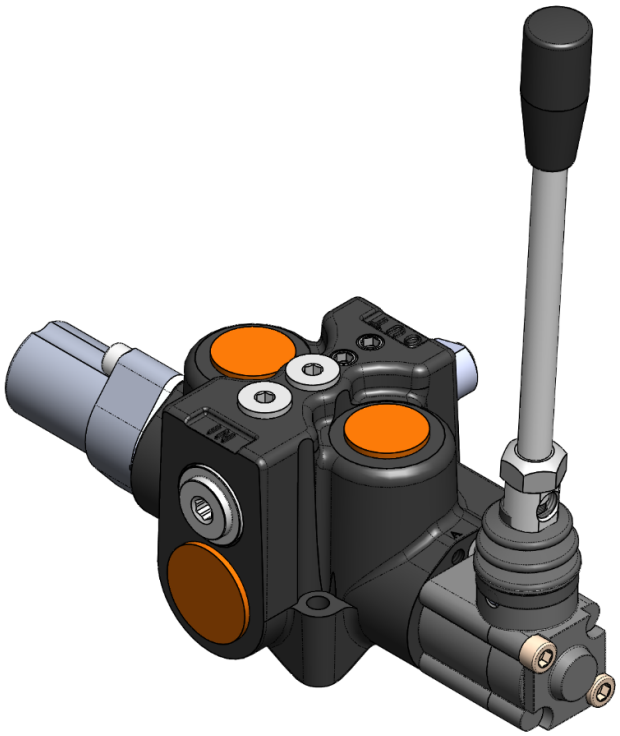
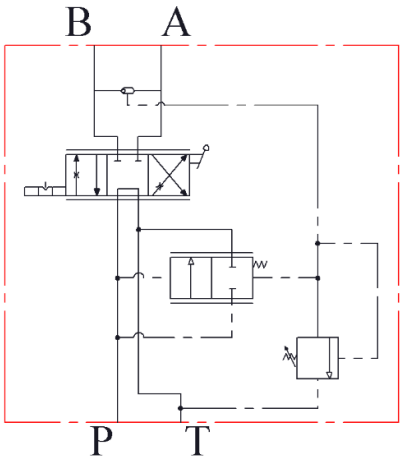
P70LS 4-way Directional Control valve with Pressure Compensated Flow Control





FEATURES:

- Adjustable pilot operated relief valve
- Full range of pressure compensated by-pass type flow control valve built in.
- Reduces the number of fittings and plumbings and potential leaks in hydraulic circuit.
- Fine positive metering in either direction with the manual handle.
- Precision ground cromium plated spool that assures long life.
- Different thread connections

P70LS - General information:

P70LS combines the feature of a four-way directional control valve, a full range pressure compensated by-pass type flow control valve, and an adjustable pilot operated pressure releif valve. Manual handle allows the customer to meter the flow out of either port. Flow to the working port is directly proportional to the movement of the lever. Flow out of each work port is constant regardless of load change, this allows the customer to maintain smooth and constant movement of a cylinder or motor. Standard pressure setting is 180 bar.

Additional information
This catalog shows the product in the most usual configuration. Please contact sales dept. for more detail information or special request.

WARNING!
All specifications of this catalog refers to the standard product at this date. Badestnost is oriented to a continuous improvement and reserves the right to discontinue, modify or revise the specifications, without notice.

Badestnost is not responsible for any damage caused by an incorrect use of the product.

2nd edition Aug 2024

P70LS/ 755/ T18/4/L / F1

Ports		
code	Inlet/outlet	Working ports A/B
755	3/4" NPTF	1/2" NPTF
120	SAE 12	SAE 10
34	G3/4"	G1/2"

Spool type	
T	Tandem center
O	Open center
OM	Open metering
M	Fine metering
TM	Tandem metering

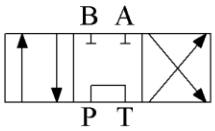
Flow settings	
omit	When using T and O spools
6	0-6 gpm (0-22,7 lpm) OM, M, and TM only
12	0-12 gpm (0-45,4 lpm) OM, M, and TM only
18	0-18 gpm (0-68 lpm) OM, M, and TM only

Handle options (side A)	
G	Enclosed handle (A port is active when handle is pulled)
L	Level handle (A ports is active when handle is pulled)

Spool positioner (side B)	
S	Spring return to neutral
F1	Friction detent

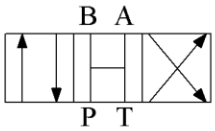
SPOOL SCHEMATICS

Tandem Center (T)



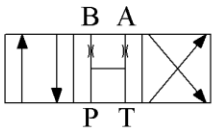
Powers cylinder or motor in both directions(metering capability is very limited). Pump unload to tank when spool is in neutral. Cylinder or motor blocked when spool in neutral.

Tandem Center (O)



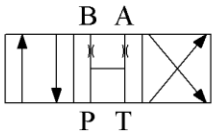
Open center (O) - All of the ports are connected to tank when the spool is in neutral. Allows cylinder to move or motor to rotate when spool is in neutral.

Fine Metering Spool (M)



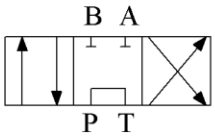
The pressure drop in neutral is hingher then the (OM) and (TM) spools. Requires external locking valves to hold cylinder, because ports A and B are open (orificed) in the neutral position. Extremely fine metering control.

Open Metering Spool (OM)



The neutral pressure drop is much lower then the (M) spool. Extremely fine metering control. Ports A and B are open orificed in the neutral position.

Tandem Metering Spool (TM)



Similiar to (T) spool except much finer metering control. The pressure drop in neutral is lower then the (M) spool. Cylinder or motor blocked in neutral and pump unloads to tank.