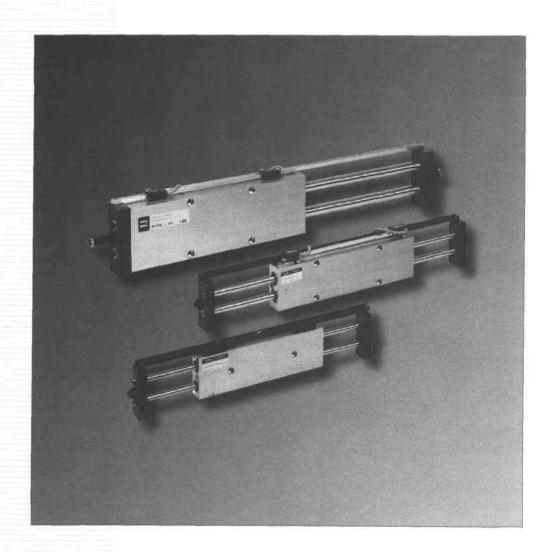


Air Cylinder

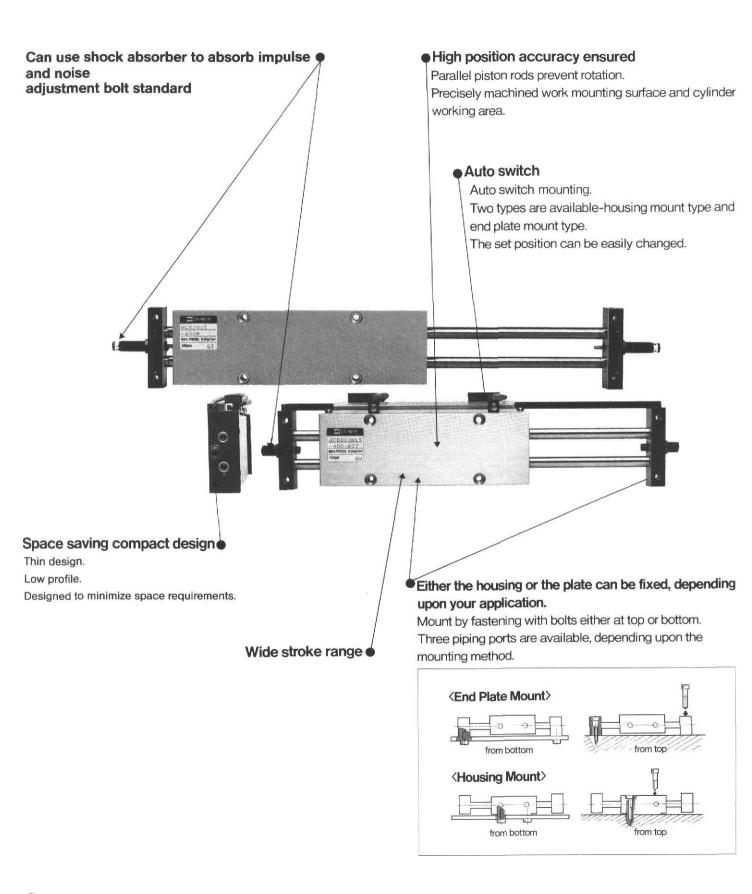
NCX2 Series

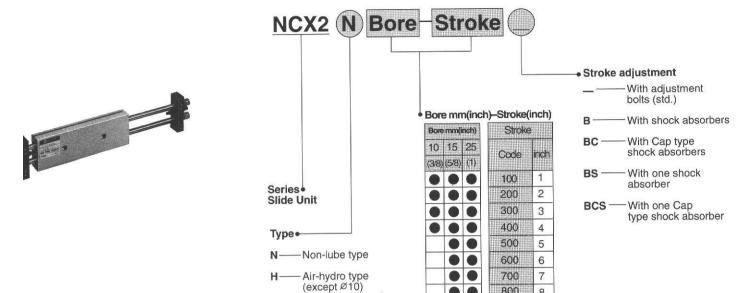
Slide Unit

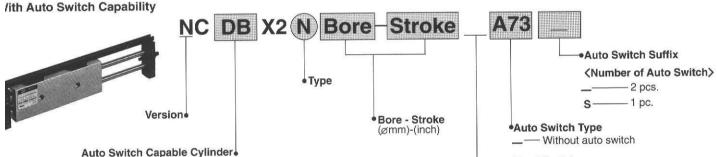


Highly Accurate Positioning
Dual Mounting Options
Wide Stroke Range (1" ~ 8")
Auto Switch Mounts on Housing or End Plate
Stroke Adjustment is Standard

Highly accurate positioning. Ideal for robotic applications.







