RODLESS CYLINDER SERIES STD

RODLESS CYLINDER – SERIES STD

A1

 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

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

• 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 A1.62



TECHNICAL DATA			Ø16	Ø25	Ø32	Ø40	Ø63
Operating pressure		bar			1 to 8		
		MPa			0.1 to 0.8		
		psi			14.5 to 116		
Temperature range	NBR - FKM/FPM	°C			-10 to +80		
Design				Double-acting rodle	ss cylinder with direct	transmission system	
Fluid			50	µm unlubricated filter	ed air Lubrication, if (used, must be continu	DUS
Standard strokes		mm	100 to 5000		100 to 5700		100 to 5500
Sensor magnet				Available ma	gnetic and non-magr	etic versions.	
Recommended speeds	NBR	m/s			<1		
	FKM/FPM	m/s			≥1		
Max. speed with decelerators	NBR	m/s			<1		
	FKM/FPM	m/s			2		
Weights			Se	e cylinder " General te	chnical data " at the l	peginning of the chap	ter
Notes			For speeds lower the	an 0.2 m/s to preven	t surging, use the ve	sion No stick-slip an	d 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[®]
- ⑧ CUSHIONING CONE: aluminium alloy
- ③ STATIC O-RINGS: NBR or FKM/FPM
- 1 SLIDE: aluminium alloy
- 1) OUTER STRIP: stainless steel
- 12 INNER STRIP: stainless steel
- 13 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. $Ma = F \times ha$ $Mr = L \times hv + G \times hr$ $Mv = F \times hv$

 $\frac{Mv}{Mv \max} \leq 1; \qquad \frac{L}{L \max} \leq 1; \qquad \frac{Ma}{Ma \max} + \frac{Mr}{Mr \max} + 0.22 \times \frac{Mv}{Mv \max} + 0.4 \frac{L}{L \max} \leq 1$

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





Α1

BARREL CROSS SECTION





DIMENSIONS Ø 16 to 40

+ = ADDED STROKE



Ø	Α	В	С	D	E	F	G	Н	J	Κ	Μ	M1	M2	Ν	N1	0	Р	R	S	T	U	٧	VS	W	WS	W1	W2	Y	Z1	Z2	Z3	Z4
16	130	12	15	76	64	48	M5	12	6.4	32	M4	М3	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



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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

ACTUATORS

RODLESS CYLINDER – SERIES STD

С

DIMENSIONS VERSION WITH ADJUSTABLE LIMIT SWITCH AND SHOCK ABSORBERS

ø16









ø63







													Max. cus	hioned force	Max. impact	Max. thrust
ø	B Max	C1	D	E	G	W7	W8	WS4	Y1	Z4	Z5	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 A1.195

KEY TO CODES

CVI.	0.7	0	0	0.5	0150	6	N
CYL	27	0	0	2.5	0150	C	N
	TYPE			BORE	STROKE		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 Magnetic S Non-magnetic G No stick-slip 	16 25 32 40 63	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

E 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

RODLESS CYLINDER WITH "V" GUIDE

Two opposed V-shaped guide units are obtained directly in the anodized aluminium cylinder liner, on which a cover with two acetalic resin wear-resistant pads slides.

The cover has a tip-up-type carriage-piston rod coupling. In this way the carriage only transfers loads axially and does not support loads and moments in other directions.

The play of the pads can be adjusted by means of side threaded grub screws. Therefore, it is possible to recover the wear of pads, which can be replaced without the need for dismantling the cylinder.

This family of rodless cylinders has the same features as the basic versions: such as an integrated adjustable pneumatic cushioning, sensor slots and accessory holding slots.

A version is available with adjustable limit switches and hydraulic decelerators. They can be purchased separately and applied at any time to the basic cylinders as well.



