

AIR CYLINDER

Series A53, A54

Cat No A53, A54 - 01 - 01

AIR CYLINDERS Double Acting Double End (Ø12 - 25 mm)

As per ISO 6432 / CETOP RP52P standards

Features

- Elastomer cushioning at both ends.
- Wide varieties of mountings.
- Low friction.
- Long life.



Technical Specifications

Bore dia (mm)	12	16	20	25
Standard strokes * (mm)	10 25 40 50 80 100 125 160 200 250 300			
Medium	Compressed air - filtered - lubricated			
Working pressure	0.5 - 10 bar			
Medium temperature	5° - 60° C			
Materials of construction	Aluminium, Brass, Nitrile, Polyurethane, Steel, Acetal			
Mountings	Double foot mounting, Flange, Trunnion			
Accessories	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**

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

Bore dia (in mm)	Rod dia (in mm)		Working pressure in bar								
			2	3	4	5	6	7	8	9	10
12	6	Extend	20	30	40	50	60	70	80	90	100
		Retract	15	22	30	38	46	53	61	68	76
16	6	Extend	36	54	72	90	108	126	144	162	180
		Retract	31	46	62	78	94	108	124	140	156
20	8	Extend	56	84	112	140	169	196	224	254	282
		Retract	47	71	95	118	142	166	189	214	237
25	10	Extend	88	132	176	220	264	308	352	396	440
		Retract	74	111	148	185	222	260	296	334	371

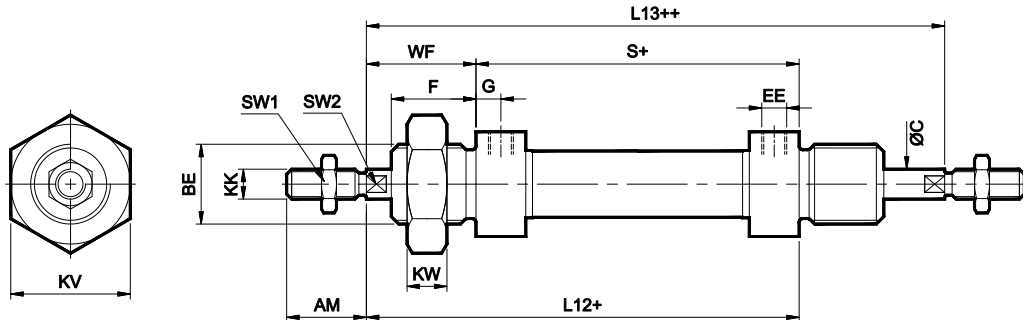
(Above values have been worked out taking frictional loss into consideration)

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Basic cylinder

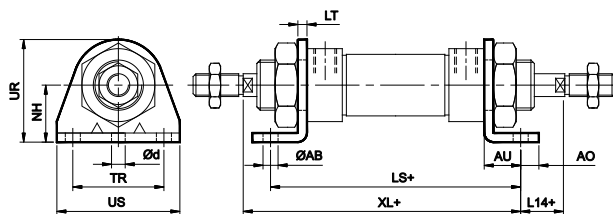


+ Add stroke
++ Add twice stroke

Bore Dia	BE	F	G	EE	S	tol	KW	C	SW1	SW2	KK	AM	WF ±1.2	L12 ±1.5	KV	L13 ±1.5	Stroke tol	
																	10 - 100	125 - 300
12	M16 X 1.5	17	6	M5 X 0.8	51	± 0.5	8	6	10	5	M6 X 1	16	22	73	24	96	+ 1.5 + 0	+ 2.5 + 0
16	M16 X 1.5	17	6	M5 X 0.8	58	± 0.5	8	6	10	5	M6 X 1	16	22	80	24	103		
20	M22 X 1.5	20	8	G 1/8	67	± 0.7	10	8	13	7	M8 X 1.25	20	24	91	32	116		
25	M22 X 1.5	22	8	G 1/8	71	± 0.7	10	10	17	9	M10 X 1.25	22	28	99	32	128		

