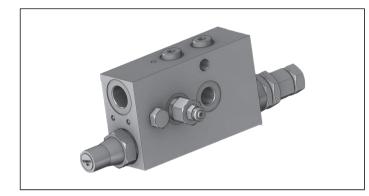
Rexroth Bosch Group

Check and metering valve

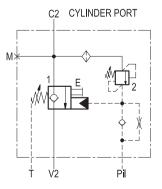
A-VBC-78-DX



Description

Upstream flow (V2 - C2) to the cylinder is free through a check valve, and reverse flow (C2 - V2) is locked/metered by a leak free spool (1) which provides fine metering in the initial opening stroke. The spool, normally held closed by an adjustable spring force, is remotely controlled by joystick pilot pressure; the pilot pressure required to move the spool is load independent because the spring is vented to Tank. The valve includes a small relief cartridge (2) which senses C2 pressure and opens under overload or shock conditions in order to pilot wide open the metering spool and to allow cylinder pressure to be relieved downstream through the main hose (V2) and through the main control valve.

Note: port identified with M are not protected with calibrated orifice but in direct connection with pressure channels.



08.49.29 - X - Y - Z

Edition: 03.2016 Replaces: 07.2012

RE 18309-01

Technical data

420 bar (6000 psi)	
40 l/min. (11 gpm)	
1.88 kg (4.1 lbs)	
Zinc plated steel	
Mineral oil (HL, HLP) according DIN 51524	
-30 °C to 100 (-22 to 212 °F)	
10 to 500 mm ² /s (cSt)	
Class 19/17/14 according to ISO 4406	

This valve is designed to be pipe mounted on boom cylinders of hydraulic excavators, and, with specific adjustments, it can become part of load holding and load lowering systems designed to comply with ISO Standard 8643 (hose burst protection).

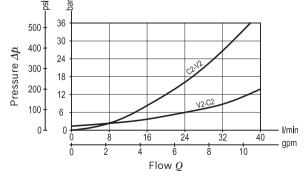
Note: the Tank vented port must be connected to a "low pressure tank line" (to the joystick tank line, or to tank directly).

The Factory sealed "E" screw can be used for Emergency spool opening and boom lowering, in case of pilot pressure failure; once the emergency boom lowering is completed, the "E" screw must be restored to its original position and locked.

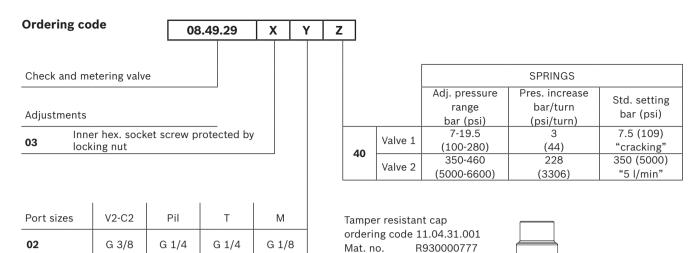
Other technical data

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

see data sheet 18350-50



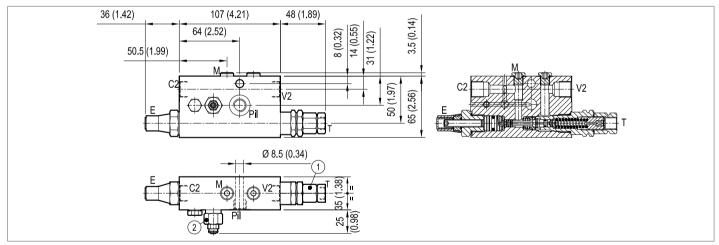
Characteristic curve



Туре	Material number	Туре	Material number
08492903024000A	R930008022		

for Valve 2

Dimensions



Bosch Rexroth Oil Control S.p.A.

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