

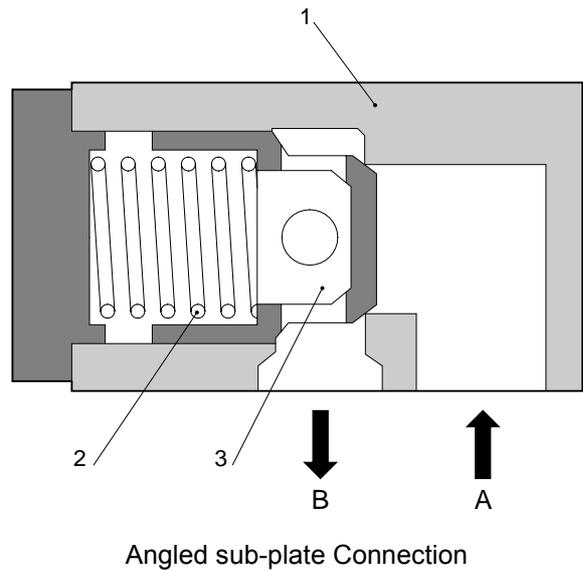
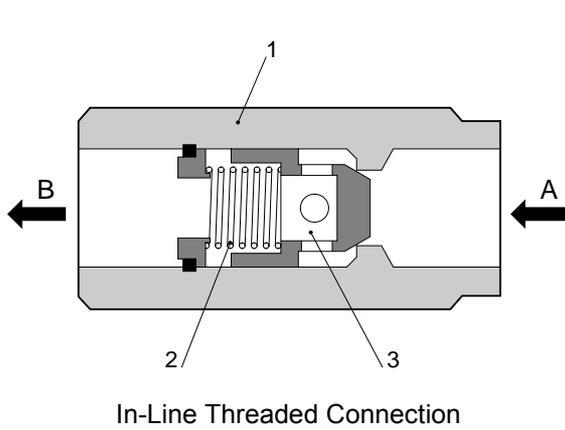
Size 6 to 30 up to 315 bar up to 400 L/min	Check Valve Direct Acting Type C, Series 10	Data Sheet C-1001/10.98 GB
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Features

- ◇ In-line threaded connection or angled sub-plate connection.
- ◇ High durability.
- ◇ Various options.
- ◇ Leak free enclosure in one direction.



Type C (In-Line Threaded Connection)



Functional Description

Type C Series 10 Check Valves are direct acting valves that allow free flow in one direction and block any reverse direction flow.

The valves consist of the housing (1), one spring (2), the poppet (3), and input and output ports.

When no fluid flows the spring (2) holds the poppet (3) in the closed position.

Fluid pressure compresses the spring (2) and opens the poppet (3) allowing the flow from port A to B. The spring force determines the pressure that the valve will open.

Fluid attempting to flow in the opposite direction will close the valve stopping the flow.

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Ordering Code

C 6 G 10 / 05 V

Check Valve

Size

6, 8, 10, 15, 20, 25, 30
(Sub-plate mounting size
10, 20 and 30 only)

Suitable Oil

(Ordering code for hydraulic fluid for
gasket mounting type)

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

**Type of Connection/Sub-Plate
Mounting**

G: Threaded Connection (BSP)
P: Sub-plate mounting

Cracking Pressure

00: Without spring
01: 0.1 bar
05: 0.5 bar
15: 1.5 bar
30: 3.0 bar
40: 4.0 bar

Series Number
10

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 380 cSt

Maximum Flow See characteristic [curve](#)

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.

