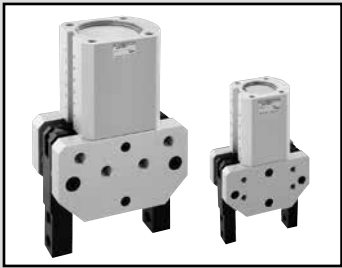


LCM
 LCR
 LCG
 LCW
 LCX
 STM
 STG
 STS/STL
 STR2
 UCA2
 ULK*
 JSK/M2
 JSG
 JSC3/JSC4
 USSD
 UFCD
 USC
 UB
 JSB3
 LMB
 LML
 HCM
 HCA
 LBC
 CAC4
 UCAC2
 CAC-N
 UCAC-N
 RCS2
 RCC2
 PCC
 SHC
 MCP
 GLC
 MFC
 BBS
 RRC
 GRC
 RV3*
 NHS
 HRL
 LN
Hand
 Chuk
 MecHnd/Chuk
 ShkAbs
 FJ
 FK
 SpdContr
 Ending
 LSH-HP
 LSH
 FH100
 BSA2
 BHA/BHG
 LHA
 LHAG
 HAP
 HKP
 HCP
 HGP
 HLF2
 HLA/HLB
 HLAG/HLBG
 HLC
 HLD
 HMF
 HMF-G
 HMF-B
 HFP
 FH500
 HBL
 HJL
 HMD
 HDL
HJD
 BHE



180 degree open/close high gripping wide angle hand

HJD Series

● Open/close angle: -4° to 184°



Specifications

Model No.		HJD			
Size		32CS	40CS	50CS	63CS
Bore size mm		ø32	ø40	ø50	ø63
Working fluid		Compressed air			
Max. working pressure MPa		0.7 (≈100 psi, 7 bar)			
Min. working pressure MPa		0.3 (≈44 psi, 3 bar)			
Ambient temperature °C		5 (41°F) to 60 (140°F)			
Port size		M5	Rc1/8		
Open and close angle °		-4 to 184			
Rod diameter mm		ø14	ø16	ø20	ø20
Volumetric capacity (reciprocating) cm ³		46	88.7	180.8	331.5
Repeatability mm		±0.1			
Weight kg		1.03	1.58	2.67	3.97
Lubrication		Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)			

Switch specifications

Item	Proximity 2-wire		Proximity 3-wire	
	T2H/T2V	T2WH/T2WV (2-color display)	T3H/T3V	T3WH/T3WV (2-color display)
Applications	Dedicated for programmable controller		For programmable controller, relay	
Output method	-		NPN output	
Power supply voltage	-		10 to 28 VDC	
Load voltage	10 to 30 VDC	24 VDC ±10%	30 VDC or less	
Load current	5 to 20 mA		100 mA or less	50 mA or less
Indicator lamp	LED (Lit when ON)	Red/green LED (Lit when ON)	LED (Lit when ON)	Red/green LED (Lit when ON)
Leakage current	1 mA or less		10 μA or less	
Weight	1 m:18 g 3 m:49 g 5 m:80 g		1 m:18 g 3 m:49 g 5 m:80 g	

*1 : The above max. load current is 20 mA at 25°C.

The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

*2 : Refer to Ending Page 1 for detailed switch specifications and dimensions.

How to order

Without switch (built-in magnet for switch)

HJD - 40CS

With switch (built-in magnet for switch)

HJD - 40CS - T2H - R

Ⓐ Size

Ⓑ Switch model No.

Ⓒ Switch quantity

[Example of model No.]