BCS-

Stroke adjustment With adjustment bolts (std.)

> -With Cap type shock absorbers With one shock absorber

-With one Cap type shock absorber

With shock absorbers

Special order only

Applicable Shock Absorbers

Slide Unit	Shock Absorber/Cap Type		
NCX2N10			
NCDBX2N10	NRB031-025/NRBCO31-025		
NCDPX2N10			
NCX2N15			
NCDBX2N15	NRB031-025/NRBCO31-025		
NCDPX2N15			
NCX2N25			
NCDBX2N25	NRB050-030/NRBC050-030		
NCDPX2N25			

To Order Switch Rail Separately

Model	Bore	Part No.	Switch Mounting Kit A7•, A8•, F7•, J7•
NCDBX2	10	RCBX10-O	
NCDBX2	15	RCBX15-O	
NCDBX2	25	RCBX25-○	NCD-M3
NCDPX2	10	RCPX10-O	TVOD-IVIO
NCDPX2	15	RCPX15-O	
NCDPX2	25	RCPX25-○	

DB—Auto Switch/Housing mount **DP**—Auto Switch/End plate mount

Reed Switch

800

8

A72	D-A72	
A73	D-A73	
A80	D-A80	
A73C	D-A73C	Housing mount
A80C	D-A80H	End plate mount
A72H	D-A72H	
A73H	D-A73H	
A76H	D-A76H	
A80H	D-A80H	
E73A	D-E73A	NCDBX2N10 only
E76A	D-E76A	(Housing mount NCDBX2N10 must use
E80A	D-E80A	this style switch)

Solid State

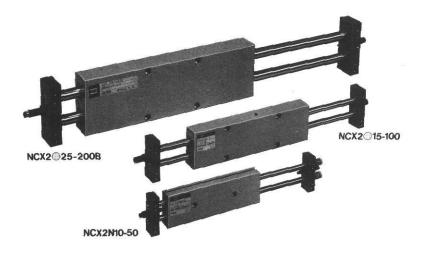
F79	D-F79	3 Wire			
F7NV	D-F7NV	3 Wire NPN			
F7NTL	D-F7NTL	INFIN	Housing		
F7P	D-F7P	3 Wire	Mount		
F7PV	D-F7PV	PNP	Ø15,Ø25		
F7PW	D-F7PW				
F7BV	D-F7BV		End Plate Mount		
J79W	D-J79W	2 Wire			
F7BAL	D-F7BAL		Ø10,Ø15,Ø25		
J79C	D-J79C	Connector	210,210,220		
F79F D-F79F		4 Wire			
F7LF	D-F7LF	NPN			

% Suffix L for lead wire exceeding 10 ft. (3m) length. (Ex.) 73L-D-73L Note: 3m lead standard on D-F7BAL & D-F7NTL.

⁼ specify stroke (ex: 100=1", 200=2", etc.) includes two mounting screws

SMC

Slide Unit Series NCX2



Specifications

Type		Non-lube type	Air-hydro type**		
Fluid		Air	L.P. Oil		
Proof pressure		220PSI(15kgf/cm²)			
Max. operating pressure		140PSI(9	.9kgf/cm²)		
	NCX2N10	22PSI(1.5kgf/cm²) —			
Min. operating pressure	NCX2@15	22PSI(1.	5kgf/cm²)		
	NCX2@25	15PSI(1kgf/cm²)			
Ambient and operating fluid temperature		40~140°F(5-60°C)			
Piston speed		1.2 8.0 inch/sec	See list below		
Cushion		Optional shock absorber available			
Stroke adjustment range		+0.08~ -1.00 inch of standard stroke			
	NCX2N10	2.2lb(1kgf)			
(*) Max. load	NCX2@15	6.6 lb	(3kgf)		
	NCX2@25	13.2lb	(6kgf)		
	NCX2N10	±	0.1°		
Non-rotating accuracy at zero extension	NCX2@15	±0	.04°		
	NCX2@25	±0.02°			

^{*}Please position the center of gravity of the load and the slide unit as close as possible. If this is not possible, contact SMC Representative.

