DOROT CXPS



Pressure-sustaining/relief, 2-way metal pilot-valve

The CXPS is a 2-way, diaphragm actuated, spring-loaded, pressure-sustaining pilot-valve, designed for control of hydraulically actuated valves. The pilot valve modulates to keep a steady, pre-set pressure upstream of the valve's location. As the upstream pressure rises above the adjusted value, the pilot-valve opens to allow water flow between its "COM" and "OUT" ports, thus allowing the water in the main valve's chamber to be vented out to the downstream, causing the main valve to open. As the downstream pressure falls below the set-value, the pilot valve throttles the internal passage, restricting the flow out of the main valve's control-chamber, restricting the valve's opening or causing it to close (if necessary).

Features

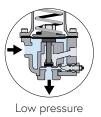
- · 2-way pilot valve for high-accuracy pressure sustaining/relief applications
- · Normally-close, will open when the upstream pressure exceed the adjustable spring setting
- Integral SST needle valve highly accurate and simplify the control-loop assembly
- Wide regulation range: a single spring is used for setting range of 3-19 bar / 45-275 psi. No need for different springs for that range!
- Easy to adjust

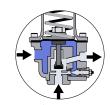
Typical applications

- Pressure sustaining control valves PS
- Pressure relief valve PS(R)
- Quick acting pressure-relief QR

Technical data

General				
Pressure rating	25 bar / 360 psi			
Pressure adjustment range	0.3 - 35 bar / 4 - 500 psi			
Fluid temperature	80°C max. / 175°F max.			
Weight	2.23 Kg / 4.92 lbs			
Materials	Standard	Optional*		
Body and bonnet	Brass	SST/Bronze		
Elastomers	NBR	EPDM		
Internal parts	SST			
Spring	SST			
Dimensions				
H (Height) max.	215 mm / 8.46"			
W (Width)	84 mm / 3.31"			
Port Connections				
I, C	NPT 1/4"			
0	NPT 1/2"			





High pressure





* other materials available upon demand

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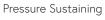
Installation

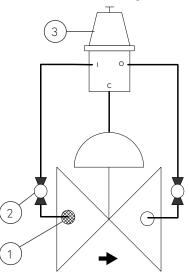
Main components

#	Description
1	Self flushing filter
2	Isolation ball valve
3	CXPS pilot valve

Connections

Port	Pressure Reducing
	Upstream
С	Valve control chamber
0	Downstream



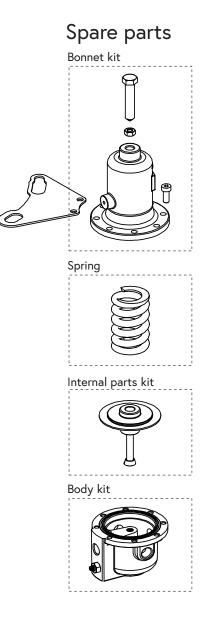


Sample drawing. Consult Dorot for the assembly design to fit your needs.

Springs adjustment range

Spring number	bar	psi
53 (Std.)	3 - 19	44 - 275
125	15 - 35	215 - 500
108	0.3 - 3.5	4 - 50

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



Catalogue numbers

Description	Catalogue number	
Bonnet kit	66102CXPR000000	
Spring 53	0022053000	
Spring 125	0022012500	
Spring 108	0022010800	
Internal parts kit	66120CXPS000000	
Body kit	66101CXPS000000	