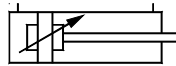


A27 - Magnetic



A28 - Non-magnetic

AIR CYLINDER

Series A27, A28

Cat No A27, A28 - 01 - 01

AIR CYLINDER 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
- ☐ Magnetic sensor common for all sizes
(Refer Magnetic sensor catalogue)



Technical Specifications

Cylinder bore dia (mm)	32	40	50	63	80	100
Cushion stroke (mm)	21	23	23	23	28	28
Standard strokes * (mm)	25 50 80 100 125 160 200 250 300 320 400 500					
Medium	Compressed air - filtered - lubricated					
Working pressure	0.5 - 10 bar					
Medium temperature	5° - 60° C					
Materials of construction	Aluminium, Brass, Nitrile, Steel, Acetal, Polyurethane					
Mountings	Basic cylinder, Foot mounting, Front flange, Rear flange, Male clevis, Female clevis, Front trunnion, Rear trunnion, Centre trunnion					
Accessories	Clevis foot bracket, Wall mounting bracket, Trunnion bracket, Rod end fork, Rod end aligner, Rod end spherical eye					

* For Non standard or longer stroke cylinders, contact your regional office, dealer or **JANATICS**

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

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

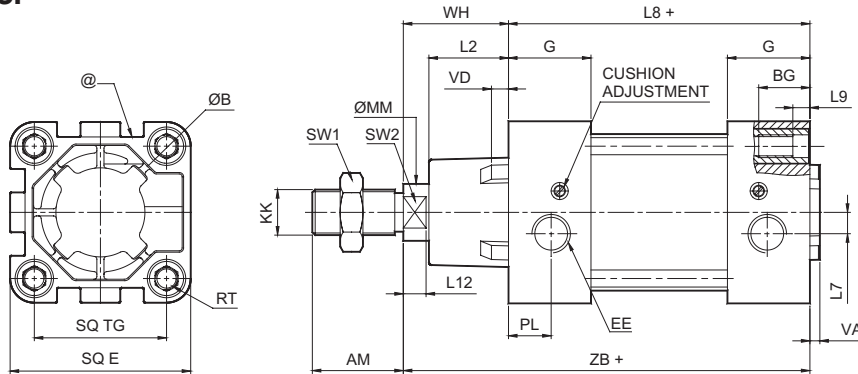
(Above values have been worked out taking frictional loss into consideration)

AIR CYLINDER

Series A27, A28

Cat No A27, A28 - 01 - 01

Basic cylinder

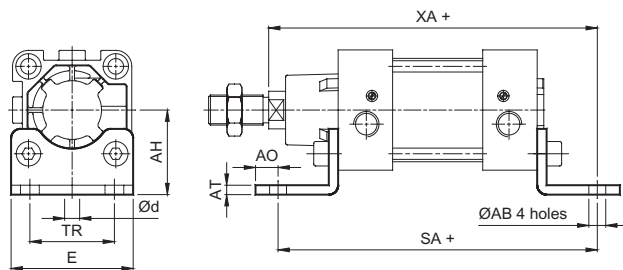


+ Add stroke

Bore dia	KK	AM	MM	SW2	L12	SW1	B e11	VD	VA	L2	E max	G	TG	RT	BG min	EE	PL	L7	WH	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	± 1.4	120	± 1	94	± 0.6	5	+ 2 + 0
40	M12x1.25	24	16	13	6.5	19	35	6.5	4	20.5	51	29	38	M6	16	G1/4	14.5	5	30	± 1.4	135	± 1	105	± 0.7	5	
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	± 1.8	143	± 1.1	106	± 0.7	6	+ 2.5 + 0
63	M16x1.5	32	20	16	8	24	45	6.5	4	27.5	74	35	56.5	M8	16	G3/8	17	10	37	± 1.8	158	± 1.1	121	± 0.8	6	
80	M20x1.5	40	25	21	10	30	45	6.5	4	34	94	36	72	M10	16	G3/8	18	14	46	± 1.8	174	± 1.1	128	± 0.8	6	
100	M20x1.5	40	25	21	10	30	55	6.5	4	35	111	40	89	M10	16	G1/2	18	10	51	± 1.8	189	± 1.1	138	± 1	6	

