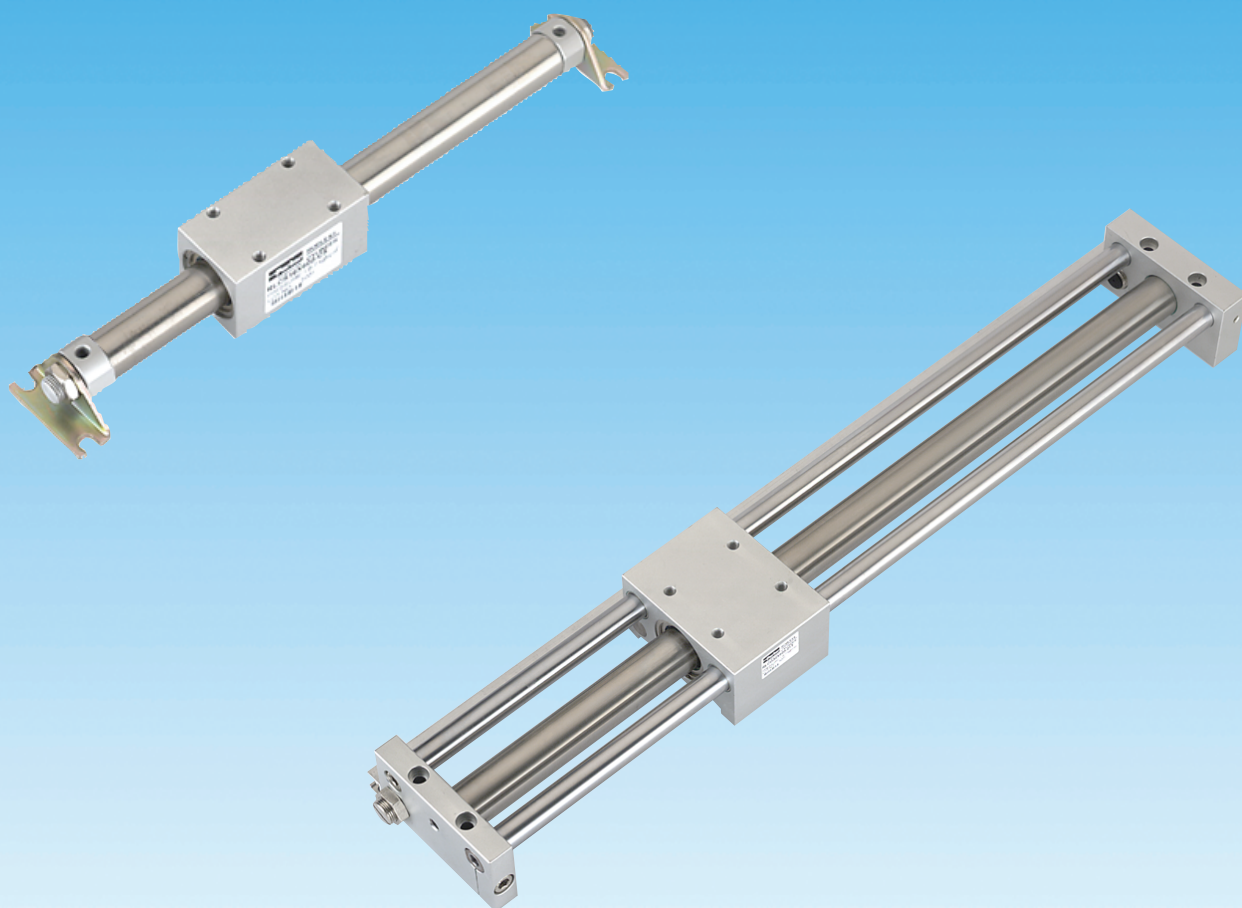




Rodless magnetic cylinders series P1Z

Ø 16, 20 and 32 mm

Catalogue : PDE2522TCUK-po



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**Important**

Before attempting any external or internal work on the cylinder or any connected components, make sure the cylinder is vented and disconnect the air supply in order to ensure isolation of the air supply.

**Important**

Please ensure that rodless cylinders are not used in environment with steel chips which may stop the carriage/piston displacement.

**Note**

Air quality is essential for maximum cylinder service life (see ISO 8573)

Note

All technical data in this catalogue are typical data only.

