

Air Cylinder

NCY2 Series

Magnetically Coupled Rodless Cylinder



Space Savings
Basic or Slider Model Available
2 Different Retaining Force Options
Long Stroke Available (up to 80" - Basic body)
Auto Switch Capable

Mounting space reduced by 1/2

Magnetically Coupled Rodless Cylinder Series NCY2B/NCY2S

The magnetically coupled cylinder is designed to be leak free due to no mechanical connection between the piston and the body. The NCY2S slider type offers guided support ideal for light loads when space is limited. The NCY2B basic type is designed to produce force in applications that require less support.

Basic

Series NCY2B

NCY2B IS OBSOLETE - SEE NCY3 SERIES 6 Bores Available Standard tube I.D.s are $\phi 6 \sim \phi 40$.

Great holding power

H type (φ40) -227.94 lbs.

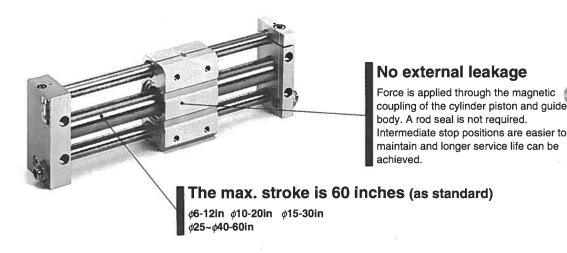
L type (\$\phi40\$) -140.65 lbs

The max. stroke is 80 inches

 ϕ 6-12 in ϕ 10-20 in ϕ 15-40in ϕ 25, ϕ 32,40 - 80in Longer stroke available upon request

Slider

Slide Bearing Series NCY2S



Bronze pistons for superior resistance against wear

Two low friction U-cups on piston designed to lower breakaway and compensate for seal wear adding to cylinder life

Simple fine adjustment of stroke and addition of auto switch after installation

Shock absorber for absorption of shock and noise

The SMC shock's original orifice design permits optimal energy absorption without adjustment within a wide range from high-speed small loads to low-speed large loads and from small energy to large energy.

Auto switch is attachable

An auto switch can be mounted in any position along stroke of cylinder.

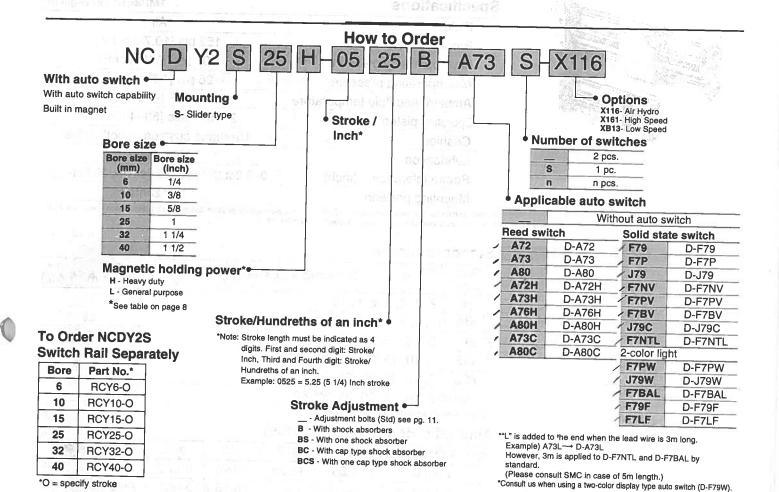
Easy piping and wiring

Hollow shafts and special switch rails are adopted. (Porting from one end)

Direct mounting of load on slide block

Magnetically Coupled Rodless Cylinder Series NCY2S

Slide Bearing Type: $\phi 6, \phi 10, \phi 15, \phi 25, \phi 32, \phi 40$



Auto Switch Specifications (See applicable auto switch on P. 16 for details.)

