

Pilot operated check,  
 pilot to open  
 Common cavity, Size 10

VSOA-10A

04.33.10 - X - 85 - Z

**RE 18319-35**

Edition: 03.2016

Replaces: 09.2009

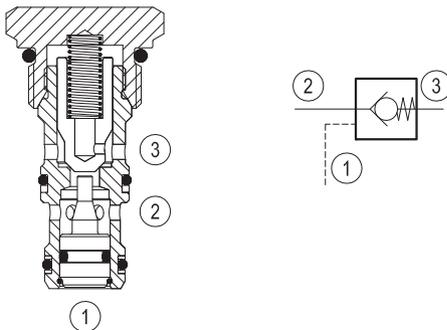
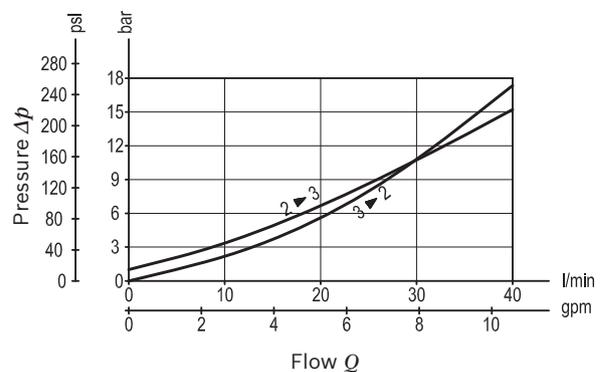
**Technical data**

Max. operating pressure	350 bar (5000 psi)
Max. flow	40 l/min. (11 gpm)
Pilot ratio	3:1
Max. internal leakage	5 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight	0.11 kg (0.24 lbs)
Cavity	CA-10A-3N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
Seal kit <sup>1)</sup>	Code: RG10A3010530100 material no: R930000990
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm <sup>2</sup> /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) 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 3. The valve is normally closed (checked) from 3 to 2. When sufficient pilot pressure is present at port 1, the pilot piston acts to push the poppet from its seat and flow is allowed from 3 to 2. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

**Characteristic curve**

**Ordering code**

<b>04.33.10</b>	<b>X</b>	<b>85</b>	<b>Z</b>	<b>00</b>	<b>*</b>
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Series 0/A to L  
unchanged performances and dimensions

Pilot operated check, pilot to open

Version and options standard

O-Ring on pilot piston

**00** No O-Ring

**10** With O-Ring (only for Z=03 and Z=14)

**85** Common cavity, Size 10

SPRINGS	
	Cracking pressure bar (psi)
<b>00</b>	1 (15)
<b>03</b>	3.5 (51)
<b>14</b>	14 (203)

**Preferred types**

Type	Material number	Type	Material number
043310008500000	R901117416	043310108500000	R901117418
043310008503000	R901117420	043310108503000	R901117421
043310008514000	R930000988	043310108514000	R930000989

**Dimensions**

