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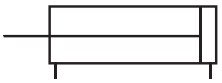
SERIES NCJ2
BORE SIZES Ø6•10•16

- Double Acting Single Rod / Double Rod
- Single Spring Return / Extend
- Compact and Lightweight
- Auto Switch Sensing Optional
- Non Rotating Piston Rod Optional
- High Accuracy Mounting

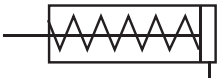
MADE IN USA

SYMBOLS

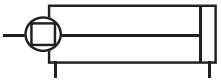
Double Acting/Single Rod



Single Acting/Spring Return



Double Acting/Single Rod Non-Rotating



HOW TO ORDER
NCJ2 STANDARD DOUBLE ACTING SINGLE ROD CYLINDER

NC J2 ○○ — ○○ — ○

NC ○ J2 ○○ — ○○ — ○○ — ○

SPECIAL OPTIONS
XB6 ...High Temperature
XB7 ...Low Temperature
XB9 ...Low Speed Operation

AUTO SWITCH CAPABLE
- .....Without (Basic)
D .....With Built-In Magnet

MOUNTING
B .....Basic
D .....Double Clevis (Except ø6)
L .....Axial Foot
F .....Rod Side Flange

STD STROKE/HUNDREDTHS OF AN INCH
ø6 (1/4") 050, 100, 150, 200
ø10 (3/8") 050. 100. 150, 200, 300, 400, 500, 600
ø16 (5/8") 050, 100, 150, 200, 300, 400, 500, 600, 700, 800

PORT LOCATION ON HEAD COVER

Symbol	Bore Size: ø6	ø10, ø16
R	In-Line	In-Line
-	-	Perpendicular

APPLICABLE AUTO SWITCH
See NCJ2 Accessories Section

NUMBER OF SWITCHES
- .....2 Pieces
S .....1 Piece
n .....n Pieces

TECHNICAL SPECIFICATIONS

Fluid		Air
Proof Pressure		1MPa / 145 PSI
MaxImum Operating Pressure		0.7MPa / 100 PSI
Minimum Operating Pressure	ø6	0.1MPa / 17 PSI
	ø10, ø16	0.05MPa / 8.5 PSI
Ambient and Fluid Temperature		-10°C~+70°C / 14~158°F
Cushion		Rubber Cushion (Standard)
Lube		None (Non-lube)
Stroke Tolerance		$^{+1.0}_{0}$mm $^{+0.04}_{0}$inch
Piston Speed		2~29.5 in/s (50~750mm/s)
Allowable Kinetic Energy	ø6	0.10lbf in (0.12kgf cm)
	ø10	0.30lbf in (0.35kgf cm)
	ø16	0.78lbf in (0.9kgf cm)

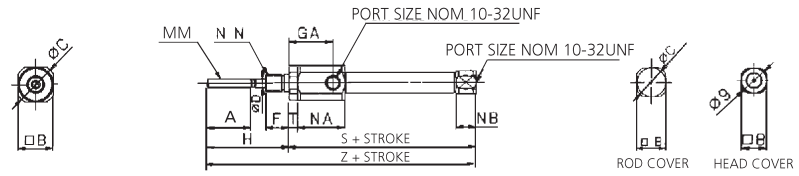
PART NUMBER OF MOUNTING BRACKETS

Mounting Bracket	Bore Size (mm) 6	10	16
Foot	NCJ-L006B	NCJ-L010B	NCJ-L016B
Flange	NCJ-F006B	NCJ-F010B	NCJ-F016B

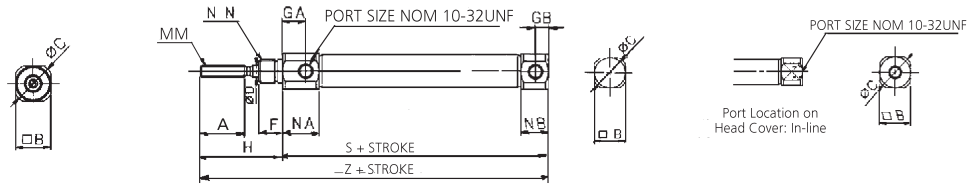
DIMENSIONS SEE NEXT PAGE ☞

DIMENSIONS (INCH)
STANDARD DOUBLE ACTING SINGLE ROD BASIC TYPE NCJ2B_-_

NCJ2B6



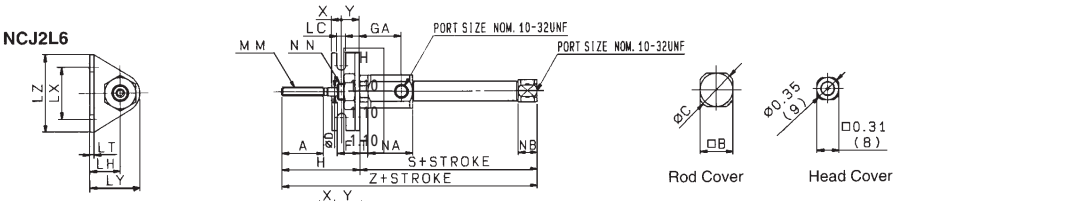
NCJ2B10, 16



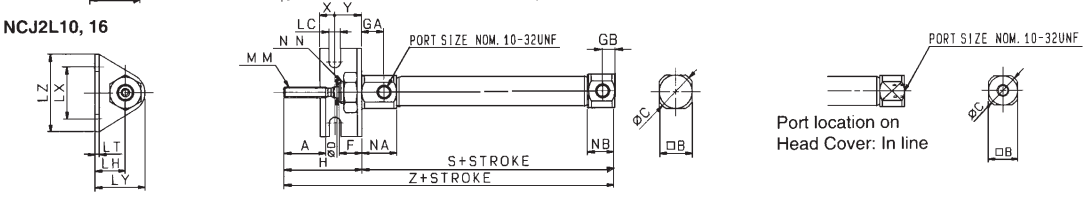
Bore Size	A	B	C	D	F	GA	GB	H	MM	NN	NA	NB	T	S	Z
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.57	-	1.10	No5-40UNC	1/4-28UNF	0.63	0.28	0.12	1.93	3.03
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.31	0.196	1.10	No6-40UNF	5/16-24UNF	0.49	0.37	-	1.81	2.91
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.31	0.196	1.10	No10-32UNF	3/8-24UNF	0.49	0.37	-	1.85	2.95

DIMENSIONS (INCH)
STANDARD DOUBLE ACTING SINGLE ROD FOOT TYPE NCJ2L_-_

NCJ2L6



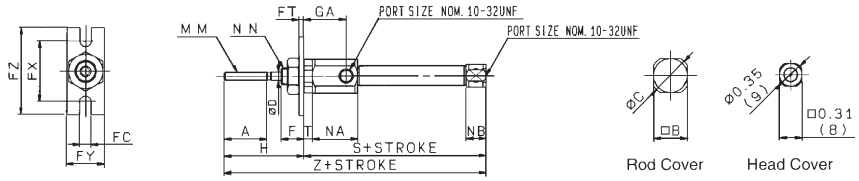
NCJ2L10, 16



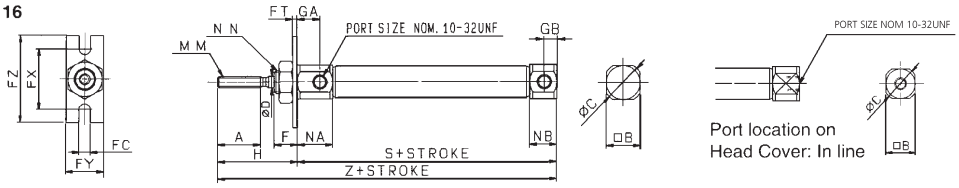
Bore Size	A	B	C	D	F	GA	GB	H	LC	LH	LT	LX	LY	LZ	MM	NN	NA	NB	T	X	Y	S	Z
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.57	-	1.10	0.13	0.43	0.06	0.74	0.71	1.10	No5-40UNC	1/4-28UNF	0.63	0.28	0.12	0.14	0.26	1.93	3.03
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.31	0.196	1.10	0.17	0.55	0.06	0.87	0.83	1.26	No6-40UNF	5/16-24UNF	0.49	0.37	-	0.21	0.38	1.81	2.91
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.31	0.196	1.10	0.20	0.55	0.09	1.18	0.94	1.38	No10-32UNF	3/8-24UNF	0.49	0.37	-	0.21	0.38	1.85	2.95

