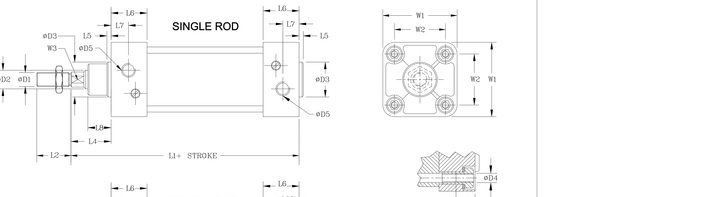
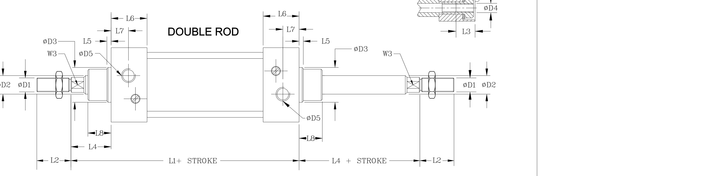
GRAVITY

DOUBLE ACTING PNEUMATIC CYLINDERS
TO ISO 6431 AND VDMA 24562





BASIC DIMENSIONS

Dimension	L1	L2	L3	L4	L5	L6	L7	L8	D1	D2	D3	D4	D5	W1	W2	W3	Stroke
Standards	ZB	AM		WH	VD				KK		B		EE	E			Tol.
Bore Dia.																	
32	120 ±1.6	22	16	26	3	28	14	16	M10 X 1.25	12	30 e11	M6	G1/8	48	32.5	10	+1.5
40	135 ±1.6	24	16	30	4	31	14	18	M12 X 1.25	16	35 e11	M6	G1/4	55	38.0	14	−0.0
50	143 ±1.6	32	17	37	4	32	15	25	M16 X 1.50	20	40 e11	M8	G1/4	66	46.5	17	+2.0
63	158 ±2.0	32	17	37	5	37	16	25	M16 X 1.50	20	45 e11	M8	G3/8	78	56.5	17	−0.0
80	174 ±2.0	40	17	46	5	38	16	32	M20 X 1.50	25	45 e11	M10	G3/8	95	72.0	22	+2.5
100	189 ±2.0	40	17	51	5	40	20	37	M20 X 1.50	25	55 e11	M10	G1/2	114	89.0	22	−0.0
125	225 ±2.5	54	20	65	10	46	20	45	M27 X 2.00	32	60 e11	M12	G1/2	140	110.0	28	+4.0
160	260 ±2.5	72	24	80	10	51	22	55	M36 X 2.00	40	65 e11	M16	G3/4	178	140.0	36	−0.0
200	275 ±2.5	72	24	95	12	52	24	65	M36 X 2.00	40	75 e11	M16	G3/4	216	175.0	36	

STANDARD STROKES STOCKED FOR QUICK DELIVERY : 25,50,80,100,125,160,200,250,320 mm.

TECHNICAL SPECIFICATION

Type of Fluid	Compressed Air
Max.Working Pressure	12 bar
Operating Temp.Range	−20 to +90°c
Mounting Position	Optional

FOR SERIES 'CM'	
End Caps	Cast Aluminium
Barrel	Honed Aluminium
Piston Rod	Chromed Mild Steel
Piston	Cast Aluminium
Cushion Sleeves	Aluminium
Piston Nut	Zinc Plated Steel
Tie Rods	Mild Steel
End Cap Screws	Zinc Plated Steel
Seals	Nitrile Rubber

PRODUCT ORDERING CODE

(Sample) CMD - 050 - 080

Cylinder Type
CM = Magnetic Series

Cylinder Rod Style
NIL = Single rod
D = Double rod
S = Stroke adjustment rod

Cylinder Bore Ø mm
032, 040, 050, 063, 080, 100, 125, 160, 200

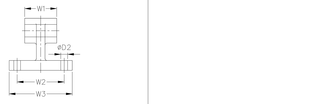
Cylinder Stroke mm
025, 050, 080, 100, 125, 160, 200, 250, 320, 400, 500, 600, 800, 1000

