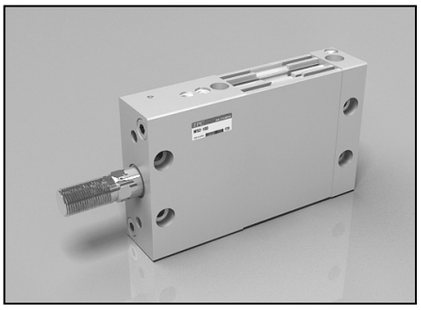
Flat-type single rod cylinder / Double-Action Single Rod

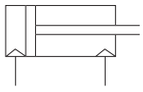
Series NBP

Bore Size: Ø50, Ø63



- Improves degree of parallelization on attachment area and reduces rod end wobbling due to the application of dowel pin
- Coil scraper built in
- Rod spinning prevention type
- Built in magnet
- Built in speed controller
- Applies magnetic resistant field and a general subminiature auto S/W
- Simple equipment setting available using lock release bolt

Marking symbol



How to Order

NBP D 50 – 100 B V M B – W2P □ □

1 2 3 4 5 6 7 8 9 10

1 NBP : Lock specification

2 Magnet
- Blank : None
- D : Built-in magnet

3 Bore-Stroke(mm)
- Ø50 : 50, 75, 100, 125, 150, 200
- Ø63 : 50, 75, 100, 125, 150, 200

4 Mounting
- Blank : None
- B : Y knuckle (Rod's bolt) + head cover's 2-thread clevis
- C : Y knuckle (Rod's bolt)
- E : Head's 2-thread clevis
- HB : Y knuckle (only for rod male screw) (knuckle width of 18mm) + head cover 2-thread clevis

5 Piping method
- V : General (one side)

6 Rod line end shape
- Blank : Female screws for rod line end
- M : Male screws for rod line end

7 Lock direction
- B : When moving backward Lock
- F : When moving forward Lock

8 Auto switch
- Blank : None
- W2P : Magnet-resistant field auto switch

9 Lead Wire Length
- Z : 5m (W2P only for W2P switch)

10 Number of Switches
- Blank : 2 pcs.
- S : 1 pc.

Product Specification

Tube internal diameter	50	63
Operating Method	Double-action single rod	
Fluid in use	Air	
Guaranteed inner pressure	1.5MPa (15.3kgf/cm^2)	
Maximum pressure for use	1.0MPa (9.9kfg/cm^2)	
Minimum pressure for use (in case of no load)	0.2MPa (1.9kgf/cm^2)	
Ambient temperature and fluid in use temperature	5℃ ~ 60℃	
Speed of piston in use	50~500mm/s	
Cushion	Rubber Cushion	
Fueling	None	
Permissible tolerance of stroke length	0/+1.4	
Speed controller	Built-in	

Lock Specification

Tube internal diameter	50	63
Lock operating method	Spring lock	
Note1) Lock release pressure (without loading)	0.2 MPa or more	
Note2) Lock direction	One way (clamp side; unclamp side)	
Note3) Lock retentivityN(kgf) (max. static load)	Lock release pressure of up to 0.5MPa	
	1519 (155kgf)	1974 (201kgf)
Lock applications	To prevent dropping; maintain position	

Note1) Using more than 0.5MPa pressure is recommended for the purpose of smooth lock releasing in case of load application.

Note2) The same specifications regardless of lock direction (forward, backward)

Note3) Lock retentivity is the max. static load; for stability, please set load less than 40% of the max. static load.