

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1



Thin double cylinder structure, high non-rotating accuracy and double output force, strong resistance to side load.

Specifications

Bore size(mm)	6	10	15	20	25	32
Fluid	Air (to be filtered by 40μm filter element)					
Action type	Double acting					
Maximum operating pressure	0.7MPa					
Minimum operating pressure	0.15MPa	0.1MPa		0.05MPa		
Ambient and fluid temperature	-10 to 60℃ (No freezing)					
Cushion	Rubber bumper					
Piston speed (mm/s)	30~300	30~800	30~700		30~600	
Structure	Double cylinder (Double output force)					
Lubrication Note 1)	Non-lube					
Stroke adjustable range	Retraction stroke 0~5mm					
Bearing type	Slide bearing/Ball bushing bearing					
Accuracy of piston rod non rotation	Slide bearing	±0.1°				
	Ball bushing bearing	±0.1°				
Port size	M5×0.8				1/8"	

Note: If lubrication is required, please use turbine No.1 oil ISO VG32.

Ordering code

N	C	X	S	M	20	-	100	Z73
Bearing type					Stroke			
M	Slide bearing				Refer to stroke table for details			
L	Ball bushing bearing							
Bore size					Magnetic switch type			
6	6mm				Blank Without magnetic switch			
10	10mm				* Magnetic switch type refer to stroke/Magnetic switch model table			
15	15mm							
20	20mm							
25	25mm							
32	32mm							

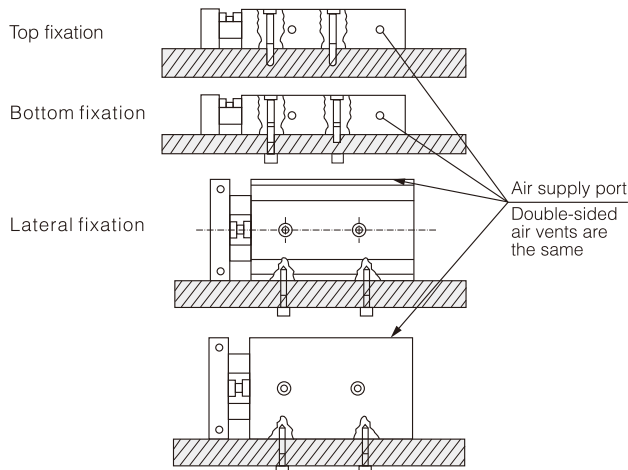
Number of magnetic switches
Blank
S
n

Stroke/magnetic switch model table

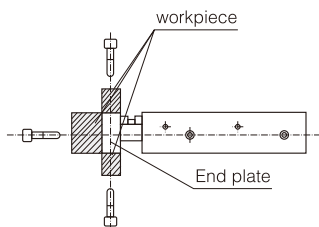
Bore size (mm)	Standard stroke	Magnetic switch model
		(Rail installation)
6	10, 20, 30, 40, 50	Z73
10	10, 15, 20, 25, 30, 35 40, 45, 50, 60, 70, 75	
15	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100	
20		
25		
32		

* The specifications and characteristics of magnetic switches can refer to the series of magnetic switches.
Wire length representation mark: no mark-0.5m, L-3m, Z-5m, Example: Z73, Z73L.

Cylinder body can be fixed in four directions by screw and the position of air supply port can be selected.

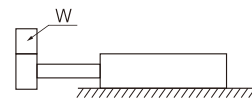


Workpiece can be installed on three planes of end plate



Maximum allowable load

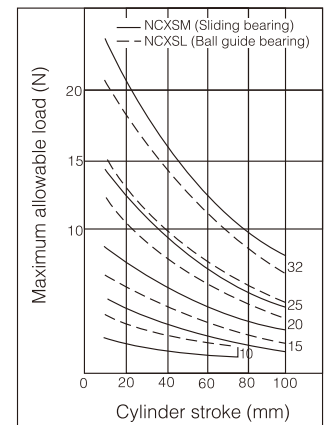
The maximum allowable load on the cylinder in the installation form shown in the figure below is lower than that listed in the figure above.



