

OS3



Feature

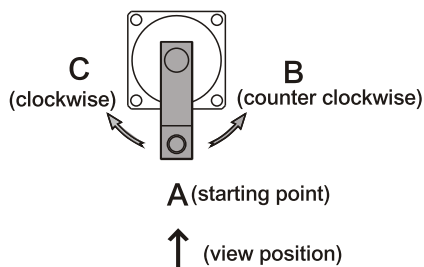
- To save space, OS3 is designed to be much shorter than OS1 product.
- A threaded body of OS3 can be used to fix the OS3 cylinder on a system.

Theoretical force

bore (mm)	rod (mm)	pressed area (cm ²)	theoretical clamp force(kgf)	
			25kgf/cm ²	70kgf/cm ²
25	18	2.4	60	168
32	20	4.9	123	343
40	20	9.4	235	658
50	20	16.5	413	1155
63	25	26.2	658	1834

Spec.

bore(mm)	25	32	40	50	63
acting	double acting				
swivel angle	90°, 180°				
swivel direction	left(L) or right(R)				
swivel stroke(mm)	12(21)			14(21)	
clamp stroke(mm)	14(5)			15(8)	
fluid	oil mineral				
max. working pressure (kgf/cm ²)	70				
test pressure(kgf/cm ²)	105				



- L: left turn with counter clockwise direction:
 A: starting point
 B: clamping point
- R: right turn with clock wise direction :
 A: starting point
 B: clamping point

Standard stroke

bore angle		25	32	40	50	63
	90°					
	L					
	R					
180°		no standard stroke				

Structures and part names

A detailed cross-sectional diagram of a mechanical assembly, likely a hydraulic cylinder or a similar fluid-powered actuator. The diagram shows a central rod (3) passing through a rod cover (4) and a piston (2) within a tube (1). The rod is sealed by rod packing (7) and a dust seal (6). The piston is sealed by piston packing (9) and a piston wearing ring (10). The assembly is held together by a clamp arm (5) and a clamp holder (19), secured with clamp bolts (18) and hex nuts (17). A guide rod (3) is also shown, supported by guide pins (13) and guide rod o-rings (11). The diagram includes various other components like a rod cover o-ring (8), a steel ball (14), and a keeper pin (12). The parts are numbered 1 through 19, corresponding to the parts list on the right.

item	part name	q'ty	item	part name	q'ty
①	tube	1	⑪	guide rod o-ring	1
②	rod+piston	1	⑫	keeper pin	1
③	guide rod	1	⑬	guide pin	1
④	rod cover	1	⑭	steel ball	2
⑤	clamp arm	1	⑮	keeper ring	1
⑥	dust seal	1	⑯	hex.bolt	1
⑦	rod packing	1	⑰	hex.nut	1
⑧	cover o-ring	1	⑱	clamp bolt	1
⑨	piston packing	1	⑲	clamp holder	1
⑩	piston wearing	1			

Seal Spec.

name bore	⑥ dust seal		⑦ rod packing		⑧ cover o-ring		⑨ piston packing		⑩ piston wearing		⑪ guide rod o-ring	
	type	q'ty	type	q'ty	type	q'ty	type	q'ty	type	q'ty	type	q'ty
25	DH18	1	UHS18	1	G30	1	754-4339610	1	RYTW4×2t	1	P9	1
32	DH20	1	UHS20	1	G35	1	754-4339810	1	RYTW4×2t	1	P14	1
40	DH20	1	UHS20	1	G35	1	754-4339210	1	RYTW4×2t	1	P14	1
50	DH20	1	UHS20	1	G45	1	754-4327110	1	RYTW4×2t	1	P14	1
63	DH25	1	UHS25	1	G55	1	754-4326910	1	RYTW4×2t	1	P14	1

Order form

OS3 — **SR** — **32** × **90**
 ① ② ③

OS3 : threaded swivel and clamp cylinders

①	type	(1)SR : single side right swivel (3)DR : double sides right swivel (2)SL : single side left swivel (4)DL : double sides left swivel
②	bore(mm)	32、40、50、63
③	swivel angle	90°、180°

External dimensions

● OS3-thread 90° single arm						● OS3-thread 90° double arm					
not bore	A	B	C	D	E ₁	I	J	J ₁	K	L ₁ /L ₂	M
25	100	71	23	□ 25.4	M45×1.5	10	50	120	M10×1.5	RC1/8	9
32	111	78	25	□ 25.4	M50×1.5	10	55	130	M10×1.5	RC1/8	9
40	114	81	27	□ 25.4	M55×1.5	10	55	130	M10×1.5	RC1/8	9
50	114	81	27	□ 25.4	M65×1.5	10	55	130	M10×1.5	RC1/8	9
63	118	85	32	□ 32	M80×2.0	11	75	172	M12×1.75	RC1/8	9

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