Pilots

Pilots
Different 2-way and 3-way navaton pilots provide diverse control functions required for water systems. For efficient, cost-effective and reliable pressure and flow control.

Functions for navatons:
- Pressure reduction
- Pressure sustaining
- Differential pressure sustaining
- Pressure relief
- Flow control
- Pipe burst protection
- Combination of functions

Pilots
Technical data

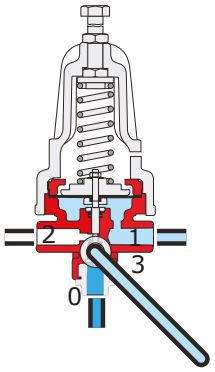
Specifications:	**Plastic**	**Metal**
• Connections:	1/8" NPT	¼" NPT
• Working pressure:	0 - 10 bar	0 - 16 bar
• Max. temperature:	50 °C	80 °C

Materials:		
• Body:	polyamide	brass (optional: stainless steel)
• Elastomers:	NBR	NBR
• Internal parts:	stainless steel and brass	stainless steel and brass
• Spring:	galvanised steel	stainless steel

Spring selection:

Spring	Color	System pressure
G	blue	1 - 10 kg/cm²
N	S.S. (natural)	0,8 - 6,5 kg/cm²
K	grey	0,5 - 3 kg/cm²
J	green	0,2 - 1,7 kg/cm²

PC10 pressure reducing / pressure sustaining 3W
The pilot can be connected for either pressure-reducing or pressure- sustaining function.



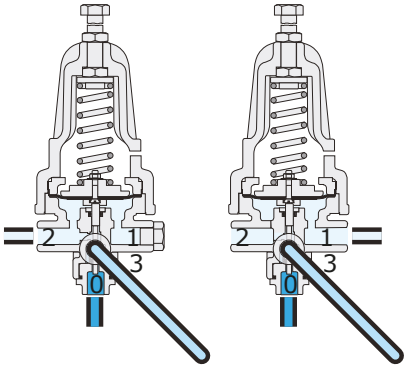
connections:

	pressure reducing	**pressure sustaining**
0	upstream (P1)	downstream (P2)
1	sensing regulated pressure	sensing regulated pressure
2	downstream (P2)	upstream (P1)
3	valve control chamber	valve control chamber

Setting the pilot:
Turn the bolt clock-wise to increase the pressure setting
Turn the bolt counter clock-wise to decrease the pressure setting

PC20 pressure reducing 2W

PC20 PC20R

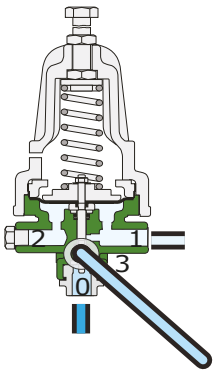


connections:

	PC20	**PC20R (remote sense)**
0	upstream (P1)	upstream (P1)
1	plugged	external sensing
2	downstream (P2)	downstream (P2)
3	valve control chamber	valve control chamber

Setting the pilot:
Turn the bolt clock-wise to increase the pressure setting
Turn the bolt counter clock-wise to decrease the pressure setting

PC25 pressure reducing / pressure sustaining servo pilot 2W/3W
The pilot can be connected for either pressure-reducing or pressure- sustaining functions.

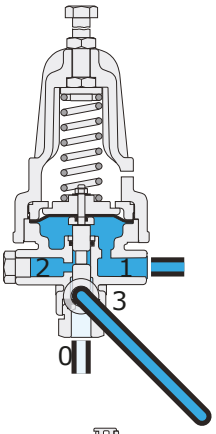


connections.

	pressure reducing	**pressure sustaining**
0	upstream (P1)	downstream (P2)
1,2	sensing regulated pressure downstream (P2)	sensing regulated pressure upstream (P1)
3	valve control chamber	valve control chamber

Setting the pilot:
Turn the bolt clock-wise to increase the pressure setting
Turn the bolt counter clock-wise to decrease the pressure setting

PC30 pressure sustaining / relief 2W
The pilot can be connected for either pressure-reducing or pressure-sustaining function

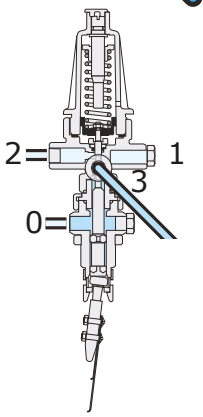


connections:

	pressure sustaining / relief
0	downstream (P2)
1	external sensing / upstream (P1)
2	plugged
3	valve control chamber

Setting the pilot:
Turn the bolt clock-wise to increase the pressure setting
Turn the bolt counter clock-wise to decrease the pressure setting

PC70 flow-control servo pilot 2W
The pilot has a paddle positioned within the flow stream. (The position of the impeller determines if the navaton puts the diaphragm chamber under pressure or drains it.) Should demand rise above setting, dynamic force moves the paddle, which thereby pushes the pilot trim against the spring force. This introduces control water flow into the control chamber, causing the main valve to throttle closed, limiting system flow to pilot setting.



connections:

	flow-regulating
0	upstream (P1)
1	plugged
2	downstream (P2)
3	valve control chamber

Setting the pilot:
Turn the bolt clock-wise to decrease the pressure setting
Turn the bolt counter clock-wise to increase the pressure setting