

Air operated 2-port ball valve stainless steel full bore (compact rotary valve)

CHBF/CHBF-V* Series CHBF-R*/CHBF-X* Series

Port size: Rc1/2 to Rc1 1/2





JIS symbol

CHBF (double acting)



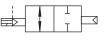
CHBF-R1 (single acting-NC)



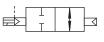
CHBF-R2 (single acting-NO)



CHBF-V1 (double acting-NC)



CHBF-V2 (double acting-NO)



CHBF-X1 (single acting-NC)



Common specifications

Da	a a vintia na		Double acting	Single acting					
De	scriptions		CHBF/CHBF-V*	CHBF-R*/CHBF-X*					
Act	uation		Air operated, with solenoid valve						
Wo	rking fluid		Water/air/oil (500 mm ² /s or less)						
Wo	rking pressure	MPa	0 to	1.0					
Pro	of pressure (water)	MPa	2.	0					
Flui	d temp	°C	0 to 80 (no	freezing)					
Am	bient temp	°C	-10 to 60 (no freezing)						
Wo	rking environment		Indoors						
Moi	unting orientation		Unrestricted						
Fre	quency Cycle	/min.	1 or less						
	Pilot fluid		Compre	ssed air					
atoı	Lubrication		Not required (use turbine oil class 1 ls	SO VG32 if necessary for lubrication)					
actuator	Proof pressure (water)	MPa	1.5 (air operated), 1.05	5 (with solenoid valve)					
	Working pressure	MPa	0.35 to 0.7	0.4 to 0.7					
Rotary	Fluid temp	°C	5 to	5 to 60					
_	Port size		Rc ⁻	1/8					

Electrical spec	cification	s (with solenoid valve)						
Rated voltage		100 VAC (50/60 Hz), 200 VAC (50/60 Hz), 24 VDC						
	100 VAC	0.056/0.044 (50/60 Hz)						
Starting current (A) (with lamp)	200 VAC	0.028/0.022 (50/60 Hz)						
(* t) (With 16111p)	24 VDC	0.075 (0.083)						
	100 VAC	0.028/0.022 (50/60 Hz)						
Holding current (A)	200 VAC	0.014/0.011 (50/60 Hz)						
(* 1)	24 VDC	0.075						
Power	100 VAC	1.8/1.4 (1.9/1.5) (50/60 Hz)						
consumption	200 VAC	1.8/1.4 (1.9/1.5) (50/60 Hz)						
(W) (with lamp)	24 VDC	1.8 (2.0)						
Thermal class		Class 130 (B)						
Degree of protect	tion	Dust-proof						
Voltage fluctuation	n range	±10%						