Foot mounting

+ Add stroke

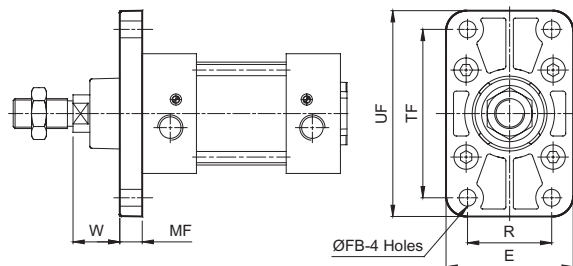


Bore dia	TR ±0.3	AB H14	AH Js16	AO max.	AT	E	d*	SA	TOL	XA	TOL	Recommended Bolt size
32	32	7	32	8	4	46	5.8	142	±1.25	144	±1.25	M6
40	36	10	36	10	4	52	7.8	161	±1.25	163	±1.25	M8
50	45	10	45	12	5	65	7.8	170	±1.6	175	±1.6	M8
63	50	10	50	12	5	75	7.8	185	±1.6	190	±1.6	M8
80	63	12	63	17	6	95	9.8	210	±1.6	215	±1.6	M10
100	75	14.5	71	19	6	115	11.8	220	±1.6	230	±1.6	M12

* Suitable for reaming

Front flange

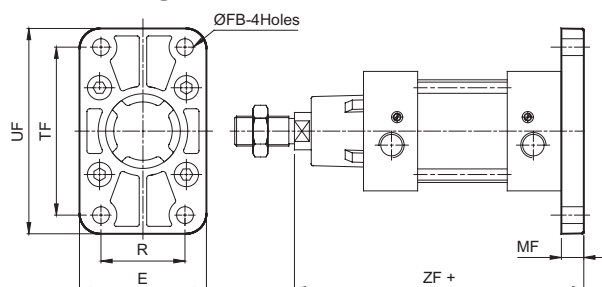
+ Add stroke



Bore dia	TF ±0.3	R ±0.3	FB H13	MF	UF	E	W	TOL	Recommended Bolt size
32	64	32	7	10	80	50	16	±1.6	M6
40	72	36	9	10	90	55	20	±1.6	M8
50	90	45	9	12	110	68	25	±2	M8
63	100	50	9	12	125	78	25	±2	M8
80	126	63	12	16	155	100	30	±2	M10
100	150	75	14	16	185	120	35	±2	M12

Rear flange

+ Add stroke



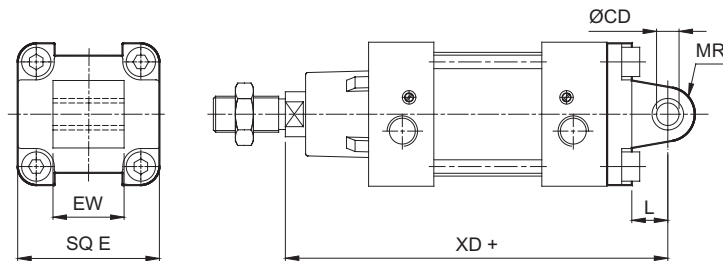
Bore dia	TF ±0.3	R ±0.3	FB H13	MF	UF	E	ZF	TOL	Recommended Bolt size
32	64	32	7	10	80	50	130	±1.25	M6
40	72	36	9	10	90	55	145	±1.25	M8
50	90	45	9	12	110	68	155	±1.6	M8
63	100	50	9	12	125	78	170	±1.6	M8
80	126	63	12	16	155	100	190	±1.6	M10
100	150	75	14	16	185	120	205	±1.6	M12

AIR CYLINDER

Series A27, A28

Cat No A27, A28 - 01 - 01

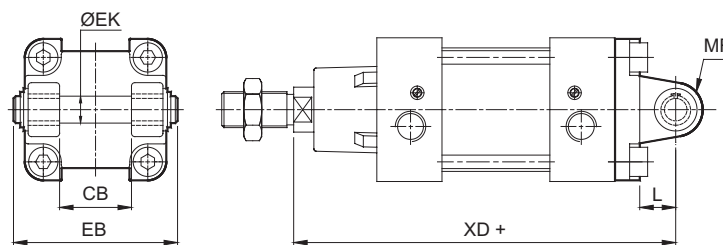
Male clevis



+ Add stroke

Bore dia	CD H9	EW - 0.2 - 0.6	L min.	MR max.	E max.	XD	TOL
32	10	26	12	11	45	142	±1.25
40	12	28	15	13	51	160	
50	12	32	15	13	64	170	
63	16	40	20	17	74	190	±1.6
80	16	50	20	17	94	210	
100	20	60	25	21	111	230	