DIMENSIONS (INCH)
STANDARD DOUBLE ACTING SINGLE ROD ROD SIDE FLANGE TYPE NCJ2F_-_

NCJ2F6



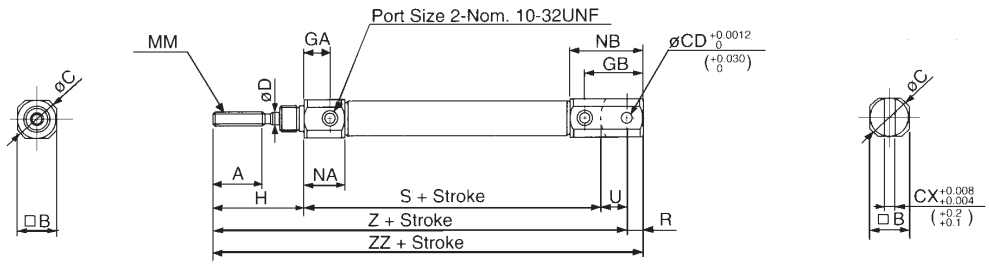
NCJ2F10, 16



Bore Size	A	B	C	D	F	FC	FT	FX	FY	FZ	GA	GB	H	MM	NN	NA	NB	T	S	Z
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.13	0.06	0.74	0.55	1.10	0.57	-	1.10	No5-40UNC	1/4-28UNF	0.63	0.28	0.12	1.93	3.03
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.17	0.06	0.87	0.55	1.26	0.31	.196	1.10	No6-40UNF	5/16-24UNF	0.49	0.37	-	1.81	2.91
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.20	0.09	1.18	0.79	1.38	0.31	.196	1.10	No10-32UNF	3/8-24UNF	0.49	0.37	-	1.85	2.95

DIMENSIONS (INCH)
STANDARD DOUBLE ACTING SINGLE ROD DOUBLE CLEVIS TYPE NCJ2D_-_

NCJ2D10, 16



Bore Size	A	B	C	CD	CX	D	GA	GB	H	MM	NA	NB	R	S	U	Z	ZZ
ø10 (3/8")	0.60	0.47	0.55	0.187	0.188	0.157	0.31	0.75	1.10	No6-40UNF	0.49	0.93	0.24	1.81	0.31	3.22	3.46
ø16 (5/8")	0.60	0.71	0.79	0.187	0.188	0.196	0.31	0.91	1.10	No10-32UNF	0.49	1.08	0.31	1.85	0.39	3.35	3.66

SERIES NCJ2

HOW TO ORDER

NCJ2 STANDARD DOUBLE ACTING DOUBLE ROD CYLINDER

NC J2W — — —

NC J2W — — — —

SPECIAL OPTIONS
XB6 ...High Temperature
XB7 ...Low Temperature

AUTO SWITCH CAPABLE
- .....Not Switch Capable
D .....Switch Capable
Built-In Magnet

NUMBER OF SWITCHES
- .....2 Pieces
S .....1 Piece
n .....n Pieces

MOUNTING
B .....Basic
L .....Axial Foot
F .....Rod Side Flange

APPLICABLE AUTO SWITCH
See NCJ2 Accessories Section

BORE SIZE
ø6 (1/4")
ø10 (3/8")
ø16 (5/8")

STD STROKE/HUNDREDTHS OF AN INCH
ø6 (1/4") 050, 100, 150, 200
ø10 (3/8") 050. 100. 150, 200
ø16 (5/8") 050, 100, 150, 200

PART NUMBER OF MOUNTING BRACKETS

Mounting Bracket	Bore Size (mm)		
	6	10	16
Foot	NCJ-L006B	NCJ-L010B	NCJ-L016B
Flange	NCJ-F006B	NCJ-F010B	NCJ-F016B

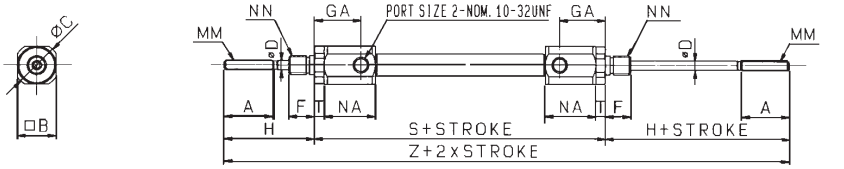
TECHNICAL SPECIFICATIONS

Fluid		Air
Proof Pressure		1MPa / 145 PSI
Maxlmum Operating Pressure		0.7MPa / 100 PSI
Minimum Operating Pressure	ø6	0.14MPa / 21 PSI
	ø10, ø16	0.1MPa / 14 PSI
Ambient and Fluid Temperature		-10°C~+70°C (14~158°F)
Cushion		Rubber Cushion (Standard)
Lube		None (Non-lube)
Stroke Tolerance		$^{+0.4}_{0}$mm
Piston Speed		2~29.5 in/s (50~750mm/s)
Allowable Kinetic Energy	ø6	0.10lbf in (0.12kgf cm)
	ø10	0.30lbf in (0.35kgf cm)
	ø16	0.78lbf in (0.9kgf cm)

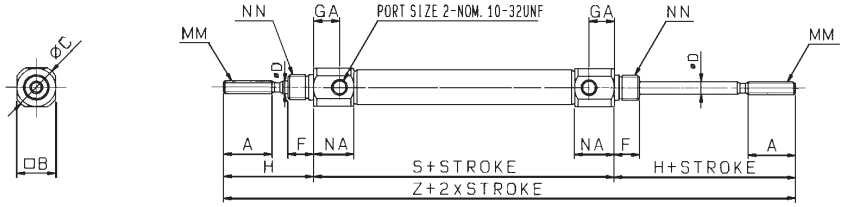
DIMENSIONS (INCH)

STANDARD DOUBLE ACTING DOUBLE ROD BASIC TYPE NCJ2WB_-_

NCJ2WB6



NCJ2WB10, 16



Bore Size*	A	B	C	D	F	GA	H	MM	NN	NA	T	S	Z
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.57	1.10	No5-40UNC	1/4-28UNF	0.63	0.12	2.40	4.61
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.31	1.10	No6-40UNF	5/16-24UNF	0.49	-	1.93	4.13
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.31	1.10	No10-32UNF	3/8-24UNF	0.49	-	1.97	4.17

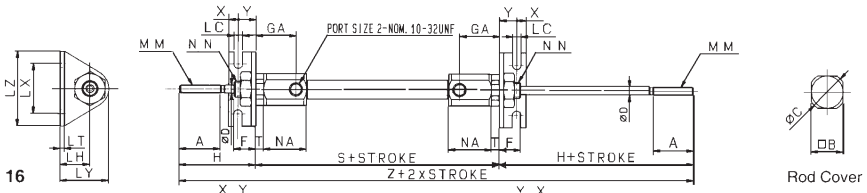
* In case of Auto Switches with ø6 Bore, add 5mm to S and Z.



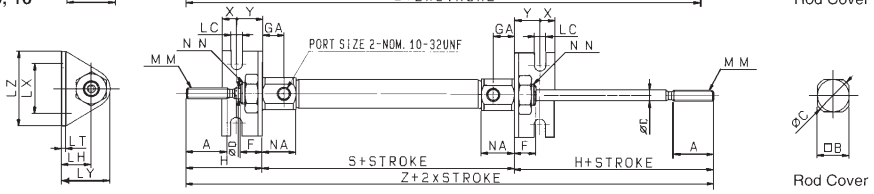
FOR FURTHER TECHNICAL DETAILS ON THIS PRODUCT REQUEST CATALOG REFERENCE **N301**

DIMENSIONS (INCH)
STANDARD DOUBLE ACTING DOUBLE ROD FOOT TYPE NCJ2WL_-_

NCJ2WL6



NCJ2WL10, 16

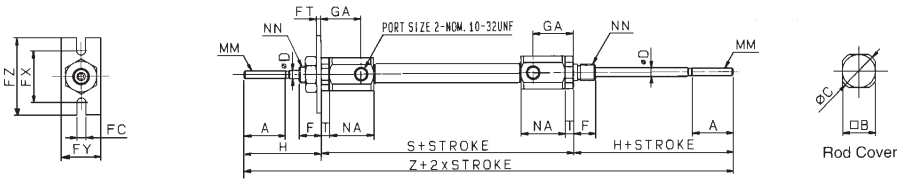


Bore Size*	A	B	C	D	F	GA	H	LC	LH	LT	LX	LY	LZ	MM	NN	NA	T	X	Y	S	Z
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.57	1.10	0.13	0.43	0.06	0.74	0.71	1.10	No5-40UNC	1/4-28UNF	0.63	0.12	0.14	0.26	2.40	4.61
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.31	1.10	0.17	0.55	0.06	0.87	0.83	1.26	No6-40UNF	5/16-24UNF	0.49	-	0.21	0.38	1.93	4.13
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.31	1.10	0.20	0.55	0.09	1.18	0.94	1.38	No10-32UNF	3/8-24UNF	0.49	-	0.21	0.38	1.97	4.17

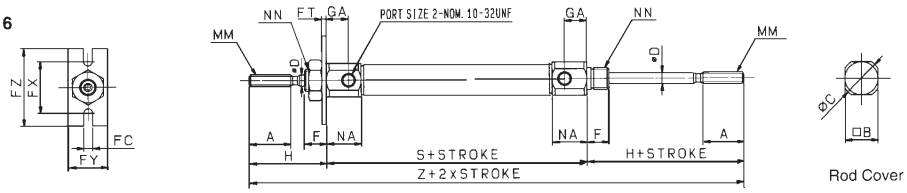
* In case of Auto Switches with ø6 Bore, add 5mm to S and Z.