Suitable for bore size Φ6

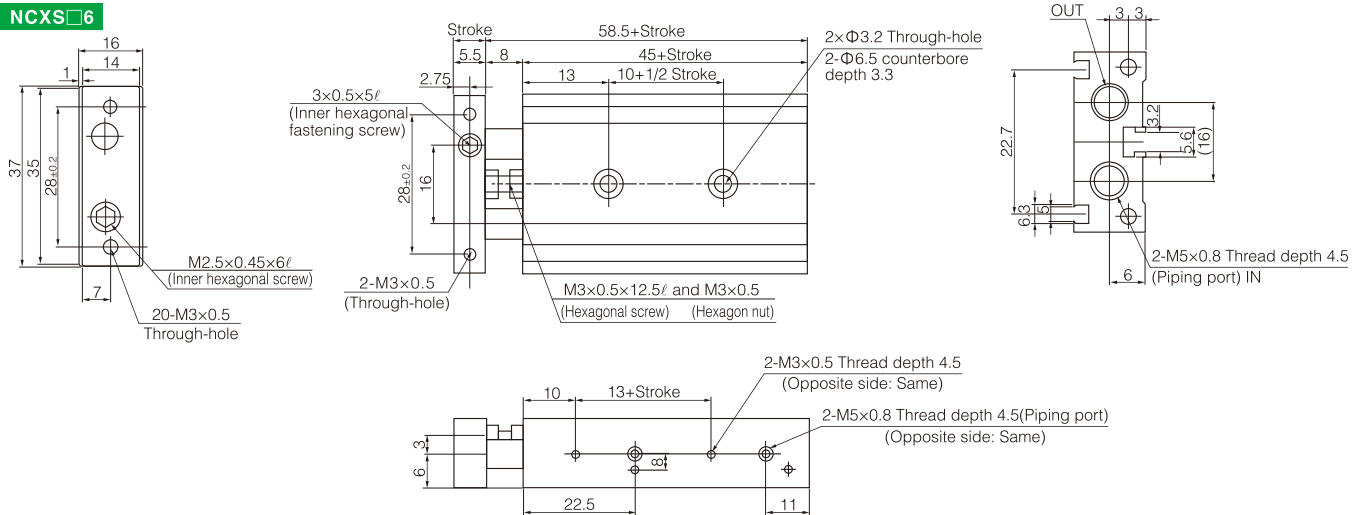
Model	10	20	30	40	50
NCXSM6	0.80	0.66	0.54	0.46	0.40
NCXSL6	1.08	0.88	0.69	0.59	0.49