Standard Stroke List

	Stan	Standard stroke (inch)						
Model		2	3	4	5	6	7	8
UCVOLHO	0	0	0	0	-	_	-	1-
NCX2@15	-	•	0	0	0	0		0
NCX2@25			0	0	0	0	0	0

Theoretical Cylinder Force

Model	Rod dia Pressure area		Operating pressure						PSI	
Model	inch (mm)	inch² (cm²)	30	50	80	100	120	140	150	
NCX2N10	0.24(6)	0.16(1.01)	4.8	8.0	12.8	16.0	19.2	22.4	24.0	
NCX2@15	0.31(8)	0.40(2.07)	12.0	20.0	32.0	40.0	48.0	56.0	60.0	
NCX2@25	0.55(14)	0.91(5.97)	27.3	45.5	72.8	91.0	109	127	136	

Piston Speed/Air-Hydro Type

Model End plate mounted Housing mounted					
NCX2H15	*	0.2~2 inch/sec			
NCX2H25	0.2~1.6 inch/sec	0.2~4 inch/sec			

^{*} Plate type in low pressure hydraulic operation allows low speed piston speed only due to internal flow restriction.

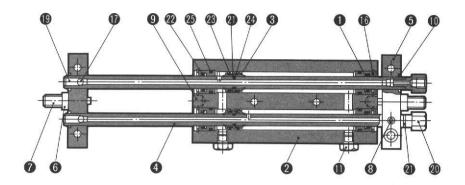
Weight Chart

weight Chart								IDS	
	Standard stroke (inch)								
Model	1	2	3	4	5	6	7	8	
NCX2N10	0.44	0.56	0.67	0.78	_	_	-	T-	
NCX2@15	0.53	0.76	1.02	1.27	1.51	1.76	2.00	2.24	
NCX2@25	2.05	2.53	3.00	3.49	3.98	4.44	5.07	5.42	

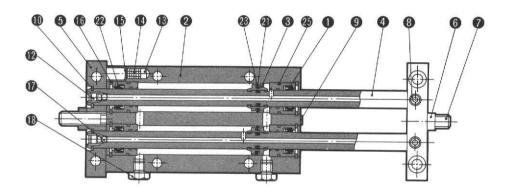
^{*}Special order only.

Construction

NCX2N10



NCX2 15 NCX2 25



Parts List

No.	Description	Material	Note
0	Rod cover	Aluminum bearing alloy	
2	Housing	Aluminum alloy	Hard alumite
3	Piston	Aluminum alloy	Chromate
0	Piston rod	Carbon steel	Hard chromium plating
6	Plate	Aluminum alloy	Black hard alumite
0	Lock nut	Carbon steel	Black zinc chromate
0	Adjusting bolt	Chromium steel	Black zinc chromate
8	Set screw (for fixing rod)	Chromium steel	Black zinc chromate
9	Pin	Hi-carbon chromium bearing steel	Hardened
0	Retaining ring	Carbon tool steel	Black zinc chromate
0	Plug	Brass	
Ø	Blank plug	Chromium steel	Black zinc chromate
B	Magnet	Rare-earth magnet	
(Spring	Stainless steel	
D	Retaining ring	Carbon tool steel	
(Retaining ring	Carbon tool steel	Nickel plate

Parts List

No.	Description	Material	Note -
•	Steel ball	Hi-carbon chromium bearing steel	
20	Socket	Carbon steel	Electroless plating
4	Gasket	NBR	

Seals List

No.	Description	Material	Kit Qtv.	Seal Kit
22	Rod Seal		4	NOVONAO DO
23	Piston Seal	NBR	4	NCX2N10-PS
24	Piston Gasket	INDIN	0	NCX2N15-PS
25	Cylinder tube gasket		4	NCX2N25-PS