ΔΊ

TECHNICAL DATA			Ø25	Ø32	Ø40	Ø63
Operating pressure		bar		1.5	to 8	
		MPa		0.15	to 0.8	
		psi		21.8 t	o 116	
Temperature range	NBR - FKM/FPM	°C		-10 to	o +80	
Design			Dou	ble-acting rodless cylinder	with direct transmission sy	stem
Fluid			50 µm u	nlubricated filtered air Lubr	ication, if used, must be co	ontinuous
Standard strokes		mm		100 to 5700		100 to 5500
Sensor magnet				Available magnetic and	non-magnetic versions.	
Recommended speeds	NBR	m/s		<	1	
	FKM/FPM	m/s		≥	1	
Max. speed with decelerators	NBR	m/s		<	1	
	FKM/FPM	m/s			2	
Weights			See cyli	nder " General technical da	ta " at the beginning of the	chapter
Notes			For speeds lower than 0.	2 m/s to prevent surging,	use the version No stick-sl	ip 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[®]
- (8) CUSHIONING CONE: aluminium alloy
- ③ STATIC O-RINGS: NBR or FKM/FPM
- 1 SLIDE: aluminium alloy
- ① OUTER STRIP: stainless steel
- INNER STRIP: stainless steel
- 13 BAND SUPPORT: Hostaform®
- (4) "V" GUIDE PLATE: 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]
25	14	200	21	350	22	5	22
32	18	300	26	400	40	10	40
40	22	490	32	700	70	26	70
63	44	1300	40	1800	250	80	250

N.B.: The loads can be applied for speeds below 0.2 m/s. For higher speeds, it is advisable not to exceed 1 m/s **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. Ma = F x ha Mr = L x hv + G x hr Mv = F x hv

```
\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
Μv
             \leq 1;
Mv max
                               L max
```

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





ACTUATORS



BARREL CROSS SECTION



DIMENSIONS Ø 25 to 40

+ = ADDED STROKE



 32
 250
 25
 2.6
 23
 27
 150
 110
 40
 1/4
 22
 10.5
 55
 M5
 M6
 90
 15
 12
 6.4
 88
 17.5
 66
 45
 10.5
 40
 36
 56
 52
 30
 22
 8
 79.5
 49.5
 8

 40
 300
 25
 9.4
 45
 30
 150
 110
 40
 1/4
 24
 15
 55
 M6
 90
 17.5
 12
 6.4
 88
 17.5
 80
 45
 17.5
 54
 54
 69
 72
 36
 27
 9
 89.9
 53.9
 11.8

A1

DIMENSIONS Ø 63



DIMENSIONS VERSION WITH ADJUSTABLE LIMIT SWITCH AND SHOCK ABSORBERS















278

												Max. cus	hioned force	Max. impact	Max. thrust
ø	B Max	C1	C2	D	F	W7	W8	WS4	Z4	Z5	Stroke	For stroke [J]	For hour [J]	force [N]	force [N]
25	84	35	9	M14x1.5	80	53	67	50	8	9.8	16	26	34000	2800	530
32	110	45	11	M20x1.5	100	74	89	60	10	12.2	22	54	53700	3750	890
40	120	60	14	M25x1.5	100	89	108	75	12.5	12.7	25	90	70000	5500	1550
63	122	65	-	M36x1.5	120	128.5	153	103	16	19	25	160	91000	11120	2220
For gra	or graphs to help choose shock absorbers see page A1.195														

KEY TO CODES

_									
CYL	2 7 TYPE 27 Rodless	7	7		0 D. Magnetic	2 5 BORE 25	0 1 5 0 STROKE	С	N GASKETS N NBR
	cylinder	8	Double-acting cushioned Magnetic with "V" guide + adjustable limit switches and decelerator	* (S Non-magnetic G No stick-slip	32 40 63	from 100 to 5700 mm Ø 63 from 100 to 5500 mm		gasket • V FKM/FPM gasket
* For s	peeds lower tha	n 0.2	? m/s, to prevent surging. Use no-lubricated air only	• For	speed ≥ 1/m/s				

RODLESS CYLINDER WITH BALL RECIRCULATING GUIDE



The range of rodless cylinders with ball circulation guides is available with five different bores Ø 16, 25, 32, 40 and 63. The bore 63 can be supplied in two versions: the "standard" one for intermediate loads and the "heavy" one for considerably weighty loads. Besides the general features specified for standard rodless cylinders, the other main features are:

