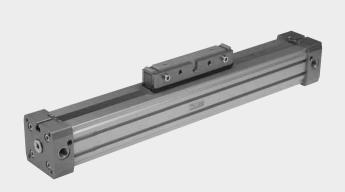
RODLESS CYLINDER SERIES STD

Rodless cylinders come in five different bores - \varnothing 16, 25, 32, 40 and 63 mm – and the design incorporates numerous innovations.

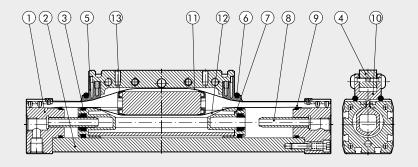
- Calibrated extruded anodized aluminium alloy barrel
- Sensor slots and accessory slots in the barrel itself
- Longitudinal seal by means of specially-shaped indeformable stainless steel strips
- Strokes 100 to 5700 mm with 1mm intervals
- Adjustable integrated pneumatic cushioning
- Adjustable limit switches and decelerations can be applied at any time
- For this type of cylinder (size 32 and upwards), the valves can be fitted directly using the retracting sensors without requiring any intermediate brackets. Refer to the table on page A1.56



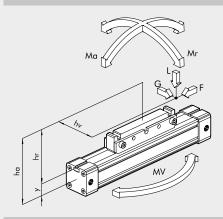
TECHNICAL DATA		NBR	FKM/FPM						
Operating pressure	bar	1 to	0 8						
	MPa	0.1 to	0.8						
	psi	14.5 t	o 116						
Temperature range	°C	-10 to +80							
	°F								
Fluid		50 μm unlubricated filtered air Lubi							
Bores	mm	Ø 16, 25,							
Type of construction		Double-acting rodless cylinder with direct transmission system							
Strokes	mm	Ø 16: from 100 to 5000 with 1mm interval							
		Ø 25, 32 e 40: from 100 to 5700 with 1mm interval							
	,	Ø 63: from 100 to 5500 with 1mm interval							
Recommended speeds	m/s	<1	≥1						
Max. speed with decelerators	m/s	<1	2						
Weight		See cylinder "General technical da							
Notes		For speeds lower than 0.2 m/s to prevent surging,	use the version No stick-slip and non-lubricated air						

COMPONENTS

- ① CYLINDER HEAD: aluminium alloy
- 2 BARREL: profiled anodized aluminium alloy
- 3 PISTON GASKET: NBR or FKM/FPM
- 4 CENTRAL ELEMENT: aluminium alloy
- ⑤ SCRAPER: Hostaform®
- 6 O-RING: FKM/FPM
- 7 PISTON: Hostaform®
- STATIC O-RINGS: NBR or FKM/FPM
- 10 SLIDE: aluminium alloy
- ① OUTER STRIP: stainless steel
- 12 INNER STRIP: stainless steel
- BAND SUPPORT: Hostaform®



DIMENSIONING - FORCE AND TORQUE



Bore	Centre Distance Y	Actual Force F at 6 bar [N]	Cushioning stroke [mm]	Max. load L [N]	Ma max [Nm]	Mr max [Nm]	Mv max [Nm]
16	9	110	15	120	4	0.3	0.5
25	14	250	21	300	15	1	3
32	18	420	26	450	30	2	4
40	22	640	32	750	60	4	8
63	44	1550	40	1650	200	8	24

N.B.: When the cylinder is subjected simultaneously to torque and force, keep to the following equations, where the lengths have to be given in metres.

$$Mr = L \times hv + G \times hr$$

$$Mv = F \times hv$$

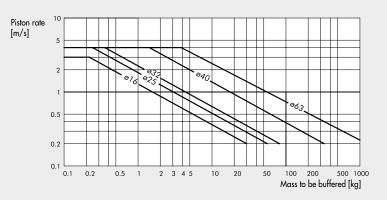
$$\frac{Mv}{Mv_{max}} \leq 1;$$

$$; \frac{L}{L_{max}} \leq 1; \frac{Mc}{Mc}$$

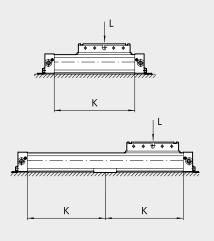
$$\frac{L}{L_{max}} \leq 1; \qquad \frac{M\alpha}{M\alpha \; max} + \frac{Mr}{Mr \; max} + 0.22 \; x \frac{Mv}{Mv \; max} + 0.4 \\ \frac{L}{L_{max}} \leq 1$$

