

Tie Rod Cylinder ISO 15552 Standard Ø32 to 100 mm



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> AIR CYLINDERS Double Acting - Ø32-100 mm As per ISO 15552 / VDMA 24562 standards

Features

- > Adjustable cushioning at both ends with elastomer pads
- > Wide varieties of mountings.
- > Magnetic and Non magnetic version
- > Optional High temperature (FKM seals) 150°C max.**
- > Optional Non corrosive Stainless steel piston rod and piston rod lock nut (SS 304) **







Technical Specifications

Cylinder bore Ø	(mm)	32	40	50	63	80	100
Cushion stroke	(mm)	21	23	23	23	28	28
Standard stroke	s* (mm)		25, 50, 3	30, 100, 125, 160, 20	00, 250, 300, 320,	400, 500	
Medium				Compressed air-	filtered-lubricate	d	
Working pressu	re, bar			0.5 to	10 bar		
Ambient tempe	rature			-10 to	+60° C		
Medium	Regular			+5º to	+50° C		
temperature	High temperature applications**			+5° to +1	50° C max.		
Materials of con	struction	Aluminium, Br	ass, Steel, Acetal,	Polyurethane, Nit	trile (Regular), FK	M (High tempera	ture)
Mountings				ge, Rear flange, Male Front trunnion, Rear tr			
Accessories		Clevis foot brack	et, Wall mounting b	racket, Trunnion bra	cket, Rod end fork, F	od end aligner, Rod	end spherical eye

* For Non standard or longer stroke cylinders, **contact us**

** Refer Special Ordering number

Applicable only for standard strokes (Upto 500mm)

Output force (force in N: 1N = 0.1 kgf)

Cylinder bore Ø	Rod Ø					Worki	ing pressure	in bar			
(in mm)	(in mm)		2	3	4	5	6	7	8	9	10
32	12	Extend	145	217	289	362	434	507	579	651	724
32	12	Retract	124	187	249	311	373	435	498	559	621
40	16	Extend	226	339	452	565	678	792	905	1018	1130
40	10	Retract	190	285	380	475	570	665	760	855	950
50	20	Extend	353	530	706	884	1060	1237	1414	1590	1767
50	20	Retract	297	445	594	742	891	1039	1187	1336	1484
63	20	Extend	561	842	1122	1403	1683	1964	2244	2525	2805
03	20	Retract	505	757	1009	1261	1514	1766	2018	2270	2523
80	25	Extend	905	1357	1809	2262	2714	3167	3619	4072	4524
80	20	Retract	816	1225	1633	2041	2449	2857	3266	3674	4082
100	25	Extend	1414	2120	2828	3534	4241	4948	5655	6362	7069
100	25	Retract	1325	1988	2650	3313	3976	4640	5300	5965	6625

(Above values have been worked out taking frictional loss into consideration)



Basic cylinder



Cylinder bore	кк	АМ	мм	Sw2	L12	Sw1	B e11	VD	VA	L2	E max	G	TG	RT	BG min	EE	PL	L7	wн	Tol	ZB	Tol	L8	Tol	L9	Stroke tol
32	M10x1.25	22	12	10	6	17	30	6	4	18.5	45	25.5	32.5	M6	16	G1/8	13	5	26		120	±1	94	±0.6	5	
40	M12x1.25	24	16	13	6.5	19	35	6.5	4	20.5	51	29	38	м6	16	G1/4	14.5	5	30	±1.3	135	ΞI	105	10.0	5	+2 +0
50	M16x1.5	32	20	16	8	24	40	6.5	4	28	64	29	46.5	M8	16	G1/4	15	7,5	37		143		106	±0.7	6	
63	M16x1.5	32	20	16	8	24	45	6.5	4	27.5	74	35	56.5	м8	16	G3/8	17	10	37		158	±1,1	121		6	
80	M20x1.5	40	25	21	10	30	45	6.5	4	34	94	35	72	м10	16	G3/8	18	14	46	±1.5	174	±1.1	128	±0.8	6	+2.5 +0
100	M20x1.5	40	25	21	10	30	55	6.5	4	35	111	38.5	89	м10	16	G1/2	18	10	51		189		138		6	

Foot mounting

G	ylinder bore	TR ±0.3	AB H14	AH Js15	A0 max	AT	E	d*	SA	Tol	ХА	Tol	Recommended Bolt size
	32	32	7	32	8	4	46	5.8	142		144		M6
	40	36	10	36	10	4	52	7.8	161	±1.25	163	±1.25	M8
	50	45	10	45	12	5	65	7.8	170		175		М8
	63	50	10	50	12	5	75	7.8	185		190		M8
	80	63	12	63	17	6	95	9.8	210	±1.6	215	±1.5	M10
	100	75	14.5	71	19	6	115	11.8	220		230		M12