- Very high load capacity, acting in all directions without discharging onto the cylinder slide.
- Hardened steel guide connected firmly to the cylinder barrel.
- Paraderied steer guide connected infinity to the cylinder barrel.
 Ball circulation pads constructed using special technology that make them very silent when the guide slides, with very long maintenance intervals.
 For example, they only need lubricating every 2000 km or once a year, using type 2 grease, preferably containing lithium soap.
 Extra sturdy slide support with various holes for fixing the loads.
- Holes for centring pins are also provided.
 100 to 2650 stroke at intervals of 1 mm.
 Integrated pneumatic adjustable 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 A1.62



TECHNICAL DATA			Ø16	Ø25	Ø32	Ø40	Ø63	Ø63 heavy		
Operating pressure		bar			1 t	o 8				
		MPa			0.1 t	o 0.8				
		psi			14.5	o 116				
Temperature range	NBR - FKM/FPM	°C			-10 t	o +80				
Design				Double-acting	g rodless cylinder	with direct transm	ission system			
Fluid				50 µm unlubricate	ed filtered air Lubi	ication, if used, m	ust be continuous			
Standard strokes		mm	100 to 1350	100 to	2300	100 to 2250	100 to 2100	100 to 2650		
Sensor magnet		Available magnetic and non-magnetic versions.								
Recommended speed	NBR	m/s	n/s <1							
	FKM/FPM	m/s			≥	1				
Max. speed with decelerators	NBR	m/s			<	1				
	FKM/FPM	m/s			1	2				
Weights				See cylinder "Ge	neral technical do	ita " at the beginni	ng of the chapter			
Notes			For speeds lowe	r than 0.2 m/s to	prevent surging,	use the version N	o stick-slip and no	on-lubricated air.		

COMPONENTS

For version 275

- ① CYLINDER: see components of rodless cylinders -
- series STD
- (2) GUIDE: hardened steel
- ③ PAD: steel with hardened ball circulation
- ④ SLIDE SUPPORT: anodized aluminium
- For version 276
- Besides the details specified above:
- ⑤ END-OF-STROKE STUD PIN: zinc-plated steel, complete with 2 zinc-plated nuts for fixing
- 6 DECELERATOR: burnished steel, complete with 2 zinc-plated or burnished nuts for fixing
- ⑦ DECELERATOR SUPPORT: anodized aluminium
- (8) BRACKET: hardened-and-tempered and zinc-plated steel



ΔΊ

DIMENSIONING - FORCES AND MOMENTS



Ø	Version	Actual force F at 6 bar [N]	Cushioning stroke [mm]	K [mm]	X [mm]	Y [mm]	Z [mm]	Max load L [N]	Max load G [N]	Ma max [Nm]	Mr max [Nm]	Mv max [Nm]
16	-	110	15	35	16	29	33	500	500	16	15	16
25	-	250	21	50.5	21	44	51.5	1500	1500	100	50	100
32	-	420	26	59	22.5	53.5	70	3000	3000	200	100	200
40	-	640	32	68	24.7	58	73	4000	4000	200	140	200
63	standard	1550	40	84	23.1	79	100	6000	6000	400	140	400
63	heavy	1550	40	91	29.2	79	88	10000	10000	600	400	600

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. $Ma = F \times (hr + Y)$ $Mr = G \times (hr + z) + Lx (hv + X)$

 $Mv = F \times (K + hv)$

$$\frac{Ma}{Aa \max} + \frac{Mr}{Mr \max} + \frac{Mv}{Mv \max} + \frac{L}{L \max} + \frac{G}{G \max} \leq \frac{1}{2}$$

DIAGRAM OF SPEED AND MAXIMUM CUSHIONABLE LOAD

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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





ACTUATORS



DIMENSIONS Ø 16



275

DIMENSIONS Ø 25



275

275

DIMENSIONS Ø 32; Ø 40



A1

Ø	Α	В	С	Н	J	Ν	Р	٧	VS	W	WS	WS1	W1	W2	W3	W4	W5	W6	Y	Z1	Z3
32	250	23	27	22	10.5	14	86	40	36	56	52	85	30	22	95	70	99	78.5	8	74	8
40	300	45	30	24	15	17.5	97	54	54	69	72	104	36	27	98	73	102	88	9	85	11.8