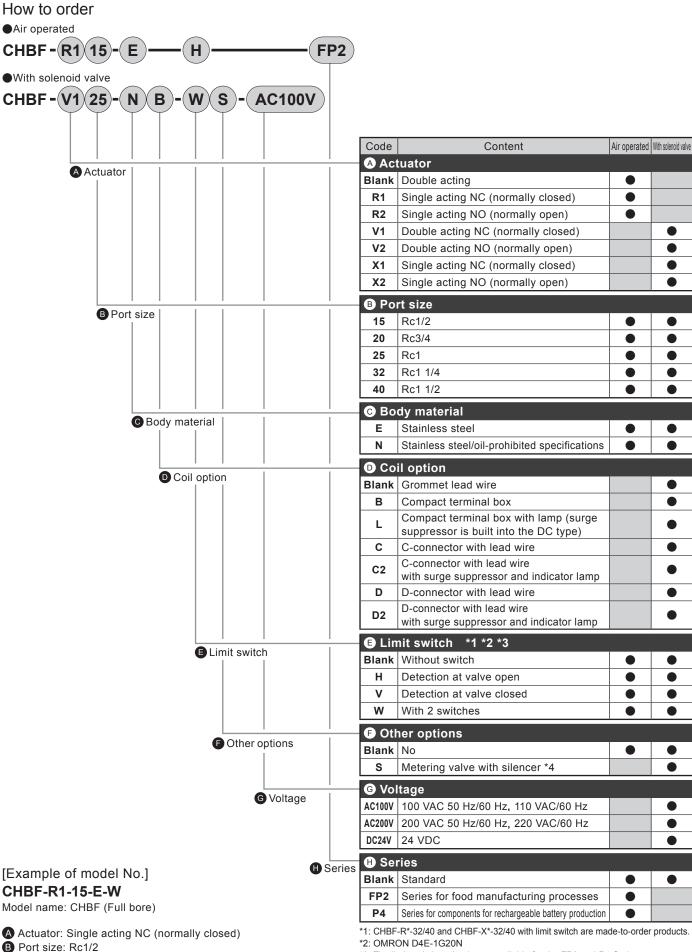
Individual specifications

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1110	mulvidual specifications												
De	scriptions		Orifice size		Weigh	nt (kg)	Weight (kg)						
Ma	dal Na	Port size		Cv	Air op	erated	With solenoid valve						
Model No.			(mm)		Double acting	Single acting	Double acting	Single acting					
	CHBF-(*-)15	Rc1/2	15	23	1.1	1.2	1.3	1.4					
bore	CHBF-(*-)20	Rc3/4	20	51	1.3	2.1	1.5	2.3					
pd II	CHBF-(*-)25	Rc1	25	66	2.0	2.4	2.2	2.6					
Full	CHBF-(*-)32	Rc1 ¹ / ₄	32	114	2.5	4.7	2.7	4.9					
	CHBF-(*-)40	Rc1 1/2	40	176	3.2	5.4	3.4	5.6					

^{*1:} Weight increases by 0.2 kg with one limit switch and by 0.3 kg with two limit switches.

^{*2:} Limit switch CHBF-R*-32/40 and CHBF-X*-32/40 are made-to-order products.



^{*2:} OMRON D4E-1G20N

Body material: Stainless steel

■ Limit switch: Two switches

^{*3:} The limit switch option is not available for the FP2 and P4 Series.

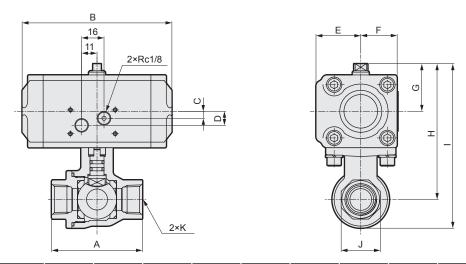
^{*4:} CKD SMW2-6A is attached with the product.

CHBF/CHBF-R* Series

Dimensions: CHBF/CHBF-R* Series

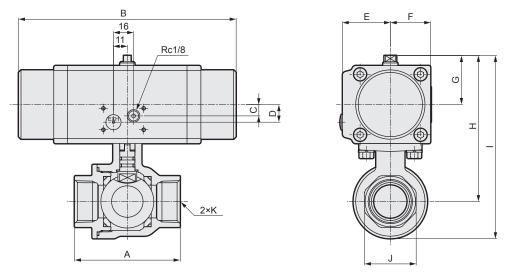


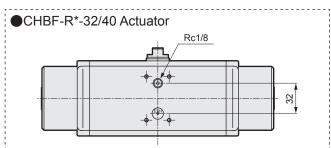
●CHBF-15/20/25/32/40 CHBF-R*-15



Model No.	Α	В	С	D	E	F	G	Н	I	J	K						
CHBF-15	65		5	10	32			97	117.5	28	Rc1/2						
CHBF-R*-15		107				26	34		117.5		RC1/2						
CHBF-20	71							100	124	34	Rc3/4						
CHBF-25	84	125												116	144.5	41	Rc1
CHBF-32	95		9	14	38	32	39	122	156.5	50	Rc1 ¹ / ₄						
CHBF-40	107							131	171.5	57	Rc1 ¹ / ₂						

