

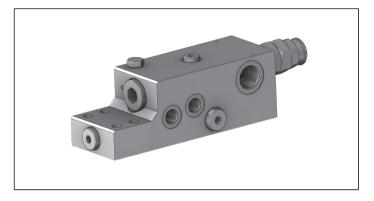
Check and metering valve flangeable

RE 18309-07

Edition: 03.2016 Replaces: 07.2012

08.47.83 - X - Y - Z

A-VBC-90-FC



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. For better safety and compact assembly, the C2 port is gasket mounted directly on the actuator.

C2 E Fil. T V2 V2 V2 V2

Technical data

Manifold material Fluid Mineral oil (HL, HLP) according DIN 51524 Fluid temperature range -30 °C to 100 (-22 to 212 °F) Viscosity range 10 to 500 mm²/s (cSt)			
Weight 4 kg (8.8 lbs) Flange seal kit 1) E0000000000001 (R930004531 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 mm²/s (cSt)	Max. operating pressure	420 bar (6000 psi)	
Flange seal kit 1) Manifold material Fluid Fluid Mineral oil (HL, HLP) according DIN 51524 Fluid temperature range Viscosity range E000000000001 (R930004531	Max. flow	120 l/min. (32 gpm)	
Manifold material Fluid Mineral oil (HL, HLP) according DIN 51524 Fluid temperature range -30 °C to 100 (-22 to 212 °F) Viscosity range 10 to 500 mm²/s (cSt)	Weight	4 kg (8.8 lbs)	
Fluid Mineral oil (HL, HLP) according DIN 51524 Fluid temperature range -30 °C to 100 (-22 to 212 °F) Viscosity range 10 to 500 mm²/s (cSt)	Flange seal kit ¹⁾	E00000000000001 (R930004531)	
DIN 51524 Fluid temperature range -30 °C to 100 (-22 to 212 °F) Viscosity range 10 to 500 mm²/s (cSt)	Manifold material	Zinc plated steel	
Viscosity range 10 to 500 mm ² /s (cSt)	Fluid	. , ,	
	Fluid temperature range	-30 °C to 100 (-22 to 212 °F)	
D	Viscosity range	10 to 500 mm ² /s (cSt)	
contamination Class 19/17/14 according to ISO 4406	Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406	

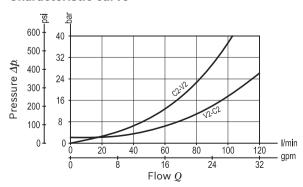
This valve is designed to be pipe mounted on boom cylinders of hydraulic excavators, and, with specific adjustments, it can become part of load holding and load lowering systems designed to comply with ISO Standard 8643 (hose burst protection).

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

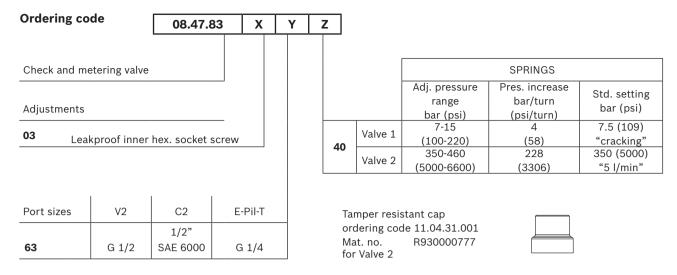
The restricted "E" port must be connected to a "pressure equalizing line" in case of 2 valves fitted to 2 twin cylinders, and may be used as "outlet to tank" for emergency boom lowering in case of pilot pressure failure.

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

Characteristic curve



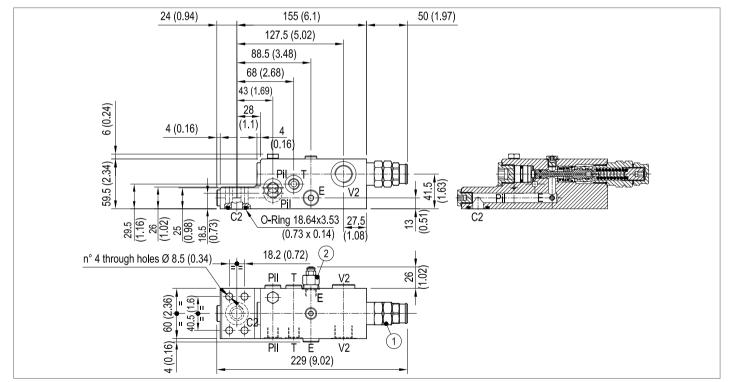
¹⁾ Seals for 10 valves.



Preferred types

Туре	Material number	Туре	Material number
08478303634000B	R930043634		

Dimensions



Bosch Rexroth Oil Control S.p.A.

Via Leonardo da Vinci 5

P.O. Box no. 5

41015 Nonantola – Modena, Italy

Tel. +39 059 887 611 Fax +39 059 547 848

compact-hydraulics-pib@boschrexroth.com www.boschrexroth.com/compacthydraulics

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.