Note: 2 Piston Seals on 15 & 25 Bores



Applicable Cylinder & Switch Type

Mounting	Bore inch (mm)	Switch	Indicator light	Electrical entry
	0.47-40	D-E7OA		
Housing 0.6	0.4 (ø10)	D-E8QA		
		D-A7 🔘	0	
	0.6(ø15)	D-A8 🔾	_	7_
	1.0(ø25)	D-F7 🔾	0	Grommet [length of lead wire: 1.5 ft (0.5m) standard, 10 ft (3m) option
		D-J7 ()	0	
	0.4(-40)	D-A7 🔾	0	
End plata	0.4(ø10) 0.6(ø15)	D-A8 (-	
	1.0(ø25)	D-F7 🔾	0	
	1 ()	D-J7 🔘	0	

Auto Switch Specifications

Model Number	Load Voltage	Load Current	Normally Open	Protection Circuit	Application		
D-A72•A72H	200VAC	5 ~ 10mA	0	No			
D-A73 D-A73H D-E73A	24VDC	5 ~ 40mA		N.	Relay, PLC		
	100VAC	5 ~ 20mA		No			
	24VAC/VDC or less	Max. 50mA	0				
D-A80 D-A80H D-E80A	48VAC/VDC	Max. 40mA		No	IC Circuit, Relay, PLC		
D-E00A	100VAC/VDC	Max. 20mA					
D-A76H D-E76A	4~8VDC	Max. 20mA	0	No	IC Circuit		
D-A73C	24VDC	5 ~ 40mA	0	No	Relay, PLC		
D-A80C	24VAC/VDC or less	Max. 50mA	0	No	IC Circuit, Relay, PLC		
Response time		1.2 ms					
Shock rating		30G					
Temperature ra				0° F(5 ~ 60°C)			

Please use the contact protection box for induction load, or 110VAC, or length of lead wire exceeding 16ft (5m).

Solid State Type

Model Number Type		Power Source	Load Voltage	Load Current	Application			
D-F79	3 Wire NPN	5, 12, 24VDC	28VDC or less	Max. 40mA	IC Circuit, Relay,			
D-F7P	3 Wire PNP	(4.5~28VDC)		Max. 80mA	PLC			
D-J79	2 Wire		24VDC (10~28VDC)	5 ~ 40mA	24VDC Relay, PLC			
D-F7NV	3 Wire NPN	5, 12, 24VDC	28VDC or less	Max. 40mA	IC Circuit, Relay,			
D-F7PV	3 Wire PNP	(4.5~28VDC)		Max. 80mA	PLC			
D-F7BV	2 Wire		24VDC (10~28VDC)	5 ~ 150mA	24VDC Relay, PLC			
D-F7PW	3 Wire PNP	5, 12, 24VDC (4.5~28VDC)		Max. 80mA	IC Circuit, Relay, PLC			
D-J79W	2 Wire		24VDC (10~28VDC)	5 ~ 40mA	24VDC Relay, PLC			
D-F7BAL	2 Wire		24VDC (10~28VDC)	5 ~ 40mA				
D-J79C	2 Wire		24VDC (10~28VDC)	5 ~ 40mA	24VDC Relay, PLC			
D-F7LF	4 Wire NPN	24VDC (20~26VDC)	26VDC or less	Max. 40mA	PLO			
D-F7NF	4 WIIE INFIN	5, 12, 24VDC (4.5~28VDC)	28VDC or less	Max. 40mA	IC Circuit, Relay			
D-F7NTL	3 Wire NPN	5, 12, 24VDC (4.5~28VDC)	28VDC or less	Max. 80mA	PLC			
Response	time		1 ms or le	ess				
Shock Rati	ng		500					
Insulation		50 M Ω or more at 500 VDC (between case and cable)						
Temperatur	re range		14 ~ 140° F (-10) ~ 60°C)				

Contact Protection Box

)-A7, D-A8, D-E7, & D-E8 type switchs have no built-in contact protection circuit. Jse this box for induction load; 16ft (5m) or nore lead wire length, or 110VAC.

art No.	Operating voltage	Length of lead wire
CD-P11	110VAC 220VAC	Switch connection side 1.5ft (0.5m)
D-P12	24VDC	Switch connection side 1.5ft (0.5m)

>A8 and D-E8 type switches are used for 110VAC or less, ince there is no voltage limitation, you can select a suitable nodel for your needs.

