



General Purpose Valves
Catalog No. CB-03-1SA

Air operated 2-port ball valve
(Compact rotary valves)

CHB Series

● Port size: Rc3/8 to Rc2



JIS symbol

● CHB
(double acting)



Common specifications

Item	Double acting	
	CHB (Standard bore)	
Actuation	Air operated: Double acting	
Working fluid	Water/air/oil (500 mm ² /s or less)	
Working pressure MPa	0 to 1.0	
Proof pressure (water pressure) MPa	2.0	
Fluid temperature °C	0 to 80 (no freezing)	
Ambient temperature °C	-10 to 60 (no freezing)	
Working environment	Indoors	
Valve seat leakage cm ³ /min	0 (Initial value of water pressure 1MPa)	
Mounting orientation	Unrestricted	
Frequency cycles/min.	1 or less	
Rotary actuator	Pilot fluid	Compressed air
	Lubrication	Not required (Use turbine oil class 1 ISO VG32 if necessary for lubrication.)
	Proof pressure (water pressure) MPa	1.5
	Working pressure MPa	0.35 to 0.7
	Fluid temperature °C	5 to 60
	Port size	Rc1/8

Individual specifications

Item		Port size	Orifice size(mm)	Cv	Weight (kg)
Model No.					Double acting
Standard bore	CHB-10	Rc3/8	10	10	1.0
	CHB-15	Rc1/2	10	6	1.0
	CHB-20	Rc3/4	15	16	1.2
	CHB-25	Rc1	20	29	1.3
	CHB-32	Rc1¼	25	50	2.1
	CHB-40	Rc1½	32	98	2.6
	CHB-50	Rc2	40	125	3.3

Compatibility table by variation

	CHB-N
Port size	Rc3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2
P4	●

Note: Body material code N only.

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

CHB - 15 - N - P4

Model No.

A Port size

B Body material

Code	Description
A Port size	
10	Rc3/8
15	Rc1/2
20	Rc3/4
25	Rc1
32	Rc1 1/4
40	Rc1 1/2
50	Rc2
B Body material	
N	Stainless steel
	Oil-prohibited specifications

P4
Series

Pneumatic
cylinders

Hand/
Chuck

Related
products

Cylinder
Switch

Vacuum components

Pneumatic valves

Clean air
components

Pneumatic auxiliary components

Fitting

Auxiliary
valve

Silencer

Tube

Gas generator

Fluid control components

Electric actuator
Motor
specification
Motorless
specifications



General Purpose Valves
Catalog No. CB-03-1SA

Air operated 3-port ball valve
(Compact rotary valves)

CHG Series

● Port size: Rc1/2 to Rc2



JIS symbol

● CHG (Double acting)



Common specifications

Item	CHG(Double acting)
Actuation	Air operated: Double acting
Working fluid	Water/air/oil(500 mm ² /s or less)
Working pressure MPa	0 to 1.0
Proof pressure (water pressure) MPa	2.0
Fluid temperature °C	0 to 80 (no freezing)
Ambient temperature °C	-10 to 60 (no freezing)
Working environment	Indoors
Valve seat leakage cm ³ /min	0 (Initial value of water pressure 1MPa)
Mounting orientation	Unrestricted
Frequency cycles/min.	1 or less
Pressurization direction	Port C pressurization only
Flow path shape	Multi-fluid type(90°Rotation switching method)
Rotary actuator	Pilot fluid
	Compressed air
	Lubrication
	Not required (Use turbine oil class 1 ISO VG32 if necessary for lubrication.)
	Proof pressure (water pressure) MPa
Rotary actuator	Working pressure MPa
	0.35 to 0.7
	Fluid temperature °C
	5 to 60
Rotary actuator	Port size
	Rc1/8

Individual specifications

Item	Port size	Orifice size(mm)	Cv	Weight (kg)
Model No.				Double acting
CHG-15	Rc1/2	10	3	1.0
CHG-20	Rc3/4	14	6	1.2
CHG-25	Rc1	19	11	1.4
CHG-32	Rc1 ¹ / ₄	23	16	2.2
CHG-40	Rc1 ¹ / ₂	30	28	2.7
CHG-50	Rc2	38	47	3.5

Compatibility table by variation

	CHG-N
Port size	Rc1/2, 3/4, 1, 1 1/4, 1 1/2, 2
P4	●

Note: Body material code N only.

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

CHG - 20 - N - P4

Model No.

A Port size

B Body material

Code	Description
A Port size	
15	Rc1/2
20	Rc3/4
25	Rc1
32	Rc1 1/4
40	Rc1 1/2
50	Rc2
B Body material	
N	Stainless steel/oil-prohibited specifications

P4 Series															
Pneumatic actuator				Vacuum components		Pneumatic valves		Pneumatic auxiliary components		Gas generator		Fluid control components		Electric actuator	
Pneumatic cylinders	Hand/Chuck	Related products	Cylinder Switch												
				Clean air components	Speed controller	Fitting	Auxiliary valve			Silencer	Tube				