Weight	Size 6	Size 8	Size 10	Size 15	Size 20	Size 25	Size 30
Threaded connection	0.1 kg	0.2 kg	0.3 kg	0.5 kg	1.0 kg	2.0 kg	2.5 kg
Sub-plate mounting	-	-	1.4 kg	-	4 kg	-	12 kg



Kawasaki
Hydraulic Products

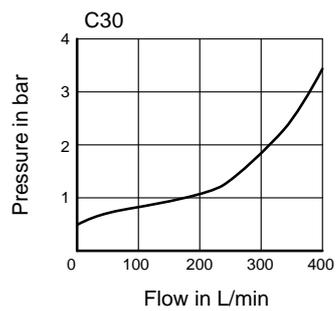
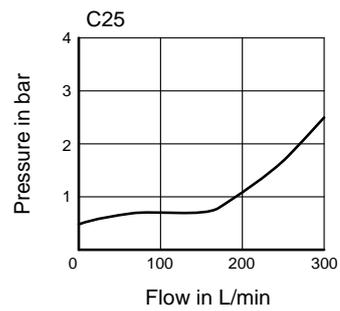
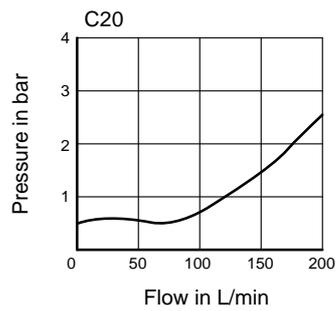
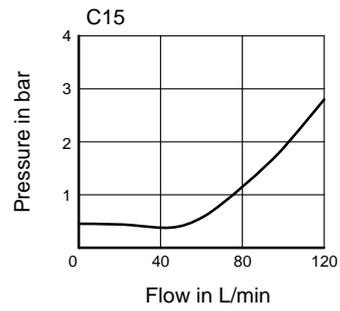
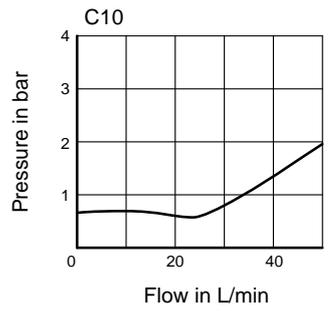
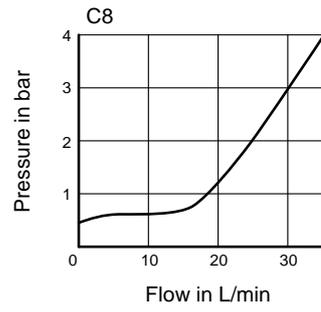
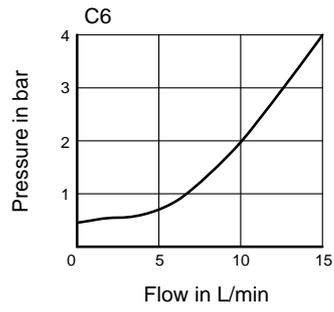
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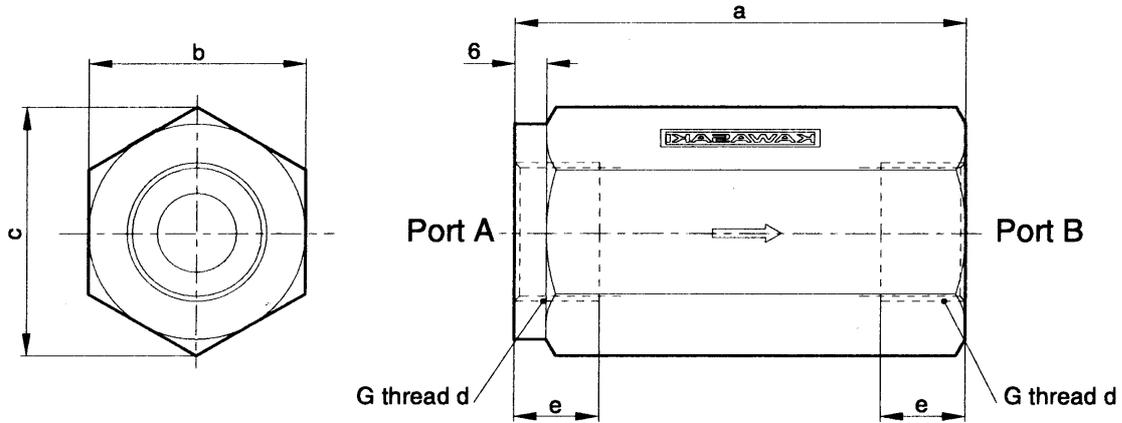
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Characteristic Curves