Suitable for bore size Φ10~32



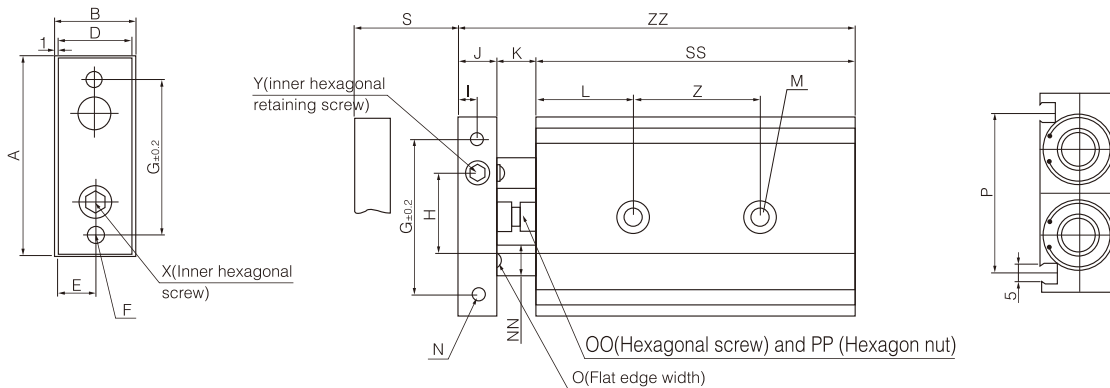
Dimensions

NCXS□6

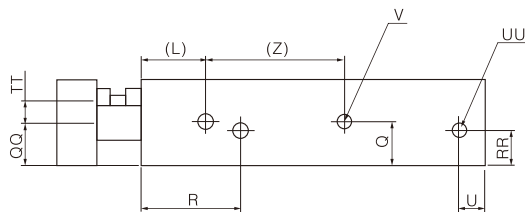


Model	Stroke	10+1/2 Stroke	13+Stroke	45+Stroke	58.5+Stroke
NCXS□6-10	10	15	23	55	68.5
NCXS□6-20	20	20	33	65	78.5
NCXS□6-30	30	25	43	75	88.5
NCXS□6-40	40	30	53	85	98.5
NCXS□6-50	50	35	63	95	108.5