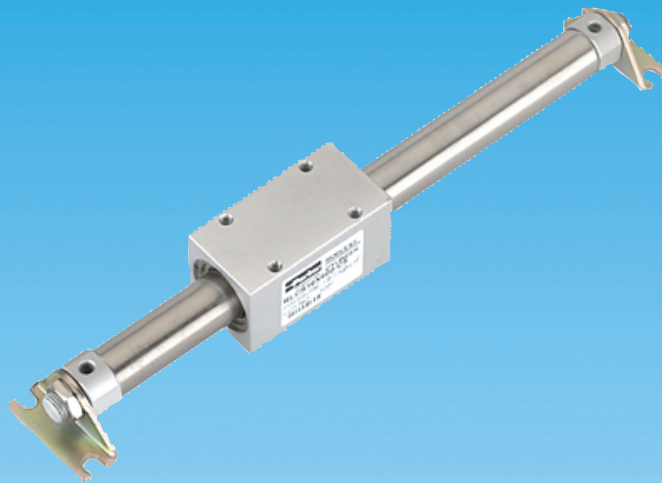
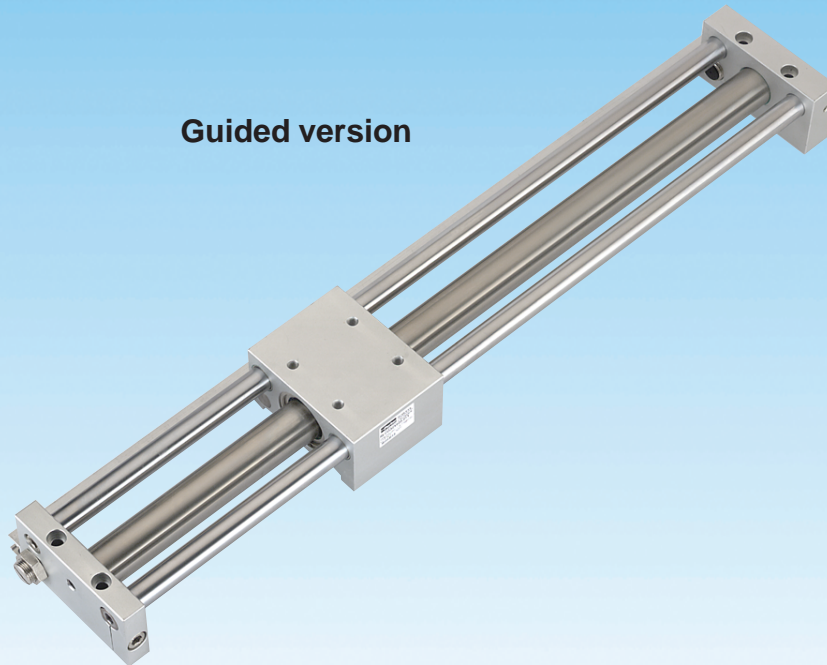
**WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

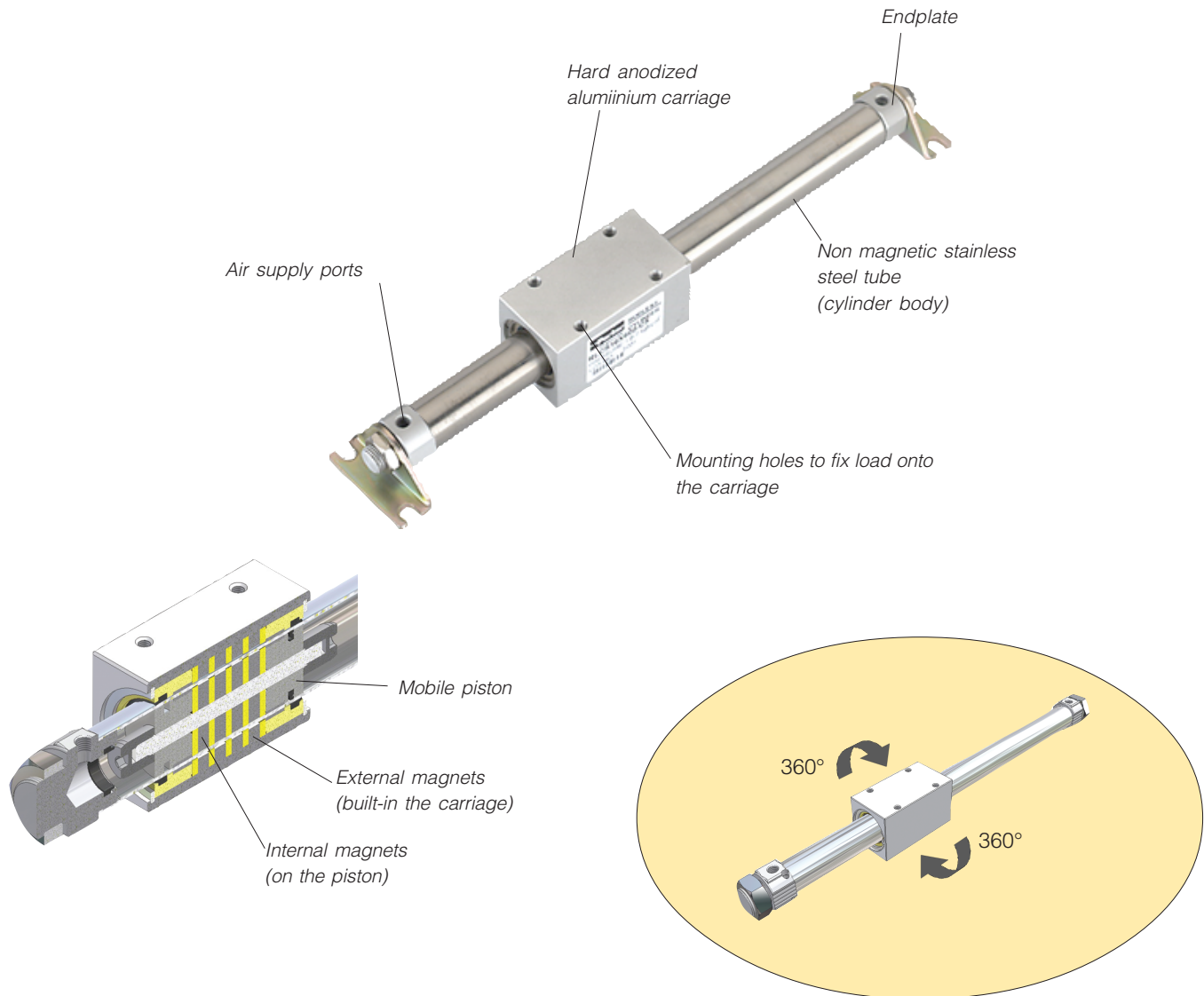
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Basic version**Guided version**