CYLINDER MOUNTINGS

supplied separately complete with fixing screws

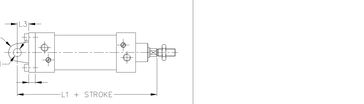
CLEVIS MOUNTING

Bore Dia.	Part No.	L1	L2	L3	D1	D2	R1	W1	W2	W3	W4	W5
32	16−001−01	21	18	31	10	6.6	10	26	38	51	8	32
40	16−001−02	24	22	35	12	6.6	12	28	41	54	10	36
50	16−001−03	33	30	45	12	9	13	32	50	65	12	45
63	16−001−04	37	35	50	16	9	15	40	52	67	12	50
80	16−001−05	47	40	60	16	11	15	50	66	86	14	63
100	16−001−06	55	50	70	20	11	19	60	76	96	15	71
125	16−001−07	70	60	90	25	14	25	70	94	124	20	90
160	16−001−08	97	88	126	30	14	32	90	118	156	25	115
200	16−001−09	105	90	130	30	16	32	90	122	162	25	135



PIVOT MOUNTING

Dimension		L1	L2	L3	D1	R1	W1	W2	W3	W4
Standards		XD		L	CD	MR		UB	CB	
Bore Dia.	Part No.									
32	16−002−01	142 ±1.25	10	14	10	10	48	48	26	54
40	16−002−02	160 ±1.25	10	16	12	12	55	51	28	62
50	16−002−03	170 ±1.25	12	16	12	12	66	60	32	70
63	16−002−04	190 ±1.60	12	23	16	16	78	70	40	82
80	16−002−05	210 ±1.60	16	24	16	16	95	90	50	102
100	16−002−06	230 ±1.60	16	28	20	20	115	110	60	126
125	16−002−07	275 ±2.00	20	35	25	25	140	130	70	150
160	16−002−08	315 ±2.00	25	38	30	30	176	170	90	192
200	16−002−09	335 ±2.00	25	38	30	30	216	170	90	192

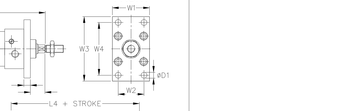


REAR EYE MOUNTING

Dimension		L1	L2	L3	D1	R1	W1	W2
Standards		XD		L	CD	MR		EW
Bore Dia.	Part No.							
32	16−003−01	142 ±1.25	10	14	10	10	48	26
40	16−003−02	160 ±1.25	10	16	12	12	55	28
50	16−003−03	170 ±1.25	12	16	12	12	66	32
63	16−003−04	190 ±1.60	12	23	16	16	78	40
80	16−003−05	210 ±1.60	16	24	16	16	95	50
100	16−003−06	230 ±1.60	16	28	20	20	115	60
125	16−003−07	275 ±2.00	20	35	25	25	140	70
160	16−003−08	315 ±2.00	25	38	30	30	176	90
200	16−003−09	335 ±2.00	25	38	30	30	216	90

FLANGE

Dimension		L1	L2	L3	L4	D1	W1	W2	W3	W4
Standards		ZB		W	ZF	FB		R	UF	TF
Bore Dia.	Part No.									
32	16−004−01	120	10	16 ±1.6	130 ±1.25	7	48	32	80	64
40	16−004−02	135	10	20 ±1.6	145 ±1.25	9	55	36	90	72
50	16−004−03	143	13	24 ±1.6	156 ±1.25	9	66	45	110	90
63	16−004−04	155	16	24 ±2.0	171 ±1.60	9	78	50	125	100
80	16−004−05	172	19	29 ±2.0	191 ±1.60	12	95	63	154	126
100	16−004−06	187	18	35 ±2.0	205 ±1.60	14	115	75	175	150
125	16−004−07	220	25	45 ±2.5	245 ±2.00	16	140	90	220	180
160	16−004−08	255	25	60 ±2.5	280 ±2.00	18	176	115	280	230
200	16−004−09	275	25	70 ±2.5	300 ±2.00	22	216	135	320	270



SELF ALIGNING ROD COUPLING

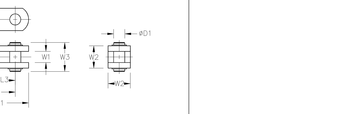
Bore Dia.	Part No.	L1	L2	L3	D1	D2	D3	W1	W2	W3
32	16−005−01	55	20	5	25	12	M10 X 1.25	17	11	22
40	16−005−02	67	24	6	32	16	M12 X 1.25	19	13	29
50, 63	16−005−03	83	32	8	40	20	M16 X 1.5	24	17	36
80, 100	16−005−04	101	40	10	50	25	M20 X 1.5	30	22	46
125	16−005−05	132	48	13	70	32	M27 X 2	41	27	60
160, 200	16−005−06	183	72	18	93	45	M36 X 2	55	41	85