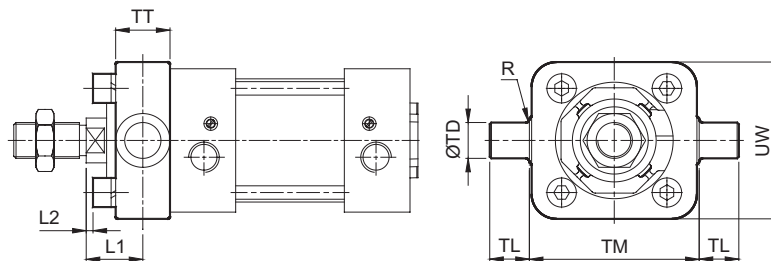
Female clevis



+ Add stroke

Bore dia	EK e8	CB H14	L min.	MR max.	EB max.	XD	TOL
32	10	26	12	11	56	142	±1.25
40	12	28	15	13	65	160	
50	12	32	15	13	73	170	
63	16	40	20	17	86	190	±1.6
80	16	50	20	17	106	210	
100	20	60	25	21	129	230	

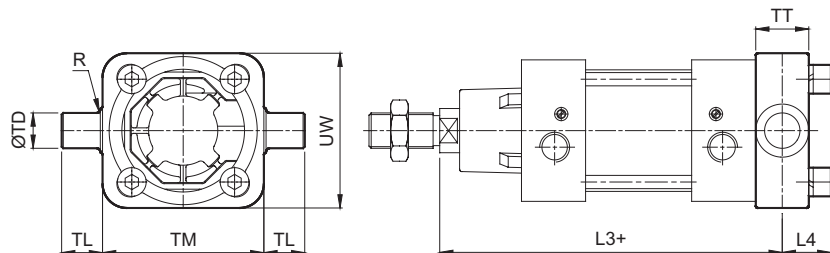
Front trunnion



+ Add stroke

Bore dia	TD e9	TL h14	TM h14	UW	TT	R	L1	tol	L2 approx
32	12	12	50	48	16	1	18	±1.5	2
40	16	16	63	55	22	1.6	19		0
50	16	16	75	70	24	1.6	25		3
63	20	20	90	86	28	1.6	23	±1.8	-1
80	20	20	110	110	32	1.6	30		1.8
100	25	25	132	135	40	2	31		-1.2

Rear trunnion



+ Add stroke

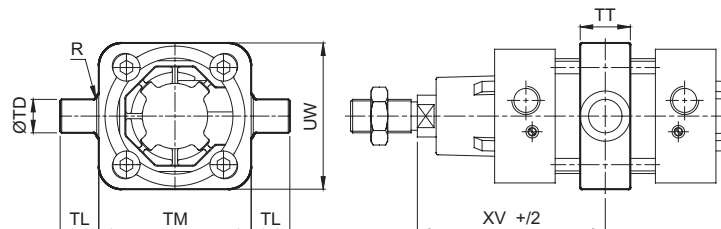
Bore dia	TD e9	TL h14	TM h14	UW	TT	R	L3	tol	L4 approx
32	12	12	50	48	16	1	128	±1.5	16
40	16	16	63	55	22	1.6	146		19
50	16	16	75	70	24	1.6	155		22
63	20	20	90	86	28	1.6	172	±1.8	24
80	20	20	110	110	32	1.6	190		29
100	25	25	132	135	40	2	209		33

AIR CYLINDER

Series A27, A28

Cat No A27, A28 - 01 - 01

Centre trunnion



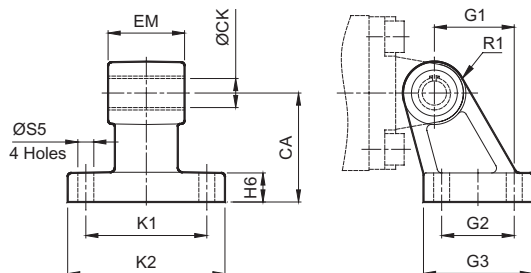
+ Add stroke

Bore dia	TD e9	TL h14	TM h14	UW	TT	R	XV ±2
32	12	12	50	48	16	1	73
40	16	16	63	55	22	1.5	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 Series A27, A28

