Airtac

TACQ Series(With guider type)



Symbol





Product feature

- 1. JIS standard is implemented and with guider.
- 2. C clip is adopted to connect the cylinder body and back cover or front cover to make it compact and reliable.
- TACQ

 3. The internal diameter of the body is treated with rolling followed by the treatment of hard anodizing, forming an excellent abrasion resistance and durability.
 - 4. The seal of piston adopts heterogeneous two-way seal structure. It has compact dimension and the function of greasel reservation.
 - 5. Compact structure can effectively save installation space.
 - 6. There are magnetic switch slots around the cylinder body, which is convenient to install inducting switch.
 - 7. Double rod non-rotating structure enables to bear large working load and lateral load.

Specification

Bore size(mm)	12 1	16	20	25	32	40	50	63	80	100			
Acting type		Double acting											
Fluid		Air(to be filtered by 40 μ m filter element)											
Operating pressure		0.1~1.0MPa(14~145psi)											
Proof pressure	1.5MPa(215psi)												
Temperature °C	-20~80												
Speed range mm/s					30~	500							
Stroke tolerance					+1	.0							
Cushion type					Bun	nper							
Port size ①		< 0.8		1/	/8"	1,	/4"	3/	8"				
Non-rotating tolerance 2	± 0.2°					± ().1°						

① PT thread, NPT thread and G thread are available. ② Retract position. Add) Refer to P397~420 for detail of sensor switch.

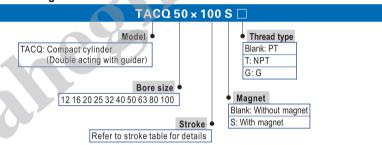
Stroke

Bore size (mm)						Max. std	Middle stroke							
	5		15	20	25	30	35	40	45	50	75	100	stroke(mm)	range(mm)
12 16	•	•	•	•	•	•	×	×	×	×	×	X	30	1~29
20 25	•	•	•	•	•	•	•	•	•	•	×	×	50	1~49
32 40	•	•	•	•	•	•	•	•	•		•		100	1~99
50 63 80 100	×	•	•	•	•	•	•	•				•	100	5~99

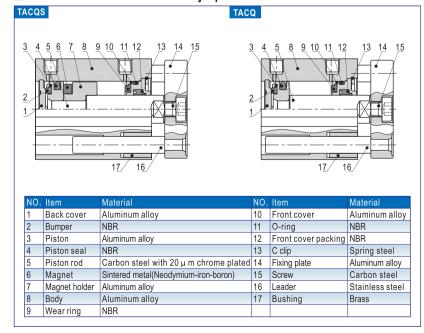
Note) 1. Please contact the company for other special strokes.

2. The dimensions of non-std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder. e.g. 23mm stroke cylinder has the same dimensions of 25 std. stroke cylinder.

Ordering code



Inner structure and material of major parts

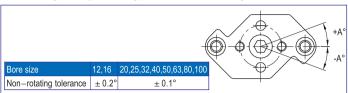




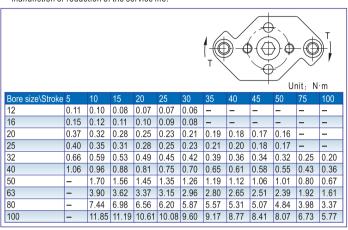
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Installation and application

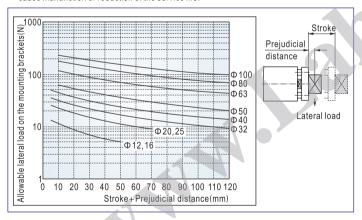
 TACQ series cylinder is designed with double guide rod which is non-rotating. Make sure the non-rotating accuracy of the fixing plate is in the allowable range.



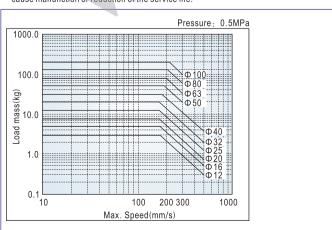
Do not apply reverse torque to the piston rods. The torque beyond the limits may cause malfunction or reduction of the service life.



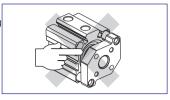
Make sure the lateral load on the mounting bracket is within the limits. Any exceeding may cause malfunction or reduction of the service life.



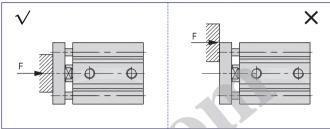
4. Make sure the load quality and the maximum speed are within the limits. Any exceeding may cause malfunction or reduction of the service life.



- 5. Caution before mounting:
 - 5.1) Do not put hands between the mounting bracket and cylinder, which may cause damage to a human body when the piston rod retracts.