Reed Switch

Teed Switch			A = 02 G H = 0		
Auto switch No.	Load voltage	Max. load current and load current range (mA)	Application		
D-A72-A72H	200VAC	5~10	Relay, Sequence		
D-A73-A73H	24VDC	5~40			
	100VAC	5~20	controller		
D-A76H	-A76H 4~8VDC		IC circuit		
	24V AC or less	50	Relay, IC circuit		
D-A80-A80H	48V AC	40	Sequence		
	100VAC	20	controller		
D-A73C	24VDC	5~40	Relay, Sequence controller		
D-A80C	24V ac or less	50	Relay, IC circuit, Sequence controller		

Switch Mounting Kit

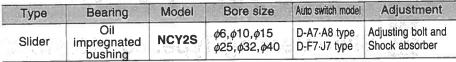
Bore size	P/N	Switches
All	NCD-M3	All Available Switches

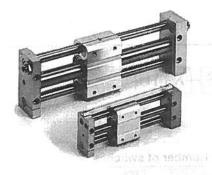
Solid S						
Auto Switch No.	Winng method Output method	rower source	Load voltage-Load current	Application		
D-F79	3 wire system (NPN)	5,12,24VDC	28VDC or less (150mA or less)	IC circuit, Relay.		
D-F7P	3 wire system (PNP)	(4.5~28VDC)	- (100mA or less)	Sequence controlle		
D-J79	2 wire system (-)	_	24VDC (10~28VDC) (5~150mA)	24VDC Relay, Sequence controlle		
D-F7NV	3 wire system (NPN)	5,12,24VDC	28VDC or less (150mA or less)	IC circuit, Relay,		
D-F7PV	3 wire system (PNP)		- (100mA or less)	Sequence controller		
D-F7BV	2 wire system (-)	_	24VDC (10~28VDC) (5~150mA)	24VDC Relay, Sequence controlle		
D-F7PW	3 wire system (PNP)	5,12,24VDC(4.5~28VDC)	- (80mA or less)	IC circuit, Relay, Sequence controller		
D-J79W	2 wire system	_	24VDC (10~28VDC) (5~40mA)	24VDC Relay, Sequence controller		
improved water resistance D-F7BAL	2 wire system	_	24VDC (10~28VDC) (5~40mA)	24VDC Relay,		
D-J79C	2 wire system (-)	_	24VDC (10~28VDC) (5~150mA)	Sequence		
D-F7LF	4 wire system	24VDC (20~26VDC)	26VDC or less (40mA or less)	controller		
D-F79F	(NPN)	5,12,24VDC(4.5~28VDC)	28VDC or less (40mA or less)	IC oirquit Polav		
With timer D-F7NTL	2 mire cunters		28VDC or less (80mA or less)	IC circuit, Relay, Sequence controller		

*A two-color display type auto switch (D-F79W) is mountable. Consult us when using it.

Series NCY2S







Specifications			1MPa=10.1972kgf/cm ²

Air				
152 psi {10.7kgf/cm²}				
101 psi {7.1kgf/cm²}				
26 psi {1.8kgf/cm²}				
14~140°F {-10~+60°C} 2~16 in/sec {50~400mm/s}				
Non-lube				
0~9.9st::0394, 10~39.4st::055, 39.5st~::07				
Horizontal				

^{*} When setting an auto switch (in case of NCDY2S) at the intermediate position, the detectable max, piston speed is subject to the response time of the load (relay, sequence controller, etc.)

Standard Stroke

Bore	Standard stroke (inch)	Manufacturable max. stroke (inch)
φ6	2, 3, 4, 5, 6, 8, 10	12
ø10	2, 3, 4, 5, 6, 8, 10	20
φ15	5, 10, 15, 20, 25, 30	30
φ25	5, 10, 15, 20, 25, 30, 40	violatina automi
φ32	5, 10, 15, 20, 25, 30, 40	60
040	5, 10, 15, 20, 25, 30, 40	

Longer strokes available as special order

1 kg=2.2 lbs

1N=0.101972kgf

Magnetic Holding Power (lbs)

