△ DOROT 76-200



Multi purpose, 3-way metal pilot-valve

The 76-200 is a 3-way, diaphragm actuated, spring- loaded pilot-valve that is designed for control of 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 76-200 pilot-valve can be used for implementing wide range of hydraulic control-functions.

Features

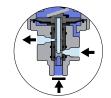
- A multi-purpose 3-way pilot valve designed for flow regulating, pressure-differential reducing and pressure differential-sustaining valves
- Fully vents the control chamber to open minimize pressure losses
- Can be used with any hydraulic control valve of any size (as standard used with valve sizes larger than 6"/150mm)
- Wide regulation range
- Accurate and easy to adjust
- Simple design
- Can be activated by hydraulic or pneumatic pressure

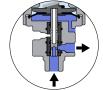
Typical applications

- Flow-rate control valves FR
- Differential pressure reducing valves DP
- Differential pressure sustaining valves DI
- Excessive flow Shut-Off valves FE

Technical data

General			
Pressure rating	25 bar / 360 p	25 bar / 360 psi 2 - 65 mt / 3 - 95 psi 80°C max. / 176°F max.	
Pressure adjustment range	2 - 65 mt / 3 -		
Fluid temperature	80°C max. / 17		
Weight	2.2 Kg. / 5 lbs.		
Materials	Standard	Optional*	
Body and bonnet	Brass	SST	
Elastomers	NBR	EPDM	
Internal parts	SST		
Spring	SST		
Dimensions			
H (Height) max.			
W (Width)	86 mm / 3.38"		
Port Connections			
1, 2, 3, 4	NPT 1/4"		
5	NPT 1/8"		





High flow



Low flow

Required flow





* other materials available upon demand

DOROT 76-200



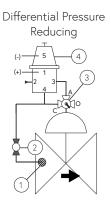
Installation

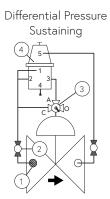
Main components

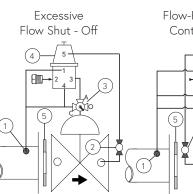
#	Description	
1	Self flushing filter	
2	Isolation ball valve	
3	3-way Manual selector valve	
4	76-200 Pilot valve	
5	Orifice plate	

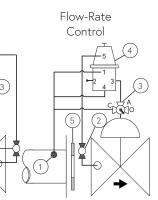
Connections

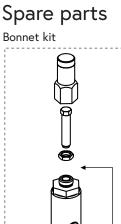
Port	Flow-Rate Control	Differential Pressure Reducing	Excessive Flow Shut - Off	Differential Pressure Sustaining
1	Upstream orifice	Upstream orifice	Upstream orifice	Upstream valve
2	Vent	Vent	Plug	Upstream valve
3	Control chamber	Control chamber	Control chamber	Control chamber
4	Upstream orifice	Upstream valve	Upstream orifice	Vent
5	Downstream orifice	Downstream orifice	Downstream valve	Downstream valve





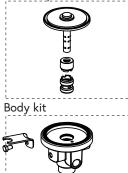












Sample drawing. Consult Dorot for the assembly design to fit your needs.

Springs adjustment range

Spring number	Color	Meter	psi
70 (Std.)	No color	2 - 5	3 - 7
42	Yellow	5 - 45	7 - 65
47	Green	10 - 65	15 - 95

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

Catalogue numbers

Description	Catalogue number
Bonnet kit	661027620000000
Spring 70	0022070000
Spring 42 - Yellow	0022042000
Spring 47 - Green	0022047000
Internal parts kit	661207620000000
Body kit	661017620000000