Basic version



Description

The magnetic rodless cylinder is basically a pneumatic rodless cylinder featuring a mobile piston fitted with annular magnets.

The mobile carriage is also equipped with magnets to provide magnetic coupling (carriage/piston). The carriage slide freely along the main tube.

It incorporates the following features :

- end of stroke cushioning
- mounting :
 - on endplates
 - on the carriage

Cushioning

Ø 16 mm : non adjustable rubber bumpers

Ø 20 and 32 mm : adjustable pneumatic cushioning

Attachement

On cylinder endplates, on mobile carriage.

Mounting

The mobile carriage is free to rotate 360° around the cylinder axis. This feature facilitates the adaptation of cylinder to various mounting arrangements.

The load should be guided by an external device.

General features

Magnetic Rodless cylinder, basic version

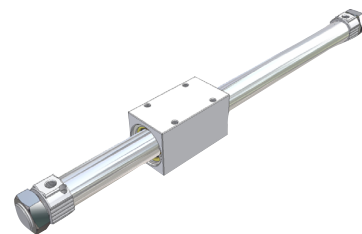
They are available in 3 bores with possible stroke lengths from 0 up to 2000 mm.

Non adjustable Rubber bumpers on Ø 16 mm.

Adjustable Pneumatic cushioning on Ø 20 and 32 mm.

The load is fixed onto the mobile carriage by 4 tapped holes.

The cylinder is attached by ends with nuts, flanges or brackets.



Ø	16	20	32
Stroke (mm)	0 to 1000	0 to 1500	0 to 2000
Stroke tolerance (mm) 0 to 1000 mm		0/+1,5	
Stroke tolerance (mm) > 1000 mm		0/+2	
Repeatability (mm)	0,1		0,03
Temperature (C°)		-10 to 60	
Operation	Dry air lubricated or unlubricated		
Port size	M5	G1/8	G1/8
Magnetic coupling force (N)	157	236	703
Min. Max. speed (m/s)		0,1 to 0,4	
Min. operating pressure (bar)		1,8	
Max. operating pressure (bar)		7	
Cushioning stroke (mm)	—	17	15
Weight (kg)			
Stroke 0 mm	0,28	0,46	1,35
Extra./mm	0,00043	0,00082	0,0014

Technical data

Function	Description
Carriage actuating	By magnetic coupling
Carriage guiding	Exterior on tube by 2 bushes
End of stroke stops	In cylinder endplates
Cushioning	Rubber bumpers for Ø 16 mm, pneumatic for Ø 20 & 32 mm
Position sensing along the stroke	Not forecasted
Pneumatic connection	In tapped holes, on each cylinder endplate
Lubrication	See conditions of use below
Cylinder mounting	By nuts, flanges or brackets
Load attachment on mobile carriage	By 4 tapped holes
Material :	
Body :	Stainless steel tube
Carriage :	Colourless anodized aluminium alloy (6060)
Front and Rear Endplates :	Colourless anodized aluminium alloy (6060)
Cylinder seals :	Nitrile

Conditions of use

If extra lubrication is given, this must always be continued.

Working medium, air quality

Working medium Dry, filtered compressed air to ISO 8573-1 class 3. 4. 3. or better

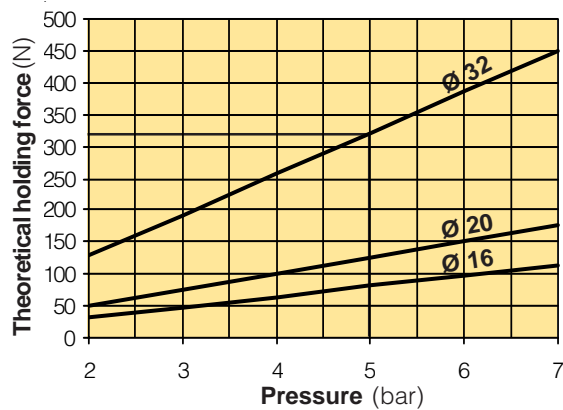
Recommended air quality for cylinders

For best possible service life and trouble-free operation, ISO 8573-1. quality class 3.4.3 should be used. This means 5 µm filter (standard filter), dew point +3 °C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/ m³, which is what a standard compressor with a standard filter gives.

