



Bearing parallel hand Double acting/single acting

HEP Series

- Operational stroke length: 24, 36, 40, 50, 60mm



RRC
GRC
RV3*
NHS
HR
LN
FH100
HAP
BSA2
BHA/
BHG
LHA
LHAG
HKP
HLA/
HLB
HLAG/
HLBG
HEP
HCP
HMF
HMFBS
HFP
HLC
HGP
FH500
HBL
HDL
HMD
HJL
BHE
CKG
CK
CKA
CKS
CKF
CKJ
CKL2
CKL2
*-HC
CKH2
CKLB2
NCK/
SCK/FCK
FJ
FK
Ending

Specifications

Descriptions	HEP				
Size	3.5CS	4CS	5CS	6CS	7CS
Cylinder bore size mm	φ32	φ50	φ63	φ80	φ100
Actuation	Double acting/single acting				
Working fluid	Compressed air				
Max. working pressure MPa	0.7		0.5		
Min. working pressure MPa	0.3				
Ambient temperature °C	5 to 60				
Port size	M5	Rc1/8		Rc1/4	
Operational stroke length mm	24	36	40	50	60
Rod diameter mm	φ14	φ20	φ24	φ28	φ30
Capacity of reciprocating cm ³	17.5	65.0	115.6	236	450
Repeatability mm	±0.03				
Product weight kg	1.2	3.2	4.7	7.8	11.7
Lubrication	Not required (when lubricating, use turbine oil Class 1 ISO VG32)				

Switch specifications

Descriptions	Proximity 2 wire	Proximity 3 wire
	T2H/T2V	T3H/T3V
Applications	Programmable controller	Programmable controller, relay
Output method	-	NPN output
Power voltage	-	10 to 28 VDC
Load voltage/current	10 to 30 VDC, 5 to 20 mA (Note 1)	30 VDC or less, 100mA or less
Light	LED (ON lighting)	
Leakage current	1mA or less	10μA or less
Maximum shock resistance	980m/s ²	
Lead wire	Standard 1m (oil resistant vinyl cabtire cable 2-conductor 0.2mm ²)	Standard 1m (oil resistant vinyl cabtire cable 2-conductor 0.2mm ²)

Note 1: Max. load current above: 20 mA at 25°C.

The current will be lower than 20mA if ambient temperature around switch is higher than 25°C. (5 to 10mA with 60°C)

How to order

Without switch

HEP - 3.5CS - C

With switch

HEP - 3.5CS - C - T2H - R

A Size

B Option
Note 1
Note 2

C Switch model no.

D Switch quantity

Symbol	Descriptions			
A Size				
3.5CS				
4CS				
5CS				
6CS				
7CS				
B Option				
Blank	Standard (double acting)			
O	Single acting (normally open)			
C	Single acting (normally closed)			
Y1	With small jaw material (S50C)			
Y2	With small jaw material (MC nylon)			
C Switch model no.				
Axial lead wire	Radial lead wire	Contact	Indicator	Lead wire
T2H*	T2V*	Proximity	1 color indicator type	2-wire
T3H*	T3V*			3-wire
*Lead wire length				
Blank	1m (standard)			
3	3m (option)			
5	5m (option)			
D Switch quantity				
R	One on open side			
H	One on closed side			
D	Two			

⚠ Note on model no. selection

Note 1: Refer to pages 412 to 413 for the dimensions and applicable model of the small jaw. These are attached at shipment. (When ordered as an option, two are included)

Note 2: 6CS and 7CS have no small jaw.

<Example of model number>

HEP-3.5CS-O-T2H-R

Model: Bearing parallel hand

- A Size : 3.5CS
- B Option : Single acting, normally open type
- C Switch model no.: Proximity T2H switch, lead wire 1m
- D Switch quantity : One on open side

How to order switch

● For switch T*H*

· Switch body + mounting bracket

HEP - T2H

Switch model no.
(Item above C)

· Switch body

SW - T2H

Switch model no.
(Item above C)

· Mounting bracket

HEP - T

● For switch T*V*

· Switch body + mounting bracket

HEP - T2V - *

Switch model no.
(Item above C)

· Switch body

SW - T2V

Switch model no.
(Item above C)

· Mounting bracket

HEP - TV - *

(Select either R (open) or H (closed) for sections marked with an asterisk (*).)

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HJL
BHE
CKG
CK
CKA
CKS
CKF
CKJ
CKL2
CKL2 *-HC
CKH2
CKLB2
NCK/ SCK/FCK
FJ
FK
Ending

Bearing parallel hand
Hand