

## Rodless Cylinder

### Series TCRL

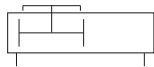
Bore Size :  $\phi$  16,  $\phi$  20,  $\phi$  25,  $\phi$  32,  $\phi$  40,  
 $\phi$  50,  $\phi$  63,  $\phi$  80



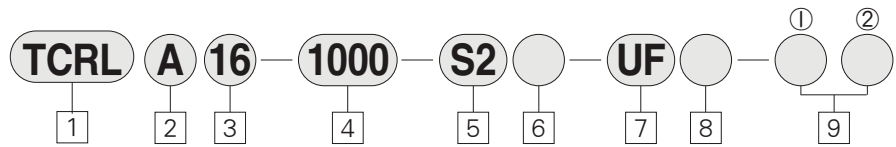
- High rigidity, long service life
- Easy maintenance
- Various bore size
- Suitable for the widest range of operating speeds(100~2,000mm/sec)

< Symbol >

Double Acting Type



## How to Order



① TPC Rodless Cylinder  
(Built in Magnet)

② Guide Type  
A : Inside Guide  
B : Outside Guide

③ Bore Size  
16 : 16mm  
20 : 20mm  
25 : 25mm  
32 : 32mm  
40 : 40mm  
50 : 50mm  
63 : 63mm  
80 : 80mm

④ Stroke  
Max.5,000mm

⑤ Auto Switch  
Blank : Non-Switch  
S2 : Reed Switch  
(DC10V~AC220V a Combined use)  
M2 : Mini Reed Switch  
(DC10V~170V, AC10V~240V a Combined use)

Bore Size	Switch Type	Model
$\phi$ 16 ~ $\phi$ 25	QM/45/EAP	QM-45-LSU-2V
$\phi$ 32 ~ $\phi$ 80	QM/33 Reed 240VAC/AC	QM-33

⑥ Number of Auto Switch  
Blank : 2 pcs  
S : 1 pcs  
n : n pcs

⑦ Option  
Blank : Non  
F : Foot mount(2EA)  
C : Center support(2EA)  
UF : Carriage bracket front  
(1 set)  
UR : Carriage bracket rear  
(1 set)  
S : Swinging bridge  
※1) Carriage Bracket  
• Front : arm at port side  
• Rear : arm at opposite port side  
※2) Option UF, UR:unable use C.  
※3) Option S:TCRLA type only.

⑧ Number of Option  
Blank : 1 set  
2 : 2 set  
n : n set

⑨ The plural number of option :  
① Additional option  
② Additional number of option

## Specifications

Bore Size	$\phi$ 16	$\phi$ 20	$\phi$ 25 ~ 80
Operation Type	Double Acting Type		
Fluid	Air(Non-Lubrication)		
Operating Pressure Range	1.5 ~ 10kgf/cm <sup>2</sup> (0.15 ~ 1MPa)	1 ~ 10kgf/cm <sup>2</sup> (0.1 ~ 1MPa)	
Temperature Range · °C(°F)	-5 ~ 60°C(23~140°F)		
Piston Speed	150 ~ 2,000mm/s		100 ~ 2,000mm/s
Cushion	Cushion of Variable Type		
Magnet(For Auto Switch)	Standard		
Support Type	Basic Type		

※ In the case of low temperature at the below 1.5°C, please use the air dryer.

## Theoretical Force

(N)

Bore size	Standard Stroke(mm)									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
$\phi$ 16	20	40	60	80	100	120	140	160	180	200
$\phi$ 20	31	63	94	126	157	188	220	250	280	314
$\phi$ 25	49	98	147	196	245	294	343	390	441	490
$\phi$ 32	80	161	241	322	402	482	563	643	724	804
$\phi$ 40	126	251	377	502	628	754	879	1005	1130	1256
$\phi$ 50	196	393	589	785	982	1178	1374	1570	1767	1963
$\phi$ 63	312	623	935	1246	1558	1869	2181	2493	2804	3116
$\phi$ 80	502	1005	1507	2010	2512	3014	3517	4019	4522	5024