Rexroth
Bosch Group

Pilot operated check,
pilot to open
Common cavity, Size 12

RE 18319-32
Edition: 01.2019
Replaces: 03.2016

VSON-12A   04.33.07 - X - 57 - Z

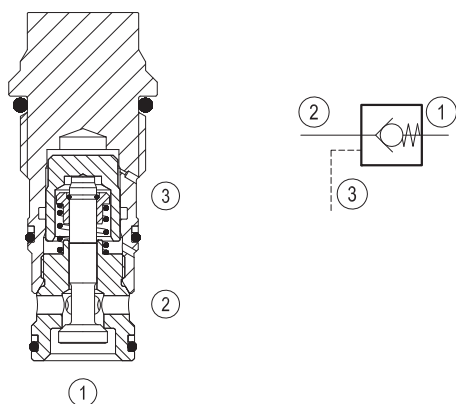| Technical data	
Max. operating pressure	350 bar (5000 psi)
Max. flow	120 l/min. (32 gpm)
Pilot ratio	3.2:1
Max. internal leakage	5 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	81 - 95 Nm (60 - 70 ft-lbs)
Weight	0.25 kg (0.55 lbs)
Cavity	CA-12A-3C (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit[1]	Code: RG12A9010520100
	material no: R901111379
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm²/s (cSt)
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 20/18/15
Installation position	No restrictions
Other Technical Data	See data sheet 18350-50

1) Only external seals for 10 valves

Description

When pressure at 2 rises above the spring bias pressure, the poppet is pushed from its seat and flow is allowed from 2 to 1. The valve is normally closed (checked) from 1 to 2. When sufficient pilot pressure is present at port 3, the pilot piston acts to push the poppet from its seat and flow is allowed from 1 to 2. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.
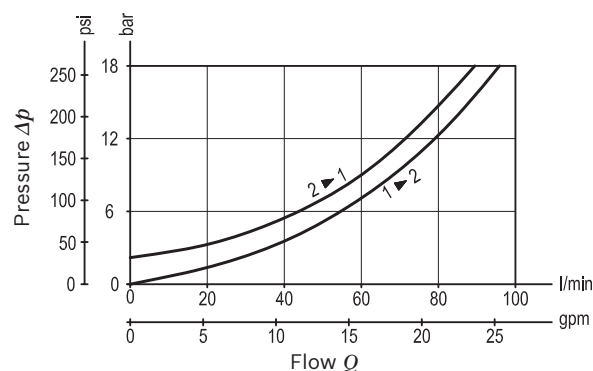

Characteristic curve

Ordering code

04.33.07	X	57	Z	00	*

Pilot operated check, pilot to open

Series 0/A to L
unchanged performances and dimensions

Version and options standard

O-Ring on pilot piston

00 No O-Ring

10 With O-Ring

57 Common cavity, Size 12

	SPRINGS
	Cracking pressure bar (psi)
00	2 (30)

Preferred types

Type	Material number	Type	Material number
043307005700000	R930006106		
043307105700000	R901106634		

Dimensions

Hex 24 (0.94)

18 (0.71)

1 1/16-12 UN-2A

57 (2.24)

Ø 23.8 (0.94)

Ø 22.22 (0.88)