ISO 8573-1 quality classes

Quality class	maxi. Pollution prticles size (µm)	max. concentration (mg/m ³)	Water max. pressure dew point (°C)	Oil max. concentration (mg/m ³)
1	0,1	0,1	-70	0,01
2	1	1	-40	0,1
3	5	5	-20	1,0
4	15	8	+3	5,0
5	40	10	+7	25
6	-	-	+10	-

Pressure in the cylinder / Pneumatic holding force



Example :

Pressure : 5 bar

$F_{mp} = 322 \text{ N}$ for Ø 32 mm cylinder

when the magnetic coupling force is 703 N

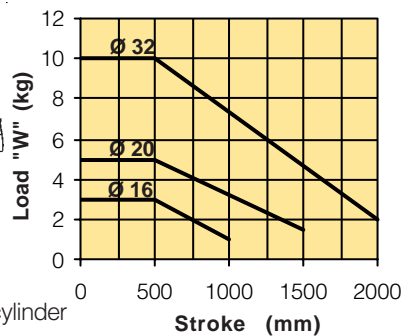
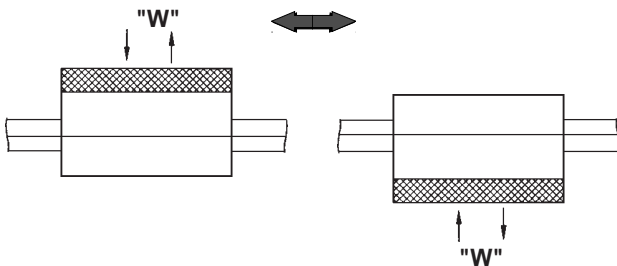
(constant value whatever the cylinder pressure used).

The maxi load to move should be lower to 322 N.

⚠ Calculate the kinetic energy due to the load moved

Load diagrams

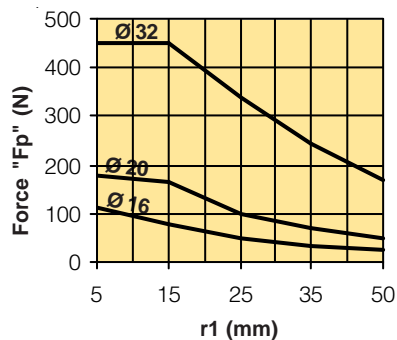
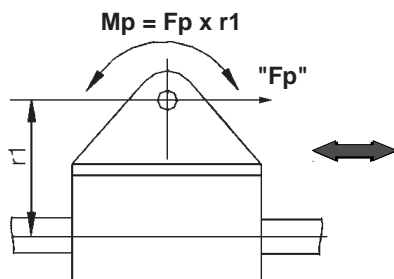
Permissible radial loads, horizontal mounting



Ø	W maxi (kg)
16	3
20	5
32	10

⚠ The load must be guided by a device from outside the cylinder

Permissible axial loads, horizontal mounting

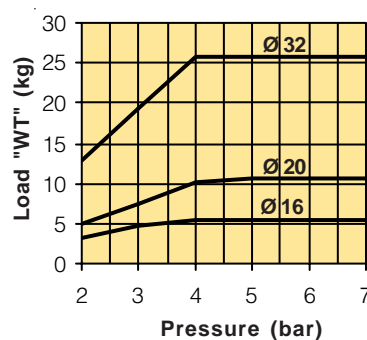
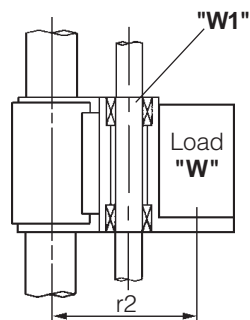