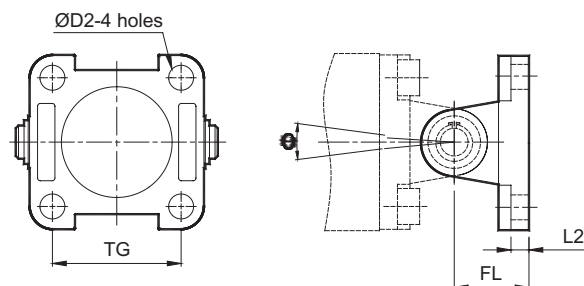
Clevis foot bracket



Bore dia	K1 Js14	G2 Js14	S5 H13	CA Js15	CK H9	EM - 0.2 - 0.6	G1 Js14	H6	R1 max.	K2	G3	Recommended Bolt size	Ordering no. @
32	38	18	6.6	32	10	26	21	8	10	51	31	M6	AA1032
40	41	22	6.6	36	12	28	24	10	11	54	35	M6	AA1040
50	50	30	9	45	12	32	33	12	13	65	45	M8	AA1050
63	52	35	9	50	16	40	37	12	15	67	50	M8	AA1063
80	66	40	11	63	16	50	47	14	15	86	60	M10	AA1080
100	76	50	11	71	20	60	55	15	19	96	70	M10	AA1100

@ Adoptable to cylinder with female clevis

Wall mounting bracket

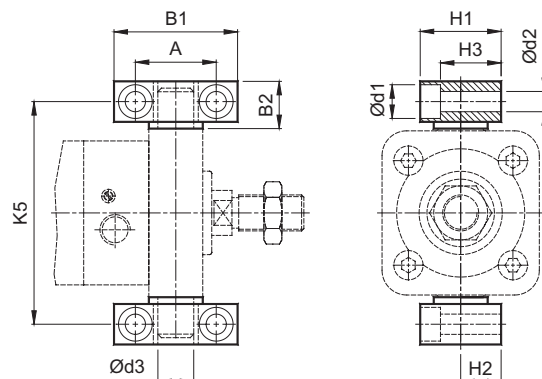


Bore dia	TG	D2	L2	FL ±0.2	θ°	Recommended Bolt size	Ordering no. @	Ordering no. #
32	32.5	6.6	5.5	22	90	M6	AV1032	AW1032
40	38	6.6	5.5	25	90	M6	AV1040	AW1040
50	46.5	9	6.5	27	90	M8	AV1050	AW1050
63	56.5	9	6.5	32	90	M8	AV1063	AW1063
80	72	11	10	36	60	M10	AV1080	AW1080
100	89	11	10	41	60	M10	AV1100	AW1100

@ Adoptable to cylinder with male clevis

Adoptable to cylinder with female clevis

Trunnion bracket



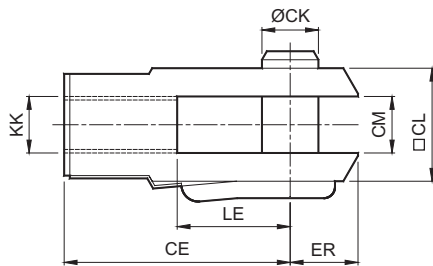
Bore dia	B1	B2	A ± 0.2	d1	d2 H13	d3 H9	H1	H2 ± 0.1	H3	K5 Js14	Ordering no.
32	46	18	32	11	6.6	12	30	15	23	71	AT032
40	55	21	36	15	9	16	36	18	27	87	AT040
50	55	21	36	15	9	16	36	18	27	99	AT040
63	65	23	42	16.5	11	20	40	20	29	116	AT063
80	65	23	42	16.5	11	20	40	20	29	136	AT063
100	75	28.5	50	20	14	25	50	25	37	164	AT100