MOUNTINGS FOR AIR CYLINDER Series A53, A54

Double Foot Mounting

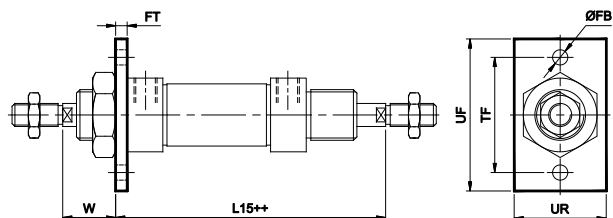


+ Add stroke

Bore Dia	UR	AB H13	TR Js14	NH ±0.3	AO	AU	d*	LT	US	LS	XL ±1	L14 ±1.3	Ordering No
12	33	5.5	32	20	6	12	4.8	2	42	75 ^{+0.7}	85	11	MS016
16	33	5.5	32	20	6	12	4.8	2	42	82 ^{+0.7}	92	11	MS016
20	45	6.6	40	25	8	16	5.8	4	54	99 ^{+0.9}	107	9	MS022
25	45	6.6	40	25	8	16	5.8	4	54	103 ^{+0.9}	115	13	MS022

* Suitable for reaming

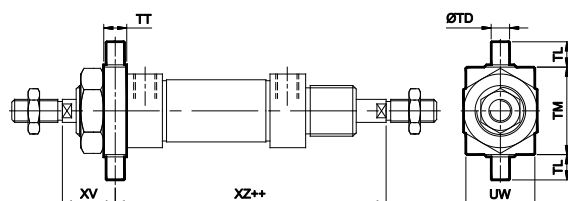
Flange



++ Add twice stroke

Bore dia	TF Js14	UF	UR	FB H13	FT	L15 ±1.2	W ±1.4	Ordering No
12	40	50	30	5.5	4	78	18	MF016
16	40	50	30	5.5	4	85	18	MF016
20	50	66	40	6.6	5	97	19	MF022
25	50	66	40	6.6	5	105	23	MF022

Trunnion



++ Add twice stroke

Bore dia	TM h14	UW	TD e9	TT	TL h14	XZ ±1.2	XV ±1.4	Ordering No
12	30	25	6	8	10	78	18	MT016
16	30	25	6	8	10	85	18	MT016
20	40	30	8	10	10	97	19	MT022
25	40	30	8	10	10	105	23	MT022

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How to order

Model		Bore Ø (mm)		Stroke (mm)		Mountings	
53	Magnetic cylinder	012	- Ø 12	010	- 10	O	- Basic
54	Standard cylinder	016	- Ø 16	025	- 25	D	- Double Foot Mounting
		020	- Ø 20	040	- 40	F	- Flange
		025	- Ø 25	050	- 50	M	- Trunnion
				080	- 80		
				100	- 100		
				125	- 125		
				160	- 160		
				200	- 200		
				250	- 250		
				300	- 300		

For details of accessories for magnetic cylinders refer Product Catalogue **Series A51, A52** (Page no. 1.7.5)

Example:

Ordering no. for standard cylinder with 16 dia bore, 50 mm stroke with Double foot mounting : **A54 016 050 D**


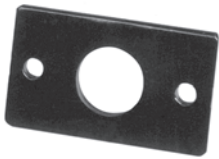
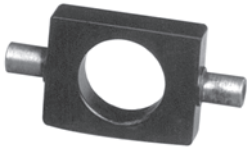
Note:

If ordered as 16 dia, 50 mm stroke cylinder, Basic cylinder **A54 016 050 O** will be supplied.

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

For ordering **Accessories**: mention part numbers in corresponding tables.

For ordering individual **Mounting kits** (If needed separately): mention the ordering numbers as below

Cylinder bore Ø	Double Foot mounting	Flange (Front or Rear)	Trunnion (Front or Rear)
			
12	MS016	MF016	MT016
16	MS016	MF016	MT016
20	MS022	MF022	MT022
25	MS022	MF022	MT022

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