

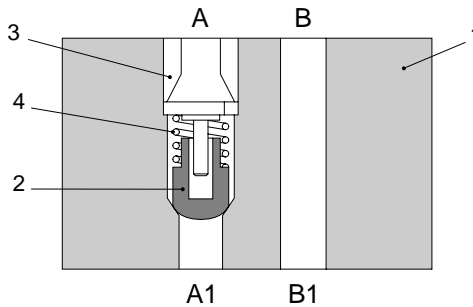
Size 6 & 10 up to 315 bar up to 40 & 100 L/min	Check Valve (Direct Acting) Sandwich Plate Valve Type S-C6 & S-C10, Series 10	Data Sheet S-1001/10.98 GB
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Features

- ◇ Direct operated check valve.
- ◇ Used in vertical stacking assemblies.
- ◇ Seven different isolating functions.
- ◇ Leak free closure ports.
- ◇ Porting pattern to DIN 24 340 form A, ISO 4401 and CETOP-RP 121H.



Type S-C10



Functional Description

Type S-C6/S-C10 Series 10 Check Valves are directly controlled valves of sandwich plate design. The valves provide leak-free closure in one direction and free flow in the opposite direction.

The valves basically consist of the housing (1), the poppet (2), spring plate (3) and integrated spring (4).

When there is no flow through the valve the integrated spring (4) holds the poppet (2) in the closed position. Flow acts against the poppet (2) opening the valve, the stroke of which is limited by the spring plate (3). When the flow stops, the integrated spring (4) returns the poppet (2) to the closed position.



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Ordering Code – Check Valve (Direct Acting)

S — C 6 — 10 — T 05 — V

Sandwich Plate Design

Check Valve (Direct Acting)

C Leak free closure in one port
 2C Leak free closure in two ports

Size
 6, 10

Series Number
 10

Suitable Oil

No Code: Mineral Oil
 V: Phosphate Ester
 W: Fatty Acid Ester,
 Water Glycol

Cracking Pressure
 05 = 0.5 bar

Leak Free Closure Port

	Code	Port	Free Flow Direction
C	T	Port T	T→T1
	P	Port P	P1→P
	A	Port A	A1→A
	B	Port B	B1→B
	C	Port A	A→A1
2C	E	Port A	A→A1
		Port B	B→B1



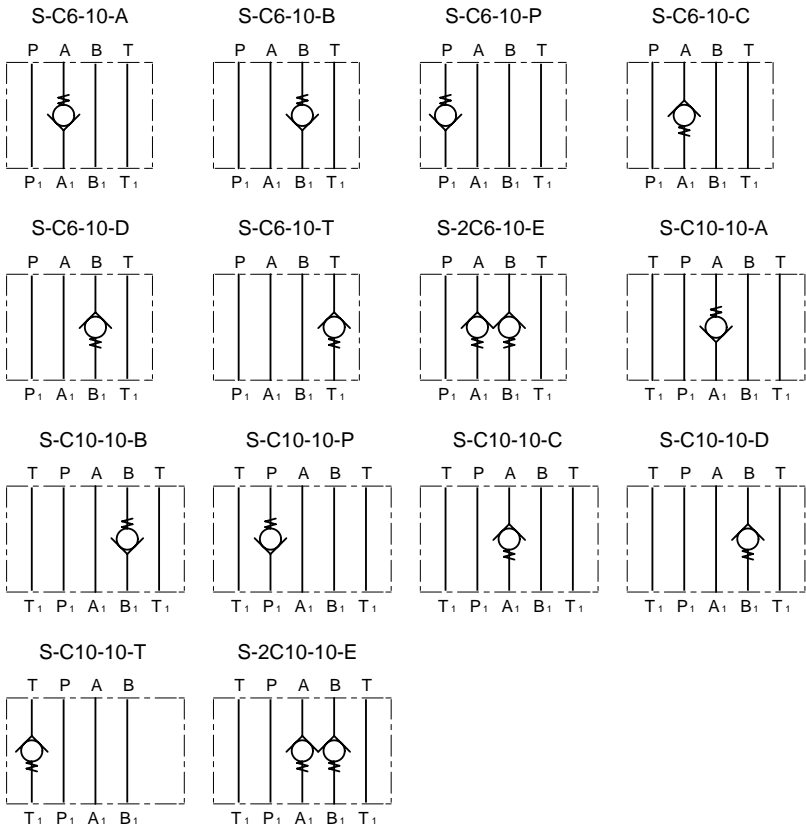
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Symbols