Type of magnetic holding power	φ6	φ10	φ15	φ25	φ32	φ40
H type	4.85	13.33	33.95	89.70	145.50	227.94
L type		, <u> </u>	20.13	54.55	88.50	140.65

weign	tiable	Addition?			No.54560m2	2500	(lbs
Bore	size (mm)	25	32	40			
Bore s	size (inch)	1/4	3/8	5/8	1	1 1/4	1 1/2
Basic	NCY2B H	0.59	1.06	2.00	4.05	8.00	8.85
weight	NCY2B L	-16	M	1.87	3.85	7.67	8.46
	tional weight 1 in. stroke	0.048	0.084	0.117	0.192	0.300	0.454

Calculation method/Example: NCY2S32H-1050 Basic type, Bore 1.25 inch, stroke 10.5 inch

Main Parts

Description	Material	Note		
Plate A.B	Aluminum alloy	Anodized		
Cylinder tube	Stainless steel	714		
Guide rod	Carbon steel	Hard chrome		
Magnet	Rare earth metal magnet	Sun 167		
Slide block	Aluminum alloy	Anodized		

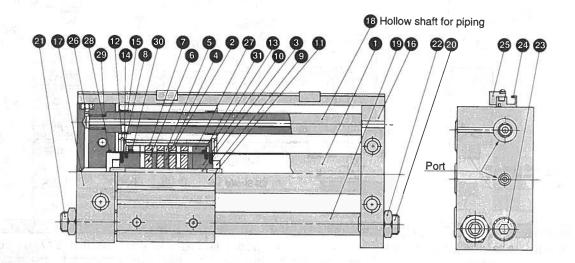
With shock absorber

See P.15 for the details of Series NCY2S.

Slider Type /Slide Bearing Series NCY2S

Construction/Parts List

NCDY2S25H



Parts List

No.	Description	Material	Note
0	Cylinder tube	Stainless steel	
2	External moving element side tube	Aluminum alloy	10
0	Shaft	Stainless steel	
4	Piston side yoke	Rolled steel	Zinc chromate
6	External moving element side yoke	Rolled steel	Zinc chromate
6	Magnet A	Rare-earth metal magnet	
0	Magnet B	Rare-earth metal magnet	
8	Bumper	Urethane rubber	100 - 100 - 100 MH
9	Piston nut	Carbon steel	Zinc chromate
1	Piston	*Bronze	
•	Slide block	Aluminum alloy	Hard alumite
P	Moving element spacer	Rolled steel	Nickel plating
1	Retaining ring	Carbon tool steel	Nickel plating

Parts List

No.	Description	Material	Note
1	Spacer	Rolled steel	Nickel plating
15	Bushing	Bearing material impregnated with oil	616
(B)	Plate A	Aluminum alloy	Hard alumite
•	Plate B	Aluminum alloy	Hard alumite
18	Guide shaft A	Carbon steel	Hard chromium plating
19	Guide shaft B	Carbon steel	Hard chromium plating
20	Adjusting bolt A	Chrome-Molybden steel	Nickel plating
2	Adjusting bolt B	Chrome-Molybden steel	Nickel plating
22	Hexagon nut	Carbon steel	Nickel plating
23	Hexagon socket head cap screw	Chrome-Molybden steel	Nickel plating
2	Switch mounting rail		- Francis
25	Auto switch		
25	Plug	Brass	Nickel plating

Brass in case of ø6 bore

Spare Parts/Exchange Parts

	Bore size	Bore size #6		ø10		ø15	ø15		d25		1000	ø40	
No.	Packing set No. CY2S6-F		CY2S6-PS CY2S10-F		PS	S CY2S15-PS		CY2525-PS		φ32 CY2S32-PS		CY2S40-PS	
	Description	Parts No.	pcs.	Parts No.	pcs.	Parts No.	pcs	Parts No.	pcs	Parts No.	pcs.	Parts No.	DCS.
0	Scraper holder	CY-006- 07-23536	2	CYB10- 36-A8009		CYS15-36- A8019	2	CYS25-36- A8021	-	CYS32-36- A8022		CYS40-36- A8023	
@	Cylinder tube gasket	C-8	2	C-12	2	C-17	2	C-27	2	C-34	2	C-42	2
2	Guide shaft gasket	C-6	1	C-8	1	C-7	1	C-8	1	C-12	1	C-18	1
30	Piston packing	DYP-6	2	DYP-10	2	PPY-15	2	PPY-25	2	PPY-32	2	SPY-40	2
•	Scraper		-	PDU-12Z	-	PDU-23×16	_	PDU-34×26	_		-	PDU-51×42	_