* Suitable for reaming

Front Flange



+ Add stroke

+ Add stroke

Cylinder bore	TF ±0.3	R ±0.3	FB H13	MF	UF	E	w	Tol	Recommended Bolt size
32	64	32	7	10	80	50	16		М6
40	72	36	9	10	90	55	20	±1.5	м8
50	90	45	9	12	110	68	25		M8
63	100	50	9	12	125	78	25		M8
80	126	63	12	16	155	100	30	±1.8	м10
100	150	71	14	16	185	120	35		М12

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Rear Flange



+ Add stroke commend Rolt size M6 м8 ±1.5 м8 ±1.8 м10

Male Clevis

+ Add stroke



Cylinder bore	TF ±0.3	R ±0.3	FB H13	MF	UF	E	w	Tol	Recommended Bolt size
32	64	32	7	10	80	50	16		M6
40	72	36	9	10	90	55	20	±1.5	M8
50	90	45	9	12	110	68	25		M8
63	100	50	9	12	125	78	25		м8
80	126	63	12	16	155	100	30	±1.8	м10
100	150	71	14	16	185	120	35		м12
125	180	90	16	20	211	141	45	±2	M12

Male Clevis (with Spherical bearing)





For Ø40,Ø63,Ø100



+ Add stroke

Cylinder bore	CN H7	EN	EU	L	u	ER max	SQ E	SQTG	L2	FL	ØD H11	L3 min	e	Recommended Bolt size
32	10	14	10.5	-	13.5	15.5	45	32.5	5.5	22	30			M6x20
40	12	16	12	15.5	-	17.5	51	38	5.5	25	35			M6x20
50	16	21	15	-	19min	20.5	64	46.5	6.5	27	40	4.5	±4'	M8x20
63	16	21	15	19min	-	22.5	74	56.5	6.5	32	45	4.5	14	M8x20
80	20	25	18	-	24min	27.5	94	72	10	36	45			M10x25
100	20	25	18	24min	-	29.5	m	89	10	41	55			M10x25



Female Clevis



							+ Add	l stroke
Cylinder bore	EK e8	CB H14	Lmin	MR max	EB max	XD	Tol	
32	10	26	12	n	56	142		
40	12	28	15	13	65	160	±1.25	
50	12	32	15	13	73	170		
63	16	40	20	17	86	190		
80	16	50	20	17	106	210	±1.6	
100	20	60	25	21	129	230		

Female Clevis(King pin)



Cylinder bore	JK h9	CG D10	R1	MR max	SQ E	XD	Tol
32	10	14	17	11	45	142	
40	12	16	20	13	51	160	±1.25
50	12	21	22	18	64	170	
63	16	21	25	18	74	190	
80	16	25	30	22	94	210	±1.6
100	20	25	32	22	111	230	

Front Trunnion

Td e9 TL h14 LI L2 approx ØTD 32 12 12 50 48 16 1 18 2 ±1.25 16 16 70 24 1.6 25 Φ 50 75 3 Æ E) R 20 20 110 110 32 1.6 30 1.8 80

Rear Trunnion



+ Add stroke

	Cylinder bore	Td e9	TL h14	TM h14	uw	π	R	L3	Tol	L4 approx
	32	12	12	50	48	16	1	128		16
	40		16	63	55	22	1.6	146	±1.25	19
-	50	16	16	75	70	24	1.6	155		22
<u>ר</u> ב	63	20	20	90	86	28	1.6	172		24
14	80	20	20	110	110	32	1.6	190	±1.8	29
	100	25	25	132	135	40	2	209		33

+ Add stroke

+ Add stroke



+ Add stroke

Centre Trunnion



Cylinder bore	Td e9	TL h14	TM h14	uw	π	R	XV ±2
32	12	12	50	48	16	1	73
40	16	16	63	55	22	1.6	82.5
50	16	16	75	70	24	1.6	90
63	20	20	90	86	28	1.6	97.5
80	20	20	110	110	32	1.6	110
100	25	25	132	135	40	2	120

Note : Cylinder with Centre trunnion is factory fitted, please contact JANATICS - H.O

