

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

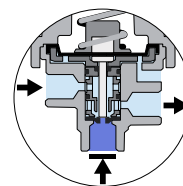


Typical applications

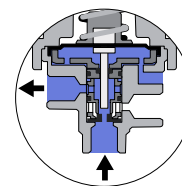
- Pressure reducing valves - PR
- Topography-compensating, 'Normally Open', remote hydraulic-control - RC(NO)

Technical data

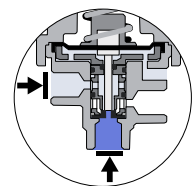
General	
Pressure rating	10 bar / 150 psi
Pressure adjustment range	0.3 - 7.5 bar / 4 - 110 psi
Fluid temperature	50°C max. / 120°F max.
Weight	0.17 kg / 0.37 lbs
Materials	
Body and bonnet	GRP
Elastomers	NBR
Internal parts	SST
Spring	SST
Dimensions	
H (Height) max.	130 mm / 5.12"
W (Width)	65 mm / 2.56"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



Low pressure



High pressure



Required pressure



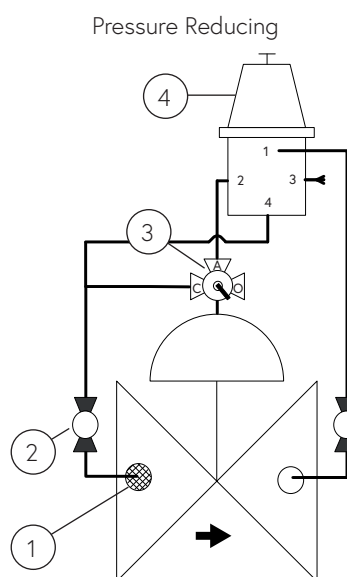
Installation

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.

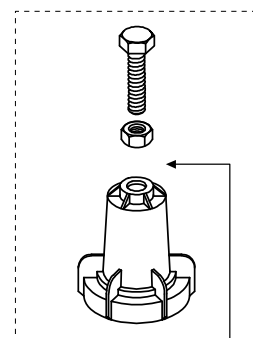
Springs adjustment range

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

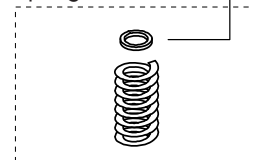
Adjustment: Turn the adjusting screw clockwise to increase the set point

Spare parts

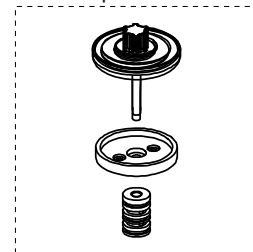
Bonnet kit



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	661202910000000
Body kit	661012910000000