



AIR CYLINDER

Series A27, A28

Cat No A27, A28 - 01 - 01 - C

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) **
- ☐ Low Friction (Optional)



Technical Specifications

Cylinder bore Ø		(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, bar	A27, A28		0.5 to 10											
	A27L, A28L #		0.3 to 10			0.2 to 10				0.1 to 10				
Ambient temperature			-10° to +60° C											
Medium temperature	Regular		+5° to +50° C											
	High temperature applications**		+5° to +150° C max.											
Materials of construction			Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular), FKM (High temperature)											
Mountings			Basic cylinder, Foot mounting, Front flange, Rear flange, Male clevis, Male clevis (with spherical bearing), Female clevis, Female clevis (King pin), Front trunnion, Rear trunnion, Centre trunnion											
Accessories			Clevis foot bracket, Clevis foot bracket (Spherical), 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 dealer or JANATICS

** Refer Special Ordering number.

- Applicable only for standard strokes (Upto 500mm)

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

Cylinder bore Ø (in mm)	Rod Ø (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)

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How to order

A		Optional		040		050		D		Optional	
Model		Type		Piston Ø (mm)		Stroke (mm)		Mountings		Special Cylinders	
27	Magnetic cylinder	L	Low Friction Cylinder	032	- Ø 32	025	- 25	O	- Basic	H	- High temp
28	Standard cylinder			040	- Ø 40	050	- 50	L	- Foot Mounting	S	- SS piston rod
				050	- Ø 50	080	- 80	F	- Front Flange	Note: Low friction cylinder not available in High temp model.	
				063	- Ø 63	100	- 100	R	- Rear Flange		
				080	- Ø 80	125	- 125	S	- Male Clevis		
				100	- Ø 100	160	- 160	G	- Male Clevis (with spherical bearing)		
						200	- 200	D	- Female Clevis		
						250	- 250	K	- Female Clevis (King pin)		
						300	- 300	M	- Rear Trunnion		
						320	- 320	N	- Front Trunnion		
						400	- 400	T	- Centre Trunnion		
						500	- 500				

Note: Low friction cylinder Basic model 'O' not applicable

Example:

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

Note:

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

If ordered as 40 dia, 50 mm stroke, Low friction cylinder **A28L 040 050** 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

Cylinder bore Ø	Foot mounting *	Front / Rear flange *	Male clevis *	Male clevis (Spherical bearing) *	Female clevis *	Front / Rear trunnion *	Female clevis (King pin) *
							
32	ML1032	MF1032	MS1032	MG1032	MD1032	MT1032	MK1032
40	ML1040	MF1040	MS1040	MG1040	MD1040	MT1040	MK1040
50	ML1050	MF1050	MS1050	MG1050	MD1050	MT1050	MK1050
63	ML1063	MF1063	MS1063	MG1063	MD1063	MT1063	MK1063
80	ML1080	MF1080	MS1080	MG1080	MD1080	MT0080	MK1080
100	ML1100	MF1100	MS1100	MG1100	MD1100	MT0100	MK1100

* Supplied with 4nos. of screws

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

Subject to change