Ø	Max. Moment Mp (Nm)	Max. Fp* (N)
16	1,2	112
20	2,5	175
32	8,5	450

* at 7 bar

⚠ The load must be guided by a device from outside the cylinder

Permissible axial loads, vertical mounting



Ø	Max. load IWT* (kg)	Max. r2 (mm)
16	5	122
20	10	142
32	24	174

* at 6,5 bar

W = Load guided by external device
W1 = Direct mounting onto the cylinder

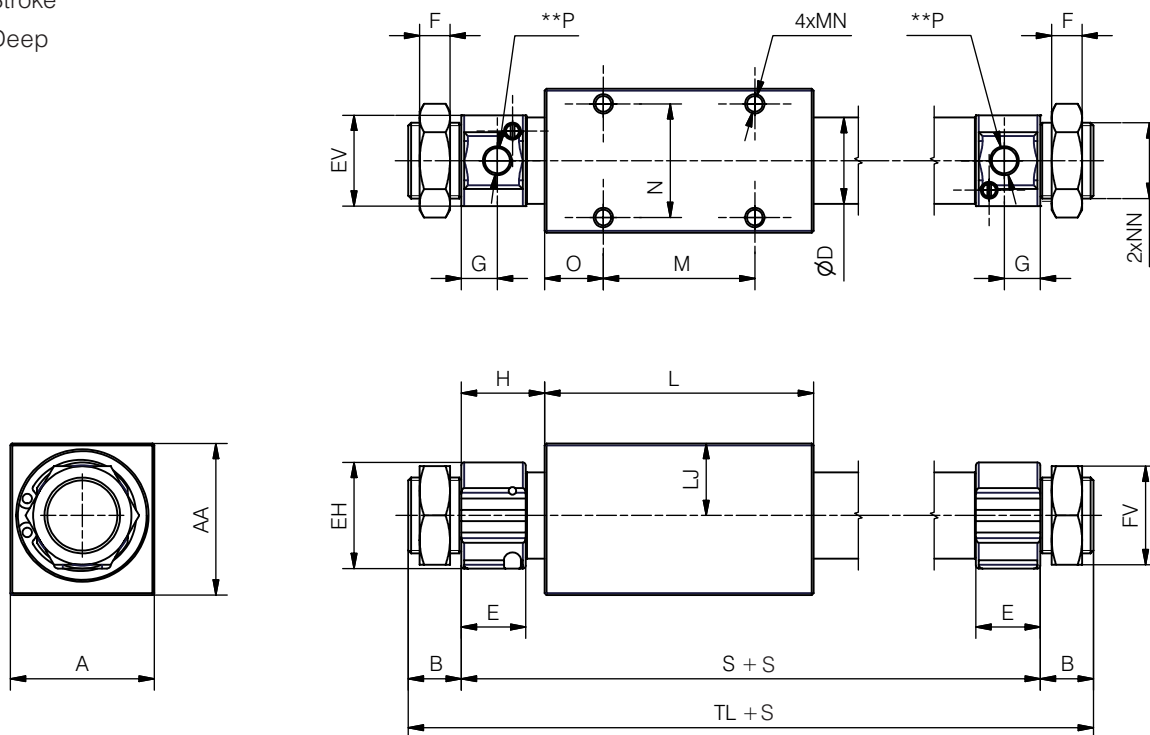
WT = Load weight + guiding device weight + friction effort

Dimensions

** = Air supply Ports

S = Stroke

x = Deep

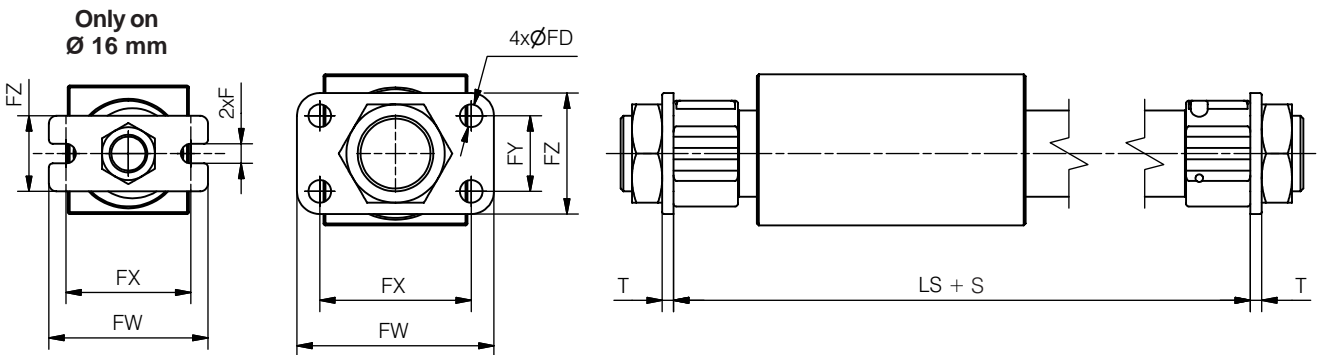


Ø	A	AA	B	ØD	E	ØEH	ØEV	F	FV	G	H	L	LJ	M	N	O
16	32	34	10	18	11	18	18	4	14	5,5	15,5	61	16	34	25	13,5
20	38	40	14	22,8	17	28	24	8	26	9,5	22	71	19	40	30	15,5
32	60	60	16	35	17	40	36	8	32	9,5	23	87	30	50	40	18,5

Ø	P	MN	NN	S	TL
16	M5 x 0,8	M4 x 0,7 x 6	M10 x 1 x 6	92	112
20	G 1/8	M5 x 0,8 x 8	M20 x 1,5 x 7	115	143
32	G 1/8	M6 x 1 x 10	M26 x 1,5 x 7	133	165