HJD-40CS-T2H-R

Ⓐ Size : 40CS

Ⓑ Switch model No. : Proximity T2H switch, lead wire 1 m

Ⓒ Switch quantity : 1 on open side

Code	Description					
A Size						
32CS						
40CS						
50CS						
63CS						
B Switch model No.						
Axial lead wire	Radial lead wire	Contact	Voltage		Display	Lead wire
			AC	DC		
T2H*	T2V*	Proximity		●	1-color	2-wire
T3H*	T3V*			●	display	3-wire
T2WH*	T2WV*			●	2-color	2-wire
T3WH*	T3WV*			●	display	3-wire
* Lead wire length						
Blank	1 m (standard)					
3	3 m (option)					
5	5 m (option)					
C Switch quantity						
R	1 on open side					
H	1 on closed side					
D	2					

How to order switch

● For switch T*H* or T*WH*

· Switch body + mounting bracket set

HJD - T2H

Switch model No.
(Item Ⓑ above)

· Switch body

SW - T2H

Switch model No.
(Item Ⓑ above)

· Mounting bracket set

HJD - T

● For switch T*V* or T*WV*

· Switch body + mounting bracket set

HJD - T2V - *

Switch model No.
(Item Ⓑ above)

· Switch body

SW - T2V

Switch model No.
(Item Ⓑ above)

· Mounting bracket set

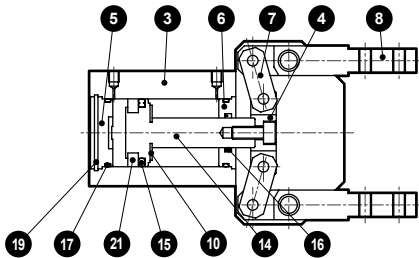
HJD - TV - *

- Select either R (open side) or H (closed side) for sections marked with an asterisk (*).
- HJD (- 50CS, 63CS) can be mounted without a mounting bracket.

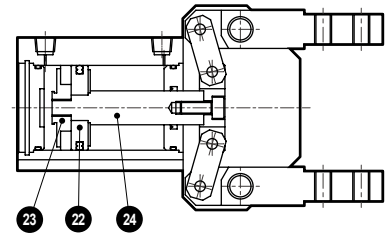
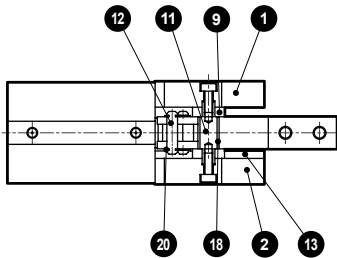
LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending
LSH-HP
LSH
FH100
BSA2
BHA/BHG
LHA
LHAG
HAP
HKP
HCP
HGP
HLF2
HLA/HLB
HLA/HLBG
HLC
HLD
HMF
HMF-G
HMFB
HFP
FH500
HBL
HJL
HMD
HDL
HJD
BHE

Internal structure and parts list

● HJD-32CS



● HJD-40CS to 63CS



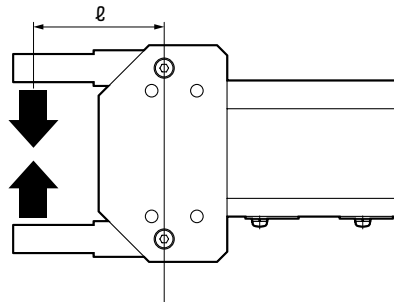
Cannot be disassembled

No.	Part name	Material	No.	Part name	Material	No.	Part name	Material
1	Body A	Aluminum alloy	9	Collar	Steel	17	Cylinder sealant	Nitrile rubber
2	Body B	Aluminum alloy	10	Cushion	Urethane rubber	18	Bush	Sintering oil impregnated alloy
3	Cylinder	Aluminum alloy	11	Fulcrum axis	Steel	19	C type snap ring	Stainless steel
4	Operation plate	Steel	12	Operation shaft	Steel	20	E type snap ring	Stainless steel
5	Cylinder guard	Aluminum alloy	13	Guide rail	Steel	21	Magnet	
6	Rod cover	Aluminum alloy	14	Piston	Aluminum alloy/stainless steel	22	Piston A	Aluminum alloy
7	Link	Steel	15	Piston seal	Nitrile rubber	23	Piston B	Stainless steel
8	Finger	Steel	16	Rod sealant	Nitrile rubber	24	Piston rod	Stainless steel