CYLINDER MOUNTINGS

supplied separately complete with fixing screws

PISTON ROD CLEVIS

Bore Dia.	Part No.	L1	L2	L3	D1	D2	W1	W2	W3
32	16−006−01	52	40	20	10	M10 X 1.25	10	20	26
40	16−006−02	62	48	24	12	M12 X 1.25	12	25	31
50, 63	16−006−03	83	64	32	16	M16 X 1.5	16	32	39
80, 100	16−006−04	105	80	40	20	M20 X 1.5	20	38	53
125	16−006−05	132	100	50	25	M27 X 2	25	50	68
160, 200	16−006−06	188	144	72	35	M36 X 2	35	74	90



SWIVEL ROD EYE

Bore Dia.	Part No.	L1	L2	L3	DI	D2	R1	W1	W2	W3
32	16−007−01	56	43	21	10	M10 X 1.25	13	14	11	17
40	16−007−02	65	50	24	12	M12 X 1.25	15	16	12	19
50, 63	16−007−03	86	64	33	16	M16 X 1.5	19	21	15	24
80, 100	16−007−04	100	77	40	20	M20 X 1.5	23	25	18	30

PISTON ROD EYE

Bore Dia.	Part No.	L1	L2	L3	L4	DI	D2	W1	W2
32	16−008−01	52	40	15	18	10	M10 X 1.25	10	20
40	16−008−02	62	48	18	19	12	M12 X 1.25	12	25
50, 63	16−008−03	83	64	24	26	16	M16 X 1.5	16	32
80, 100	16−008−04	105	80	30	34	20	M20 X 1.5	20	38
125	16−008−05	132	100	38	42	25	M27 X 2	25	50
160, 200	16−008−06	188	144	56	62	35	M36 X 2	35	74

FOOT MOUNTING

Dimension		L1	L2	L3	D1	W1	W2	W3
Standards		XA	AO	SA	AB		TR	AH
Bore Dia.	Part No.							
32	16−009−01	144 ±1.25	6	142 ±1.25	7	48	32	32
40	16−009−02	163 ±1.25	13	161 ±1.25	9	55	36	36
50	16−009−03	175 ±1.25	9	170 ±1.25	9	66	45	45
63	16−009−04	190 ±1.60	14	185 ±1.60	9	78	50	50
80	16−009−05	215 ±1.60	20	210 ±1.60	12	95	63	63
100	16−009−06	230 ±1.60	42	20	20	11	18	110	20	120	42	65	11	40
125	16−009−07	270 ±2.00	16	250 ±2.00	16	140	90	90
160	16−009−08	320 ±2.00	25	300 ±2.00	18	176	115	115
200	16−009−09	345 ±2.00	25	320 ±2.00	22	216	135	135

INTERMEDIATE TRUNNION WITH MOUNTING BRACKETS

Dimension		L1	L2	L3	D1	D2	D3	W1	W2	W3	W4	W5	W6	W7
Standards		XV			TD			TM	TL	UW				
Bore Dia.	Part No.													
32	16−010−01	73.0 ±2.0	30	15	12	7	11	50	12	65	36	50	7	25
40	16−010−02	82.5 ±2.0	30	18	16	9	15	63	16	75	36	55	9	36
50	16−010−03	90.0 ±2.0	32	18	16	9	15	75	16	86	36	55	9	36
63	16−010−04	97.5 ±2.0	38	20	20	11	18	90	20	105	42	65	11	40
80	16−010−05	110.0 ±2.0	42	20	20	11	18	110	20	120	42	65	11	40
100	16−010−06	120.0 ±2.0	42	25	25	14	20	132	25	140	50	75	13	50
125	16−010−07	145.0 ±2.5	42	25	25	14	20	160	25	144	50	75	13	50
160	16−010−08	170.0 ±2.5	50	35	32	18	26	200	32	185	60	92	18	60
200	16−010−09	185.0 ±2.5	50	35	32	18	26	250	32	227	60	92	18	60

REED SWITCH WITH MOUNTING BRACKET

Bore Dia.	Part No.	Part No.	L1	W1	W2	W3	W4
32 ,40	16−011−01A	16−011−01D	40	16	8	28	16
50, 63	16−011−02A	16−011−02D	40	19	10	31	19
80, 100	16−011−03A	16−011−03D	40	19	12	31	19