DIMENSIONS (INCH)
STANDARD DOUBLE ACTING DOUBLE ROD FLANGE TYPE NCJ2WF_-_

NCJ2WF6



NCJ2WF10, 16



Bore Size*	A	B	C	D	F	FC	FT	FX	FY	FZ	GA	H	MM	NN	NA	T	S	Z
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.13	0.06	0.74	0.55	1.10	0.57	1.10	No5-40UNC	1/4-28UNF	0.63	0.12	2.40	4.61
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.17	0.06	0.87	0.55	1.26	0.31	1.10	No6-40UNF	5/16-24UNF	0.49	-	1.93	4.13
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.20	0.09	1.18	0.79	1.38	0.31	1.10	No10-32UNF	3/8-24UNF	0.49	-	1.97	4.17

* In case of Auto Switches with ø6 Bore, add 5mm to S and Z.

HOW TO ORDER

NCJ2 STANDARD SINGLE ACTING SPRING RETURN / SPRING EXTEND

NC J2 — — —

NC J2 — — — —

AUTO SWITCH CAPABLE
- ……Not Switch Capable
D ……Switch Capable
With Built-In Magnet

MOUNTING
B ……Basic
L ……Axial Foot
F ……Rod Side Flange
D ……Double Clevis
(Except for ø6)

BORE SIZE
ø6 (1/4")
ø10 (3/8")
ø16 (5/8")

STD STROKE/HUNDREDTHS OF AN INCH
ø6 (1/4") 050, 100, 150, 200
ø10 (3/8") 050. 100. 150, 200
ø16 (5/8") 050, 100, 150, 200, 300, 400, 500

ACTION
S ……Spring Return
T ……Spring Extend

PORT LOCATION ON HEAD COVER

Symbol	Bore Size: ø6	ø10, ø16
R	In-Line	In-Line
-	-	Perpendicular

NUMBER OF SWITCHES
- ……2 Pieces
S ……1 Piece
n ……n Pieces

APPLICABLE AUTO SWITCH
See NCJ2 Accessories Section

PART NUMBER OF MOUNTING BRACKETS

Mounting Bracket	Bore Size (mm) 6	10	16
Foot	NCJ-L006B	NCJ-L010B	NCJ-L016B
Flange	NCJ-F006B	NCJ-F010B	NCJ-F016B

TECHNICAL SPECIFICATIONS

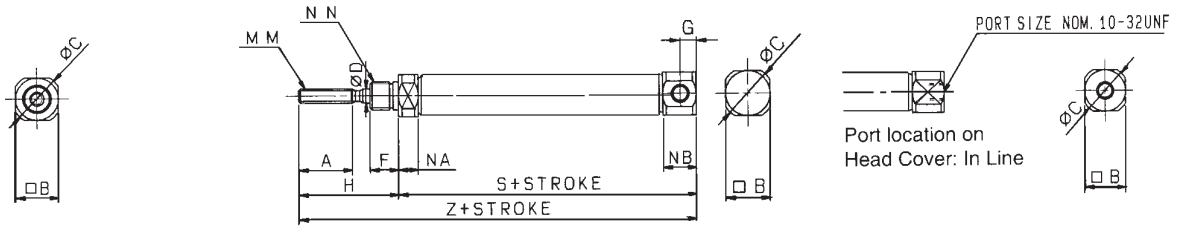
Fluid		Air
Proof Pressure		1MPa / 145 PSI
MaxImum Operating Pressure		0.7MPa / 100 PSI
Minimum Operating Pressure	ø6	0.35MPa / 50 PSI
	ø10, ø16	0.14MPa / 21 PSI
Ambient and Fluid Temperature		-10°C~+70°C / 14~158°F
Cushion		Rubber Cushion (Standard)
Lube		None (Non-lube)
Stroke Tolerance		$^{+0.4}_{0}$mm
Piston Speed		2~29.5 in/s (50~750mm/s)
Allowable Kinetic Energy	ø6	0.10lbf in (0.12kgf cm)
	ø10	0.30lbf in (0.35kgf cm)
	ø16	0.78lbf in (0.9kgf cm)

DIMENSIONS SEE NEXT PAGE ☞



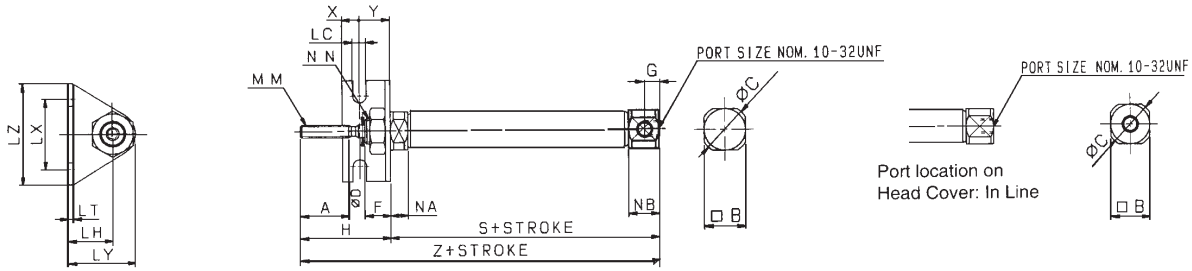
FOR FURTHER TECHNICAL DETAILS ON THIS PRODUCT REQUEST CATALOG REFERENCE **N301**

DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING RETURN BASIC TYPE NCJ2B_-_S



												S							Z						
Bore Size	A	B	C	D	F	G	H	MM	NN	NA	NB	50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø6 (1/4")	0.60	0.31	0.35	0.125	0.31	-	1.10	No5-40UNC	1/4-28UNF	0.12	0.28	1.45	1.73	1.98	2.47	-	-	-	2.55	2.84	3.09	3.57	-	-	-
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	.196	1.10	No6-40UNF	5/16-24UNF	0.21	0.37	1.80	2.01	2.30	2.78	-	-	-	2.91	3.11	3.40	3.89	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	.196	1.10	No10-32UNF	3/8-24UNF	0.21	0.37	1.82	2.03	2.32	2.80	3.22	3.83	4.61	2.93	3.13	3.42	3.91	4.32	4.94	5.71

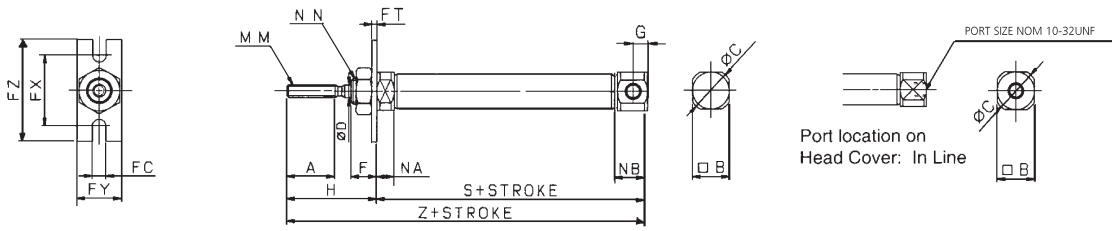
DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING RETURN FOOT TYPE NCJ2L_-_S



																				S						
Bore Size	A	B	C	D	F	G	H	LC	LH	LT	LX	LY	LZ	MM	NN	NA	NB	X	Y	50	100	150	200	300	400	500
ø6 (1/4")	0.60	0.31	0.35	0.125	0.31	-	1.10	0.13	0.43	0.06	0.74	0.71	1.10	No5-40UNC	1/4-28UNF	0.12	0.28	0.14	0.26	1.45	1.73	1.98	2.47	-	-	-
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	.196	1.10	0.17	0.55	0.06	0.87	0.83	1.26	No6-40UNF	5/16-24UNF	0.21	0.37	0.21	0.38	1.80	2.01	2.30	2.78	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	.196	1.10	0.20	0.55	0.09	1.18	0.94	1.38	No10-32UNF	3/8-24UNF	0.21	0.37	0.21	0.38	1.82	2.03	2.32	2.80	3.2	3.83	4.61