AIR CYLINDER

Series A27, A28

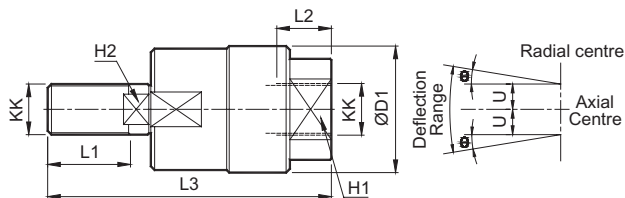
Cat No A27, A28 - 01 - 01

Rod end Fork (ISO 8140)



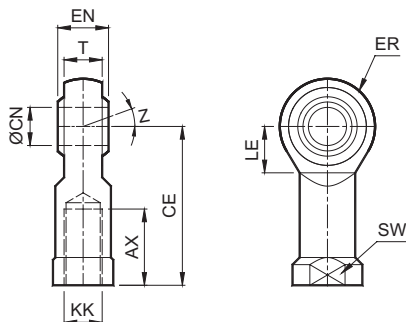
Bore dia	KK	CE	CK f8	CM B12	LE	ER max.	ØCL	Ordering no.
32	M10x1.25	40	10	10	20	16	20	AF010
40	M12x1.25	48	12	12	24	19	24	AF012
50 / 63	M16x1.5	64	16	16	32	25	32	AF016
80 / 100	M20x1.5	80	20	20	40	32	40	AF020

Rod end Aligner



Bore dia	KK	L1	L2	L3	H1	H2	D1	U	±θ°	Ordering no.
32	M10x1.25	20	14	65	17	8	28	0.75	5	AR010
40	M12x1.25	22	18	75	19	10	32	1	5	AR012
50 / 63	M16x1.5	25	22	91	27	13	41	1	5	AR016
80 / 100	M20x1.5	30	28	112	32	16	50	1.5	5	AR020

Rod end spherical eye (ISO 8139)



Bore dia	KK	CN H9	T	EN h12	CE	LE min	ER max	AX	SW	Z	Ordering no.
32	M10x1.25	10	10.5	14	43	15	14	20	17	13°	AP010
40	M12x1.25	12	12	16	50	17	16	22	19		AP012
50 / 63	M16x1.5	16	15	21	64	22	21	28	22	15°	AP016
80 / 100	M20x1.5	20	18	25	77	26	25	33	30/32		AP020

AIR CYLINDER

Series A27, A28

Cat No A27, A28 - 01 - 01

How to order

A



Model	
27	Magnetic cylinder
28	Standard cylinder

(For details of accessories
for magnetic cylinders refer
Cat No A25, A26 - 01 - 01)



Piston Ø (mm)	
032	- Ø 32
040	- Ø 40
050	- Ø 50
063	- Ø 63
080	- Ø 80
100	- Ø 100



Stroke (mm)	
025	- 25
050	- 50
080	- 80
100	- 100
125	- 125
160	- 160
200	- 200
250	- 250
300	- 300
320	- 320
400	- 400
500	- 500



Mountings	
O	- Basic
L	- Foot Mounting
F	- Front Flange
R	- Rear Flange
S	- Male Clevis
D	- Female Clevis
M	- Rear Trunnion
N	- Front Trunnion
T	- Centre Trunnion

Example :

Ordering no. for standard cylinder with 40 dia bore, 50 mm stroke with female clevis mounting : **A28 040 050 D**

Note :

If ordered as 40 dia, 50 mm stroke cylinder, Basic cylinder **A28 040 050 O** will be supplied.

For repeat order when the details are taken from cylinder nameplate, mention the mounting style separately.

For ordering **Accessories** refer corresponding tables for ordering numbers.

For ordering individual **Mounting** kits (If needed separately) the order numbers are as below

Piston Ø	Foot mounting *	Front / Rear flange *	Male clevis *	Female clevis *	Front / Rear trunnion *
32	ML1032	MF1032	MS1032	MD1032	MT1032
40	ML1040	MF1040	MS1040	MD1040	MT1040
50	ML1050	MF1050	MS1050	MD1050	MT1050
63	ML1063	MF1063	MS1063	MD1063	MT1063
80	ML1080	MF1080	MS1080	MD1080	MT0080
100	ML1100	MF1100	MS1100	MD1100	MT0100

* Supplied with 4nos. of screws

For your special requirements of cylinders or for further informations contact your regional office, dealer or **JANATICS**

Subject to change