Applicable Grease (Soap group lithium grease with No.1 or No.2 consistency)

Grease name	Maker
Kyoseki Lisonix Grease No.1 Kyoseki Lisonix Grease No.2	Japan Energy
Lithtan No.1 Lithtan No.2 Lithtan EP1 Lithtan EP2	Esso Standard Sekiyu
Daphne Coronex Grease No.1 Daphne Coronex Grease No.2	Idemitsu Kosan
Diamond Multipurpose Grease No.1 Diamond Multipurpose Grease No.2	Mitsubishi Oil
Mobilux Grease No.1 Mobilux Grease No.2	Mobil Sekiyu

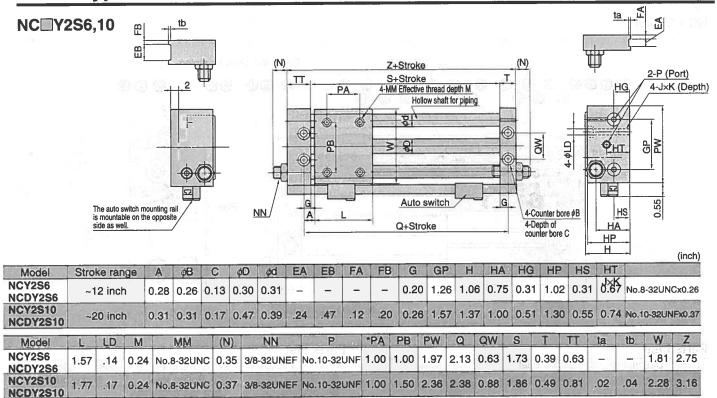
Grease name	Maker
Alvania Grease No.1 Alvania Grease No.2 Alvania EP Grease No.1 Alvania EP Grease No.2	Shell Sekiyu
Sunlight Grease No.2 Sunlight Grease EM1 Sunlight Grease EP1 Sunlight Grease EP2	Showa Sekiyu
Dynamic Grease MP1 Dynamic Grease MP2 Dynamic Grease S1 Dynamic Grease S2	Daikyo Sekiyu

10 40	2.6/2/6/24
Grease name	Maker
Kosmo Grease Dynamax No.1 Kosmo Grease Dynamax No.2	Kosmo Oil
Fukkol Multipurpose Grease No.1 Fukkol Multipurpose Grease No.2	Fuji Kosan
Multinoc Grease No.1 Multinoc Grease No.2 Epnoc Grease No.1 Epnoc Grease No.2	Nippon Oil
Gemico Grease MP-1 Gemico Grease MP-2 Gemico Grease MH-1 Gemico Grease MH-2	General Sekiyu

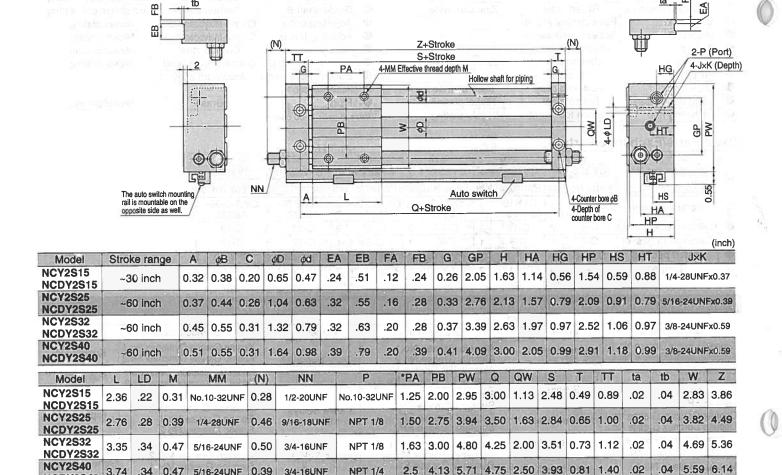
Note 1) The greese name No. shows the consistency.