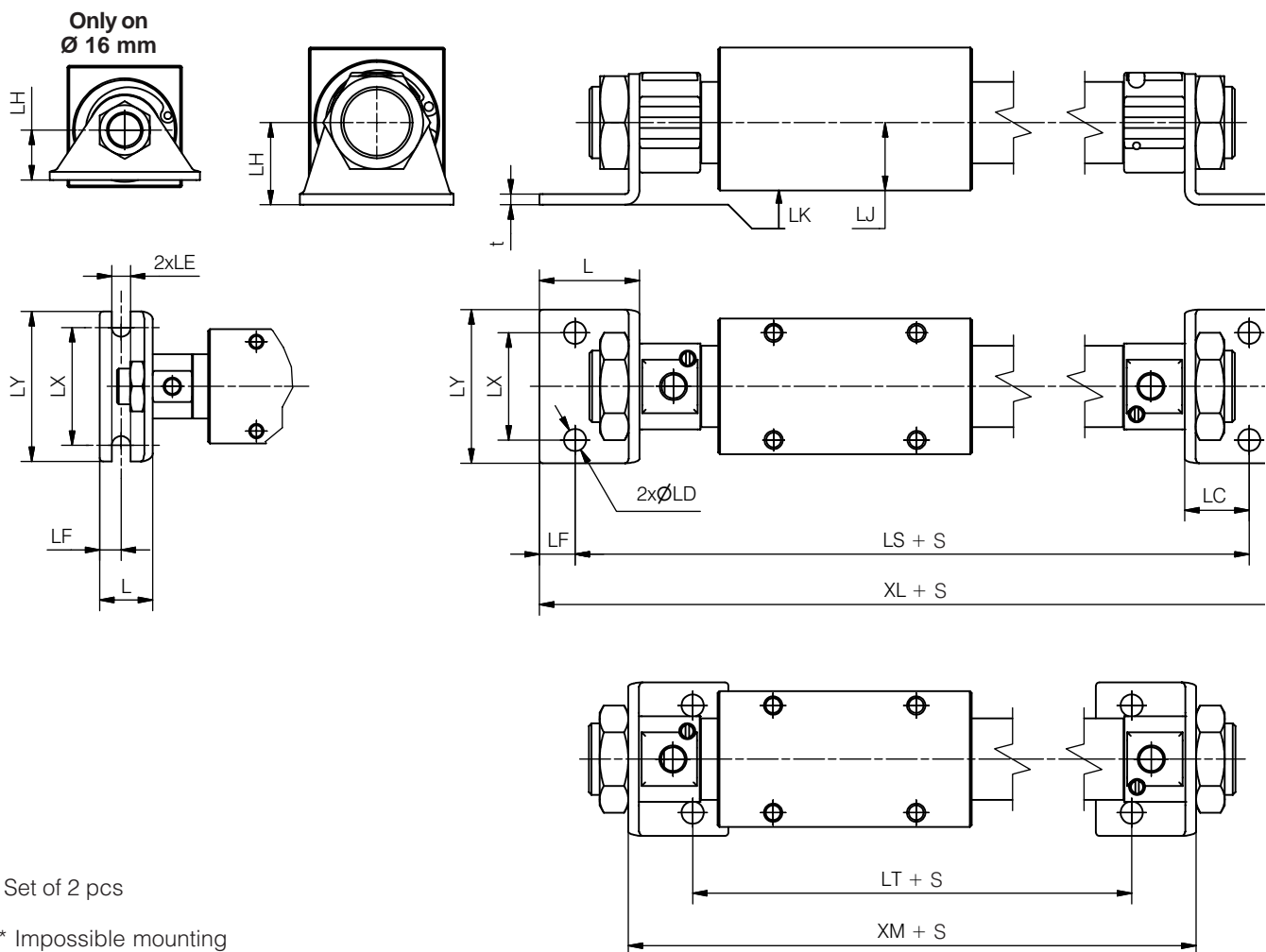
Mountings

Flanges



\varnothing	F	\varnothing FD	FW	FX	FY	FZ	T	LS	Order code
16	5,2	-	42	33	-	20	2,3	92	PDC15-FH*
20	-	6	52	40	20	32	3	115	PK1A20-FH*
32	-	7	80	64	28	44	5	133	PK1A25-FH*