DIMENSIONS Ø 63



63

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W0950637036

W0950637001

W0950637033

_

W0950637001



DIMENSION VERSION WITH ADJUSTABLE LIMIT SWITCH AND SHOCK ABSORBERS Ø 16 to 63

ø16

ø25; ø32; ø40

WS3





ø63 HEAVY













Bm

A1

force [N]
220
530
890
1550
2220
2220

For graphs to help choose shock absorbers see page A1.195

KEY	TO	CO	DES
			DEC

CYL	27	5	0	2 5	0150	С	N
	27 Rodless cylinder	 5 Double-acting cushioned magnetic with ball circulation guides 6 Double-acting cushioned magnetic with ball circulation guides + adjustable limit switch and shock absorbers 	 O STD Magnetic S STD Non-magnetic G STD No stick-slip A HEAVY Magnetic B HEAVY No stick-slip C HEAVY Non-magnetic 	16 25 32 40 63	STROKE Ø 16: 100 to 1350 mm Ø 25 - 32: 100 to 2300 mm Ø 40: 100 to 2250 mm Ø 63 std: 100 to 2100 mm Ø 63 heavy: 100 to 2650 mm		GASKETS N NBR gasket V FKM/FPM gasket

RODLESS CYLINDER SERIES DOUBLE

DIMENSIONING - FORCES AND MOMENTS



Bore	Actual force F at 6 bar [N]	Cushioning stroke [mm]	Max load L [N]	Ma max [Nm]	Mr max [Nm]	Mv max [Nm]
2x16	200	15	240	8	2.4	1
2x25	480	21	600	30	8	6
2x32	820	26	900	60	16.5	10

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. Ma = F x ha Mr = L x hv + G x hr Mv = F x hv

$$\begin{array}{ll} \mathsf{Ma} = \mathsf{F} \mathsf{x} \mathsf{ha} & \mathsf{Mr} = \mathsf{L} \mathsf{x} \mathsf{hv} + \mathsf{G} \mathsf{x} \mathsf{hr} & \mathsf{Mv} = \mathsf{F} \mathsf{x} \mathsf{hv} \\ \frac{\mathsf{Mv}}{\mathsf{Mv} \max} \leq 1; & \frac{\mathsf{L}}{\mathsf{L} \max} \leq 1; & \frac{\mathsf{Ma}}{\mathsf{Ma} \max} + \frac{\mathsf{Mr}}{\mathsf{Mr} \max} + 0.22 \, \mathsf{x} \frac{\mathsf{Mv}}{\mathsf{Mv} \max} + 0.4 \, \frac{\mathsf{L}}{\mathsf{L} \max} \leq 1 \end{array}$$

For technical data, see **rodless cylinders - series STD**. For weights, see cylinder "**General technical data**" at the beginning of the chapter.

DIMENSIONS OF RODLESS CYLINDER, DOUBLE SERIES

+ = ADD THE STROKE



272

Ø	Α	В	С	D	E	F	G	Н	J	К	Μ	Ν	M1	N1	0	Р	R	S	T	U	VW	VS	WW	WS	Y	Z
2x16	130	12	15	76	64	48	M5	12	6.4	32	M5	10	M3	7	16	53.5	48	42	3	34	42	18	51	27	4.5	37.5
2x25	200	17	23	120	100	80	1/8	18.5	8.5	50	M6	15	M5	12	20	74	66	59	3.5	50	63	27	72	41	7	53.5
2x32	250	23	27	150	110	90	1/4	22.5	10.5	55	M6	12	M6	14	20	95	86.5	77.5	4.5	70	86	40	100	56	8	74

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.