5.2) Make sure the external force against the mounting bracket is concentric with the piston rod. Any extra torque may cause damage to the cylinder.

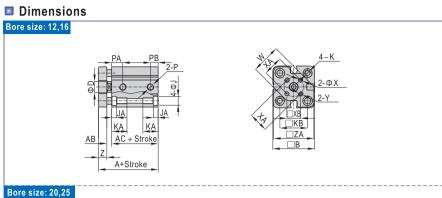


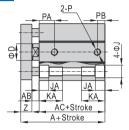
- 5.3) Install the fixture onto the mounting bracket only when the piston rod is in the retraction state. Do not apply the installation torque on the guide rod.
- 5.4) Avoid any damage on piston rod and guide rod, which may cause damage on seals and air leakage or malfunction.

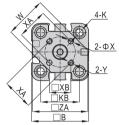


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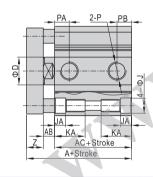


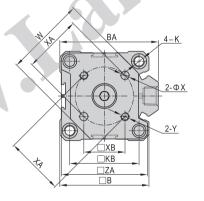


Bore size\item	Α	AC	PA	PR	А	AC	PA	PB	AB	P	В	D		JA
Magnet	٧	Vithout	t magr	et		With r	nagne	t	AD	Г	Ь	U		JA
12	26.5	17.3	7.5	5	37.5	28.3	9	7	3	$M5 \times 0.8$	26	6	6.5	3.5
16	28	19	8	5.5	40	31	9.5	5.5	3	$M5 \times 0.8$	30	8	6.5	3.5
20	32	20.5	9	5.5	44	32.5	9.5	5.5	3.5	$M5 \times 0.8$	36	10	9	7
25	35.5	23	11	5.5	45.5	33	11	5.5	4.5	$M5 \times 0.8$	41	12	9	7

Bore size\Item	K	KA	KB	W	Χ	XA	XB	Υ	Z	ZA
12	M4 × 0.7 Thru.hole: Φ 3.4	11.5	15.5	15	3	10	7.1	$M3 \times 0.5$	6	25
16	M4 × 0.7 Thru.hole: Φ 3.4	11.5	20	21	3	14	9.9	$M3 \times 0.5$	6	29
20	M6 × 1.0 Thru.hole: Φ 5.2	18	25.5	26	4	17	12	$M4 \times 0.7$	8	35
25	M6 × 1.0 Thru.hole: Φ 5.2	17.5	28	30	5	22	15.6	$M5 \times 0.8$	8	40

Bore size: 32~100





Bore size\Item	A AC				Α	AC										
bore size\item		Without	magnet		With magnet		AB	В	ВА	D		JA	K			
Stroke	St≤50	St≥75	St≤50	St≥75												
32	40		23.5		50	33.5	6.5	45	49.5	16	9	7	M6 × 1.0 Thru.hole: Φ 5.2			
40	46.5		29.9		56.5	39.9	6.6	53	57	16	9	7	$M6 \times 1.0$ Thru.hole: $\Phi 5.2$			
50	50.5	60.5	31	41	60.5	41	7.5	64	71	20	11	8	M8 × 1.25 Thru.hole: Φ 6.8			
63	56	66	36	46	66	46	8	77	84	20	14	10.5	M10 × 1.5 Thru.hole: Φ 8.5			
80	67.5	77.5	43.5	53.5	77.5	53.5	10	98	104	25	17.5	13.5	M12 × 1.75 Thru.hole: Φ 10.3			
100	81	91	53	63	91	63	12	117	123.5	32	17.5	13.5	M12 × 1.75 Thru.hole: Φ 10.3			

Bore size\Item	LΑ	KB	Р	PA	PB	PA	PB	W	Х	XA	ХВ	Υ	7	ZA	
Dore Size(itelli		KA		ΝĐ	Without	magnet	With m	nagnet	VV	^	AA	ΛĐ			_
32	St=5	17.5	34	1/8"	7.5	6.5	10.5	7.5	37	5	28	19.8	M5 × 0.8	10	43
32	St>5	17.5	34	1/0	10.5	7.5	7.5	31	J	20	19.0	IVIO X U.O	10	43	
40		17.5	40	1/8"	11	8	11	8	46	5	33	23.3	$M5 \times 0.8$	10	51
50		22.5	50	1/4"	10.5	10.5	10.5	10.5	58	6	42	29.7	$M6 \times 1.0$	12	62
63		28.5	60	1/4"	15	10.5	15	10.5	69	6	50	35.4	M6 × 1.0	12	75
80		35.5	77	3/8"	16	14	16	14	90	8	65	46	M8 × 1.25	14	95
100		35.5	94	3/8"	20	17.5	20	17.5	113.5	10	80	56.6	$M10 \times 1.5$	16	114.5



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