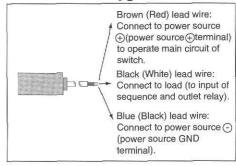
Operating Instructions

- •Reed switches which have indicator lights are polarized (light emitting diodes). Brown (red) lead wire is (+), and Blue (black) lead wire is (—). When connection is reversed, switch will operate, but indicator light will not go on.
- Electrical current should be kept within the operating current range. When used at current levels less than the operating current range, the indicator light will not turn on, and if operated in excess of the operating current range, the indicator light will be damaged.
- Switch types 72 and 73 can be connected in parallel, but series connections cause large voltage drops due to the internal resistance in the LED. (Approx. 2V/switch).

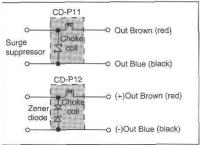
Mounting

- Always connect switch to load before turning on power.
- When shipping, please avoid dropping, nicks, and excessive shock.
- Avoid use in magnetically contaminated areas.
- Prevent repeated bending of wires.

Switch Connection/ Solid State Type



Contact protection box/Internal circuit



Solid State Wiring Method

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



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



2 wire system

———E	Brown (Red)⊖ Load ⊕	-
	Load	
1	Blue (Black)	J

Brown (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.

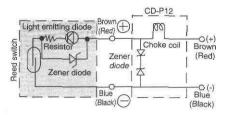
Black (White) lead wire: Connect to load (to the input of sequence controller and outlet relay)

Blue (Black) lead wire: Connect to the power source ⊖.

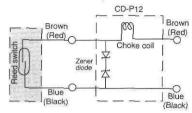
Series NCDX2

Switch Circuit

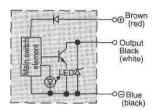
D-A73, D-A73H, D-A73C



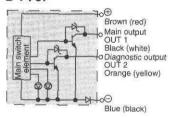
D-A80, D-A80H, D-A80C



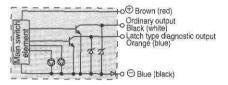
D-F7NTL, D-F7NV, D-F79 (Solid state type)



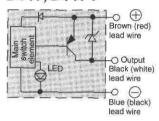
D-F79F



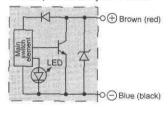
D-F7LF



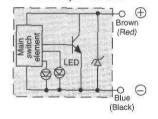
D-F7P, D-F7PV



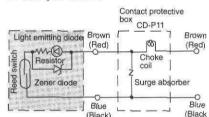
D-J79, D-J79C, D-F7BV



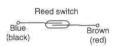
D-F7BAL, D-J79W



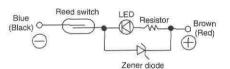
D-A72, D-A72H



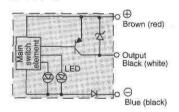
D-E80A



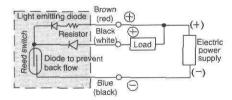
D-E73A



D-F7PW

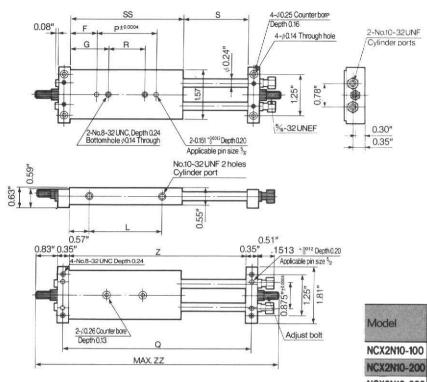


D-A76H, D-E76A



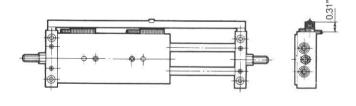
inch

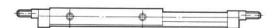
sic type

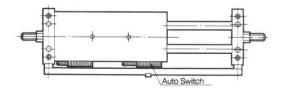


Model	F	G	L	Ρ	Q	R	S	SS	Z	Adjust bolt 22
NCX2N10-100	0.73	0.98	1.55	1.25	4.13	0.75	1.08	2.70	3.78	6.14
NCX2N10-200	1.23	1.48	2.55	1.25	6.13	0.75	2.08	3.70	5.78	8.14
NCX2N10-300	1.10	1.35	3.55	2.50	8.13	2.00	3.08	4.70	7.78	10.14
NCX2N10-400	1.60	1.85	4.55	2.50	10.13	2.00	4.08	5.70	9.78	12.14

With Auto switch, Housing mount type: NCDBX2N10-Stroke

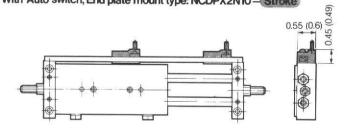




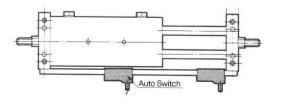


Note: This diagram is for D-E7 or D-E8 type.