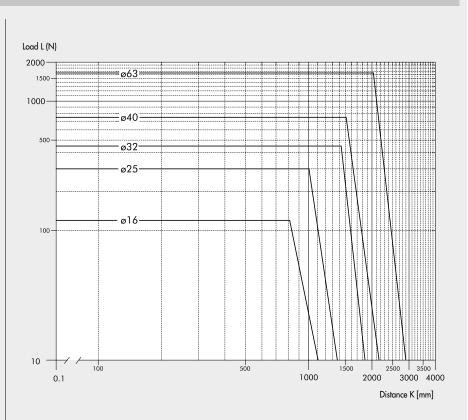
DIAGRAM OF SPEED AND MAXIMUM CUSHIONABLE LOAD

For the cylinder to reach the end-of-stroke position without intense or repeated impact which would damage it, it is necessary to annul the kinetic energy of the moving mass and the work generated. The maximum cushionable load depends on the traversing speed and the absorption of the air buffer supplied standard with the various cylinders. The diagram shows the speeds and cushionable mass for the various diameters at a pressure of 6 bar.

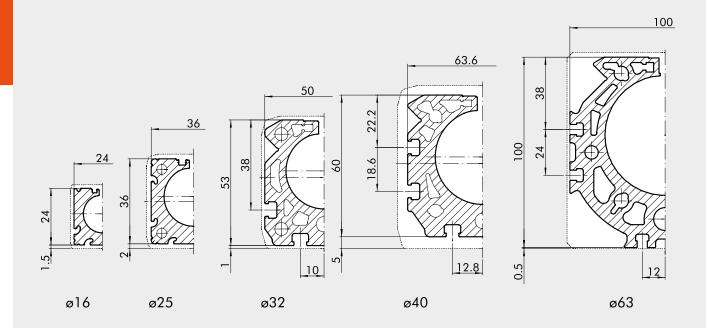


MAXIMUM LOAD ACCORDING TO THE DISTANCE BETWEEN SUPPORTS



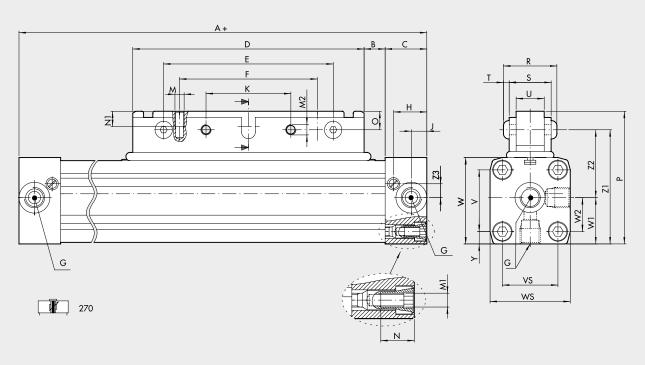


BARREL CROSS SECTION



DIMENSIONS Ø 16 to 40

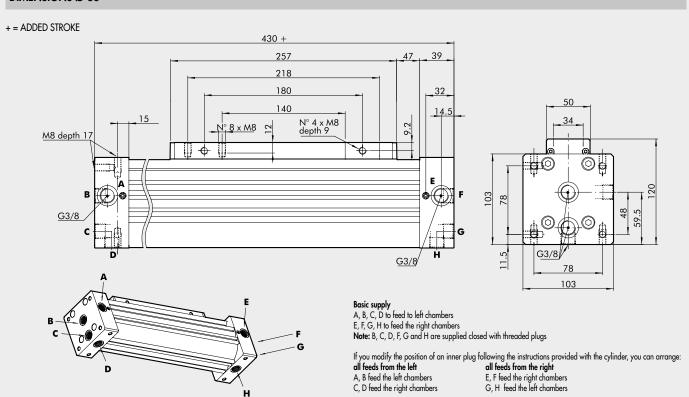
+ = ADDED STROKE



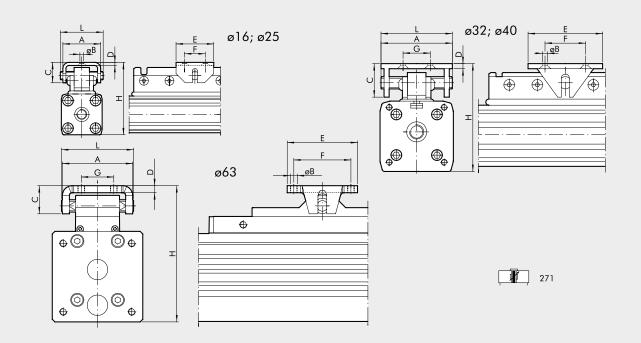
Ø	Α	В	С	D	E	F	G	Н	j	K	M	M1	M2	N	N1	0	P	R	S	T	U	٧	VS	W	WS	W1	W2	Υ	Z 1	Z2	Z3	Z4
16	130	12	15	76	64	48	M5	12	6.4	32	M4	M3	M5	7	8	6	43.5	23.5	18	2.75	10	18	18	27	27	13.5	9	4.5	37.5	24	4.5	28
25	200	17	23	120	100	80	1/8	18.5	8.5	50	M5	M5	M6	12	11	13	66	29.6	23	3.3	15	27	27	40	40	20	13.5	6.5	53	33	6.5	42
32	250	23	27	150	110	90	1/4	22	10.5	55	M6	M6	M8	14	12	12	86	36	27	4.4	18	40	36	56	52	30	22	8	74	44	8	70
40	300	45	30	150	110	90	1/4	24	15	55	M6	M6	M8	17.5	12	12	97	36.8	28	4.4	18	54	54	69	72	36	27	9	85	49	11.8	70



DIMENSIONS Ø 63



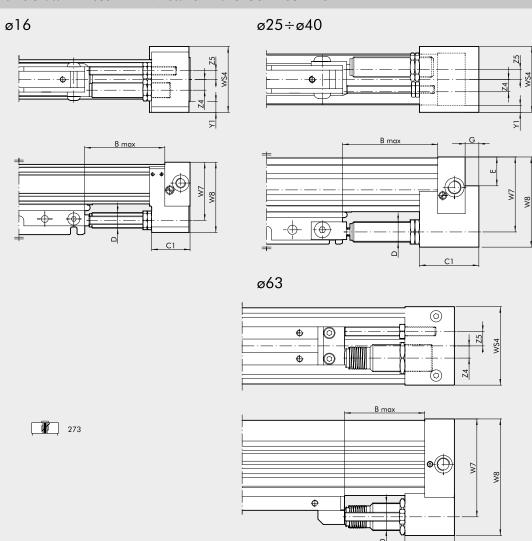
VERSION WITH SWING CARRIAGE