Accessories for Air Cylinder

Clevis foot Bracket



Cylinder bore	K1 Js14	G2 Js14	S5 H13	CA Js15	ск нэ	EM -0.20.6	G1 Js14	H6	К2	G3	0°	Recommended Bolt size
32	38	18	6.6	32	10	26	21	8	51	31	10	М6
40	41	22	6.6	36	12	28	24	10	54	35	15	м6
50	50	30	9	45	12	32	33	12	65	45	15	М8
63	52	35	9	50	16	40	37	12	67	50	15	м8
80	66	40	11	63	16	50	47	14	86	60	15	м10
100	76	50	11	71	20	60	55	15	96	70	15	м10
@Adoptable to cylinder with female clevis												

Clevis foot bracket (with spherical bearing)



Cylinder bore	K1 Js14	G2 Js14	S5 H13	CA Js15	ск нэ	EU max	G1 Js14	H6	ER max	K2 max	63	EN -0.1	L5
32	38	18	6.6	32	10	10.5	21	10	51	51	31	14	1
40	41	22	6.6	36	12	12	24	10	18	54	35	16	1
50	50	30	9	45	12	15	33	12	21	65	45	21	1
63	52	35	9	50	16	15	37	12	23	67	50	21	1
80	66	40	11	63	16	18	47	14	28	86	60	25	2
100	76	50	11	71	20	18	55	15	30	96	30	25	2
@Adopto	able to cyl	inder with	female c	levis									

Wall Mounting Bracket



Cylinder bore	те	D2	L2	R.	0°	Recommended Bolt size
32	32.5	6.6	5.5	22	90	М6
40	38	6.6	5.5	25	90	М6
50	46.5	9	6.5	27	90	м8
63	56.5	9	6.5	32	90	м8
80	72	11	10	36	60	м10
100	89	11	10	41	60	м10

+ Add stroke

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Trunnion Bracket



rlinder bore	В1	B2	A	dī	d2 H13	d3 H9	HI	H2	нз	K5 Js14
32	46	18	32 ±0.2	11	6.6	12	30	15 ±0.1	23	71
40	55	21	36 ±0.2	15	9	16	36	18 ±0.1	27	87
50	55	21	36 ±0.2	15	9	16	36	18 ±0.1	27	99
63	65	23	42 ±0,2	16.5	11	20	40	20 ±0.1	29	116
80	65	23	42 ±0.2	16.5	11	20	40	20 ±0.1	29	136
100	75	28.5	50 ±0.2	20	14	25	50	25 ±0.1	37	164

Rod & Fork(ISO 8140)



CL кк M10 x 1.25 20 20 32 40 10 10 16 50/63 M16 x 1.5 64 16 16 32 25 32

Rod & Aligner



Cylinder bore	кк	u	L2	н	H2	DI	U	±0°
32	M10 x 1.25	20	14	17	8	28	0.75	5
40	M12 x 1.25	22	18	19	10	32	1	5
50/63	M16 x 1.5	25	22	27	13	41	1	5
80/100	M20 x 1.5	30	28	32	16	50	1.5	5

Rod & Spherical eye (ISO 8139)



Cylinder bore	кк	СИНЭ	т	EN h12	CE	LEmin	ER max	AX	sw	z	
32	M10 x 1.25	10	10.5	14	43	15	14	20	17	13°	
40	M12 x 1.25	12	12	16	50	17	16	22	19	130	
50/63	M16 x 1.5	16	15	21	64	22	21	28	22	15°	
80/100	M20 x 1.5	20	18	25	77	26	25	33	30/32	15	



How to Order

Model		Pisto	Piston Ø (mm)		Stroke (mm)		Mountings		Special Cylind	
	Model Magnetic cylinder Standard cylinder	Pisto 032 040 050 063 080 100	- Ø 32 - Ø 40 - Ø 50 - Ø 63 - Ø 80 - Ø 100	025 050 080 100 125 160 200 250 300	- 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 300	O L F R S G D K M	Mountings - Basic - Foot Mounting - Front Flange - Rear Flange - Male Clevis - Male Clevis (with spherical bearing) - Female Clevis (King pin) - Rear Trunnion	1	Spe H S	- High temp - SS piston rod
				320 400 500	- 320 - 400 - 500	M N T	 Rear Trunnion Front Trunnion Centre Trunnion 			

Cylinder bore Ø	Foot mounting *	Front / Rear flange *	Male clevis *	Female clevis *	Front / Rear trunnion *	Female clevis (King pin) *
		10 0 1 ·		-	0	SP

Cyliders Mountings & Accessories





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