

# BENCOR (Pty) Ltd.

Directional spool valves



## Directional spool valves type SG and SP

The directional spool valves type SG and SP are available either for pipe connection (type SG) or manifold mounting (type SP). An optional pressure limiting valve can be ordered only for type SG size 0 to 3. They are widely used to control the direction of movement of hydraulic consumers e.g. motors or cylinders.

The sturdy design and a wide range of different actuations enable utilization of these valves in many applications such as mobile hydraulics or on ships.



<b>Nomenclature:</b>	Directional spool valve
<b>Design:</b>	Individual valve for pipe connection or manifold mounting
<b>Actuation:</b>	<ul style="list-style-type: none"> <li>Solenoid</li> <li>Manual</li> <li>• With autom. spring return</li> <li>• With detent</li> <li>Mechanical</li> <li>• Roller head</li> <li>• Pin head</li> <li>Pressure (only or combined with manual actuation)</li> <li>• Hydraulic</li> <li>• Pneumatic</li> </ul>
<b>P<sub>max</sub>:</b>	200 ... 400 bar
<b>Q<sub>max</sub>:</b>	12 ... 100 l/min

### Basic types and general parameters

Basic type and size	Individual valve for pipe connection	Manifold mounting valve	Flow Q <sub>max</sub> (l/min)	Oper. pressure p <sub>max</sub> (bar) with actuation				Tapped ports <sup>1)</sup>
				solenoid	manual	mechanical	pressure	
SG 0			12	200	400	400	400	G 1/4 / G 3/8
SG 1		SP 1	20	200	400	400	400	G 3/8
SG 2			30	315	400	400	400	G 3/8
SG 3		SP 3	50	315	400	400	400	G 1/2
SG 5			100	200	400	315	400	G 1

<sup>1)</sup> with type SG

### Additional versions

- Integrated pressure limiting valve with type SG
- Directional spool valve with enlarged ports and control grooves for delayed de-pressurization (preventing pressure surges)