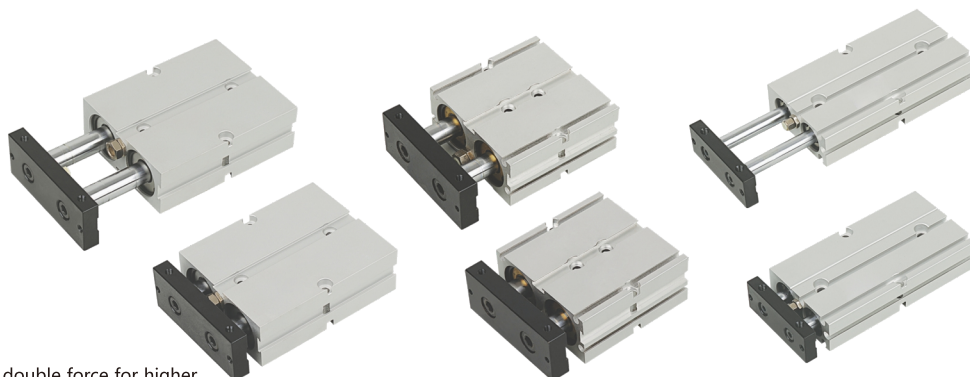




Features

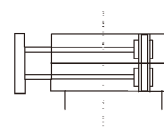
Double rod with double force for higher anti-bending and anti-twisted strength ensured durable life and perfect directional characteristic.

Ordering Code

TN	20	x	50
Type	Bore		Stroke
TN: Double-shaft double acting	10		
	16		
	20		
	25		
	32		

*TN Series attached magnetic ring
*Sensor model JEL-11, please refer to P173 for the specific ordering code.

Symbol



Specification

Bore (mm)	10	16	20	25	32
Working Medium	Air				
Operation	Double Acting				
Operation Pressure Range	0.15~1.0MPa				
Ensure Pressure Resistance	1.5MPa				
Operation Temperature Range	-10~70°C				
Operation Speed Range	30~500 mm/s				
Adjustable Stroke	-10~0 mm				
Cushion	Not Available	Cushion Gasket			
Presion Of Non-Rotating	± 0.4°	± 0.3°			
Port Size	M5x0.8				1/8

The Max. operating pressure is subject to the Max. load of hydraulic buffer.

Stroke

Bore (mm)	Standard Stroke														Max. Stroke	Allowable Stroke
10	10	20	30	40	50	60	70								70	100
16	10	20	30	40	50	60	70	80	90	100	125	150			150	200
20	10	20	30	40	50	60	70	80	90	100	125	150			150	200
25	10	20	30	40	50	60	70	80	90	100	125	150			150	200
32	10	20	30	40	50	60	70	80	90	100	125	150			150	200

Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

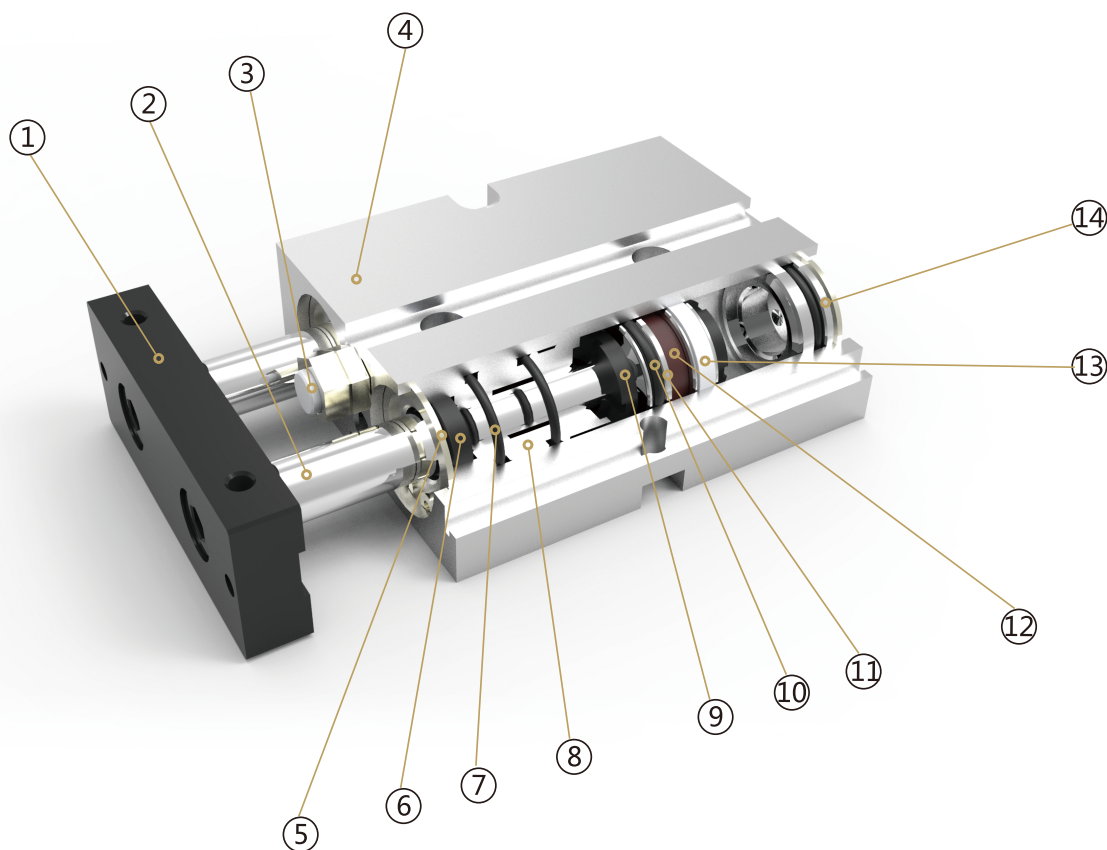
Sensor

TN Series

Double Rod Cylinder



Internal Structure



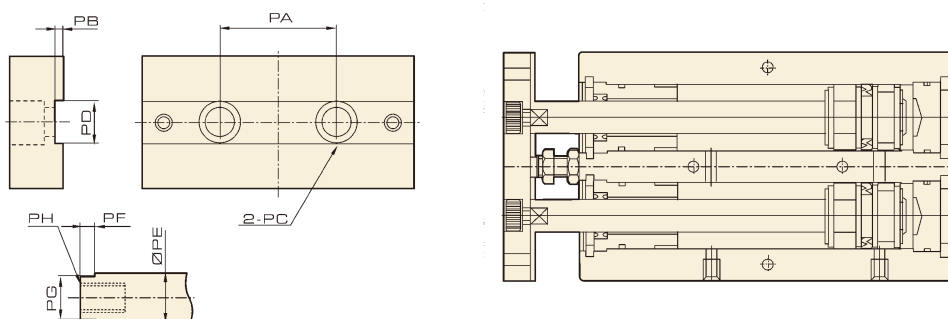
Parts

Number	Name	Number	Name
1	Fixing plate	8	Front cover
2	Piston rod	9	Anti-collision washer
3	Anti-collision head	10	Piston seal
4	Cylinder body	11	Piston
5	Circlips for holes	12	Magnet
6	Shaft seal	13	Anti-friction ring
7	O ring	14	Back cover

Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC/SU
SCT
SC A.
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MALC A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
JHL2
JHF2
JHZ2
JHY2
JHC2
JXH
JXQ
JXS
TN
JGP
JSQB
Sensor

Overall Dimension

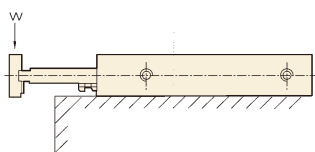
- TN
- Ø10~Ø25



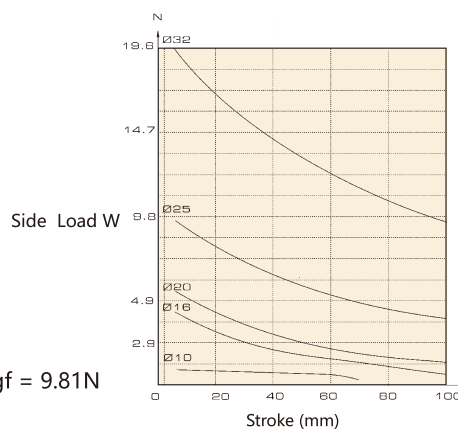
Dimension

Bore / Symbol	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.5	Φ6.2 deep 3.5 mm, Through Hole: Φ4.5	5.2	6	3	5	M3 × 0.5 deep 5 mm
16	24	1	Φ7.8 deep 4.6 mm, Through Hole: Φ4.5	6.2	8	3	6	M4 × 0.7 deep 46 mm
20	28	1	Φ11 deep 6.8 mm, Through Hole: Φ4.5	8.2	10	3	8	M6 × 1 deep 48 mm
25	34	1	Φ11 deep 6.8 mm, Through Hole: Φ4.5	10.2	12	3	10	M6 × 1 deep 48 mm
32	42	2	Φ17 deep 12 mm, Through Hole: Φ4.5	14.2	16	3	14	M10 × 1.5 deep 14 mm

Allowable size load



*1Kg = 9.81N



Cylinder

Calculation

SI

SI A.

SIB

SQ

DNT

SC/SU

SCT

SC A.

DN

DSN

DN/DSN A.

MA

MAC

MA/MAC A.

MAL

MALC

MAL/MALC A.

SDA

CQ2

TCQ2

ADN

TADN

PPRM

JHL2

JHF2

JHZ2

JHY2

JHC2

JXH

JXQ

JXS

TN

JGP

JSQB

Sensor

[illegible]

Bore Symbol	A	B	C	D	E												F	G	H	I
					10	20	30	40	50	60	70	80	90	100	125	150				
16	68	15	53	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	8	34

Bore Symbol	J	K	L	M	N1	N2	P1	P2	Q	R	S	T	V	W
16	M4×0.7 deep 5	47	53	20	22	10	Double side: Φ7.5 Deep: 7.2mm, Through Hole: Φ4.5	Double side: Φ8 Deep: 4.4mm, Through Hole: Φ4.5	34	3	54	21	8	6.2
20	M4×0.7 deep 5	55	61	24	25	12	Double side: Φ7.5 Deep: 7.2mm, Through Hole: Φ4.5	Double side: Φ8 Deep: 4.4mm, Through Hole: Φ4.5	44	3.5	62	25	10	8.1
25	M4×0.8 deep 6	66	72	27	30	12	Double side: Φ7.5 Deep: 7.2mm, Through Hole: Φ4.5	Double side: Φ8 Deep: 4.4mm, Through Hole: Φ4.5	56	7	73	30	12	10.2

Bore Symbol	A	B	C	D	E													
					10		20		30		40		50		60		70	
10	63	12	51	10	30		30		35		40		45		50		55	
32	108	30	78	35	10	20	30	40	50	60	70	80	90	100	125	150		
					45	50	55	60	65	70	75	80	85	90	102.5	115		