With Auto switch, End plate mount type: NCDPX2N10 - Stroke

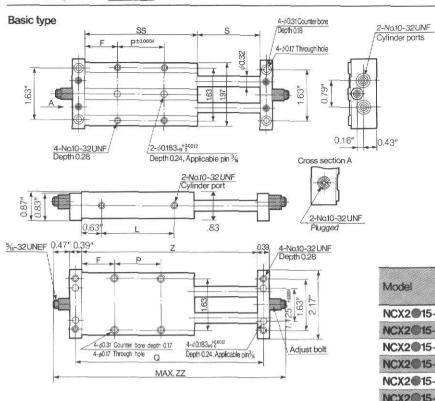






Note: This diagram is for D-A7 or D-A8 type. (): Dimension with D-F7 or D-J7 type.

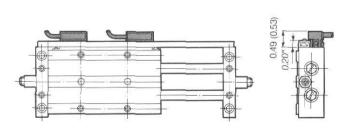
NCX2 15-Stroke/Dimensions

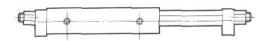


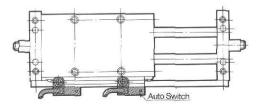
Model	F		D	o	s	SS	z	Adjus bolt
Wickie	ľ	-	ľ	•			-	ZZ
NCX2@15-100	1.02	1.52	0.75	4.25	1.08	2.78	3.86	5.98
NCX2@15-200	1.14	2.52	1.50	6.25	2.08	3.78	5.86	7.98
NCX2@15-300	1.64	3.52	1.50	8.25	3.08	4.78	7.86	9.98
NCX2@15-400	1,39	4.52	3.00	10.25	4.08	5.78	9.86	11.98
NCX2@15-500	1.89	5.52	3.00	12.25	5.08	6.78	11.86	13.98
NCX2@15-600	2.39	6.52	3.00	14.25	6.08	7.78	13.86	15.98
NCX2@15-700	2.89	7.52	3.00	16.25	7.08	8.78	15.86	17.98
NCX2@15-800	3.39	8.52	3.00	18.25	8.08	9.78	17.86	19.98

0.43"

With Auto switch, Housing mount type: NCDBX2 15-Stroke

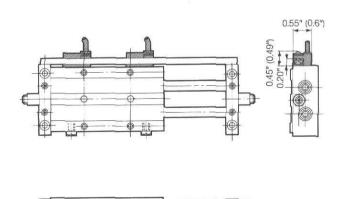


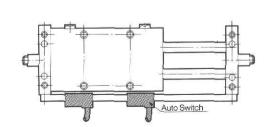




Note: This diagram is for D-A7 or D-A8 type. (): with D-F7 or D-J7 type.

With Auto switch, End plate mount type: NCDPX2@15-Stroke

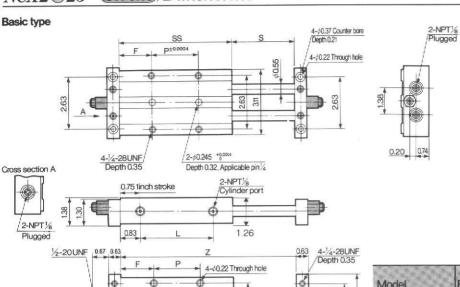




Note: This diagram is for D-A7 or D-A8 type. (): with D-F7 or D-J7 type.