Series NCY2S

Slider Type: Dimensions



*The PA's dimension is symmetrical at the center. NC Y2S15,25,32,40

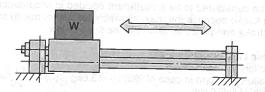


NCDY2S40

Slider Type

Application Information

Horizontal operation (Mounted on floor)



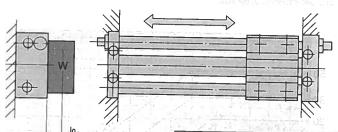
Max. live load (Center of slide bloc	Max.	ive load	(Center	of slide	block
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Bore size	φ6	φ10	φ15	φ25	φ32	<i>ø</i> 40
W (kg)	1.8	3.0	7.0	20.0	30.0	50
Stroke (MAX)	12 in.	20 in.	30 in.	60 in.	60 in.	60 in.

Basic design value: Those of the max. allowable load are 60% of the max. thrust (P=0.7MPa).

However, the above load is subject to the stroke length in case of every cylinder size due to the limit for deflection of the guide shaft. (Be careful of coefficient a.) In case of some operational direction, the allowable load may be different from the basic design value.

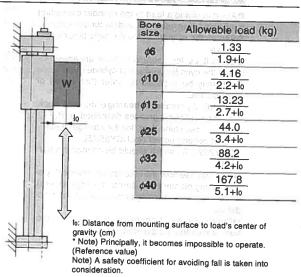
② Horizontal operation (Mounted to wall)



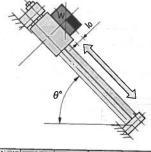
lo: Distance from mounting surface to load's center of gravity (cm)

Bore	Allowable load (kg)
# 66	α.5.44
	7+2lo
φ10	α-12.0
	8.4+210
ø15	α-36.4
φιο	10.6+2lo
φ25	α-140
ΨΣΟ	13.8+210
ø32	α-258
W32	17+2lo
ø40 D	α·520
φ - +υ	20.6+2lo

Vertical movement



Inclined operation (Operational direction)



Angle	~45°	~60°	~75°	~90°
k	. 1	0.9	0.8	0.7

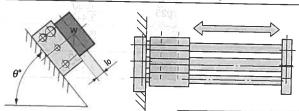
[~60°]=0.9, [~75°]=0.8, [~90°]=0.7

lo: Distance from mounting surface to load's center of gravity (cm).

Allowable load (kg) α·5.1·K φ6 3cosθ+2(1.9+l₀)sinθ α·10.5·K ø10 3.5cosθ+2(2.2+l₀)sinθ α-35-K **\$15** 5cosθ+2(2.7+l₀)sinθ $\alpha \cdot 120 \cdot K$ **\$25** 6cosθ+2(3.4+lo)sinθ α.210.K **\$32** 7cosθ+2(4.2+l₀)sinθ α-400-K 8cosθ+2(5.1+l₀)sinθ

Series NCY2S

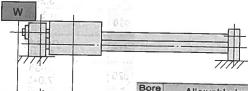
(Vertical to operational direction)



lo: Distance from mounting surface to load's center of gravity (cm)

Bore size	Allowable load (kg)
ø6	α-5.44
ALC: N	3.2+2(1.9+l₀)sinθ
ø10	α.12.0
ψισ	4+2(2.2+l₀)sinθ
415	α.36.4
φ15	5.2+2(2.7+l ₀)sinθ
φ 2 5	α.140
ψευ	7+2(3.4+l ₀)sinθ
422	α-258
φ 32	8.6+2(4.2+l ₀)sinθ
φ 4 0	α·520
ΨΨ	10.4+2(5.1+l ₀)sinθ

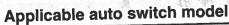
The load's center of gravity is offset in the operational direction. (I)