●CHBF-R*-20/25/32/40



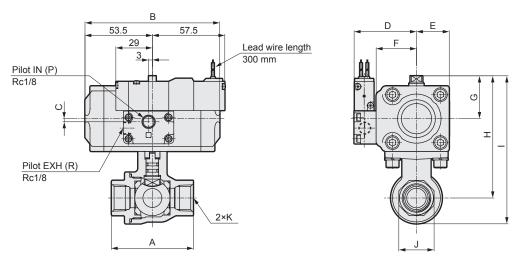


Model	Α	В	С	D	E	F	G	Н	I	J	K			
CHBF-R*-20	71	173	170	_	1.1	38	32	39	110	134	34	Rc3/4		
CHBF-R*-25	84		9	14	30	32	39	116	144.5	41	Rc1			
CHBF-R*-32	95	244	044	244	244	-	-	42	38	53	156.5	191	50	Rc1 ¹ / ₄
CHBF-R*-40	107		-	-	43	J 38	53	165.5	206	57	Rc1 ¹ / ₂			

Dimensions: CHBF-V*/CHBF-X* Series

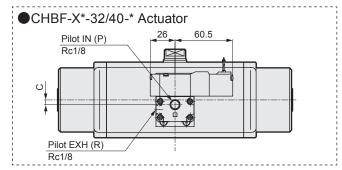


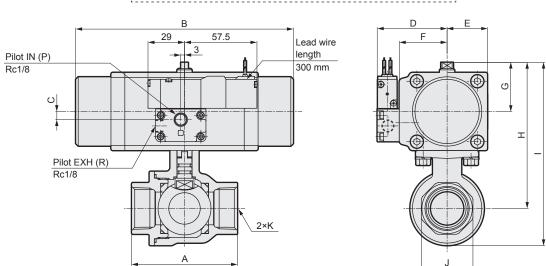
●CHBF-V*-15/20/25/32/40-* CHBF-X*-15-*



Model No.	Α	В	С	D	E	F	G	Н	- 1	J	K												
CHBF-V*-15-*	65							97	117.5	28	Rc1/2												
CHBF-X*-15-*	05	107	2.5	49.5	26	32	34	97	117.5	20	RC1/2												
CHBF-V*-20-*	71							100	124	34	Rc3/4												
CHBF-V*-25-*	84	125																		116	144.5	41	Rc1
CHBF-V*-32-*	95		6.5	55.5	32	38	39	122	156.5	50	Rc1 ¹ / ₄												
CHBF-V*-40-*	107	1						131	171.5	57	Rc1 ¹ / ₂												

●CHBF-X*-20/25/32/40-*





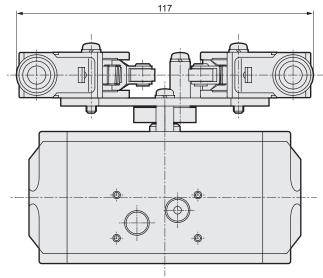
Model	Α	В	С	D	Е	F	G	Н	ı	J	K			
CHBF-X*-20-*	71	173	6.5	55.5	32	38	39	110	134	34	Rc3/4			
CHBF-X*-25-*	84							116	144.5	41	Rc1			
CHBF-X*-32-*	95	244	044	044	244	-	70.5	20	40	5 0	156.5	191	50	Rc1 ¹ / ₄
CHBF-X*-40-*	107		5	70.5	38	43	53	165.5	206	57	Rc1 ¹ / ₂			

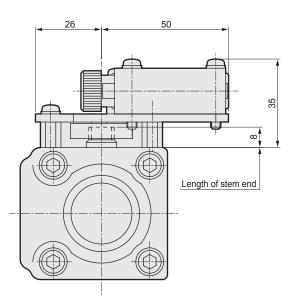
CHBF Series

Optional dimensions



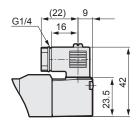
Limit switch



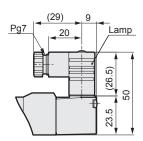


• Compact terminal box: (B [without indicator lamp]/L [with indicator lamp])

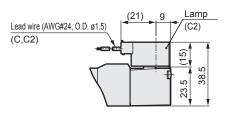
Without indicator lamp



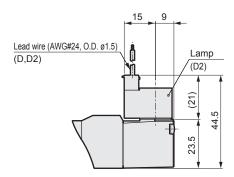
With indicator lamp



C-connector: (C/C2)



D-connector: (D/D2)



^{*} Product with limit switch is 27 mm higher.