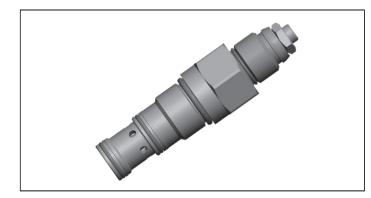


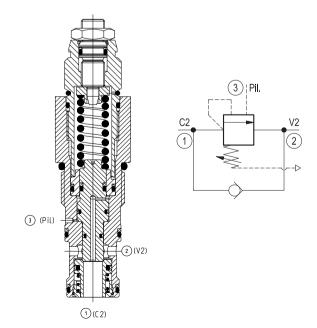
# Counterbalance, vented guided poppet type Common cavity, Size 12

## VBST-12A



### Description

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting, the direct-acting, relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is vented to atmosphere allowing operation of all functions independent of back-pressure at 2. Valve design prevents spring going solid and complete unscrewing during adjusting.



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#### RE 18320-13

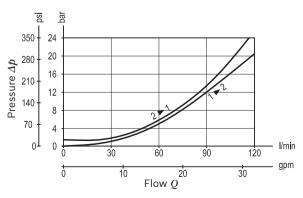
Edition: 05.2022 Replaces: 03.2016

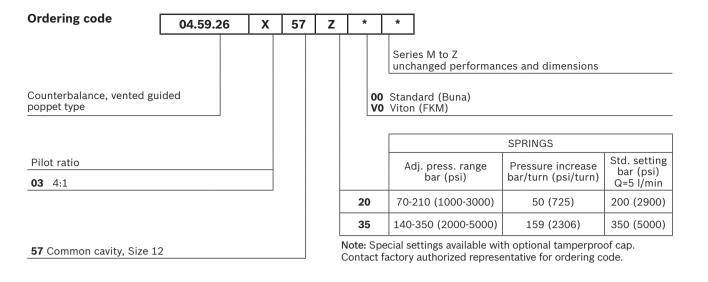
Technical data		
	350 bar (5000 psi)	
	120 l/min (32 gpm)	
Max. internal leakage <sup>1)</sup>	15 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	81 - 95 Nm (60 - 70 ft-lbs)	
Weight	0.39 kg (0.86 lbs)	
MTTFD	150 years see RE 18350-51	
Cavity	CA-12A-3C (see data sheet 18325-70)	
,	according to ISO 4413 with sealed adjustment screw to prevent oil leakage during adjustment	
	500h according to DIN EN ISO 9227:2017-07	
	Please refer to section "Hydraulic integrated circuit" or consult factory	
Seal kit <sup>2)</sup>	Code: RG12A9010520100	
	material no: R901111379	
	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm²/s (cSt)	
	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14	
Installation position	No restrictions	
Other Technical Data	See data sheet 18350-50	

Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves

#### **Characteristic curve**

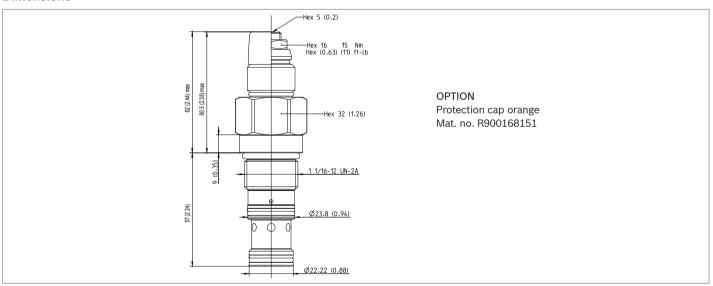




#### **Preferred types**

Туре	Material number	Туре	Material number
04592603572000M	R930081332		
04592603573500M	R930081333		

#### 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-cv@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.