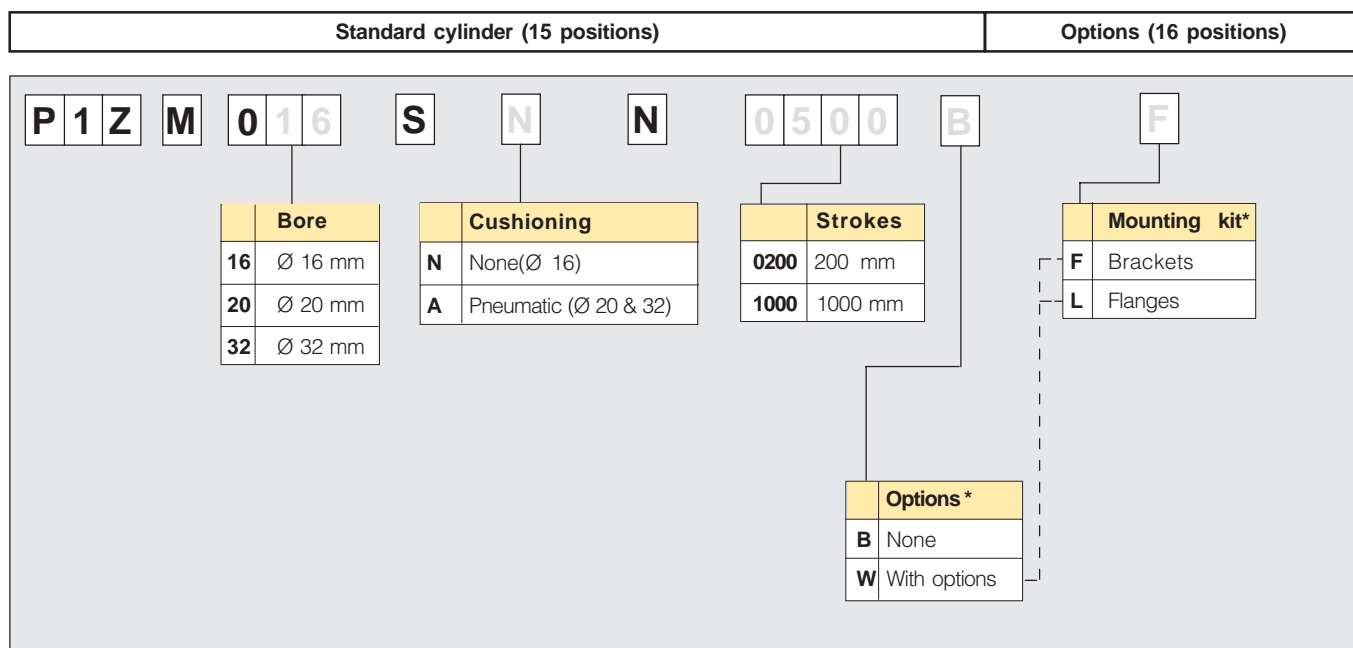
Brackets



* Set of 2 pcs

** Impossible mounting

\varnothing	t	L	LC	\varnothing LD	LE	LF	LH	LJ	LK	LX	LY	LS	LT	XL	XM	Order code
16	2,3	14,8	8,8	-	5,2	6	14	16	-2	33	42	109,6	79	121,6	96,6	PDC15-LB*
20	3	28	18	6,2	-	10	23	19	4	30	43	151	85	171	121	PK1A20-LB*
32	3	35	23	7	-	12	30	30	0	46	62	179	**	203	**	PK1A25-LB*

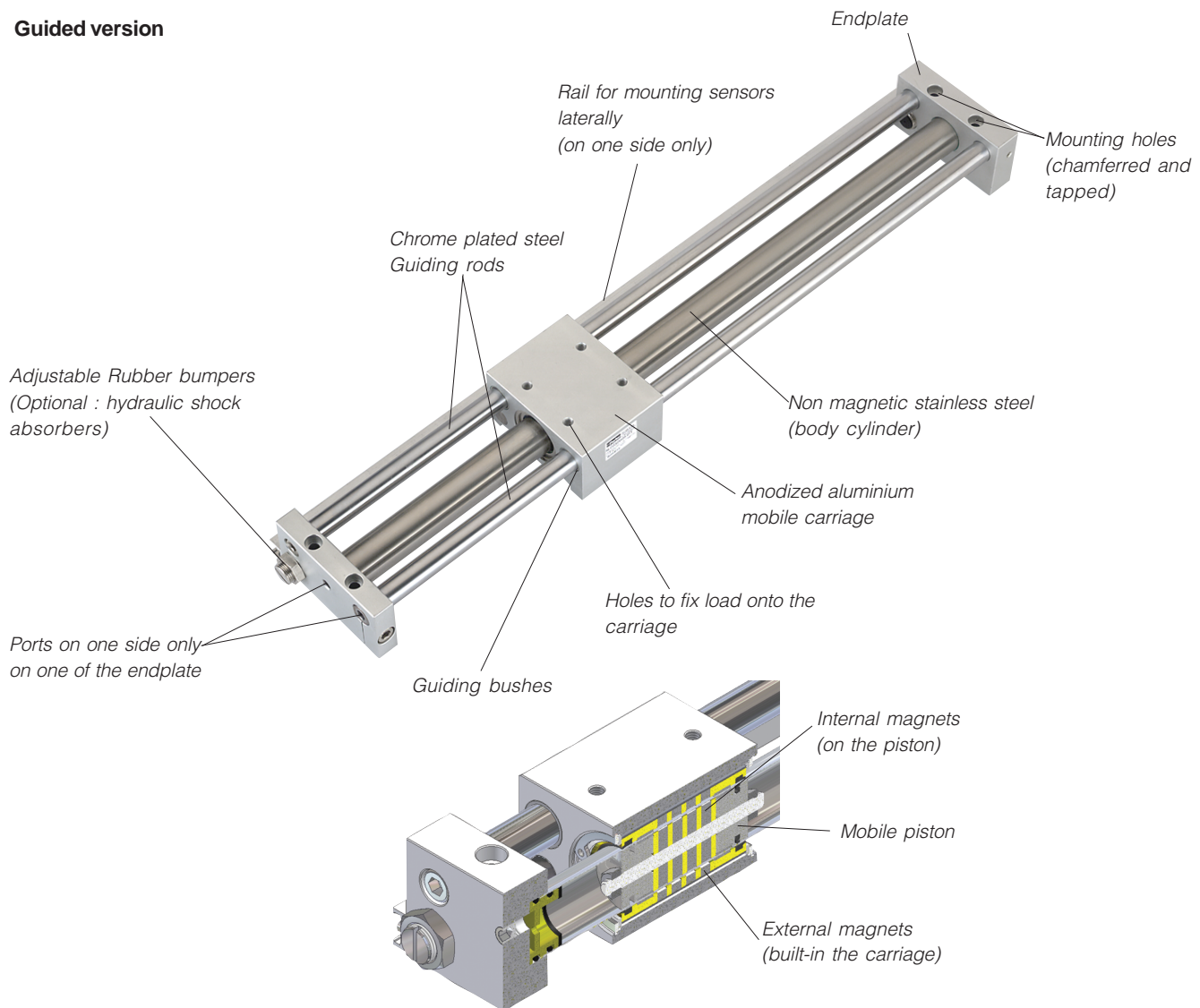


* Cylinders are supplied with mounting nuts fitted on each end plate.