ACCESSORIES AND SPARE PARTS FOR RODLESS CYLINDERS

FIXINGS FOR RODLESS STD, "V" GUIDE, WITH BALL RECIRCULATING GUIDE CYLINDERS



FOOT Ø 16; 25

+ = ADDED STROKE	Code W0950167001	Ø 16	ØAB 3.6	AH 1.5	AO 14	AT 1.6	AU 4	TR 18	UH 26	H 150	Weight [g]
	W0950257001	25 backed v	5.5 vith 2 sc	2 rews	22	2.5	6	2/	40	232	32
FOOT Ø 32; 40											

+ = ADDED STROKE



Code	Ø	ØAB	AH	AO	AT	AU	AV	TR	UH	Н	Weight [g]
W0950327001	32	6.6	4	25	20	8	20	36	51	284	88
W0950407001	40	9	2	25	20	11.5	30	54	71	327	112

Note: Individually packed with 2 screws

FOOT Ø 63

+ = ADDED STROKE



Code	Ø	ØAB	AT	AO	AU	TR	UH	Н	Weight [g]
W0950637001	63	11	7	64	15	78	103	460	360
Note: Individually pr	rcked wi	ith 2 scri	214/5						

INTERMEDIATE FOOT Ø 16; 25 FOR STD AND "V" GUIDE



—		
	AO	AH

Code	Ø	ØAB	AH	AO	AT	TR	UH	Weight [g]
W0950167031	16	5.5	3	20	5	41	53	4
0950254094	25	5.5	4	20	6	48	60	6

Note: Individually packed.

INTERMEDIATE FOOT Ø 32; 40 FOR STD AND "V" GUIDE



Code	ø	ØAB	AH	AO	AT	AV	TR	UH	Weight [g]	
W0950327032	32	6.5	5	55	8	40	61.5	73	72	
W0950407032	40	6.5	7	60	8	45	70-75	85	104	

Note: plate supplied complete with 4 screws, 4 fixing plates

ACTUATORS

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INTERMEDIATE SUPPORT Ø 63 FOR VERSION STD, "V" GU	DE AND VERTICA	al po	SITION	I BALL		RCULA [.]	ring	
	Code	Ø	ØAB	AO	AT	TR	UH	Weight [g]
	W0950637032	63	8.5	55	7.5	78	103	330
	Note: plate supplied	l comple	ete with A	4 screws	s, 4 fixir	ng plates		

INTERMEDIATE SUPPORT Ø 16 to 25 FOR BALL RECIRCULATING



Code	ø	ØAB	ØAB1	AH	AO	AV	TR	TR 1	TR2	UH
W0950164004	16	3.5	M3	3	12	6	20	4	8	32.5
W0950254004	25	5.5	M5	4	20	10.5	30.5	6	12	49

Note: Supplied complete with 4 screws

INTERMEDIATE SUPPORT Ø 32 to 40 FOR BALL RECIRCULATING



Code	Ø	ØAB	ØAB1	AH	AO	AT	AV	TR	TR1	TR2	UH
N0950324004	32	6.5	M6	5	55	5	40	55	6	13	66
N0950404004	40	6.5	M6	6.6	60	8	45	63	7.5	15	77

Note: Supplied complete with 4 screws, 4 plates.

INTERMEDIATE SUPPORT KIT Ø 63 FOR HORIZONTAL POSITION BALL RECIRCULATING



Code	ø	ØAB	AH	AO	AT	TR	UH
W0950637036	63	8.5	7.5	55	8.5	78	103

Note: Supplied complete with 4 screws, 4 plates.

NOTES

FIXINGS FOR RODLESS CYLINDER SERIE DOUBLE

FOOT Ø 16; 25



Code	Ø	ØAB	AH	AO	AT	AU	TR	UH	Н	Weight [g]
W0950168001	2x16	3.6	1.5	14	1.6	4	42	51	150	18
W0950258001	2x25	5.5	2	22	2.5	6	63	72	232	54
Note: Individually packed complete with 2 screws										

FOOT Ø 32





Note: Indiv	idually pag	cked compl	ete with 2	screws

Description

Foot DOUBLE Ø 32

Code

W0950328036

VERTICAL FOOT Ø 16; 25



Code	Ø	ØAB	AH	AO	AT	AU	TR	UH	Н	Weight [g]
W0950167001	2x16	3.6	1.5	14	1.6	4	18	26	150	10
W0950257001	2x25	5.5	4	22	2.5	6	27	40	232	32

