Directional spool valves

HAWE HYDRAULIK

Directional spool valves type SKP and SKH

The directional spool valve banks type SKP or SKH serve to control the direction of movement of hydraulic consumers e.g. motors or cylinders. The individual directional spool valve may be either connected in parallel (type SKP) or in series (type SKH) depending on flow pattern. Mixed combinations are also possible.

The valve bank consists of a starting spool valve block with or without pressure limiting valve, the add-on valves and the end plate.

There are connection blocks available enabling direct mounting onto oil immersed hydraulic power packs (type R, RZ, Z), hydraulic power packs (type HC, MP, HK) or for pipe connection.

A wide range of actuations (manual, solenoid, hydraulic and pneumatic) enable these directional spool valves to be used in a wide range of applications.

Nomenclature:	Directional spool valve
Design:	Valve bank connected in parallel (SKP) or in series (SKH) combination with hydraulic power packs
Actuation:	Solenoid Manual • With autom. spring return • With detent Pressure (only or combined with manual actuation) • Hydraulic • Pneumatic
p_{max}:	200 ... 400 bar
Q_{max}:	12 ... 100 l/min

Basic types and general parameters

Basic type and size connected in parallel	connected in series	Flow Q_{max} (l/min)	Oper. pressure p_{max} (bar) for actuation version manual	solenoid	pressure	manual / pressure	Tapped ports
SKP - 0	SKH - 0	12	400	200	400	400	G 1/4 [1] / G 3/8
SKP - 1	SKH - 1	20	400	200	400	400	G 3/8
SKP - 2	SKH - 2	30	400	315	400	400	G 3/8
SKP - 3	SKH - 3	50	400	315	400	400	G 1/2
SKP - 4	SKH - 4	100	400	200	400	400	G 3/4

Permissible reflow pressure 12...100 bar depending on valve type and actuation

[1] port P at the under side with SKH = G 3/8

Valve bank coding

SKP - 2 - 5 MGG - AK

SKH - 1 - 7 PPS - MD2 - 200

- 200 — set pressure of the pressure limiting valve
- MD2 — actuation
- PPS — valve sections
- 7 — connection block
- 1 — size
- SKH — basic type

Starting spool valve / adaptor plates / connection blocks

Basic type connected in parallel	connected in series	Brief description	Flow pattern SKP-.-6..	SKH-.-6..
SKP-.- 6..	SKH-.- 6..	Starting spool valve block with manually or tool adjustable pressure limiting valve