

# 31-310

METAL PILOTS  
3-WAY PILOT-VALVE  
MULTI-PURPOSE



## DESCRIPTION

The **31-310** is a 3-way, diaphragm actuated, spring-loaded pilot-valve that is designed for control of pressure-regulating hydraulic-valves. The pilot valve serves 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 **31-310** pilot-valve can be used for implementing wide range of hydraulic control-functions.

## FEATURES

Minimize pressure losses through the main valve by completely venting the control chamber

Same pilot valve can be used for various control functions by simply changing the way it is connected to the valve

Can be activated by hydraulic or pneumatic pressure

## APPLICATIONS

Pressure reducing valves - **PR**

Pressure sustaining valves - **PS**

GENERAL		
<b>PRESSURE RATING</b>	40 bar / 580 psi	
<b>PRESSURE ADJUSTMENT RANGE</b>	0.2 - 33 bar / 3 - 480 psi	
<b>FLUID TEMPERATURE</b>	80°C max. / 175°F max.	
<b>WEIGHT</b>	1.78 kg / 4 lbs	
MATERIALS	STANDARD	OPTIONAL*
<b>BODY AND BONNET</b>	Brass	SST
<b>ELASTOMERS</b>	NBR	EPDM
<b>INTERNAL PARTS</b>	SST	-
<b>SPRING</b>	SST	-
DIMENSIONS		
<b>H (HEIGHT) MAX.</b>	221 mm / 8.70"	
<b>W (WIDTH)</b>	83 mm / 3.27"	
PORT CONNECTIONS		
<b>1,2,3,4</b>	NPT 1/4"	

\* Other materials available upon demand

SPRING NUMBER	COLOUR	BAR	PSI
47 (Std.)	Green	0.5 - 10	7 - 150
42	Yellow	0.3 - 6	4 - 90
50	Red	0.6 - 15	9 - 220
70	No Colour	0.2 - 0.5	3 - 7

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

