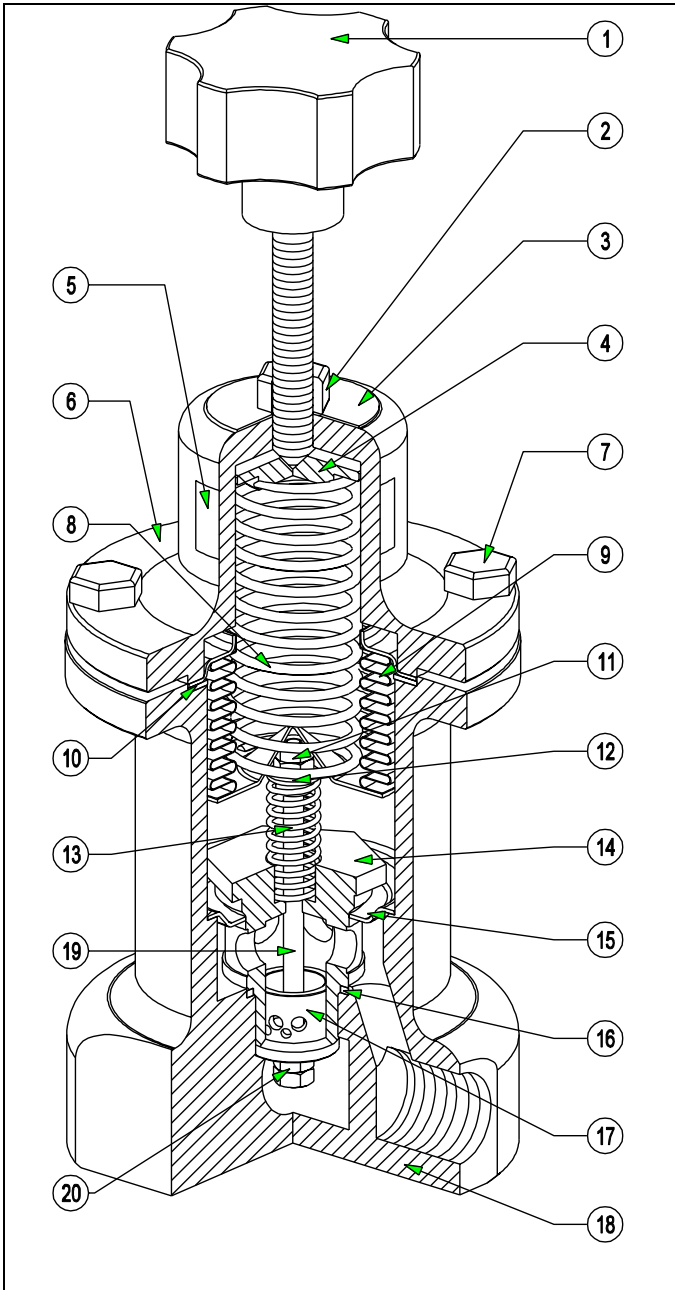
Where control spring ranges overlap, always use the lower range to give better control and precision.

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

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

\* On request reduced bores as follows :  
 Ø 3/4" with reduced bore Ø 1/2" - Ø 1" with reduced bore Ø 3/4" or Ø 1/2"

# COMPONENTS LIST and MATERIALS



## COMPONENTS LIST

## MATERIALS

- |                                 |   |
|---------------------------------|---|
| 1) Adjustment hand wheel        | 1) Phenoplast with<br>AISI 304 st. steel bolt       |
| 2) Safety nut                   | 2) AISI 304 st. steel                               |
| 3) Spring range ident. plate    | 3) Aluminium  |
| 4) Top spring plate             | 4) OT58 Brass                                       |
| 5) Identification plate         | 5) Aluminium  |
| 6) Cap                          | 6) C40 nickel plated steel<br>AISI 316 L st. steel  |
| 7) Cap screws                   | 7) AISI 304 st. steel                               |
| 8) Spring                       | 8) C98 painted steel                                |
| 9) Bellows                      | 9) AISI 321 st. steel                               |
| 10) Body gasket                 | 10) Centellen WS3820                                |
| 11) Plug locknuts               | 11) AISI 304 st. steel                              |
| 12) Plug washer                 | 12) AISI 316 L st. steel                            |
| 13) Plug spring                 | 13) AISI 316 st. steel                              |
| 14) Seat                        | 14) AISI 316 L st. steel                            |
| 15) Bulkhead plate              | 15) AISI 316 L st. steel                            |
| 16) Seat gasket                 | 16) Centellen WS3820                                |
| 17) Plug                        | 17) AISI 316 L st. steel                            |
| 18) Body                        | 18) C40 nickel plated steel<br>AISI 316 L st. steel |
| 19) Stem                        | 19) AISI 316 L st. steel                            |
| 20) Washer and plug<br>locknuts | 20) AISI 304 st. steel                              |

## SPARE PARTS KIT

### Spring and body gasket (parts 3-8-10)

code KITRP10MB (white spring)  
code KITRP10MV (green spring)  
code KITRP10MR (red spring)

### Bellows and body gasket (parts 9-10)

code SPARERP10B

### Seat / plug (parts 10-11-12-13-14-15-16-17)

code SPARERP1015 (Ø 1/2" - DN 15)  
code SPARERP1020 (Ø 3/4" - DN 20)  
code SPARERP1025 (Ø 1" - DN 25)

## DIMENSIONS and WEIGHTS

DN	Ø	DIMENSIONS mm						WEIGHT Kg	
		A	B	C	D	E max stroke	F	Screwed	Flanged
15	1/2"	86	130	15,5	181	-10	47,5	2,9	4,0
20	3/4"	90	150	18,5	184	-10	52,5	3,1	5,0
25	1"	93	160	21,5	187	-10	57,5	3,3	5,9

Specification given are only indicative and not binding for the manufacturer who reserves the rights to carry-out any modification deemed necessary without prior notice