Z						
50	100	150	200	300	400	500
2.55	2.84	3.09	3.57	-	-	-
2.91	3.11	3.40	3.89	-	-	-
2.93	3.13	3.42	3.91	4.32	4.94	5.71

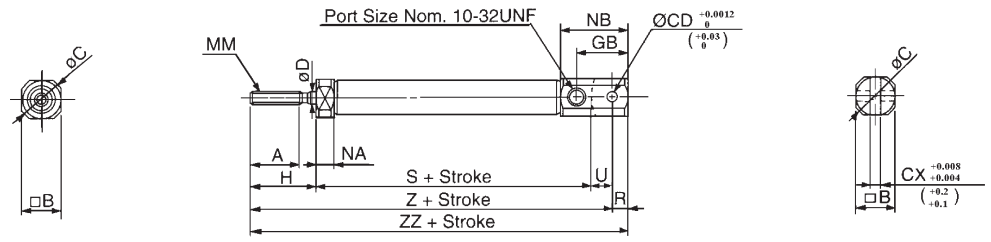
DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING RETURN ROD SIDE FLANGE TYPE NCJ2F_-_S



																			S							Z						
Bore Size	A	B	C	D	F	FC	FT	FX	FY	FZ	G	H	MM	NN	NA	NB	50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø6 (1/4")	0.60	0.31	0.35	0.125	0.31	0.13	0.06	0.74	0.55	1.10	-	1.10	No5-40UNC	1/4-28UNF	0.12	0.28	1.45	1.73	1.98	2.47	-	-	-	2.55	2.84	3.09	3.57	-	-	-
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.17	0.06	0.87	0.55	1.26	.196	1.10	No6-40UNF	5/16-24UNF	0.21	0.37	1.80	2.01	2.30	2.78	-	-	-	2.91	3.11	3.40	3.89	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.20	0.09	1.18	0.79	1.10	.196	1.10	No10-32UNF	3/8-24UNF	0.21	0.37	1.82	2.03	2.32	2.80	3.22	3.83	4.61	2.93	3.13	3.42	3.91	4.32	4.94	5.71

* In case of Auto Switches with ø6 Bore, add 5mm to S and Z.

DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING RETURN DOUBLE CLEVIS TYPE NCJ2D_-_S



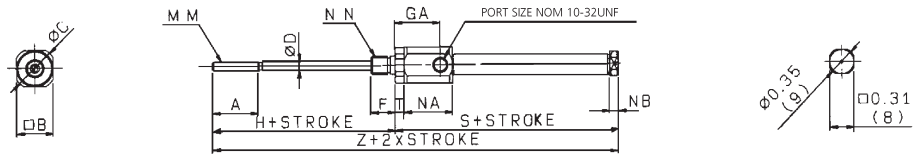
ZZ						
50	100	150	200	300	400	500
3.14	3.35	3.64	4.12	-	-	-
3.32	3.53	3.81	4.30	4.72	5.33	6.10

Bore Size	A	B	C	CD	CX	D	GB	H	MM	NA	NB	R	U	S							Z						
														50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.47	0.55	0.187	0.188	0.157	0.75	0.79	No6-40UNF	0.22	0.93	0.24	0.31	1.80	2.01	2.30	2.78	-	-	-	2.91	3.11	3.40	3.89	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.187	0.188	0.196	0.91	0.79	No10-32UNF	0.22	1.08	0.31	0.39	1.82	2.03	2.32	2.80	3.22	3.83	4.61	3.00	3.21	3.50	3.98	4.40	5.02	5.79

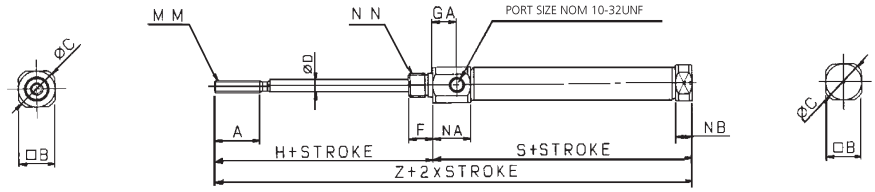
Note) Clevis Pin Included

DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING EXTEND BASIC TYPE NCJ2B_-_T

NCJ2B6



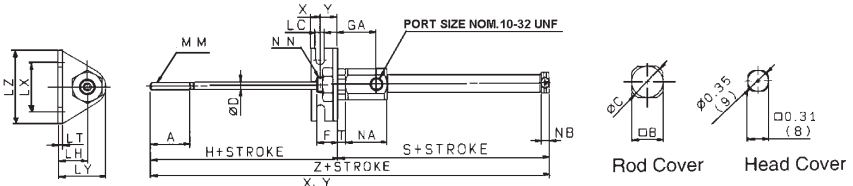
NCJ2B10, 16



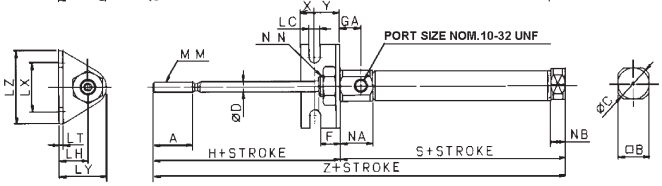
Bore Size	A	B	C	D	F	GA	H	MM	NN	NA	NB	T	S							Z						
													50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.57	1.10	No5-40UNC	1/4-28UNF	0.63	0.12	0.12	1.92	2.20	2.45	2.94	-	-	-	3.02	3.31	3.56	4.04	-	-	-
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.31	1.10	No6-40UNF	5/16-24UNF	0.49	0.22	-	1.92	2.13	2.42	2.90	-	-	-	3.02	3.23	3.52	4.00	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.31	1.10	No10-32UNF	3/8-24UNF	0.49	0.22	-	1.94	2.15	2.44	2.92	3.34	3.95	4.72	3.04	3.25	3.54	4.02	4.44	5.06	5.83

DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING EXTEND FOOT TYPE NCJ2L_-_T

NCJ2L6



NCJ2L10, 16



Continued ..... NCJ2 Single Acting Spring Extend Foot Type

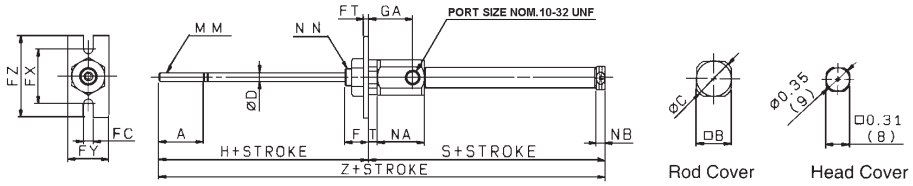
Bore Size*	A	B	C	D	F	GA	H	LC	LH	LT	LX	LY	LZ	MM	NN	NA	NB	T	X	Y	S 50	S 100	S 150	S 200	S 300	S 400	S 500
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.57	1.10	0.13	0.43	0.06	0.74	0.71	1.10	No5-40UNC	1/4-28UNF	0.63	0.12	0.12	0.14	0.26	1.92	2.20	2.45	2.94	-	-	-
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.31	1.10	0.17	0.55	0.06	0.87	0.83	1.26	No6-40UNF	5/16-24UNF	0.49	0.22	-	0.21	0.38	1.92	2.13	2.42	2.90	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.31	1.10	0.20	0.55	0.09	1.18	0.94	1.38	No10-32UNF	3/8-24UNF	0.49	0.22	-	0.21	0.38	1.94	2.15	2.44	2.92	3.34	3.95	4.72

* In case of Auto Switches with ø6 Bore, add 5mm to S and Z.