Note: Individually packed complete with 2 screws

VERTICAL FOOT Ø 32



Code	Description	Weight [g]
W0950328035	Vertical foot Ø 32	92
Note: Individually p	acked complete with 2 screws	

INTERMEDIATE FOOT Ø 16 to 32



Code	ø	ØAB	AH	AO	AT	AV	TR	UH	Weight [g]
W0950168037	2x16	3.5	3	12	6	6	60.5	64	16
W0950258037	2x25	5.5	4	20	6	10.5	84.5	96	34
W0950328037	2x32	6.5	5	55	8	40	111.5	123	96

Note: Supplied complete with 8 screws, 8 fixing plates (plates for Ø 32 only)

Weight [g]

156

A1

ACCESSORIES FOR CONVERTING STD RODLESS CYLINDERS INTO SWING CYLINDERS

KIT TO TRANSFORM INTO SWING VERSION



Code	ø	Weight [g]
W0950167035	16	34
W0950257035	25	118
W0950327035	32	450
W0950327035	40	450
W0950637035	63	810

Note: Ø 16 to 40: Supplied complete with 1 adaptor, 1 support, 1 pin, 1 bushing Ø 63: Supplied complete with 1 plate, 1 support, 1 pin, 2 bushings, 4 screws

DRIVE PIN



Code	ø	Α	В	ØC	Weight [g]
W0950167034	16	2.9	28	5	6
W0950257034	25	5	42	8	16
W0950327034	32	8	70	12	52
W0950327034	40	8	70	12	52
W0950637034	63	10	82	14	100

Note: Individually packed

SWING SUPPORT Ø 16; 25



Code	ø	Α	ØB	с	D	E	F	Weight [g]		
W0950167033	16	25	4.5	13	2	20	10	14		
W0950257033	25	37	5.5	20	3	30	16	40		
Note: Individually packed										

SWING SUPPORT Ø 32; 40; 63



Code	ø	Α	ØB	С	D	E	F	G	Weight [g]
W0950327033	32	70	6.5	38	5	90	75	55	274
W0950327033	40	70	6.5	38	5	90	75	55	274
W0950637033	63	80	M8	32	8	80	65	37	400

Note: Individually packed

SENSOR MAGNETIC

RETRACTABLE SENSOR



SENSOR, OVAL TYPE





For codes and technical data, see **chapter A6**.

Note: For rodless cylinders Ø25 having "V" guide use only the HS version of the oval type.



Code 0950164001

Description Sensor support STD

Note: Supplied with 1 stud pin, 2 screws

SENSOR SUPPORT Ø 16 FOR RODLESS CYLINDER WITH BALL RECIRCULATING



Code sensor support	Description sensor support	Type sensor support	Mounting on the carriage opposite side	Mounting on the guide opposite side
0950164003	Sensor support short	A	•	
0950164001	Sensor support std	В		•

Note: Supplied complete with 2 screws, 1 pin

SHOCK ABSORBERS

ADJUSTABLE LIMIT SWITCH AND SHOCK ABSORBERS KIT



Code	Description	Weight [g]		
0950164002	Rodless cylinder limit switch and shock absorbers Ø 16	125		
0950254002	Rodless cylinder limit switch and shock absorbers Ø 25	260		
0950324002	Rodless cylinder limit switch and shock absorbers Ø 32	460		
0950404002	Rodless cylinder limit switch and shock absorbers Ø 40	730		
0950634002	Rodless cylinder limit switch and shock absorbers Ø 63	1620		
Note: Supplied complete with 1 shock absorber support, 1 standard shock absorber, 1 shock absorber nut,				
1 limit switch grub screw, 1 grub screw nut (2 for Ø 63), 1 bracket, 1 bracket screw,				
A lacking and service (for Q 16 and Q 25). A lacking plates and A service (for Q 22 and Q 40)				

ocking grub screws (tor Ø 16 and Ø 25), 4 locking plates and 4 screws (tor Ø 32 and Ø 40)