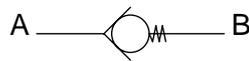
Measured at $\nu = 36\text{cSt}$ and $t = 50^\circ\text{C}$



Unit Dimensions (dimensions in mm)
In-Line Threaded



Valve Type	Weight (kg)	Thread d	a	b	c	e
C6G-10-...	0.2	1/4	58	24	27.7	12
C8G-10-...	0.3	3/8	58	32	37	12
C10G-10-...	0.5	1/2	72	36	41.6	14
C15G-10-...	0.7	3/4	85	41	47.3	16
C20G-10-...	1.2	1	98	50	57.7	18
C25G-10-...	2.2	1 1/4	120	63	72.7	23
C30G-10-...	2.8	1 1/2	132	63	72.7	23

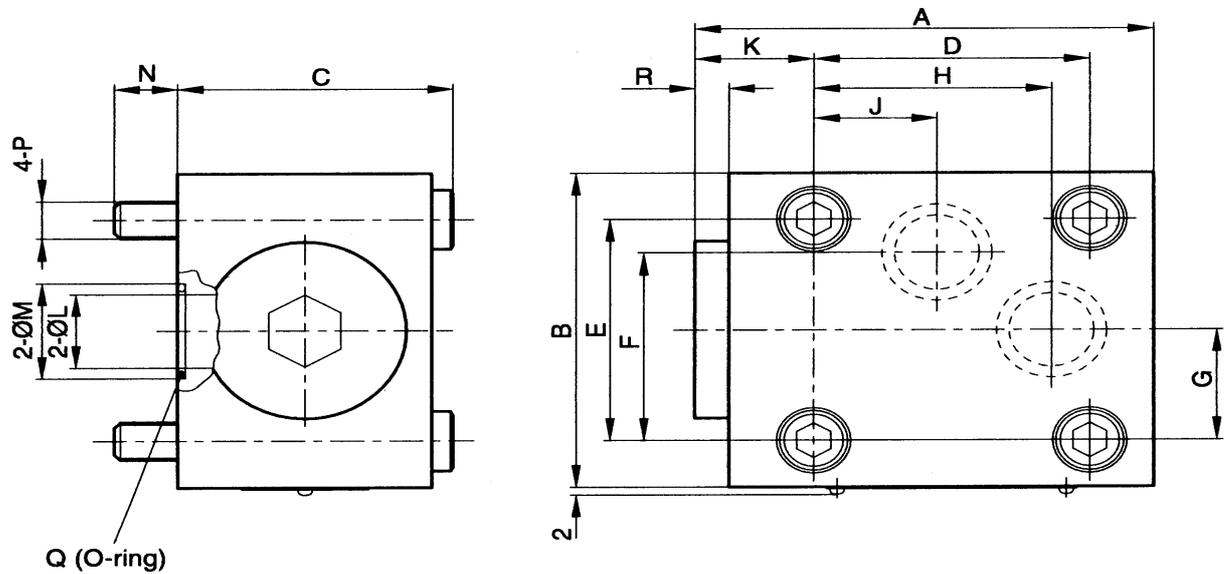


Symbol



Unit Dimensions (dimensions in mm)

Angled sub-plate



	Size 10	Size 20	Size 30
A	75	108	145
B	60	85	130
C	46	65	83
D	40	65	95
E	40	60	100
F	32	51	83
G	20	30	50
H	36	56	85
J	18	29	45
K	20	28	30
L	10	20	30
M	16	26	40
N	12	15	24
P	M8	M10	M16
Q (O-Ring)	2-JIS B2401 P12 Hs90	2-JIS B2401 P22 Hs90	2-JIS B2401 G35 Hs90
R	5	8	5
Tightening torque Nm (kgf-cm)	23.6~27.4 (240~280)	44.1~49.0 (450~500)	186.2~205.8 (1900~2100)

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