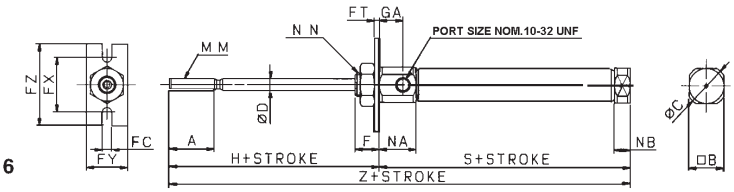
Z 50	Z 100	Z 150	Z 200	Z 300	Z 400	Z 500
3.02	3.31	3.56	4.04	-	-	-
3.02	3.23	3.52	4.00	-	-	-
3.04	3.25	3.54	4.02	4.44	5.06	5.83

DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING EXTEND ROD SIDE FLANGE TYPE NCJ2F_-_T

NCJ2F6



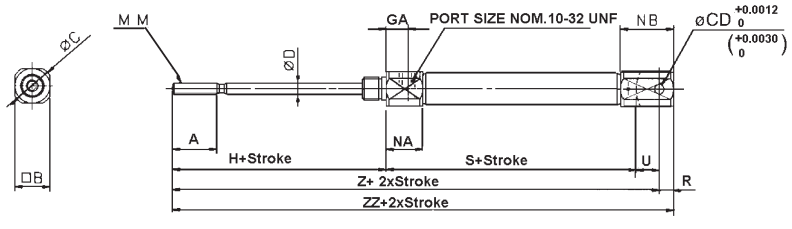
NCJ2F10, 16



Bore Size*	A	B	C	D	F	FC	FT	FX	FY	FZ	GA	H	MM	NN	NA	NB	T	S 50	S 100	S 150	S 200	S 300	S 400	S 500	Z 50	Z 100	Z 150	Z 200	Z 300	Z 400	Z 500
ø6 (1/4")	0.60	0.47	0.55	0.125	0.31	0.13	0.06	0.74	0.55	1.10	0.57	1.10	No5-40UNC	1/4-28UNF	0.63	0.12	0.12	1.92	2.20	2.45	2.94	-	-	-	3.02	3.31	3.56	4.04	-	-	-
ø10 (3/8")	0.60	0.47	0.55	0.157	0.31	0.17	0.06	0.87	0.55	1.26	0.31	1.10	No6-40UNF	5/16-24UNF	0.49	0.22	-	1.92	2.13	2.42	2.90	-	-	-	3.02	3.23	3.52	4.00	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.196	0.31	0.20	0.09	1.18	0.79	1.38	0.31	1.10	No10-32UNF	3/8-24UNF	0.49	0.22	-	1.94	2.15	2.44	2.92	3.34	3.95	4.72	3.04	3.25	3.54	4.02	4.44	5.06	5.83

* In case of Auto Switches with ø6 Bore, add 5mm to S and Z.

DIMENSIONS (INCH)
STANDARD SINGLE ACTING SPRING EXTEND DOUBLE CLEVIS TYPE NCJ2D_-_T



ZZ 50	ZZ 100	ZZ 150	ZZ 200	ZZ 300	ZZ 400	ZZ 500
3.73	3.94	4.23	4.71	-	-	-
3.91	4.12	4.41	4.89	5.31	5.92	6.69

*Clevis Pin Included

Bore Size	A	B	C	CD	CX	D	GA	H	MM	NA	NB	R	U	S 50	S 100	S 150	S 200	S 300	S 400	S 500	Z 50	Z 100	Z 150	Z 200	Z 300	Z 400	Z 500
ø10 (3/8")	0.60	0.47	0.55	0.187	0.188	0.157	0.31	1.10	No6-40UNF	0.49	0.93	0.24	0.31	2.08	2.29	2.57	3.06	-	-	-	3.50	3.70	3.99	4.48	-	-	-
ø16 (5/8")	0.60	0.71	0.79	0.187	0.188	0.196	0.31	1.10	No10-32UNF	0.49	1.08	0.31	0.39	2.10	2.31	2.59	3.08	3.50	4.11	4.88	3.59	3.80	4.09	4.57	4.99	5.61	6.38

How To Order

NCJ2 Non-Rotating Double Acting Single Rod Cylinder

NC J2K ○○ — ○○

NC ○ J2K ○○ — ○○ — ○○

Auto Switch Capable
- ……Not Switch Capable
D ……Switch Capable With Built-In Magnet

Mounting
B ……Basic
D ……Double Clevis
L ……Axial Foot
F ……Rod Side Flange

Bore/Std Stroke(Hundredths Of An Inch)
ø10 (3/8") 050. 100. 150, 200, 300, 400, 500, 600
ø16 (5/8") 050, 100, 150, 200, 300, 400, 500, 600, 700, 800

Number Of Switches
- ……2 Pieces
S ……1 Piece
n ……n Pieces

Applicable Auto Switch
See NCJ2 Accessories Section

Port Location On Head Cover
R ……In-Line
- ……Perpendicular

Part Number of Mounting Brackets

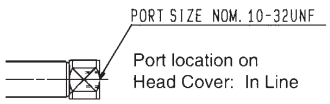
Mounting Bracket	Bore Size (mm) 10	16
Foot	NCJ-L010B	NCJ-L016B
Flange	NCJ-F010B	NCJ-F016B

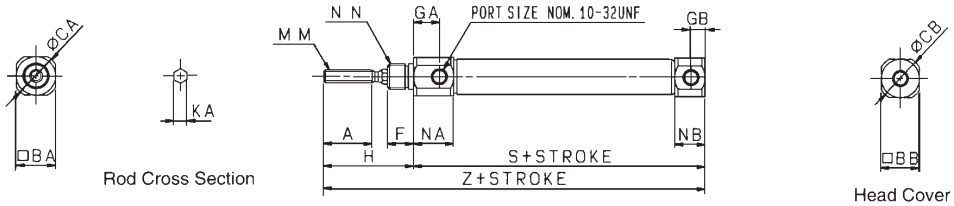
Technical Specifications

Fluid		Air
Proof Pressure		1MPa / 145 PSI
MaxImum Operating Pressure		0.7MPa / 100 PSI
Minimum Operating Pressure		0.05MPa / 8.5 PSI
Ambient and Fluid Temperature		-10°C~+70°C / 14~160°F
Cushion		Rubber Cushion (Standard)
Lubrication		None (Non-lube)
Stroke Tolerance		$^{+0.4}_{0}$mm
Non-Rotating Accuracy		ø10: ±1.5° / ø16: ±1°
Piston Speed		2~29.5 in/s (50~750mm/s)
Allowable Kinetic Energy	ø10	0.30lbf in (0.35kgf cm)
	ø16	0.78lbf in (0.9kgf cm)

Dimensions (inch)

Non-Rotating Double Acting Single Rod Basic Type NCJ2KB_-_





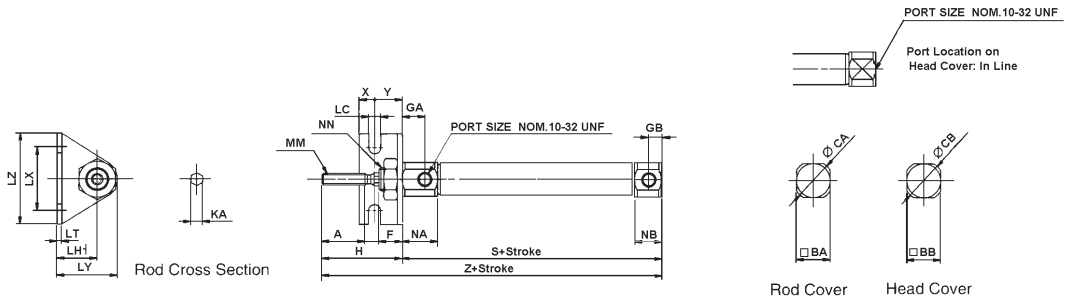
Bore Size	A	BA	BB	CA	CB	F	GA	GB	H	KA	MM	NN	NA	NB	S	Z
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.31	0.196	1.10	0.17	No6-40UNF	3/8-24UNF	0.49	0.37	1.81	2.91
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.31	0.196	1.10	0.20	No10-32UNF	7/16-20UNF	0.49	0.37	1.85	2.95

DIMENSIONS SEE NEXT PAGE ☞



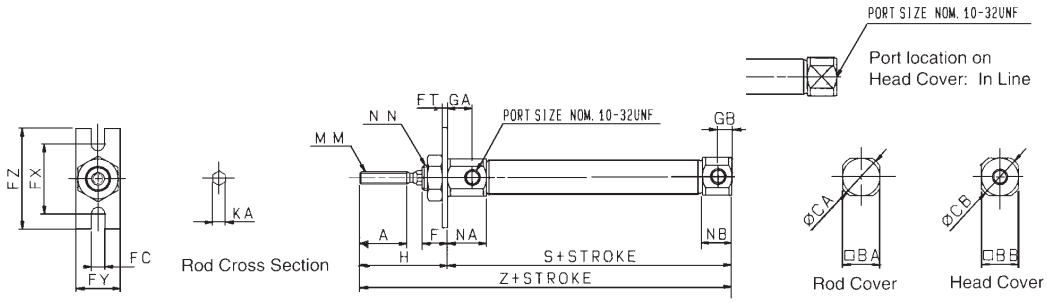
FOR FURTHER TECHNICAL DETAILS ON THIS PRODUCT REQUEST CATALOG REFERENCE **N301**