ADJUSTABLE LIMIT SWITCH AND SHOCK ABSORBERS KIT FOR RODLESS CYLINDER WITH "V" GUIDE

Code



	Description	Weight [g]
54004	Rodless cylinder limit switch and shock absorbers Ø 25	260
24004	Rodless cylinder limit switch and shock absorbers Ø 32	460
04004	Rodless cylinder limit switch and shock absorbers Ø 40	730
34004	Rodless cylinder limit switch and shock absorbers Ø 63	1620

Note: Supplied complete with 1 shock absorber support, 1 standard shock absorber, 1 shock absorber nut, 1 limit switch grub screw, 1 grub screw nut (2 for Ø 63) , 1 bracket, 1 bracket screw, 4 locking grub screws (for Ø 25), 4 locking plates and 4 screws (for Ø 32 and Ø 40)

SHOCK ABSORBERS





GRAPHS TO HELP CHOOSE THE RIGHT SHOCK ABSORBERS











The dotted areas indicate that the SHOCK ABSORBERS is supplied standard. Other options can be selected depending on the speed [m/sec] and the maximum work force [J/stroke] to dissipate at each stroke. Refer to the diagrams above to select the correct option. Δ1

SPARE PARTS FOR STD RODLESS CYLINDERS, "V" GUIDE, BALL RECIRCULATING GUIDE, DOUBLE

"LAST RELEASE" CYLINDER





Χ

Type

PISTON

Υ

Black

Light Gr ark Gre

ø

25

32

40

BANDS SUPPORT

KIT POS 11

Code

"V" GUIDE PLATE

0090255060

0090325060

0090325060 **63** 0090635060

FKM/FPM GASKET KIT

1) Bands support Kit 2 Piston kit ③ ④ ⑤ ⑥ ⑦ ⑩ NBR gaskets Kit (FKM/FPM for ⑦) 3 4 5 6 7 10 FKM/FPM gaskets Kit (8) 9 Bands Kit (inner/outer) 1) "V" guide plate kit

0090405016

0090635016

BANDS SUPPORT KIT POS 1 (Y)

Ø	Code White	Code Black	Code Orange	Code Light grey	Code Dark grey	Code Yellow
16	0090165080	0090165081	0090165082	0090165083	0090165084	0090165085
25	0090255080	0090255081	0090255082	0090255083	0090255084	0090255085
32	0090325080	0090325081	0090325082	0090325083	0090325084	0090325085
40	0090405080	0090405081	0090405082	0090405083	0090405084	0090405085
63	0090635080	0090635081	0090635082	0090635083	0090635084	0090635085

0090405017

0090635017

						Com	Jiele
						figure	e cylir
PIS	TON KIT POS 2	(X)				NBR POS	GA 3-4
ø	Code Type 0 (0 rings)	Code Type 1 (1 rings)	Code Type 2 (2 rings)	Code Type 3 (3 rings)	Code Type A (4 rings)	Ø	Cod
16	0090165015	0090165016	0090165017	0090165018	-	16	009
25	0090255015	0090255016	0090255017	0090255018	0090255019	25	009
32	0090325015	0090325016	0090325017	0090325018	0090325019	32	009

BANDS KIT (INNER AND OUTER) POS 8-9 Ø Code

16	0090166	
25	0090256	
32	0090326	
40	0090406	
63	0090636	

Complete the code with the 4	
igure cylinder stroke	

NBR	GASKET KIT
POS	3-4-5-6-7-10

40

63

S 3-4-5-6-7-10	POS 3-4-5-6-7-10
Code	Ø Code
0090165022	16 0090165023
0090255022	25 0090255023
0090325022	32 0090325023
0090405022	40 0090405023
0090635022	63 0090635023

NOTES

40 63 0090405015

0090635015

If the ends of the carriage appear as below indicated, please contact our commercial department for the spare parts

0090405018

0090635018

"INTERMEDIATE RELEASE"

"OLD RELEASE"

Spare parts label

on one cylinder side



Allen screw with self-locking nut



Allen screw with self-locking nut

Black Finned scraper