NOTE: For other dimensions see code 270

Ø	Α	ØB	С	D	E	F	G	Н	l .
16	25	4.5	13	2	20	10	-	47-50	28
25	37	5.5	20	3	30	16	-	72-75	42
32	70	6.5	38	5	90	75	55	91-100	70
40	70	6.5	38	5	90	75	55	111-120	70
63	80	M8	32	8	80	65	37	155-162	82

DIMENSIONS VERSION WITH ADJUSTABLE LIMIT SWITCH AND SHOCK ABSORBERS



													Max. cus	shioned force	Max. impact	Max. thrust
Ø	B Max	C1	D	E	G	W7	W8	WS4	Υl	Z4	Z 5	Stroke	For stroke [J]	For hour [J]	force [N]	force [N]
16	42	22	M12x1	-	-	38	46	42	7.5	7	7.5	10.4	10	14125	1000	220
25	72	44	M14x1.5	17	9	53	67	50	5	8	9.8	16	26	34000	2800	530
32	90	56	M20x1.5	29	11	74	89	60	4	10	12.2	22	54	53700	3750	890
40	105	74	M25x1.5	32.8	14	89	108	75	1.5	12.5	12.7	25	90	70000	5500	1550
63	105	65	M36x1.5	-	-	128.5	153	103	-	16	19	25	160	91000	11120	2220

For graphs to help choose shock absorbers see page A1.187

KFY	TO	CO	DEG

CYL	2 7 TYPE	0	0	2 5 BORE	0 1 5 0 STROKE	С	N GASKETS
	27 Rodless cylinder	 Double-acting cushioned magnetic Double-acting with swing carriage Twin cushioned series "Double" Double-acting Magnetic + adjustable limit switches and shock absorbers 	0 Magnetic5 Non-magnetic■ G No stick-slip	16 25 32 40 63	Ø 16: Ø 16: from 100 to 5000 mm Ø 25 to 40: from 100 to 5700 mm Ø 63 from 100 to 5500 mm		N NBR gasket V FKM/FPM gasket

■ For speeds lower than 0.2 m/s, to prevent surging. Use no-lubricated air only • For speed $\geq 1/m/s$ + Available up to Ø 32