

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)



Symbol



Product feature

1. Enterprises standard is implemented.
2. Embedded installation and fixation mode saves the installation space.
3. It is good resistance to bending and twisting moments.
4. Mounting holes on three sides facilitates multi-position mounting.
5. Bumper in front of the barrel can adjust the stroke of cylinder and relieve impact.
6. Standard configuration of this series has magnet and the type without magnet is not available.

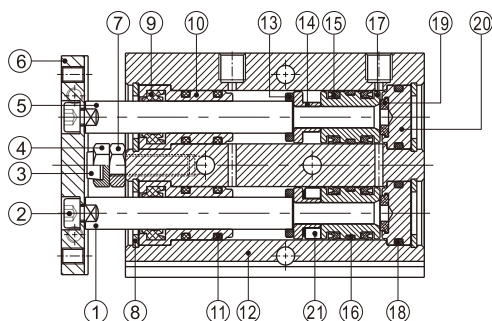
Ordering code

TN		20	×	50	S		
Model		Bore size	Stroke		Magnet Note 1)	Thread type Note 2)	
TN	Twin-rod cylinder (Double acting type)	10	10mm		S With magnet	Blank	PT
		16	16mm			G	G
		20	20mm			T	NPT
		25	25mm				
		32	32mm				
			Refer to stroke table for details				

- Note: 1. TN Series are all with magnet.
2. When the thread is standard, the code is blank.

Inner structure and material of major parts

TN



Specifications

Bore size(mm)	10	16	20	25	32
Acting type	Double acting				
Fluid	Air (to be filtered by 40μm filter element)				
Operating pressure	0.15~1.0MPa(22~145psi)				
Proof pressure	1.5MPa(215psi)				
Temperature (°C)	-20~70				
Speed range (mm/s)	30~500				
Adjustable stroke (mm)	-10~0				
Stroke tolerance	≤100 ^{+1.0} ₀ >100 ^{+1.5} ₀				
Cushion type	Bumper				
Non-rotating tolerance Note 1)	±0.4°		±0.3°		
Port size Note 2)	M5×0.8				1/8"

Note 1: Retract position.

2: PT thread, G thread and NPT thread are available.

Standard stroke

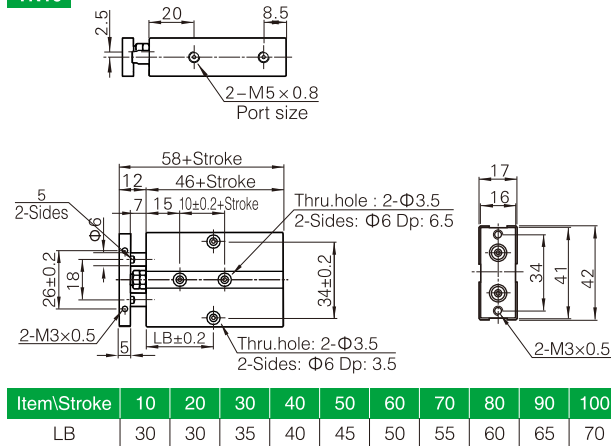
Bore size (mm)	Standard stroke (mm)															Max.std strole
10	10	20	30	40	50	60	70	80	90	100						100
16	10	20	30	40	50	60	70	80	90	100	125	150	175	200		200
20	10	20	30	40	50	60	70	80	90	100	125	150	175	200		200
25	10	20	30	40	50	60	70	80	90	100	125	150	175	200		200
32	10	20	30	40	50	60	70	80	90	100	125	150	175	200		200

Note: When the stroke less then or equal to 100mm, The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. cylinder. e.g. 35mm stroke cylinder has the same dimensions of 40 std. stroke cylinder.

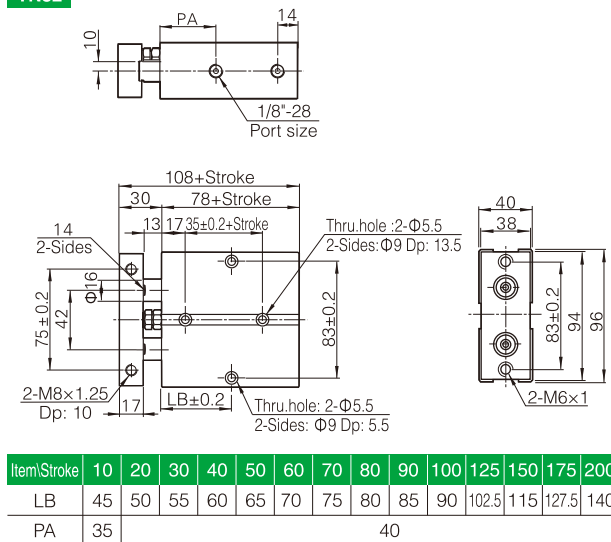
NO.	Item	Material	NO.	Item	Material
1	Piston rod B	Φ32 S45C	12	Body	Aluminum alloy
		Other SUS304	13	Bumper	TPU
2	Screw	Carbon steel	14	Magnet holder	Φ10 SUS303 Other Aluminum alloy
3	Bumper	POM			
4	Adjustable nut	Carbon steel	15	Piston seal	NBR
5	Piston rod A	S45C	16	Wear ring	Wear resistant material
6	Fixing plate	Free cutting steel	17	Piston	Φ10 SUS303 Other Aluminum alloy
7	Screw	Carbon steel			
8	C clip	Spring steel	18	Seal ring	NBR
9	Wiper seal	NBR	19	Bumper	TPU
10	Front cover	Aluminum alloy	20	Back cover	Aluminum alloy
11	O-ring	NBR	21	Magnet	Sintered metal(Neodymium-iron-boron)

