

Check and metering valve flangeable

A-VBCN-15-DX-RE-FC

08.39.64 - X - Y - Z

RE 18309-15

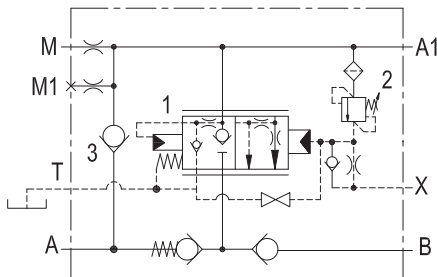
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Description

Unrestricted upstream flow (A – A1) to the cylinder is possible through the check valve (1), while downstream flow (A1 – A) is locked by the leak free main spool (2) which is held closed by the spring and by the load induced pressure. With pilot pressure at X (joystick), the spool (2) is first vented to tank then it is remotely controlled and it slides to provide metering for the downstream flow; after the initial venting, the pilot pressure required to move the spool is load independent. The downstream (A1 – A) metering curve and the cracking pressure are factory designed and set for the specific type of machine and cannot be adjusted. The valve includes a small relief cartridge (3) which senses the A1 pressure (load induced) and opens under overload or shock conditions in order to pilot fully open the main spool (2): this allows any excess of pressure at A1 to be relieved downstream through A. For better safety and compact assembly, the A1 port is gasket mounted directly on the actuator.



Technical data

Max. operating pressure	420 bar (6000 psi)
Max. flow	200 /min. (53 gpm)
Weight	12.6 kg (27.8 lbs)
Flange seal kit ¹⁾	E00000000000002 (R930004532)
Manifold material	Zinc plated steel
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
MTTFd	150 years
The Tank vented port must be connected to a "low pressure tank line" (to the joystick tank line, or to tank directly).	
The restricted "M" port must be connected to a "pressure equalizing line" in case of 2 valves fitted to 2 twin cylinders, and may be used as "outlet to tank" for emergency boom lowering in case of pilot pressure failure.	
This valve with specific adjustments, it can become part of load holding and load lowering systems designed to comply with ISO Standard 8643 (hose burst protection).	
Other technical data	see data sheet 18350-50

Note: for applications outside these parameters, please consult us.

¹⁾ Seals for 10 valves.

Characteristic curve

