

RE 18320-05/01.10

1/2

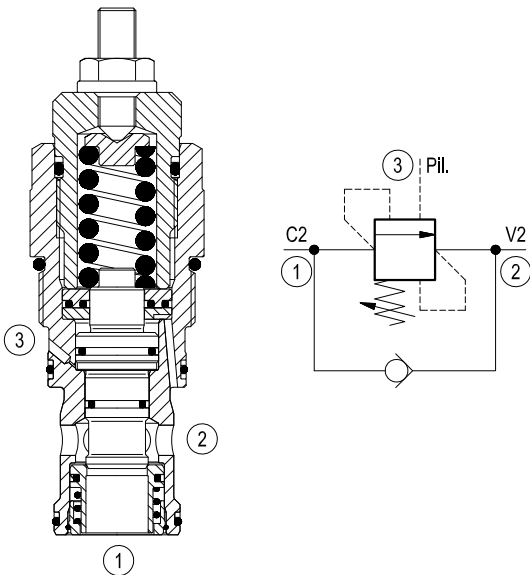
Replaces: RE 00162-02/01.06

# Counterbalance, standard poppet type differential area

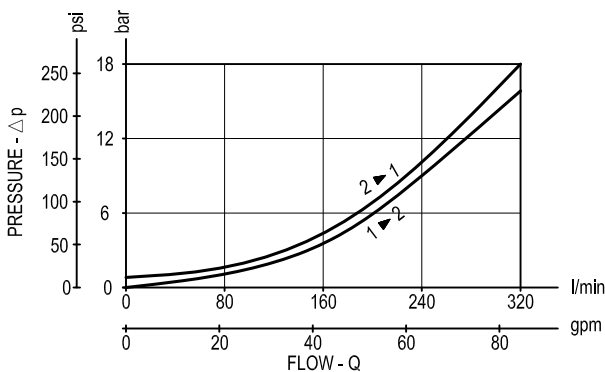
## Common cavity, Size 20

VBSN-20A

04.52.25 - X - 58 - Z



### Performance



### 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

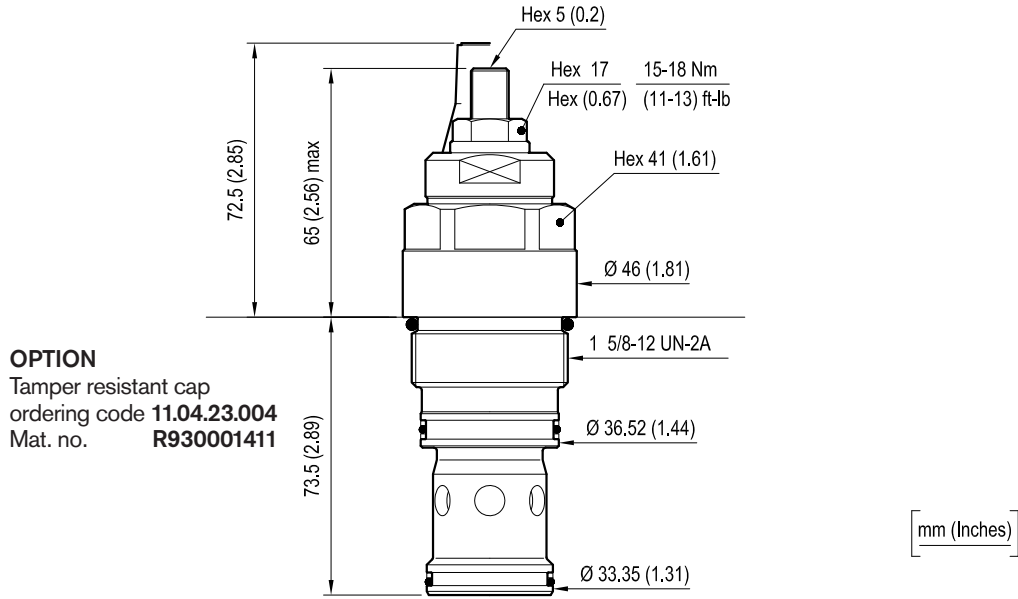
Max. operating pressure	bar (psi)	350 (5000)
Max. flow	l/min. (gpm)	320 (85)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)
Installation torque	Nm (ft-lbs)	128-149 (95-110)
Weight	kg (lbs)	1.12 (2.5)
Cavity		CA-20A-3C see data sheet RE 18325-70
Line bodies		See data sheet RE 18325-85
Seal kit (**)	code material no.	RG20A9010530100 R90111397
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE 18350-50

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

(\*) At 70% of pressure setting

(\*\*) Only external seals for 10 valves

**Dimensions**



**Ordering code**

<b>04.52.25</b>	<b>X</b>	<b>58</b>	<b>Z</b>	<b>00</b>	<b>*</b>
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Counterbalance, standard poppet type differential area

Pilot ratio  
 = **03** 4:1  
 = **10** 8:1

Common cavity, Size 20

Series 0/A to L  
 unchanged performances and dimensions

**Version and options standard**

		<b>SPRINGS</b>		
		Adj. press. range bar (psi)	Pressure increase bar/turn (psi/turn)	Std. setting bar (psi) Q=5 l/min
for X=03	= <b>20</b>	70-210 (1000-3000)	70 (1015)	200 (2900)
	= <b>35</b>	140-350 (2000-5000)	108 (1566)	350 (5000)
for X=10	= <b>20</b>	70-210 (1000-3000)	70 (1015)	200 (2900)
	= <b>40</b>	140-420 (2000-6000)	135 (1958)	350 (5000)

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

Type	Material number
045225035820000	R901096052
045225035835000	R901096053
045225105820000	R930000852
045225105840000	R901096057

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