

Counterbalance, standard poppet type

differential area

Common cavity, Size 10

VBSN-10A

04.52.31 - X - 85 - Z

RE 18320-02

Edition: 01.2010

Replaces: 01.2006



Description

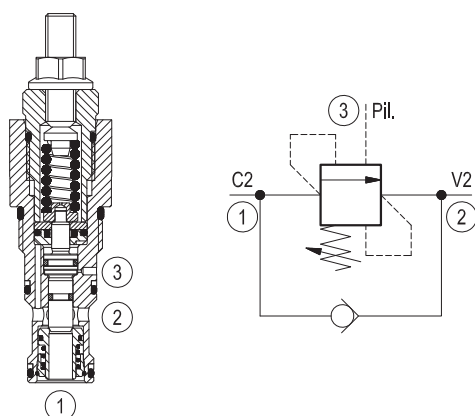
When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting, the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot 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, and any back-pressure at 2 is additive to the pressure setting in all functions.

Technical data

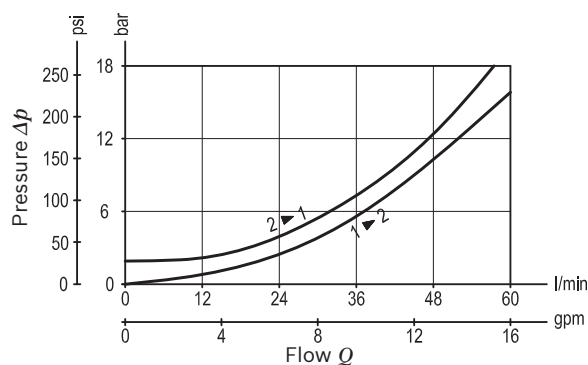
Max. operating pressure	350 bar (5000 psi)
Max. flow	60 l/min (16 gpm)
Max. internal leakage ¹⁾	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight	0.2 kg (0.44 lbs)
Cavity	CA-10A-3C (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit ²⁾	Code: RG10A9010520100 material no: R901111367
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

1) At 70% of pressure setting

2) Only external seals for 10 valves



Characteristic curve



Ordering code

04.52.31	X	85	Z	00	*
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Series 0/A to L
unchanged performances and dimensions

Version and options standard

Pilot ratio

03	3:1
10	8:1

85 Common cavity, Size 10

SPRINGS				
		Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) Q=5 l/min
for X= 03	20	70-210 (1000-3000)	135 (1958)	200 (2900)
	35	140-350 (2000-5000)	196 (2842)	350 (5000)
for X= 10	20	70-210 (1000-3000)	52 (754)	200 (2900)
	35	140-350 (2000-5000)	89 (1291)	350 (5000)

Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Type	Material number
04523103852000A	R901096029
04523103853500A	R901096037
04523110852000A	R901096038
04523110853500A	R901096041

Type	Material number

Dimensions

