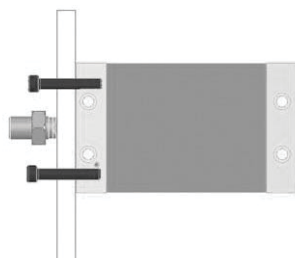
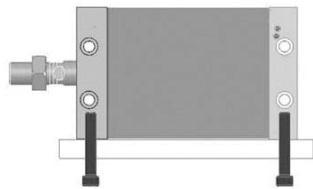


Plate Cylinder Series NP

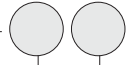
Bore Size: ϕ 50, ϕ 63



- Space saving compact design
- Built-in speed controller
- Axial side port available
- Built-in coil scrapper available
- Small auto switches available



How to Order

NP D 50-100 B V M W2P —  X104

1 2 3 4 5 6 7 8 9 10

1 New Challenger Plate Cylinder

2 Magnet

Blank : None
D : Standard built in magnetic

3 Tube size - stroke

50 : 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 75, 100, 125, 150, 200
63 : 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 75, 100, 125, 150, 200

4 Mounting

Blank : None
B : Y-knuckle(rod end male thread)
+ head cover double clevis

C : Y-knuckle(rod end male thread)

E : Head side double clevis

HB : Y-knuckle(rod end male thread)
+ head cover double clevis

5 Position of port

V : Standard side port
H : Axial side port

6 Rod end configuration

Blank : rod end female thread
M : rod end male thread

7 Auto switch

Blank : None
W2P : Magnetism resistant switch

W8H : Reed switch(horizontal type)

W8V : Reed switch(vertical type)

W9H : Solid switch(horizontal type)

W9V : Solid switch(vertical type)

8 Lead wire

Blank : 0.5m(only for small switches)
L : 3m
Z : 5m(only for W2P)

9 Quantity of auto switch

Blank : 2pcs
S : 1pc

10 Coil scrapper

Blank : None
X104 : Built in coil scrapper

Specifications

Action	Double acting	
Fluid	Air	
Proof pressure	1.05MPa(10.53kgf/cm ²)	
Pressure range	0.05MPa(0.53kgf/cm ²)~1.02MPa(10.43kgf/cm ²)	
Ambient and fluid temperature	-5~60°C	
Piston speed	50~500mm/sec	
Lubrication	Not required(Non-lube)	
Cushion	Rubber cushion	
Stroke length tolerance	$^{+1.4}$ 0	
Tube(mm)	ϕ 50, ϕ 63	
Rod end configuration	Rod end female thread, rod end male thread	
AUTO S/W	W2P	Magnetism resistant switch
	W8, W9	Semiconductor, electric equipment

Standard stroke

Size(mm)	Standard stroke(mm)
50	5,10,15,20,25,30,35,40,45,50,75,100,125,150,200
63	5,10,15,20,25,30,35,40,45,50,75,100,125,150,200



Theoretical Output

Size	Rod size (mm)	Operating direction	Piston area mm ²	Operating pressure(MPa)					
				0.2	0.3	0.4	0.5	0.6	0.7
50	20	OUT	1960	392	588	784	980	1176	1372
		IN	1646	329	494	658	823	988	1152
63	20	OUT	3117	623	935	1247	1559	1870	2182
		IN	2803	561	841	1121	1402	1682	1962

Weight (g)

Type	Standard stroke(mm)					Remarks
	50	75	100	125	150	
NP50	1,198	1,362	1,526	1,691	1,856	Basic weight
NP63	1,664	1,875	2,083	2,295	2,504	Basic weight

How to calculate

※ Basic weight +(additional weight stroke)

※ NP50 : 870g+(6.56g×STROKE)=

※ NP63 : 1,2450g+(8.4g×STROKE)=

Item number and weight of parts

Type	Rod type	item number	Weight(g)	Remarks
Y-knuckle	Double	Female thread	Y-NP50	325(pin included) ϕ 50, 63
		Male thread	YMNP-50	280(pin included) ϕ 50, 63
Head cover clevis	Double	HYNP50, 63	485(pin included)	All size
Rod cover clevis	Double	RYN50, 63	515(pin included)	All size

- ACP/ UACP
- APM
- AS
- AX
- AM
- AM2
- AL/ ALX
- AQ/ UAQ
- ADQCP
- AQ2/ UADQ2
- AG/ UAG
- NGQ/ UNGQ
- AJ/ AJM
- ABK
- NSK
- GX/ AGX
- NDM
- ADR
- AMR/ UAMR
- NST
- AST
- ASTH
- NF
- NLCD
- NLCS
- TCRL
- NP
- ARD/ UARD
- NR
- ASL
- SB
- SAH
- CR/ CV
- CR/ CV-AQ2, ADQ2
- CR/ CV-AX
- CR/ CV-NLCD
- CR/ CV-AGL
- DR100
- RS
- DV1000/ 3000/4000
- DS300
- DS2000