

KOGANEI

VALVES GENERAL CATALOG

CHECK VALVES SHUTTLE VALVES QUICK EXHAUST VALVES INDEX



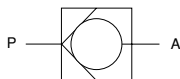
Check Valves C1, C125, C250, C375, C500	817
Shuttle Valves S125, S250	818
Quick Exhaust Valves SQE, SQE1, SQE2, QE2, QE3, QE4, QE5	819



CHECK VALVES

C1, C125, C250, C375, C500

Symbol



Specifications

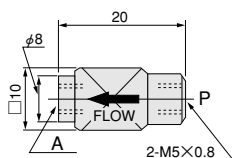
Item \ Model	C1	C125	C250	C375	C500				
Port size	M5×0.8	Rc1/8	Rc1/4	Rc3/8	Rc1/2				
Effective area [Cv] mm ²	2.5 [0.12]	6.0 [0.30]	14 [0.72]	74 [3.7]					
Media	Air								
Operating pressure range MPa [kgf/cm ²] [psi.]	0.03~0.9 [0.3~9.2] [4~131]	0.07~0.9 {0.7~9.2} [10~131]							
Proof pressure MPa [kgf/cm ²] [psi.]	1.35 [13.8] [196]								
Operating temperature range (atmosphere and media) °C [°F]	0~60 [32~140]								
Lubrication	Not required								
Mass g [oz.]	7 [0.25]	40 [1.41]	120 [4.23]	260 [9.17]					

Order Code

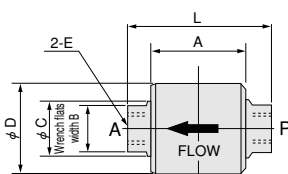
C	Port size
1	M5×0.8
125	Rc1/8
250	Rc1/4
375	Rc3/8
500	Rc1/2

Dimensions (mm)

● C1



● C125 ● C250 ● C375 ● C500

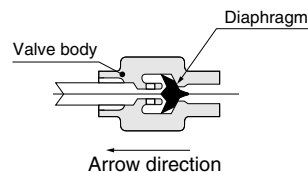


Model	E	L	A	B	C	D
C125	Rc1/8	43	27.5	14	15	26
C250	Rc1/4	62	40	24	26	38
C375	Rc3/8	85	49	32	34	50
C500	Rc1/2	85	49	32	34	50

Operating Principles, Major Parts and Materials

C1

● Normal condition

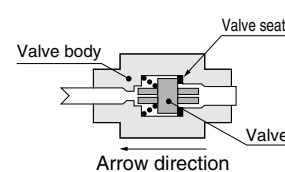


● Operating condition

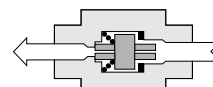


C125, C250, C375, C500

● Normal condition

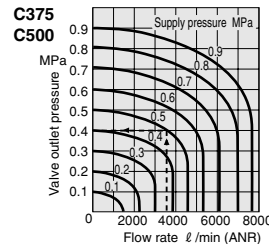
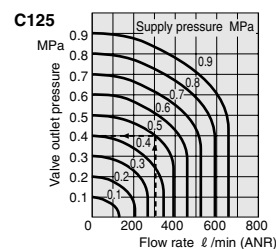
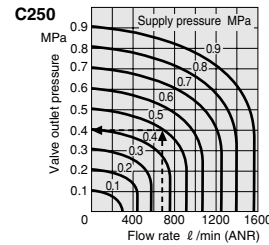
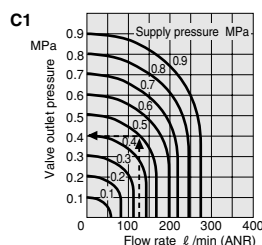


● Operating condition



Parts	Model	C1	C125 C250	C375 C500
Body		Brass	Aluminum alloy (anodized)	
Valve body		Synthetic rubber	Nylon	Aluminum alloy (anodized)
Valve seat		Brass	Synthetic rubber	

Flow Rate



1MPa = 145psi., 1 l/min = 0.0353ft³/min.

How to read the graph (C375, C500)

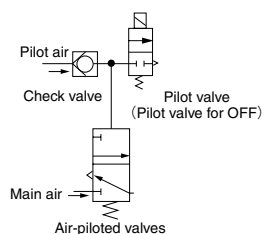
When the supply pressure is 0.5MPa [73psi.] and the flow rate is 3680 l/min [130ft³/min.] (ANR), the valve outlet pressure becomes 0.4MPa [58psi.].

Handling Precautions

Without a pressure difference of 0.07MPa [10psi.] or more between P and A, leaks can occur. When holding pressure in air tanks, etc., reduce the pressure on the P side.

Application Examples

To hold pilot pressure



To hold air pressure in the cylinder