DIMENSIONS (INCH)
NON-ROTATING DOUBLE ACTING SINGLE ROD FOOT TYPE NCJ2KL_-_



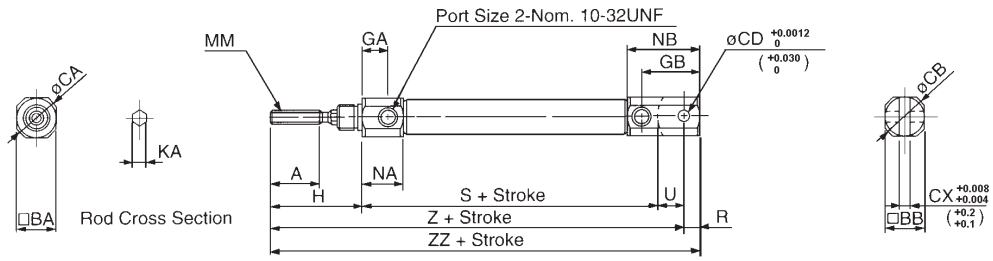
Bore Size	A	BA	BB	CA	CB	F	GA	GB	H	KA	LC	LH	LT	LX	LY	LZ	MM	NN	NA	NB	X	Y	S	Z
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.31	0.196	1.10	0.17	0.20	0.55	0.09	1.18	0.94	1.38	No6-40UNF	3/8-24UNF	0.49	0.37	0.21	0.38	1.81	2.91
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.31	0.196	1.10	0.20	0.20	0.55	0.09	1.18	0.94	1.65	No10-32UNF	7/16-20UNF	0.49	0.37	0.21	0.38	1.85	2.95

DIMENSIONS (INCH)
NON-ROTATING DOUBLE ACTING SINGLE ROD ROD SIDE FLANGE TYPE NCJ2KF_-_



Bore Size	A	BA	BB	CA	CB	F	FC	FT	FX	FY	FZ	GA	GB	H	KA	MM	NN	NA	NB	S	Z
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.20	0.09	1.14	0.79	1.38	0.31	0.196	1.10	0.17	No6-40UNF	3/8-24UNF	0.49	0.37	1.81	2.91
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.20	0.09	1.18	0.79	1.38	0.31	0.196	1.10	0.20	No10-32UNF	7/16-20UNF	0.49	0.37	1.85	2.95

DIMENSIONS (INCH)
NON-ROTATING DOUBLE ACTING SINGLE ROD DOUBLE CLEVIS TYPE NCJ2KD_-_



Bore Size	A	BA	BB	CA	CB	CD	CX	GA	GB	H	KA	MM	NA	NB	R	S	U	Z	ZZ
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	.187	.188	0.31	0.75	1.10	0.17	No6-40UNF	0.49	0.93	0.24	1.81	0.31	3.22	3.46
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	.187	.188	0.31	0.91	1.10	0.20	No10-32UNF	0.49	1.08	0.31	1.85	0.39	3.35	3.66

SERIES NCJ2

How To Order

NCJ2 Non-Rotating Single Acting Spring Return / Spring Extend Cylinder

NC J2K — — — — —

NC — J2K — — — — — —

Auto Switch Capable
- ……Not Switch Capable
D ……Switch Capable With Built-In Magnet

Mounting
B ……Basic
D ……Double Clevis
L ……Axial Foot
F ……Rod Side Flange

Bore Size
ø10
ø16

Std Stroke/Hundredths Of An Inch
ø10 (3/8") 050. 100. 150, 200
ø16 (5/8") 050, 100, 150, 200, 300, 400, 500

Action
S ……Spring Return
T ……Spring Extend

Applicable Auto Switch
See NCJ2 Accessories Section

Port Location On Head Cover
R ……In-Line
- ……Perpendicular

Number Of Switches
- ……2 Pieces
S ……1 Piece
n ……n Pieces

Part Number of Mounting Brackets

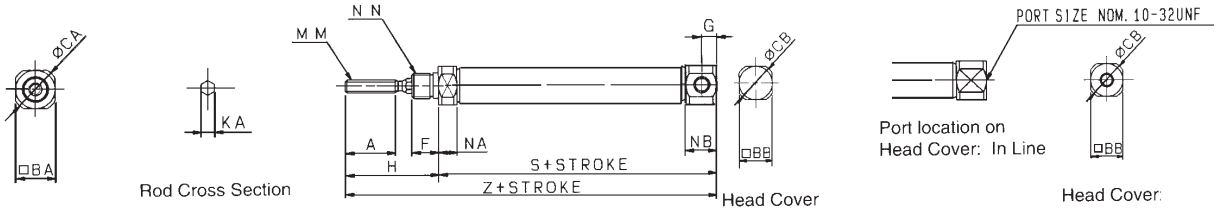
Mounting Bracket	Bore Size (mm) 10	16
Foot	NCJ-L010B	NCJ-L016B
Flange	NCJ-F010B	NCJ-F016B

Technical Specifications

Fluid		Air
Proof Pressure		1MPa / 145 PSI
MaxImum Operating Pressure		0.7MPa / 100 PSI
Minimum Operating Pressure		0.14MPa / 21 PSI
Ambient and Fluid Temperature		-10°C~+70°C / 14~160°F
Cushion		Rubber Cushion (Standard)
Lubrication		None (Non-lube)
Stroke Tolerance		$^{+0.4}_{0}$mm
Non-Rotating Accuracy		ø10: ±1.5° / ø16: ±1°
Piston Speed		2~29.5 in/s (50~750mm/s)
Allowable Kinetic Energy	ø10	0.30lbf in (0.35kgf cm)
	ø16	0.78lbf in (0.9kgf cm)

Dimensions (inch)

Non-Rotating Single Acting Spring Return Basic Type NCJ2KB_-_S



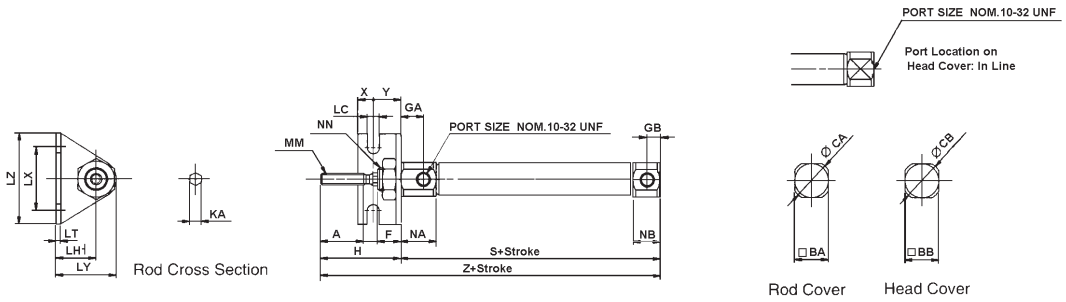
														S							Z						
Bore Size	A	BA	BB	CA	CB	F	G	H	KA	MM	NN	NA	NB	50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.196	1.10	0.17	No6-40UNF	3/8-24UNF	0.21	0.37	1.80	2.01	2.30	2.78	-	-	-	2.91	3.11	3.40	3.89	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.196	1.10	0.20	No10-32UNF	7/16-20UNF	0.21	0.37	1.82	2.03	2.32	2.80	3.22	3.83	4.61	2.93	3.13	3.42	3.91	4.32	4.94	5.71

More Dimensions See Next Page ☞



FOR FURTHER TECHNICAL DETAILS ON THIS PRODUCT REQUEST CATALOG REFERENCE **N301**

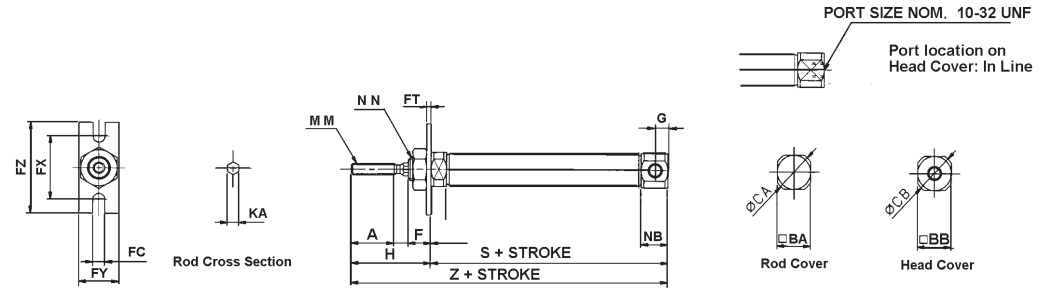
DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING RETURN FOOT TYPE NCJ2KL_-_S



