

Counterbalance, relief compensated poppet type differential area Common cavity, Size 12

VBSP-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, differential area 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 drained to 2. The valve applies a balanced piston design allowing relief operation at the valve setting independent of back-pressure at 2. However, the piloted opening of the valve remains subject to additive pressure at port 2. 04.54.08 - X - 57 - Z

RE 18320-08

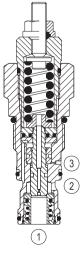
Edition: 02.2019 Replaces: 03.2016

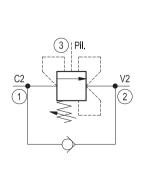
350 bar (5000 psi)
120 l/min (32 gpm)
15 drops/min.
-30 to 100 °C (-22 to 212 °F)
81 - 95 Nm (60 - 70 ft-lbs)
0.39 kg (0.86 lbs)
CA-12A-3C (see data sheet 18325-70)
Please refer to section "Hydraulic
integrated circuit" or consult factory
Code: RG12A9010520100
material no: R901111379
Mineral-based or synthetics with
lubricating properties
at viscosities of 10 to 500 mm ² /s (cSt)
Nominal value max. 10µm (NAS 8) /
ISO 4406 19/17/14
No restrictions
See data sheet 18350-50

Pressure setting: at least 1.3 times the load induced pressure.

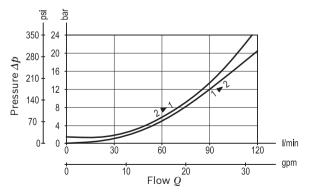
1) At 70% of pressure setting

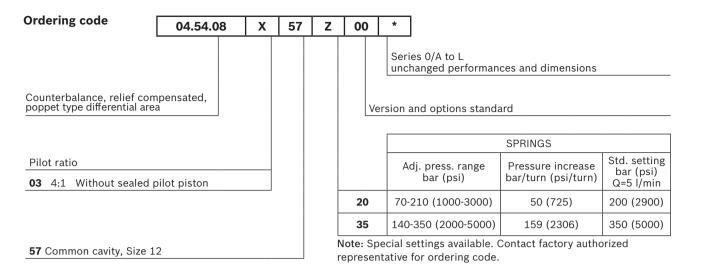
2) Only external seals for 10 valves





Characteristic curve

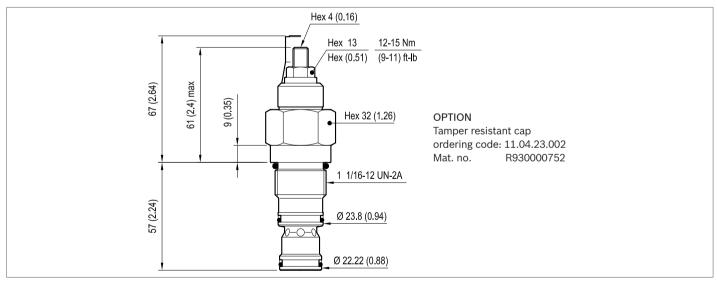




Preferred types

Туре	Material number	Туре	Material number
045408035720000	R901096063		
045408035735000	R901096064		

Dimensions



Bosch Rexroth Oil Control S.p.A.

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