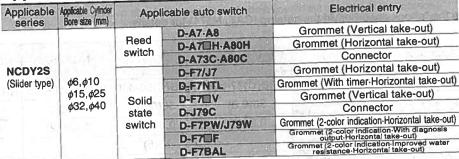


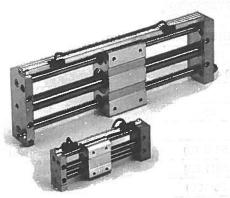
lo: Distance from mounting surface to center of slide block (cm)

Bore	Allowable load (kg)
φ6	<u>α⋅2.55</u>
φ10	α·5.25 lo+3.5
φ15	<u>α·17.5</u> lo+5.0
φ25	<u>α⋅60</u> lo+6.0
ф32	<u>α·105</u> lo+7.0
φ 40	α·200 l₀+8.0

Series NCY2 Auto Switch Specifications







Reed switch/Rail mount type

Auto switch model	Load voltage	Max. load current and load current range mA	Indicator lamp (ON: Lit)	Contact protection circuit	Applications	
D-A72-A72H	200VAC	5~10	None			
D-A73 D-A73H	24VDC	5~40			Relay, Sequence controller	
	100VAC	5~20	nizi inaj	None	Alegasone n	
D-A80 D-A80H	24V AC or less	50		-0-1	IC circuit, Relay	
	48V AC	40	None	None	Sequence controller	
	100V AC	20	aproximation (Fig.		Controller	
D-A76H	4~8VDC	20	None		IC circuit	
D-A73C	24VDC	5~40) • None		Relay, Sequence controller	
D-A80C	24V AC or less	50	None	None	IC circuit, Relay, Sequence controlle	

Solid state switch/Rail mount type

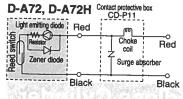
Auto switch model	Wiring method Output method	Power voltage	Load	Internal voltage drop Load current in case of 10mA	Indicator lamp (ON: Lit)	Applications	Function	
D-F79	HIGHIOO		150mA or less	0.8V or less	•	IC circuit, Relay, Sequence controller	_	
D-F7NV	3 wire	stem PN	150mA or less	0.8V or less	•	IC circuit, Relay,	Lead wire: Vertical take-out	
D-F7NTL	NPN		80mA or less			Sequence controller	With 200ms off- delay timer	
D-F7P		5,12,24 VDC (4.5~28VDC)	100mA or less	0.8V or less		IC circuit, Relay, Sequence controller	TOTAL BANK	
D-F7PV	3 wire system	em	100mA or less	0.8V or less	•		Lead wire: Vertical take-out	
D-F7PW	PNP		80mA or less	0.8V or less	0		2-color indication	
D-J79			5~150mA	3V or less	•	p=d \ 811W	Caster, V	
D-J79C			2 wire _ 5~150n	5~150mA	3V or less		a (UDO Balan)	Connector type
D-F7BV	2 wire			5~150mA	3V or less	6 •	24VDC Relay, Sequence controller	Lead wire: Vertical take-out
D-F7BAL	1			5~40mA	4V or less	s		Improved water resistance
D-J79W			5~40mA	4V or less	s		2-color indication	
D-F79F	4 wire	5,12,24 VDC (4.5~28VDC)	40mA or less	0.8V or les	s 💿	IC circuit, Relay, Sequence controlle		
D-F7LF	system	24 VDC (20~26VDC)	40mA or less	0.8V or les	s o	24VDC Relay, Sequence controlle	With latch type diagnosis output	

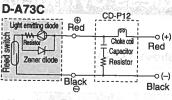
Two-color display type

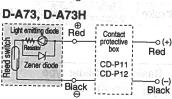
Series NCDY2

Auto switch/Internal circuit

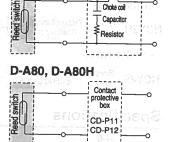
Reed switch



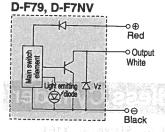


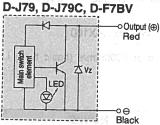


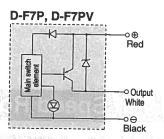
D-A76H Red ⊕ Resistor White ⊕ Load Diode to prevent supply Black ⊕ D-A80C CD-P12



Solid state switch







Mounting interchange ability with reed switch. It is possible to change type of switch because of its mounting compatibility.