Bore Size	A	BA	BB	CA	CB	F	H	KA	LC	LH	LT	LX	LY	LZ	MM	NN	NA	NB	X	Y	S						
																					50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	1.10	0.17	0.20	0.55	0.09	1.18	0.94	1.38	No6-40UNF	3/8-24UNF	0.21	0.37	0.21	0.38	1.80	2.01	2.30	2.78	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	1.10	0.20	0.20	0.55	0.09	1.18	0.94	1.65	No10-32UNF	7/16-20UNF	0.21	0.37	0.21	0.38	1.82	2.03	2.32	2.80	3.22	3.83	4.61

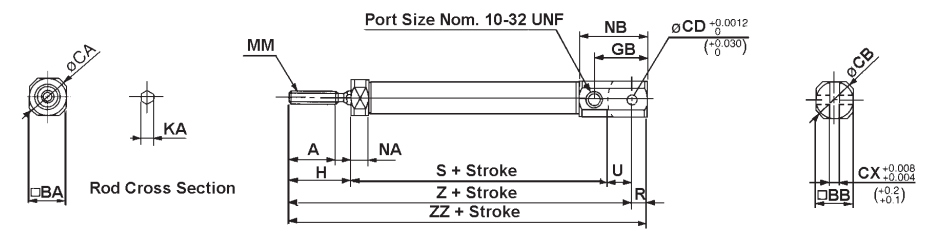
Z						
50	100	150	200	300	400	500
2.91	3.11	3.40	3.89	-	-	-
2.93	3.13	3.42	3.91	4.32	4.94	5.71

DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING RETURN ROD SIDE FLANGE TYPE NCJ2KF_-_S



Bore Size	A	BA	BB	CA	CB	F	G	FC	FT	FX	FY	FZ	H	KA	MM	NN	NA	NB	S							Z						
																			50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	.196	0.20	0.09	1.18	0.79	1.38	1.10	0.17	No6-40UNF	3/8-24UNF	0.21	0.37	1.80	2.01	2.30	2.78	-	-	-	2.91	3.11	3.40	3.89	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	.196	0.20	0.09	1.18	0.79	1.38	1.10	0.20	No10-32UNF	7/16-20UNF	0.21	0.37	1.82	2.03	2.32	2.80	3.22	3.83	4.61	2.93	3.13	3.42	3.91	4.32	4.94	5.71

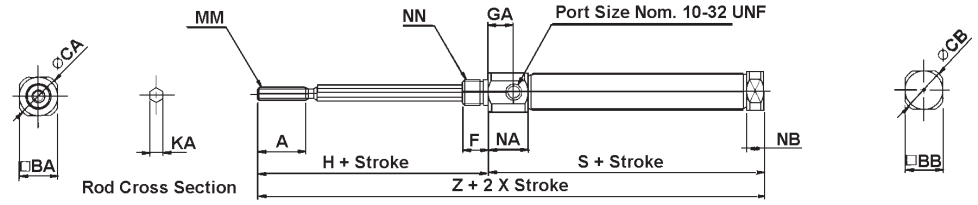
DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING RETURN DOUBLE CLEVIS TYPE NCJ2KD_-_S



ZZ						
50	100	150	200	300	400	500
3.14	3.35	3.64	4.12	-	-	-
3.32	3.53	3.81	4.30	4.72	5.33	6.10

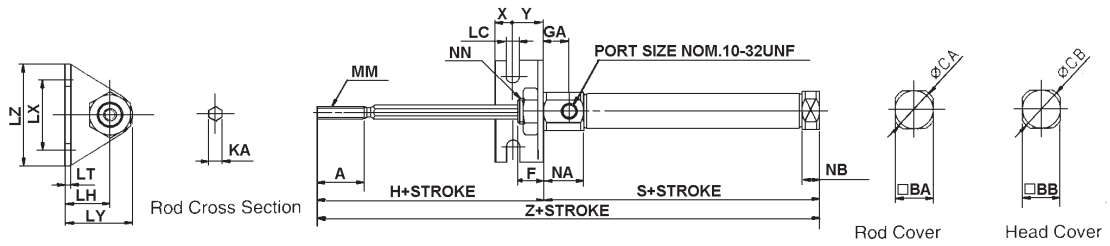
Bore Size	A	BA	BB	CA	CB	CD	CX	GB	H	KA	MM	NA	NB	R	U	S							Z						
																50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.47	0.47	0.55	0.55	.187	.188	0.75	0.79	0.17	No6-40UNF	0.22	0.93	0.24	0.31	1.80	2.01	2.30	2.78	-	-	-	2.91	3.11	3.40	3.89	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	.187	.188	0.91	0.79	0.20	No10-32UNF	0.22	1.08	0.31	0.39	1.82	2.03	2.32	2.80	3.22	3.83	4.61	2.93	3.21	3.50	3.98	4.40	5.02	5.79

DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING EXTEND BASIC TYPE NCJ2KB_-_T



														S							Z						
Bore Size	A	BA	BB	CA	CB	F	GA	H	KA	MM	NN	NA	NB	50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.31	1.10	0.17	No6-40UNF	3/8-24UNF	0.49	0.22	1.92	2.13	2.42	2.90	-	-	-	3.02	3.23	3.52	4.00	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.31	1.10	0.20	No10-32UNF	7/16-20UNF	0.49	0.22	1.94	2.15	2.44	2.92	3.34	3.95	4.72	3.04	3.25	3.54	4.02	4.44	5.06	5.83

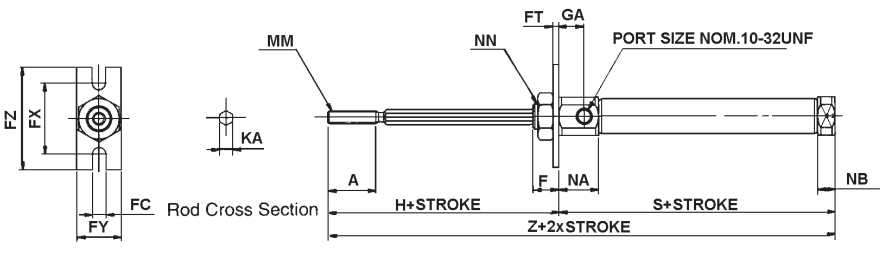
DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING EXTEND FOOT TYPE NCJ2KL_-_T



																						S						
Bore Size	A	BA	BB	CA	CB	F	GA	H	KA	LC	LH	LT	LX	LY	LZ	MM	NN	NA	NB	X	Y	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.31	1.10	0.17	0.20	0.55	0.09	1.18	0.94	1.38	No6-40UNF	3/8-24UNF	0.49	0.22	0.21	0.38	1.92	2.13	2.42	2.90	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.31	1.10	0.20	0.20	0.55	0.09	1.18	0.94	1.65	No10-32UNF	7/16-20UNF	0.49	0.22	0.21	0.38	1.94	2.15	2.44	2.92	3.34	3.95	4.72

Z						
50	100	150	200	300	400	500
3.02	3.23	3.52	4.00	-	-	-
3.04	3.25	3.54	4.02	4.44	5.06	5.83

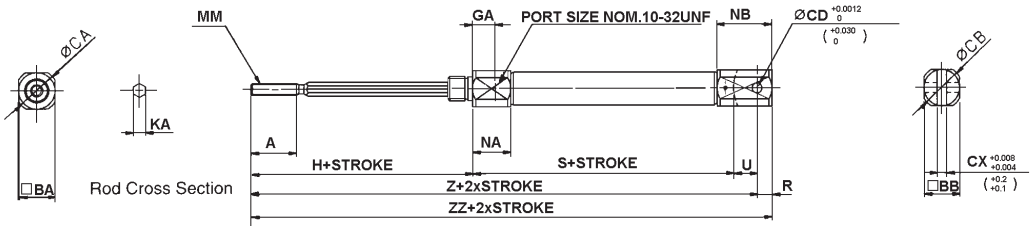
DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING EXTEND ROD SIDE FLANGE TYPE NCJ2KF_-_T