SYMBOLS



(NOTE) P₁, A₁, B₁, AND T₁ SHOW PORTS ON THE SUBPLATE SIDE AND P, A, B AND T SHOW ONES ON THE DIRECTIONAL CONTROL VALVE



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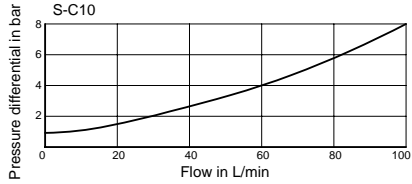
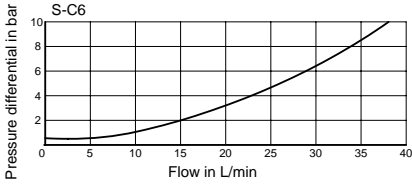
Technical Data

For applications outside the following parameters, please consult Kawasaki Precision Machinery (UK) Ltd.

Maximum Operating Pressure	315 bar
Pressure Fluid	Mineral oil, phosphate ester, fatty acid ester and water glycol. Phosphate ester is only suitable for use with FPM seals.
Pressure Fluid Temperature Range	-20°C to +70°C
Viscosity Range	2.8 to 380cSt
Maximum Flow	40 L/min – Type S-C6 100 L/min – Type S-C10
Degree of Contamination	Maximum permissible degree of contamination of the fluid is to NAS 1638 Class 9. Kawasaki recommend that a filter with a minimum retention rate of $\beta_{10} \geq 75$ is used.
Cracking Pressure:	0.5 bar
Weight	0.9 kg - S-C6 2.4 kg - S-C10

Characteristic Curves

Measured at $\nu = 36\text{cSt}$ and $t = 50^\circ\text{C}$

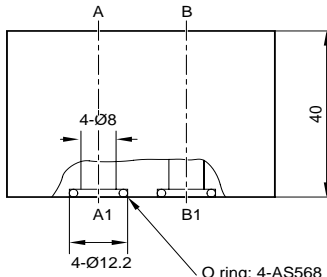
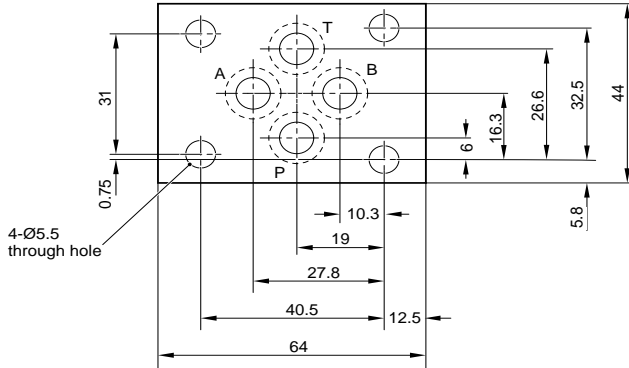


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Unit Dimensions - Type S-C6 (dimensions in mm)



O ring: 4-AS568 No. 012
(for ports A1, B1, P1, T1)

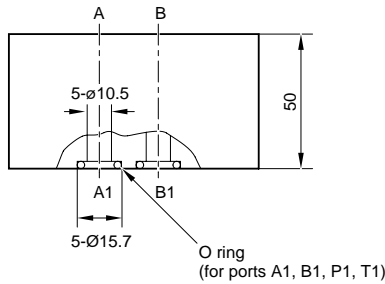
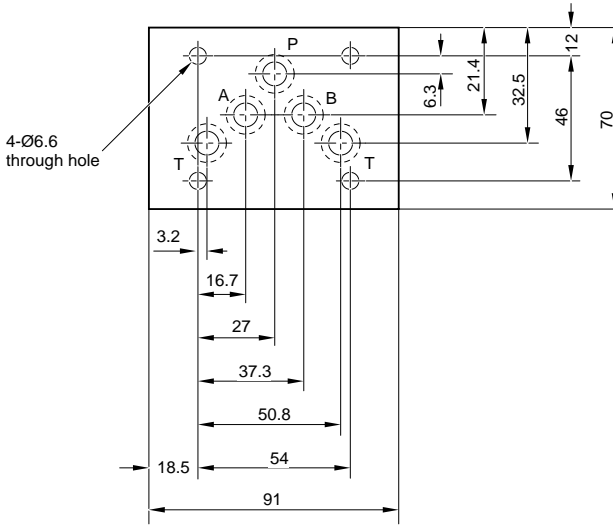
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Unit Dimensions - Type S-C10 (dimensions in mm)



(NOTE) FOR TYPE S-C10 -* - T,
THERE IS NO PORT T PASS ON THE PORT B SIDE

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