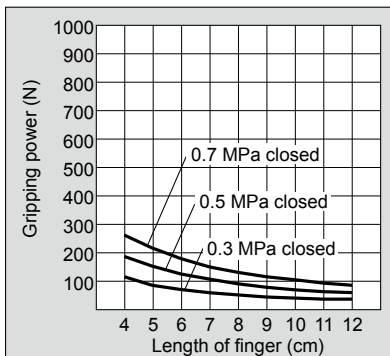
Gripping power performance data

- Gripping power represents the thrust (per one finger) in the arrow direction shown in the figure.
 - The gripping power in the opening/closing directions with finger length L of hand with a supply pressure of 0.3, 0.5 and 0.7 MPa is shown.
- Closed direction (⇨)

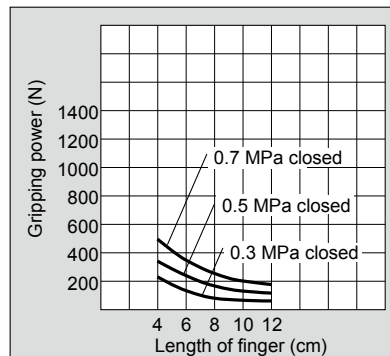
(Note) When making a selection, read the precautions for design and selection on page 1764.



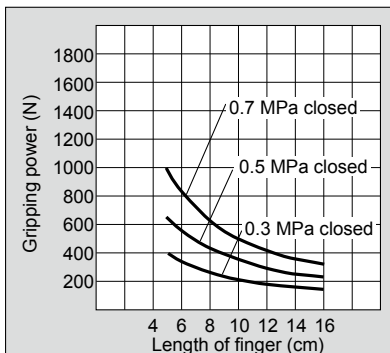
● HJD-32CS



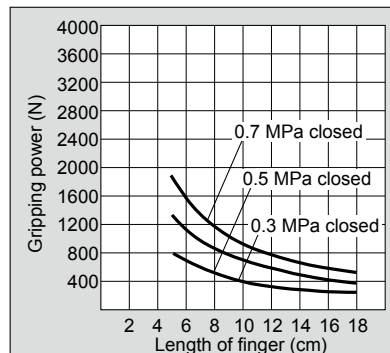
● HJD-40CS



● HJD-50CS

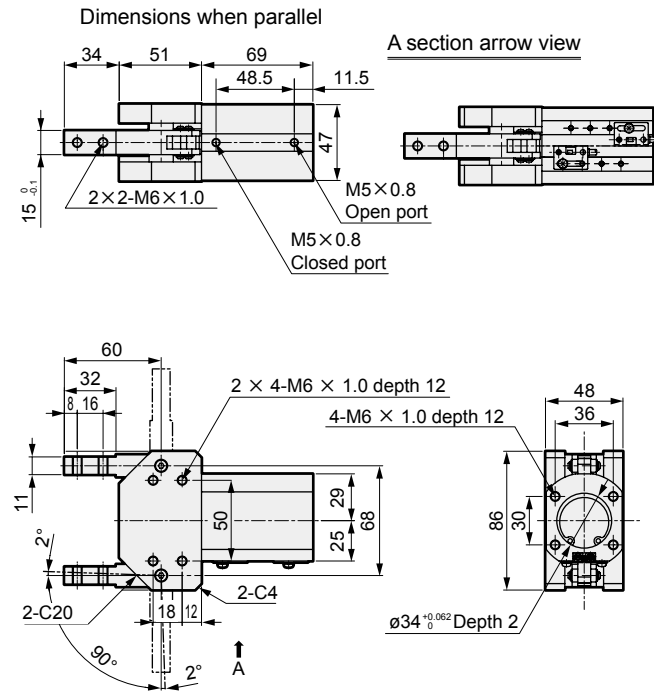


● HJD-63CS

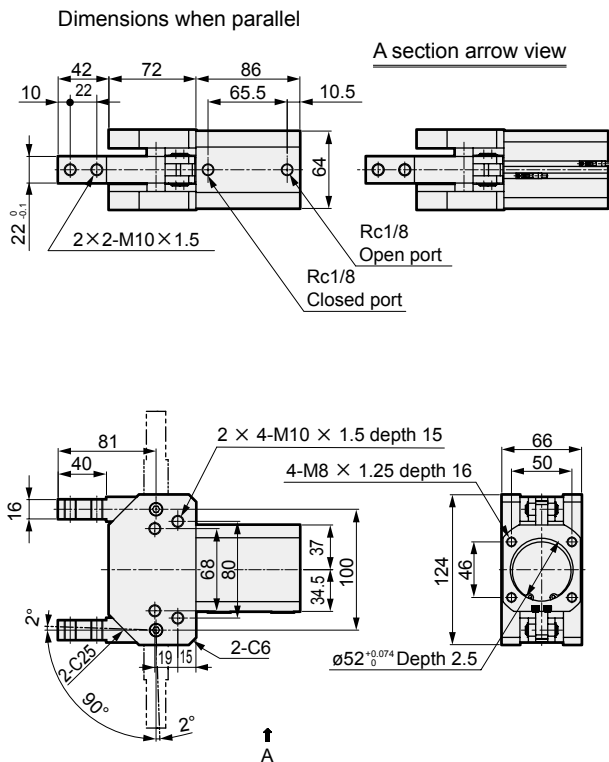


Dimensions

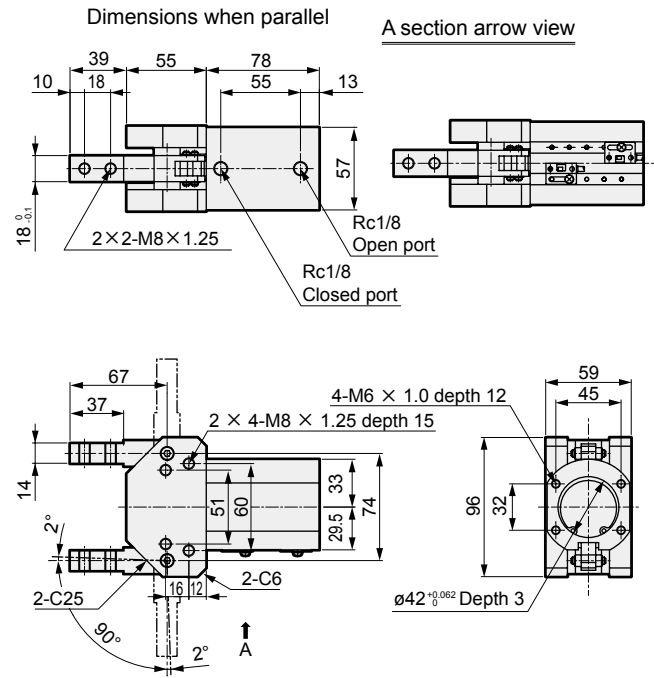
● HJD-32CS



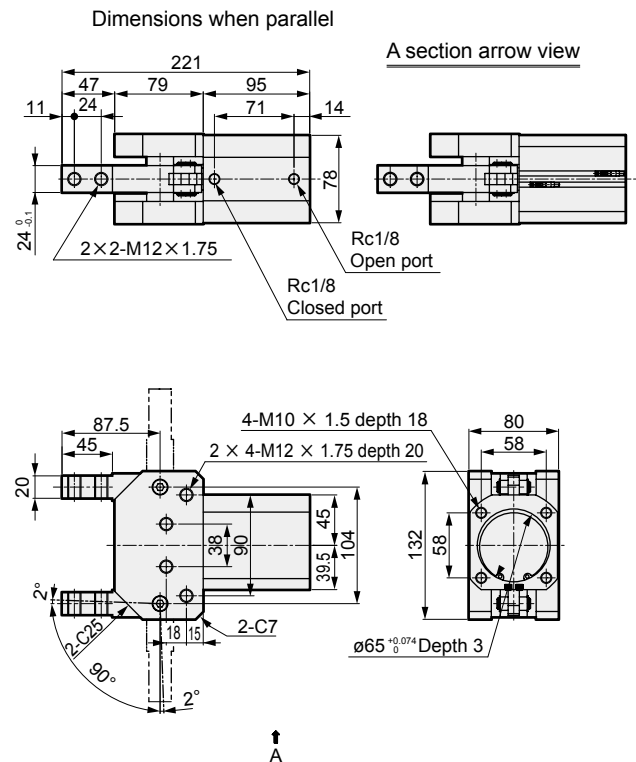
● HJD-50CS



● HJD-40CS



● HJD-63CS



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