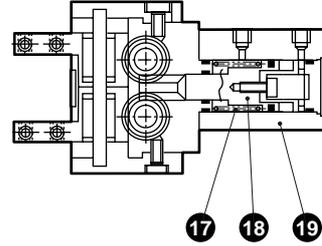
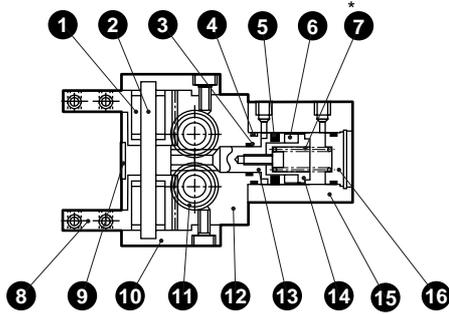


Internal structure and parts list

Standard (double acting)/O (normally open) type

C (normally closed) type



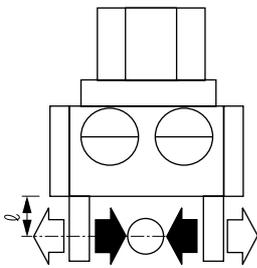
* Spring of 7 is not contained in standard (double acting) type.

No.	Parts name	Material	Remarks	No.	Parts name	Material	Remarks
1	Bearing	Steel		11	Pinion gear	Steel	
2	Guide rod	Alloy steel		12	Body	Aluminum alloy	
3	Rod packing seal	Nitrile rubber		13	Piston A	Stainless steel	
4	Cylinder gasket	Nitrile rubber		14	Piston B	Stainless steel (4 to 7CS) Acetar resin (3.5CS)	
5	Piston packing seal	Nitrile rubber		15	Cylinder	Aluminum alloy	
6	Magnet			16	Cylinder guard	Aluminum alloy	
7	Spring	Steel	Only O type	17	Spring	Stainless steel	
8	Master key	Steel		18	Piston	Stainless steel	
9	Center guard	Steel		19	Cylinder	Aluminum alloy	
10	Side cover	Aluminum alloy					

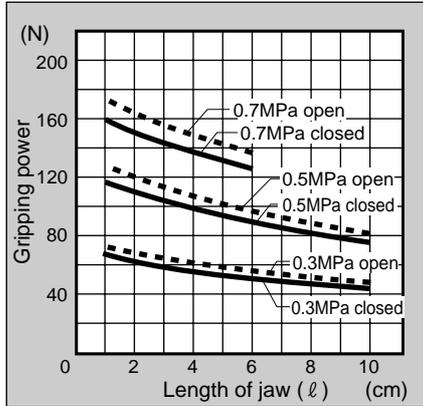
Gripping power performance data

Gripping power that functions to open and closed directions with jaw length ℓ of hand at supply pressure 0.3, 0.5 and 0.7 MPa is shown.

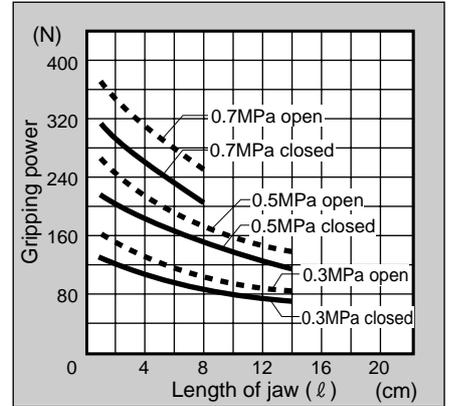
- Open direction (↔) - - - - (shown with broken line)
- Closed direction (→) ——— (shown with continuous line)



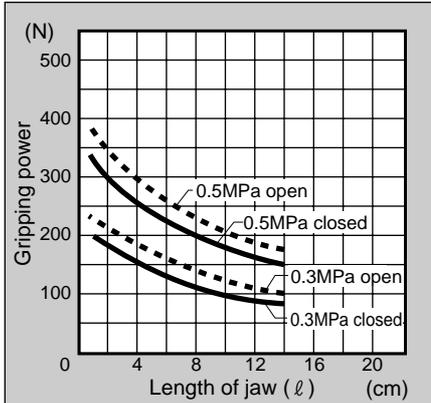
● HEP-3.5CS



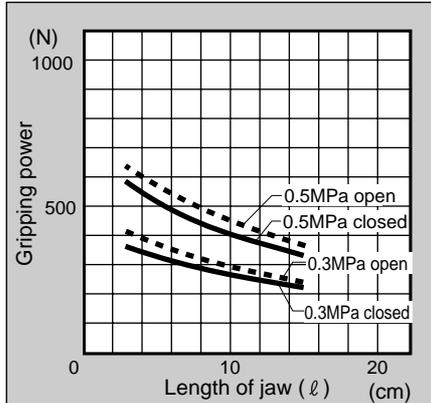
● HEP-4CS



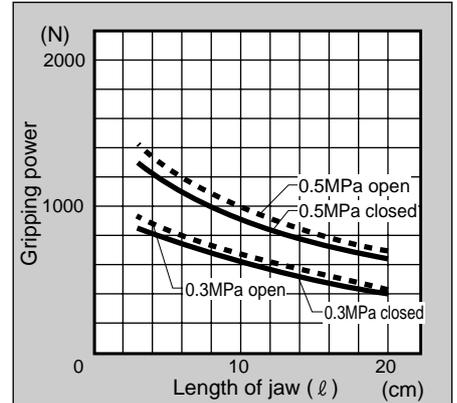
● HEP-5CS



● HEP-6CS



● HEP-7CS



(Note) O type gripping power decreases approximate 20 to 30 % comparing to double acting type to closed direction.
 C type gripping power decreases approximate 10 to 20 % comparing to double acting type to open direction.
 Grip performance data indicates the grip for one jaw. Since two jaws are used, double the grip in the graph when making a selection.