

## Multi-purpose, 3-way plastic pilot-valve

The 29-200 is a 3-way, diaphragm actuated, spring-loaded pilot-valve that is designed for control of pressure-regulating 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. The 29-200 pilot-valve can be used for implementing wide range of hydraulic control-functions.

### 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 and maximal dependability
- Same pilot valve can be used for various control functions by simply changing the way it is connected to the valve!



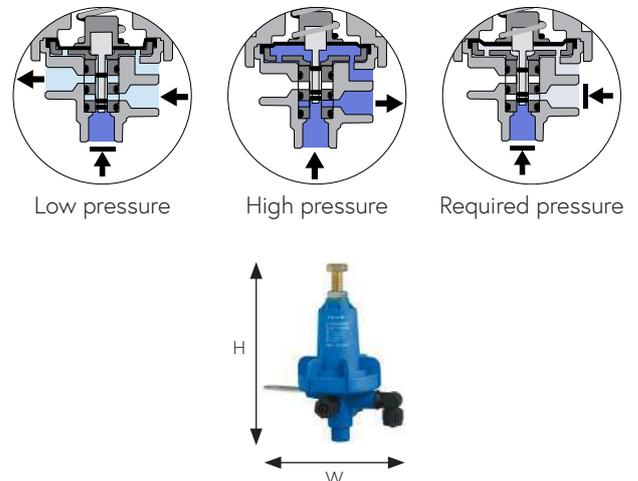
### Typical applications

- Pressure reducing valves - PR
- Pressure sustaining valves - PS
- Topography-compensating, remote hydraulic-control - RC
- Differential pressure sustaining valves - DI (model 29-200D)

### 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                 | Standard                    | Optional*  |
| Body and bonnet           | GRP                         | PP         |
| Elastomers                | NBR                         | EPDM - ALD |
| Internal parts            | C. Brass+PTFE               | SST 316    |
| Spring                    | SST                         | SST 316    |
| Dimensions                |                             |            |
| H (Height) max.           | 130 mm / 5.12"              |            |
| W (Width)                 | 65 mm / 2.56"               |            |
| Port Connections          |                             |            |
| 1, 2, 3, 4                | NPT 1/8"                    |            |

\* other materials available upon demand



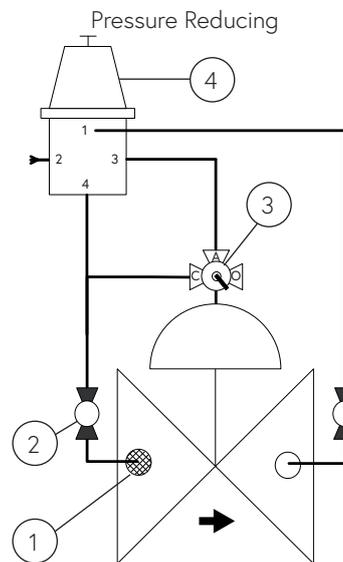
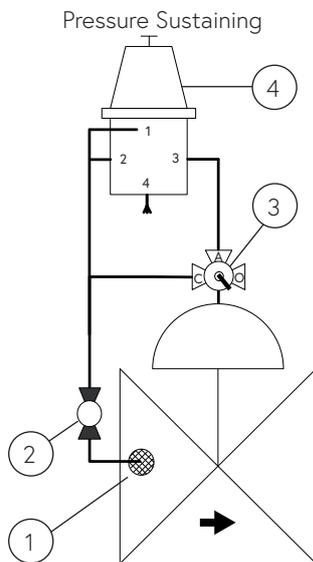
## Installation

### Main components

| # | Description                 |
|---|-----------------------------|
| 1 | Self flushing filter        |
| 2 | Isolation ball valve        |
| 3 | 3-way manual selector valve |
| 4 | 29-200 Pilot valve          |

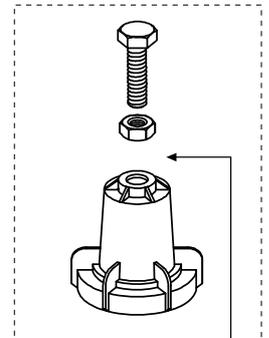
### Connections

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

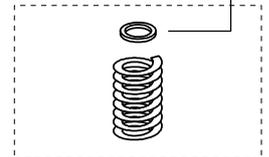


### Spare parts

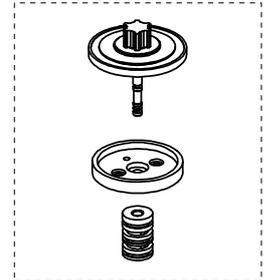
#### Bonnet kit



#### Spring kit



#### Internal parts kit



#### Body kit



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

### Catalogue numbers

| Description            | Catalogue number |
|------------------------|------------------|
| Bonnet kit             | 661022920000000  |
| Spring Kit 54 - Green  | 6622054000       |
| Spring Kit 72 - Yellow | 6622072000       |
| Spring Kit 65 - Red    | 6622065000       |
| Internal parts kit     | 661202920000000  |
| Body kit               | 661012920000000  |