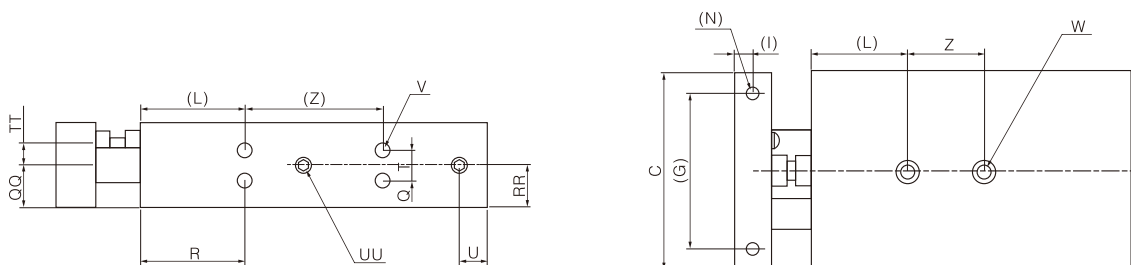
NCXS□10 · 15 · 20 · 25 · 32



Φ10-15



Φ20-32



Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	O	OO			
SC	NCXS□10-10	46	17	44	15	7.5	2-M4×0.7 (Through-hole)	35	20	4	8	9	20	2-Φ3.4 Through-hole 2-Φ6.5 Counterbore depth 3.3	2-M3×0.5 Thread depth 5	Φ6	5	M4×0.7 ×14.5 L			
SC(Big)	NCXS□10-20																				
SCT	NCXS□10-30																				
SCF	NCXS□10-40																				
SU	NCXS□10-50																				
SUF	NCXS□15-10	58	20	56	18	9	2-M5×0.8 (Through-hole)	45	25	5	10	9	30	2-Φ4.3 Through-hole 2-Φ8 Counterbore depth 4.4	2-M4×0.7 Thread depth 6	Φ8	6	M4×0.7 ×14.5 L			
SI	NCXS□15-20																				
SIF	NCXS□15-30																				
DNC	NCXS□15-40																				
QGB	NCXS□15-50																				
QGBZ	NCXS□20-10	64	25	62	23	11.5	2-M5×0.8 (Through-hole)	50	28	6	12	12	30	2-Φ5.5 Through-hole 2-Φ9.5 Counterbore depth 5.3	2-M4×0.7 Thread depth 6	Φ10	8	M6×1.0 ×18.5 L			
NCQ2	NCXS□20-20																				
NCQ2(Big)	NCXS□20-30																				
NCQ2(Long)	NCXS□20-40																				
NCQS	NCXS□20-50																				
NCQM	NCXS□20-75	80	30	78	28	14	2-M6×1.0 (Through-hole)	60	35	6	12	12	30	2-Φ6.9 Through-hole 2-Φ11 Counterbore depth 6.3	2-M5×0.8 Thread depth 7.5	Φ12	10	M6×1.0 ×18.5 L			
NRQ	NCXS□20-100																				
SDA	NCXS□25-10																				
ADVU	NCXS□25-20																				
ACE(AND)	NCXS□25-30																				
MAL	NCXS□25-40	98	38	96	36	18	2-M6×1.0 (Through-hole)	75	44	8	16	14	30	2-Φ6.9 Through-hole 2-Φ11 Counterbore depth 6.3	2-M5×0.8 Thread depth 8	Φ16	13	M8 ×1.25 ×23 L			
MA	NCXS□25-50																				
MI	NCXS□25-75																				
NCM2	NCXS□25-100																				
NCJ2	NCXS□32-10																				
NCG1	NCXS□32-20	98	38	96	36	18	2-M6×1.0 (Through-hole)	75	44	8	16	14	30	2-Φ6.9 Through-hole 2-Φ11 Counterbore depth 6.3	2-M5×0.8 Thread depth 8	Φ16	13	M8 ×1.25 ×23 L			
NCJP	NCXS□32-30																				
TD	NCXS□32-40																				
TN(TDA)	NCXS□32-50																				
NCXS	NCXS□32-75																				
NCXSW	NCXS□32-100																				
	Model	P	PP	Q	QQ	R	RR	S	SS	T	TT	U	UU	V	W	X	Y	Z	ZZ		
NMGP	NCXS□10-10	33.6	M4 × 0.7	8.5	7	30	7	10	65	-	5	8	2-M5×0.5 Thread depth 4.5 (Piping port) (Opposite side same)	4-M3×0.5 Thread depth 4.5 (Opposite side same)	2-M4×0.7 Thread depth 7	M3×0.5 ×10 L	M3×0.5 ×5 L	30	82		
NMGG	NCXS□10-20							20	75										92		
NCUJ	NCXS□10-30							30	85										102		
NCY3B	NCXS□10-40							40	95										112		
NCY3R	NCXS□10-50							50	105										122		
NCY1S	NCXS□15-10	48	M4 × 0.7	10	10	38.5	10	10	70	-	5	8	2-M5×0.8 Thread depth 4.5 (Piping port) (Opposite side same)	4-M4×0.7 Thread depth 5 (Opposite side same)	2-M5×0.8 Thread depth 8	M5×0.8 ×10 L	M4×0.7 ×4 L	25	89		
NCY1L	NCXS□15-20							20	80										99		
STM	NCXS□15-30							30	90										109		
NMXH	NCXS□15-40							40	100										119		
NMXS	NCXS□15-50							50	110										129		
NMXQ	NCXS□20-10	53	M6 × 1.0	7.75	12.5	45	7.75	10	80	9.5	6.5	8	2-M5×0.8 Thread depth 4.5 (Piping port) (Opposite side same)	8-M4×0.7 Thread depth 6 (Opposite side same)	2-M6×1.0 Thread depth 10	M6×1.0 ×12 L	M5×0.8 ×5 L	30	104		
NMHZ2	NCXS□20-20							20	90										114		
NMHC2	NCXS□20-30							30	100										124		
NMHL2	NCXS□20-40							40	110										134		
NMHY2	NCXS□20-50							50	120										144		
NMHT2	NCXS□20-75	64	M6 × 1.0	8.5	15	46	15	75	145	13	9	9	4-1/8×0.8 Thread depth 6.5 (Piping port) (Opposite side same)	8-M8×0.8 Thread depth 7.5 (Opposite side same)	2-M8×1.25 Thread depth 12	M6×1.0 ×14 L	M6×1.0 ×5 L	40	169		
NMHW2	NCXS□20-100							100	170										194		
NMHF2	NCXS□25-10							10	82										106		
NMHS2	NCXS□25-20							20	92										116		
NMHS3	NCXS□25-30							30	102										126		
NMHS4	NCXS□25-40	76	M8 × 1.25	9	19	56	19	40	112	20	11.5	10	4-1/8×0.8 Thread depth 6.5 (Piping port) (Opposite side same)	8-M5×0.8 Thread depth 7.5 (Opposite side same)	2-M8×1.25 Thread depth 12	M8 ×1.25 ×16 L	M8 ×1.25 ×8 L	50	136		
NMRHQ	NCXS□25-50							50	122										146		
NMSQ	NCXS□25-75							75	147										171		
NCRA1	NCXS□25-100							100	172										196		
NCRQ2	NCXS□32-10							10	92										122		
NCRB2	NCXS□32-20	76	M8 × 1.25	9	19	56	19	20	102	20	11.5	10	4-1/8×0.8 Thread depth 6.5 (Piping port) (Opposite side same)	8-M5×0.8 Thread depth 7.5 (Opposite side same)	2-M8×1.25 Thread depth 12	M8 ×1.25 ×16 L	M8 ×1.25 ×8 L	40	132		
ACK	NCXS□32-30							30	112											50	142
SRC	NCXS□32-40							40	122												152
QCK	NCXS□32-50							50	132												162
NCK1	NCXS□32-75							75	157												187
	NCXS□32-100							100	182												212