Dimensions

TN10

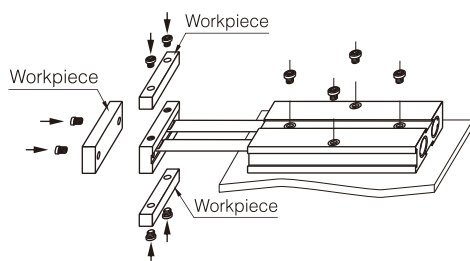


TN32

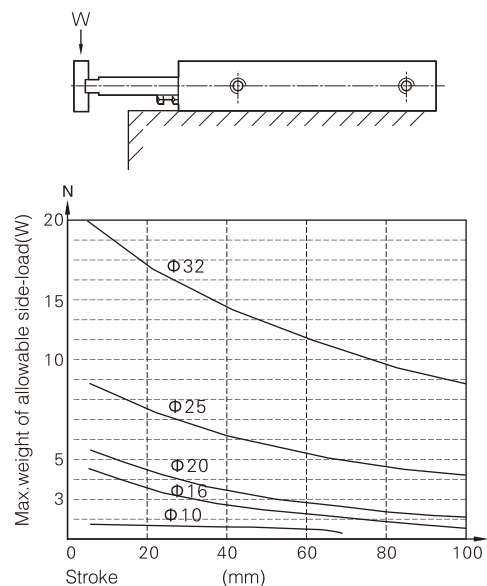


Installation and application

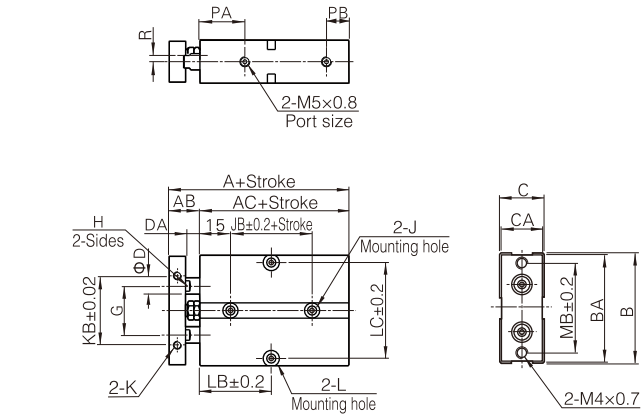
1. How to mount workpiece



2. Max. weight of allowable side-load



TN16~25



Bore size\Item	A	AB	AC	B	BA	C	CA	D	DA	G	H	J		
16	68	15	53	54	53	21	20	8	7	24	6	Both sides:Φ7.5Dp:7.5Thru.hole:Φ4.5		
20	78	20	58	62	61	25	24	10	10	28	8	Both sides:Φ7.5Dp:7.5Thru.hole:Φ4.5		
25	81	19	62	73	72	30	29	12	9	34	10	Both sides:Φ7.5Dp:7.5Thru.hole:Φ4.5		

Bore size\Item	JB	K	KB	PA	PB	L			LC	MB	R
16	20	M4x0.7Dp:5	34	22	11	Both sides:Φ8Dp:4.5Thru.hole:Φ4.5			47	47	3
20	20	M4x0.7Dp:5	44	25	12	Both sides:Φ8Dp:4.5Thru.hole:Φ4.5			55	55	3.5
25	30	M4x0.7Dp:6	56	27	12	Both sides:Φ8Dp:4.5Thru.hole:Φ4.5			66	66	6

Bore size\Item	LB														
Stroke≤	10	20	30	40	50	60	70	80	90	100	125	150	175	200	
16	30	35	40	45	50	55	60	65	70	75	87.5	100	112.5	125	
20	35	35	40	45	50	55	60	65	70	75	87.5	100	112.5	125	
25	40	40	45	50	55	60	65	70	75	80	92.5	105	117.5	130	

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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