inch

NCX2 25-Stroke/Dimensions

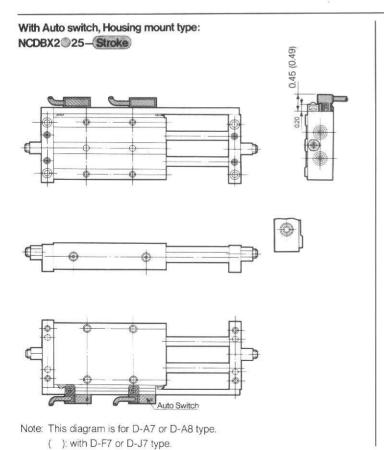


2.63

4-φ0.245 +0.0014

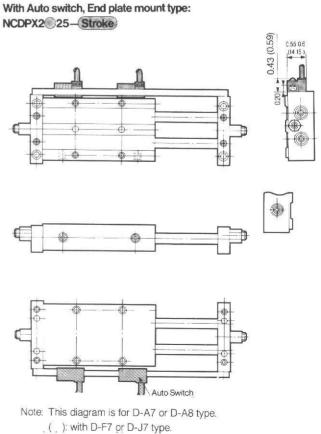
Depth 0.32 , Applicable pin 1/4

Model			P	Q	S	SS	Z	Adjust bolt 22
NCX2@25-100	1.15	1.80	1.00	5.00	1.08	3.29	4.37	6.97
NCX2 25-200	1.15	2.64	2.00	7.00	2.08	4.29	6.37	8.97
NCX2@25-300	1.65	3.64	2.00	9.00	3.08	5.29	8.37	10.97
NCX2©25-400	1.65	4.64	3.00	11.00	4.08	6.29	10.37	12.97
NCX2@25-500	2.15	5.64	3.00	13.00	5.08	7.29	12.37	14.97
NCX2 25-600	2.65	6.64	3.00	15.00	6.08	8.29	14.37	16.97
NCX2@25-700								
NCX2 25-800	3.65	8.64	3.00	19.00	8.08	10.29	18.37	20.97



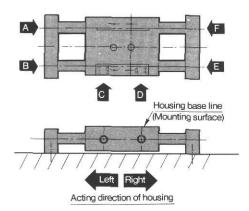
4-φ0.37 Counter bore depth 0.21 4-φ0.22 Through hole

e Q [MAX.ZZ



Acting Direction For Each Pressure Port

Acting directions of housing when end plate area is fixed.

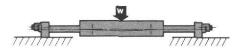


Pressure port	A	В	С	D	E	F
Acting direction of housing	Right	Left	Left	Right	Left	Right

^{*9} piping patterns are available

Piston Rod Deflection (Reference Factor)

For a concentrated load at the center of housing.



Deflection × 10⁻³ inch

			CHOCHOTI- TO THOT
Model	Load (lb)	oke (inch) 4	8
NCX2NIO	2	2.8	
NCX2@15	6	3.2	11.0
NCX2@25	13	6.0	3.2

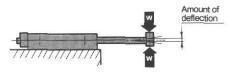
For a concentrated load at the center of the end plate.

Operating Instructions

- When plumbing, pipe and fittings should be thoroughly flushed with clean air before connecting.
- 2Please use filtered compressed air.
- 3 Please avoid scratches, nicks, etc, on the sliding surface area of the piston rod. These are liable to cause damage to seals, resulting in air
- Prevent nicks, scratches, etc. on housing mounting area and plate mounting area of both sides. Such damage will affect the flatness of the mounting area.
- When mounting housing, take care not to bend or distort the piston rod. this can cause high operating friction and promote wear of the bearing area, leading to inaccuracy and air leakage.
- 6 Always tighten the lock-nut to prevent loosening after adjusting the stroke on either end.
- No lubrication is required, however, if required, use turbine oil #1 (ISO VG32). Machine oil or spindle oil is not recommended.

(Air-Hydro type)

- DL.P. Oil: Use turbine oil #1 (ISO VG 32) or equivalent. Machine oil or spindle oil is not recommended.
- Prevent entrapment of air when supplying oil. The air-hydro type has no built-in air relief valve, therefore, port connection should be loosened before operation to bleed air.



Deflection × 10-3 inch

		Delicetion	THO HIGH		
Model	Load (lb)	Stroke 2		6	8
NCX2N10	0.5	2.4	11.8	_	-
NCX2@15	1.0	3.5	8.7	14.7	39.4
NCX2@25	00	1.2	3.5	6.3	9.8

Note: Values are the total amount of vertical deflection.

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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, transportation prepaid by the original buyer, and received by SMC at its place of business in Indianapolis, Indiana within the warranty period.

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^{*}Service Miles = (inches/stroke) x (2 strokes/cycle) x (no. of cycles) x 1 mile 63.360 inches

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