Specifications

Bore size(mm)	20	25	32
Fluid	Air (to be filtered by 40μm filter element)		
Proof pressure	1.05MPa		
Maximum operating pressure	0.7MPa		
Minimum operating pressure	0.1MPa		
Ambient and fluid temperature	-10 to 60°C (No freezing)		
Piston speed (mm/s)	50~1000		
Port size	M5×0.8	Rc1/8 (NPT1/8, G1/8)	
Bearing type	Slide bearing, Ball bushing bearing (Same dimensions for both)		
Cushion	Air cushion (Both ends)		

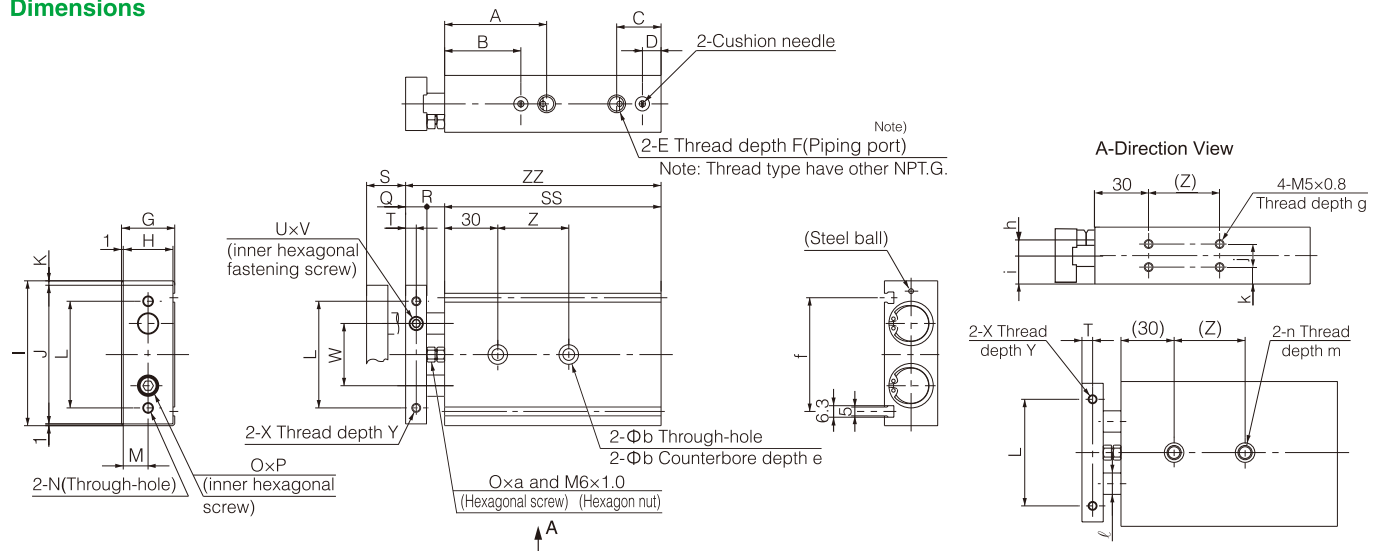
Ordering code

N C X S M		20		-	100	A	Z73	
Bearing type								
M	Slide bearing							
L	Ball bushing bearing							
Bore size								
20	20mm							
25	25mm							
32	32mm							
Thread type								
Symbol	Type	Bore size						
Blank	M thread	Φ20						
	Rc							
TN	NPT	Φ25, Φ32						
TF	G							
Stroke								
Bore size	Stroke							
Φ20	20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100							
Φ25, Φ32	25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100							
Bilateral air cushion								
Magnetic switch type								
Blank	Without magnetic switch							
Z73	With magnetic switch							
Number of magnetic switches								
Blank	2 pcs.							
S	1 pc.							
n	"n" pcs.							

