

## Pressure-reducing, 3-way plastic pilot-valve

The 29-100 is a 3-way, diaphragm actuated, spring-loaded pilot-valve that is designed for control of pressure-reducing hydraulic valves. The pilot valve operates as a selector between the common port and the two other ports. The pilot valve will vent, pressurize or lock the hydraulic valve's chamber as a factor of the relation between the regulated pressure and the adjusted set-value.

### Features

- 3-way pilot valve
- Made of corrosion-proof composite materials
- Minimize pressure losses through the main valve by completely venting the control chamber
- Wide regulation range
- Accurate and easy to adjust
- Simple design
- "Poppet" design: minimal internal sealing and maximal dependability

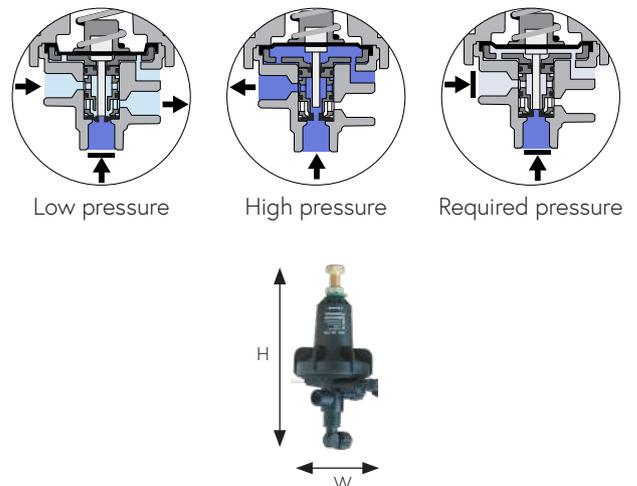


### Typical applications

- Pressure reducing valves - PR
- Topography-compensating, 'Normally Open', remote hydraulic-control - RC(NO)

### Technical data

General	
Pressure rating	10 bar / 150 psi
Pressure adjustment range	0.3 - 7.5 bar / 4 - 110 psi
Fluid temperature	50°C max. / 120°F max.
Weight	0.17 kg / 0.37 lbs
Materials	
Body and bonnet	GRP
Elastomers	NBR
Internal parts	SST
Spring	SST
Dimensions	
H (Height) max.	130 mm / 5.12"
W (Width)	65 mm / 2.56"
Control Ports	NPT 1/8"
Port Connections	
1, 2, 3, 4	NPT 1/8"



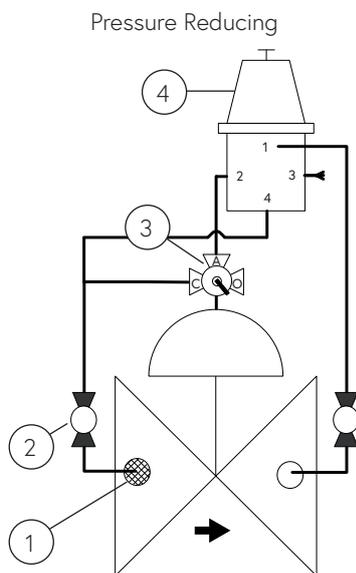
## Installation

### Main components

#	Description
1	Self flushing filter
2	Isolation ball valve
3	3-way manual selector valve
4	29-100 Pilot valve

### Connections

Port	Pressure Reducing
1	Downstream
2	Valve control chamber
3	Vent
4	Upstream



Sample drawing. Consult Dorot for the assembly design to fit your needs.

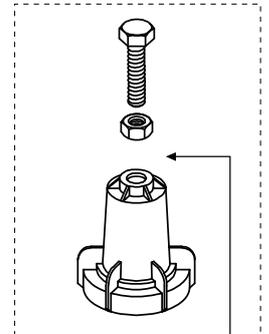
### Springs adjustment range

Spring number	Color	bar	psi
54 (Std.)	Green	0.5 - 4.5	7 - 65
72	Yellow	0.3 - 3	4 - 40
65	Red	1 - 7.5	15 - 110

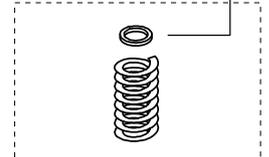
Adjustment: Turn the adjusting screw clockwise to increase the set point

### Spare parts

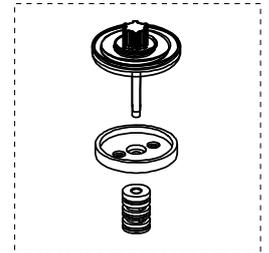
#### Bonnet kit



#### Spring kit



#### Internal parts kit



#### Body kit



### Catalogue numbers

Description	Catalogue number
Bonnet kit	661022910000000
Spring Kit 54 - Green	6622054000
Spring Kit 72 - Yellow	6622072000
Spring Kit 65 - Red	6622065000
Internal parts kit	661022910000000
Body kit	661012910000000