

Specifications

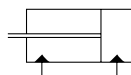


Action	Double acting/Single rod
Fluid	Hydraulic fluid
Nominal pressure	7MPa
Proof pressure	10.5MPa
Maximum allowable pressure	9MPa
Minimum operating pressure	0.3MPa
Ambient and fluid temperature	Without auto switch: -10° to 80°C
	With auto switch: -10° to 60°C
Piston speed	8 to 300mm/s
Cushion	Cushion seal
Rod end thread	Male thread
Thread tolerance	JIS class 2
Stroke length tolerance	to 250mm $\begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$
	251 to 800mm $\begin{smallmatrix} +1.4 \\ 0 \end{smallmatrix}$
Mounting types	Basic type, Axial foot type Rear flange type, Front flange type Single clevis type

Note) Refer to page 26 for definitions of terms related to pressure.

Accessories

JIS symbol



Mounting types		Basic	Axial foot	Rear flange	Front flange	Single clevis
Standard	Mounting nut	● (2 pcs.)	● (2 pcs.)	● (1 pc.)	● (1 pc.)	—
	Rod end nut	●	●	●	●	●
Option	Clevis pin	—	—	—	—	—
	Single knuckle joint	●	●	●	●	●
	Double knuckle joint (with pin)	●	●	●	●	●
	Knuckle bracket	●	●	●	●	●

Standard Strokes: Refer to page 3 for minimum strokes for auto switch mounting.

Bore size (mm)	Standard strokes (mm)	Long stroke
20	25 to 300	800
25	25 to 400	
32	25 to 500	
40		

* Standard strokes above have a minimal delivery time.
Consult with SMC for the manufacture of strokes other than the above.

Hydraulic Fluid Compatibility

Hydraulic fluid	Compatibility
Standard mineral hydraulic fluid	Compatible
W/O hydraulic fluids	Compatible
O/W hydraulic fluids	Compatible
Water/Glycol hydraulic fluids	*
Phosphate hydraulic fluids	Not compatible

* Consult with SMC.

Mounting Brackets: Part Nos.

Bore size (mm)	20	25	32	40
Axial foot*	CHN-L020	CHN-L025	CHN-L032	CHN-L040
Flange	CHN-F020	CHN-F025	CHN-F032	CHN-F040

* When ordering the axial foot type, order 2 pieces for each cylinder.

Auto Switch Mounting Brackets: Part Nos. (incl. band & screws)

Bore size (mm)	Auto switch models		
	D-C7, D-C8 D-H7	D-B5, D-B6 D-G5, D-K5	D-A3, D-A4
20	BMA2-020	BA-01	BD1-01M
25	BHN3-025	BHN2-025	BD1-02M
32	BHN3-032	BGS1-032	BHN1-032
40	BHN3-040	BH2-040	BDS-04M

[Stainless steel mounting screw kits]

The following stainless steel mounting screw kits are available for use depending on the operating environment. (Switch mounting bands are not included and should be ordered separately.)

BBA3: D-B5, D-B6, D-G5, and D-K5

BBA4: D-C7, D-C8, D-H7

* When D-H7BAL switches are shipped mounted on a cylinder, the above stainless steel screws are used. Also, when switches are shipped separately, BBA4 is included.