* Behind the magnetic switch type,
Wire length representation mark:
no mark-0.5m, L-3m, Z-5m.

* Behind the magnetic switch type,
Wire length representation mark:
no mark-0.5m, L-3m, Z-5m.

Dimensions



Bore size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T	U	V	W	X	Y	a	b	d	e	f	g	h	i	j
20	53.5	43	19	9	M5×0.8	4.5	25	23	37.5	62	(4.5)	50±0.2	11.5	M5×0.8	M6×1	12	12	12	6	M8×1.25	6	28	M4×0.7	6	18.5	5.5	9.5	5.3	53	5.5	6.5	12.5	9.5
25	57.5	45.5	22	10	1/8"	6.5	30	28	81.5	78	(2.5)	60±0.2	14	M6×1	M6×1	14	12	12	6	M8×1.25	6	35	M5×0.8	7.5	18.5	6.9	11	6.3	64	7.5	9	15	13
32	67.5	54	23.5	10	1/8"	6.5	38	36	102	96	(5)	75±0.2	18	M6×1	M8×1.25	16	16	14	8	M10×1.25	8	44	M5×0.8	8	23	6.9	11	6.6	76	7.5	11.5	19	20

Bore size	k	l	m	n	Part No.	S	SS	ZZ	Z
20	7.75	10	10	M6×1	NCXS□20-20A	20	92	116	30
25	8.5	12	12	M8×1.25	NCXS□20-25A	25	97	121	
32	9	16	12	M8×1.25	NCXS□20-30A	30	102	126	
					NCXS□20-35A	35	107	131	
					NCXS□20-40A	40	112	136	40
					NCXS□20-45A	45	117	141	
					NCXS□20-50A	50	122	146	
					NCXS□20-60A	60	132	156	
					NCXS□20-70A	70	142	166	60
					NCXS□20-75A	75	147	171	
					NCXS□20-80A	80	152	176	
					NCXS□20-90A	90	162	186	
					NCXS□20-100A	100	172	196	
Bore size	k	l	m	n	Part No.	S	SS	ZZ	Z
20	7.75	10	10	M6×1	NCXS□25-25A	25	100	124	30
25	8.5	12	12	M8×1.25	NCXS□25-30A	30	105	129	
32	9	16	12	M8×1.25	NCXS□25-35A	35	110	134	
					NCXS□25-40A	40	115	139	
					NCXS□25-45A	45	120	144	40
					NCXS□25-50A	50	125	149	
					NCXS□25-60A	60	135	159	
					NCXS□25-70A	70	145	169	
					NCXS□25-75A	75	150	174	60
					NCXS□25-80A	80	155	179	
					NCXS□25-90A	90	165	189	
					NCXS□25-100A	100	175	199	
Bore size	k	l	m	n	Part No.	S	SS	ZZ	Z
20	7.75	10	10	M6×1	NCXS□32-25A	25	112	142	40
25	8.5	12	12	M8×1.25	NCXS□32-30A	30	117	147	
32	9	16	12	M8×1.25	NCXS□32-35A	35	122	152	
					NCXS□32-40A	40	127	157	
					NCXS□32-45A	45	132	162	50
					NCXS□32-50A	50	137	167	
					NCXS□32-60A	60	147	177	
					NCXS□32-70A	70	157	187	
					NCXS□32-75A	75	162	192	70
					NCXS□32-80A	80	167	197	
					NCXS□32-90A	90	177	207	
					NCXS□32-100A	100	187	217	

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXS
NCXS
NMGW
NMGW
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
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NMHS2
NMHS3
NMHS4
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