



CXPS

METAL PILOTS
2-WAY PILOT-VALVE
PRESSURE-SUSTAINING/RELIEF



DESCRIPTION

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

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: one spring is used for most of the setting range

APPLICATIONS

Pressure sustaining control valves - **PS**

Pressure relief valve - **PS(R)**

Quick acting pressure-relief - **QR**

GENERAL

| | |
|----------------------------------|----------------------------|
| PRESSURE RATING | 25 bar / 360 psi |
| PRESSURE ADJUSTMENT RANGE | 0.3 - 35 bar / 4 - 500 psi |
| FLUID TEMPERATURE | 80°C max. / 176°F max. |
| WEIGHT | 2.23 Kg / 4.92 lbs |

| MATERIALS | STANDARD | OPTIONAL* |
|------------------------|----------|---------------|
| BODY AND BONNET | Brass | SST or 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" |
| O | NPT 1/2" |

* Other materials available upon demand

| SPRING NUMBER | BAR | PSI |
|---------------|-----------|-----------|
| 53 (Std.) | 2.5 - 19 | 37 - 275 |
| 125 | 15 - 35 | 215 - 500 |
| 108 | 0.3 - 3.5 | 4 - 50 |

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

