

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

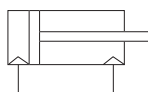
## Series NBP

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**

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- 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.

- ACP
- UACP
- APM
- AS
- AX
- AM
- AM2
- AL
- ALX
- (U)AQ
- ADQ
- ADQCP
- (U)AQ2
- ADQ2
- AG
- UAG
- NGQ
- UNGQ
- AJ
- AJM
- ABK
- ACK1
- NSK
- GX
- AGX
- NDC
- NDM
- ADR
- NP
- NBP
- AMR
- UAMR
- ARD
- UARD
- NST
- NST2
- AST
- ASTH
- NLPD
- NLCD
- NLCS
- ASL
- NRP
- NRT
- NRC
- NFH2
- NFHL2
- NFW2
- NFP2
- NFS
- NFC3
- SB
- ABC
- SAH
- NBU
- ACU
- SE
- ARM

### 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 <sup>2</sup> ) |    |
| Maximum pressure for use                         | 1.0MPa (9.9kgf/cm <sup>2</sup> )  |    |
| Minimum pressure for use (in case of no load)    | 0.2MPa (1.9kgf/cm <sup>2</sup> )  |    |
| Ambient temperature and fluid in use temperature | 5°C ~ 60°C                        |    |
| 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)                  | Lock release pressure of up to 0.5MPa  |               |
| (max. static load)                             | 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.