Solid state switch	Reed switch
D-F7□type } ←	→ D-A7 type

Contact protective box/CD-P11,CD-P12

The auto switches of D-A7-A8 type, D-A7 H-A80H type, D-A7 C-A80C type, D-C7-C8 type are not incorporated with contact protective circuit.

- Operating load in an inductive load.
- The wiring length to load is 5m or more.
- The load voltages are 100 or 200VAC. Either voltage should be used with the contact protective box.

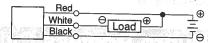
Contact protective box of specifications

Part No.	CD-	CD-P12 C 24VDC	
Load voltage	100VAC 200VA		
Max. load current	25mA	12.5mA	50mA

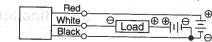
Lead wire length—Switch connecting side 0.5m
Load connecting side 0.5m

How to connect solid state switch

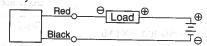
3 wire system (When power source for switch and load is commom)



3 wire system (When power source for switch and load is not common)



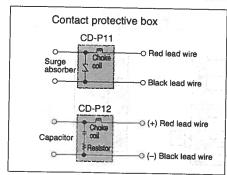
2 wire system



Red lead wire: Connect to the power source ⊕
(power source terminal) to operate main circuit of switch. In case of 2 wire systems connect with ⊖ side of load.

White lead wire: Connect to load (to the input of sequence controller and outlet relay)
Black lead wire: Connect to the power source (

Contact protective box/Internal circuit



Contact protective box/Connection method

For connection of the switch body and the contact protective box, connect the load in the side indicated as switch on the contact protective box to the lead from the switch body. The length of lead between the switch body and the contact protective box should be with-in 1m and they should be set as close as possible.

Precautions

Solid state switch

- Load over the maximum load capacity of the switch should not be used.
- The switch should not be connected to the power supply until after connection to the load.
- All switch types have functions to protect against incorrect connection, output short or over load in order to prevent damage of the switch. Since incorrect wiring may cause problems on the load side, caution should be exercised when wiring.
- Since a D.C. 2 wire system auto switch is 3V or less in the internal voltage drop and 1mA or less in the leak current, it satisfies the input specification of most sequence controllers. If some trouble arises, a D.C. 3 wire system should be used.

___ Precautions

Reed switch

Contact capacity

 Loads over the maximum contact capacity of the switch should not be used.

Fuji Electric	Omron	Matsushita Electric	
HH5 type	MY type	HC type	
Tokyo electric	Idec Izumi	Mitsubishi Electric	
MPM type	RM type	RD type	

Wiring/current-voltage

- Auto switch: connect first a load and then connect the power source.
- The switches with 24VDC, indicator lamp have polarity. The red lead is (+) and the black lead is (-). [In case of D-97 type, the no-display side is (+) and the black-line-display side is (-).] The reverse connection allows the switch to operate but the light emitting diode does not light. If the current exceeds the specification failure may occur.

Applicable model: D-A73, A73H, A73C, E73A,Z73/D-97,93A,A79W/D-A33, A34, A33A, A34A, A44,A44A/D-A53, A54, B53, B54

- Switch with indicator lamp (without A76H)

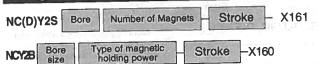
 If using less than a specified current, the light emitting diode goes to dark light or does not light, but operation of the switch is possible.
- 2) If the switches are connected in series as shown in the following figure, it makes voltage drop larger by the internal resistance of the light emitting diode (Refer to the internal resistance voltage in the auto switch specification).
- 3) If using less than a specified voltage, the load may not operate due to the internal voltage drop of switch even. In voltage drop, the allowable voltage range of load should be confirmed.
- If an internal resistance of the light emitting diode causes trouble, the switches with no indicator lamp (D-A8) should be used. 17

Series NCY2

Specifications for made to order models

Contact SMC for the details of dimensions, specifications, and date of delivery.

