

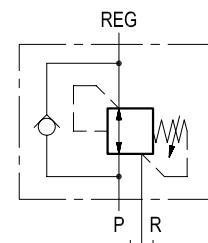
AUXILIARY VALVES - Pressure reducing valves

Bosch Rexroth Oil Control manufactures a variety of parts-in-body valve modules for many different functions of hydraulic systems in both mobile and industrial equipment. The following data sheet show only a fraction of this miscellaneous product range, and our Service Network is available to show solutions and to give suggestions if the customer's application requires other than here indicated.

7a) PRESSURE REDUCING VALVES

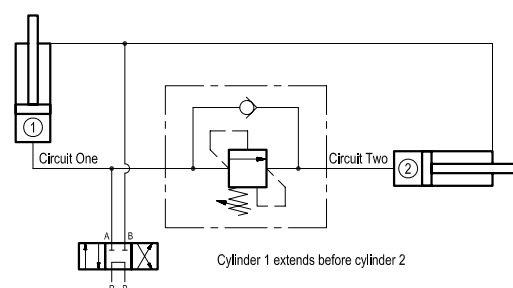
They regulate the pressure in a secondary circuit. When the regulated, or "reduced", pressure is attained, the internal spool backs-up and blocks the flow inlet. Often, these valves incorporate also a relief feature which exhausts to tank the secondary circuit at a variable level above the "reduced" pressure setting.

For correct operation, the valve is drained to tank; back pressure in the tank line is additive in all functions. A few of these valves have a check valve for reverse flow, back into the main circuit directly.



7b) SEQUENCE VALVES

They are pressure controlled normally closed two way valves, designed to assure that one circuit is pressurized before a second one. They control the sequence of two or more cylinders or motors, while maintaining pressure on the actuator which has moved first. When pressure in the first circuit has attained the selected setting, the sequence valve opens and the second circuit is supplied. Sequence valves are similar to relief valves but, generally, they have a balanced piston (either air vented, or with drain), and they are insensitive to downstream pressure. They also incorporate a check valve for free reverse flow; reverse motion proceeds without specific control of the sequence, determined only by the load conditions on each actuator.



7c) SHUTTLE VALVES

They allow flow to C from whichever of the V1 or V2 lines is at higher pressure.