ACCESSORIES
SEE NEXT PAGE ☞

																					S							Z						
Bore Size	A	BA	BB	CA	CB	F	FC	FT	FX	FY	FZ	GA	H	KA	MM	NN	NA	NB	50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	0.31	0.20	0.09	1.18	0.79	1.38	0.31	1.10	0.17	No6-40UNF	3/8-24UNF	0.49	0.22	1.92	2.13	2.42	2.90	-	-	-	3.02	3.23	3.52	4.00	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	0.31	0.20	0.09	1.18	0.79	1.38	0.31	1.10	0.20	No10-32UNF	7/16-20UNF	0.49	0.22	1.94	2.15	2.44	2.92	3.34	3.95	4.72	3.04	3.25	3.54	4.02	4.44	5.06	5.83

DIMENSIONS (INCH)
NON-ROTATING SINGLE ACTING SPRING EXTEND DOUBLE CLEVIS TYPE NCJ2KD_-_T



ZZ							
50	100	150	200	300	400	500
3.73	3.94	4.23	4.71	-	-	-
3.91	4.12	4.41	4.89	5.31	5.92	6.69

																S							Z						
Bore Size	A	BA	BB	CA	CB	CD	CX	GA	H	KA	MM	NA	NB	R	U	50	100	150	200	300	400	500	50	100	150	200	300	400	500
ø10 (3/8")	0.60	0.60	0.47	0.67	0.55	.187	.188	0.31	0.10	0.17	No6-40UNF	0.49	0.93	0.24	0.31	2.08	2.29	2.57	3.06	-	-	-	3.50	3.70	3.99	4.48	-	-	-
ø16 (5/8")	0.60	0.71	0.71	0.79	0.79	.187	.188	0.31	0.10	0.20	No10-32UNF	0.49	1.08	0.31	0.39	2.10	2.31	2.59	3.08	3.50	4.11	4.88	3.59	3.80	4.09	4.57	4.99	5.61	6.38

HOW TO ORDER
SERIES NCJ2 HIGH TEMPERATURE RESISTANT CYLINDER - XB6 OPTION

NCJ2 ○ ○ ○ — ○ — XB6

- ……Single Rod
W……Double Rod

MOUNTING | BORE SIZE | STROKE

TECHNICAL SPECIFICATIONS

Applicable Cylinder Bore Size	ø6, ø10, ø16
Action	Double Acting (Single/Double Rod)
Ambient and Fluid Temperature	-10°C~+150°C / 14~300°F
Packing Material	Fluorocarbon Rubber
Special Grease	Teflon® based Grease
Mounting Type	Basic, Foot, Rod Side Flange

HOW TO ORDER
SERIES NCJ2 LOW TEMPERATURE RESISTANT CYLINDER - XB7 OPTION

NCJ2 ○ ○ ○ — ○ — XB7

- ……Single Rod
W……Double Rod

MOUNTING | BORE SIZE | STROKE

TECHNICAL SPECIFICATIONS

Applicable Cylinder Bore Size	ø6, ø10, ø16
Action	Double Acting (Single/Double Rod)
Ambient and Fluid Temperature	-55°C~+70°C / -67~160°F
Packing Material	NBR
Special Grease	Teflon® based Grease
Mounting Type	Basic, Foot, Rod Side Flange

HOW TO ORDER
SERIES NCJ2 LOW FRICTION CYLINDER - XB9 OPTION

NCJ2 ○ ○ ○ — ○ — XB9

- ……Single Rod
W……Double Rod

MOUNTING | BORE SIZE | STROKE

TECHNICAL SPECIFICATIONS

Applicable Cylinder Bore Size	ø6, ø10, ø16
Action	Double Acting (Single/Double Rod)
Ambient and Fluid Temperature	-55°C~+70°C / -67~160°F
Piston Velocity	10 ~ 50 mm/s (-4 ~ 2in/s)
Mounting Type	Basic, Axial Foot, Rod Side Flange

ALSO AVAILABLE:
- XB13 OPTION - LOW SPEED
- XC22 - VITON SEALS

PLEASE CONSULT SMC CUSTOMER SERVICE

ACCESSORIES
SERIES NCJ2 AIR CYLINDER

NCY2 ACCESSORIES	PART NO	APPLICABLE DIAMETER
Rear Clevis Pin	NCD-J010	ø10
	NCD-J016	ø16
Double Rod Clevis	NY-J010B	ø10
	NY-J016B	ø16
Rod Jam Nut	JM-005	ø8
	JM-006	ø10
	JM-02	ø16
Mounting Nut	JM-025	ø8
	JM-03	ø10
	JM-04	ø16

ACCESSORIES
SERIES NCJ2 AUTO SWITCHES

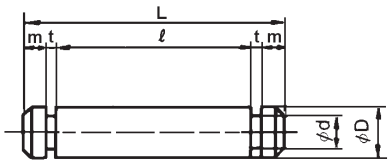
Note: Pre-wired Switches with 3/4 Pin Connectors available, please consult SMC Customer Service

MODEL	LEAD WIRE ENTRY	APPLICATIONS	LOAD VOLTAGE	MAX LOAD CURRENT/LOAD CURRENT RANGE
D-C73	Grommet	PLC	24 VDC	5 ~ 40 mA
			110VAC	5 ~ 20 mA
D-C76	Grommet	PLC	4 ~ 8 VDC	20 mA
D-C80	Grommet	PLC	24V AC/DC or less	50mA
			48V AC/DC	40mA
			100V AC/DC	20mA
D-C73C	Connector	PLC	24 VDC	5 ~ 40 mA
D-C80C	Connector	PLC	24V AC/DC or less	50 mA
D-H7A1	Grommet	PLC	28 VDC	40 mA
D-H7A2	Grommet	PLC	28 VDC	80 mA
D-H7B	Grommet	24VDC	24 VDC	5 ~ 40 mA
D-H7C	Connector	PLC	(10~28 VDC)	

ACCESSORIES
SERIES NCJ2 SWITCH BANDS

BORE SIZE	PART NO
ø6	BJ2-006
ø10	BJ2010
ø16	BJ2-016

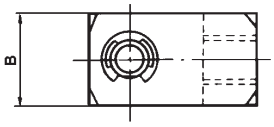
ACCESSORIES
SERIES NCJ2 REAR CLEVIS PIN

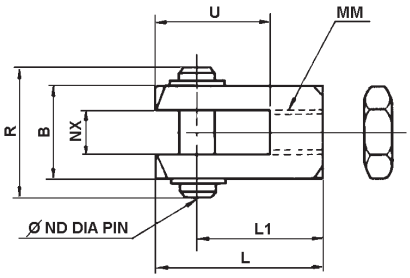


PART NO	BORE SIZE	øD	L	ød	e	M	t
NCD-J010	ø10 (3/8")	0.188	0.59	0.147	0.48	0.03	0.03
NCD-J016	ø16 (5/8")	0.187	0.90	0.147	0.72	0.06	0.03

Note) includes 2 Retaining Ring

ACCESSORIES
SERIES NCJ2 PISTON ROD CLEVIS



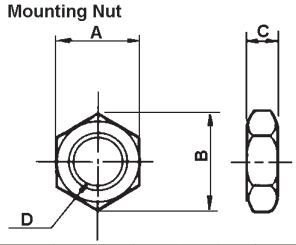


PART NO	BORE SIZE	B	R	NX	øND	U	MM	L	L1
NY-J010B	ø10 (3/8")	0.39	0.54	0.188	0.188	0.56	No6-40UNF	0.94	0.75
NY-J016B	ø16 (5/8")	0.39	0.54	0.188	0.188	0.56	No10-32UNF	0.94	0.75

Note) includes Rod Jam Nut, Clevis Pin and 2 Retaining Rings

ACCESSORIES
SERIES NCJ2 MOUNTING NUT

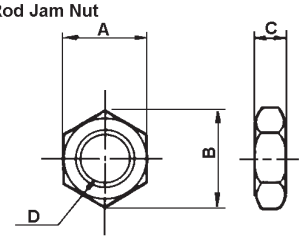
Mounting Nut



PART NO	BORE SIZE	A	B	C	D
JM-025	ø6 (1/4")	0.44	0.50	0.16	1/4-28UNF
JM-03	ø10 (3/8")	0.50	0.58	0.19	5/16-24UNF
JM-04	ø16 (5/8")	0.56	0.65	0.23	3/8-24UNF

ACCESSORIES
SERIES NCJ2 ROD JAM NUT

Rod Jam Nut



PART NO	BORE SIZE	A	B	C	D
JM-005	ø6 (1/4")	0.31	0.11	0.11	5-40UNC
JM-006	ø10 (3/8")	0.31	0.36	0.11	6-40UNF
JM-02	ø16 (5/8")	0.38	0.43	0.13	10-32UNF



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