High Speed Rodless Cylinder



High speed drive with a piston speed of 1500mm/s (basic type) is possible. (When without load)

Specifications

Applicable series	NCY2B φ25~φ40		
Bore size (mm)			
	Basic 2 ~ 60 in/s (50 - 15000mm/s)		
Piston speed (when without load)	Slider 2 ~ 40 in/s (50 ~ 1000mm/s)		

Note 1) When operating this cylinder at high speed, be sure to provide a shock absorber. Note 2) The standard type of CY1S and CY1L can produce max. piston speed of 1000mm/s. Note 3) Bores 6 ~ 15 (basic type) are fully ported and do not require the x160 option.

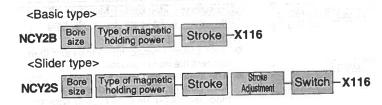
Low Speed Rodless Cylinder

<basic< th=""><th>type:</th><th>></th><th></th><th></th><th></th></basic<>	type:	>			
NCY2B	Bore size	Type of magnetic holding power	Stroke	-XB13	
<slide< th=""><th>r type</th><th>></th><th>AND AND AND AND AND AND AND AND AND AND</th><th>de de</th><th>ilia (**-</th></slide<>	r type	>	AND	de de	ilia (**-
NCY2S	Bore size	Type of magnetic holding power	Stroke	Stroke Adjustment	Switch - XB13

Specifications

Туре	Basic type, Slider type		
Bore size	Basic type NCY2B6~40 Slider type NCY2S6~40		
Fluid	uo, 19-00 kod a Air tan Sassa		
Piston speed	As 1 20gyr 24 TA 07~50 mm/s 2 44		

Air Hydro Rodless Cylinder

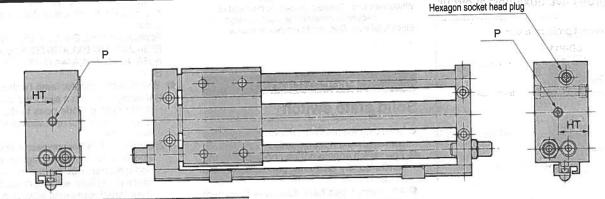


Specifications

Type	Basic type, Slider type		
Bore size	Basic type NCY2B25~40 Slider type NCY2S25~40		
Fluid	Hydraulic fluid		
Piston speed	apa machina a 15~300mm/s		

Note) Piping is from each plate on both sides

Dimensions



Model	HT	P	Restriction diam	
NCY2S25	20	Rc(PT)1	7.5	
NCY2S32	24	nc(FT)T		
NCY2S40	25	Rc(PT) 1/4	10	

Limited Cylinder Warranty — Terms and Conditions of Sale...

SMC Pneumatics, Incorporated (SMC) warrants that for 18 months or 1800 service miles*, whichever occurs first, from date of purchase it will replace, or make adjustment at SMC's option, of any defective cylinder product sold if the cylinder product is returned with SMC's prior written consent, transporation prepaid by the original buyer, and received by SMC at its place of business in Indianapolis, Indiana within the warranty period.

SMC shall have the right to inspect, prior to return, at the buyers facility, any products claimed to be defective.

This warranty is limited exclusively to cylinder products which, in the opinion of SMC, have not been subjected to modification, misuse, negligence, misapplication, repairs or alterations. Damage caused by fire, theft, riot, explosion, or acts of God

are excluded from this warranty. The foregoing constitutes the sole exclusive remedy of the buyer and the only liability of SMC and is in lieu of any and all other warranties, expressed or implied, or statutory as to merchantability, fitness for purpose sold, description quality, productiveness or any other matter. SMC shall not be liable for loss of use, or profit, of special or consequential damages.

SMC assumes no responsibility for engineering or technical advice pertaining to any manufactured item to which SMC's products or goods have been attached. No agent, employee, distributor, or representative of SMC has the authority to extend the scope of this warranty or to make any other promises, warranties or guarantees concerning the manufacture, sale or application of SMC's products.

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