Ø	Stroke (mm)
16	0 to 1000
20	0 to 1500
32	0 to 2000

Order code examples :

- **P1ZM016SNN0100B** Ø 16 mm stroke 100 mm cylinder supplied with mounting nut on each end plate
- **P1ZM020SAN1000WF** Ø 20 mm stroke 1 m with mounting bracket on each end plate

Guided version**Description**

The magnetic rodless cylinder is basically a rodless cylinder featuring a mobile piston with annular magnets. The mobile carriage is also equipped with magnets to give magnetic coupling (carriage/piston). The carriage slides along the main tube and is guided by twin guide rods.

It incorporates the following features :

- guiding
- end of stroke cushioning
- detection
- mounting

Guidance

The guided version consists of a carriage fitted with 4 plain bearings, guided on 2 rods. This design provides high rigidity, accurate guidance and smooth movement of the carriage and thus the load.

Cushioning

Each endplate is fitted with a rubber bumper or auto-compensating hydraulic shock absorber absorbing impacts and controlling deceleration at the end of stroke.

Cylinder porting

Cylinder air supply is located on one end only to facilitate cylinder installation and avoid long tube lengths for long strokes.

Mounting

Mounting kits offer possible mounting arrangement to fit 3D® modular units onto the mobile carriage.

Options

The following options are available to enhance the Magnetic Rodless cylinder functions :

- **External Rubber bumpers** : when low operating or light loads and short strokes.
- **External hydraulic shock absorbers** : recommended for arduous applications.
- **Rail and magneto-inductive sensors** : provide data at the beginning, during and at the end of stroke.

Range

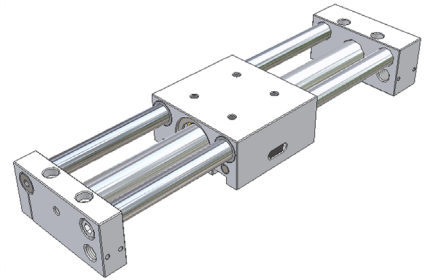
Magnetic Rodless Cylinder, guided version

Available in 3 diameters with possible strokes from 0 to 1500 mm.

Pneumatic air supply on one side only.

4 tapped holes permit to attach load onto the mobile carriage.

Mounting at the ends provided by 4 tapped and chamfered holes.

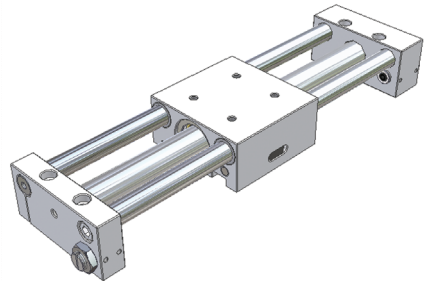


Options

External adjustable Rubber bumpers

The can be fitted on cylinder endplates and provide cushioning and adjustment at the end of stroke.

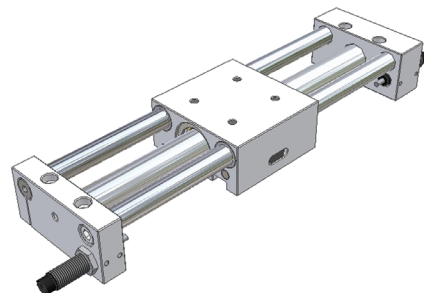
Used when light loads and short strokes.



External hydraulic shock absorbers

Self-compensating hydraulic shock absorbers can be used instead of rubber bumpers for a greater cushioning at the end of stroke.

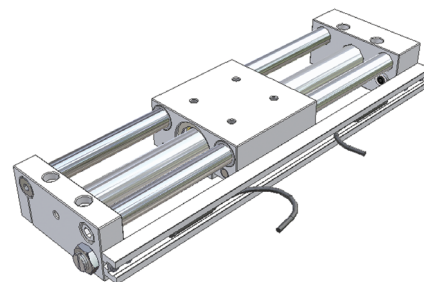
They are virtually recommended for arduous applications.



Magneto-inductive Sensors:

A guiding rail fitted on one side only of the cylinder provides mounting and position adjustment of sensors.

Mounting on same side as the end of stroke stops.



General features

Ø	16	20	32
Stroke (mm)	0 to 750	0 to 1000	0 to 1500
Stroke tolerance (mm) 0 à 1000 mm		0/+1,5	
Stroke tolerance (mm) > 1000 mm		0/+2	
Repeatability (mm)		0,03	
Temperature (C°)		0 to 60	
Operating	Dry air lubricated or unlubricated		
Port connection	M5	G1/8	G1/8
Max. force of magnetic coupling (N)	157	236	703
Min. Max. speed (m/s)		0,1 to 0,4	
Min. operating pressure (bar)		2	
Max. operating pressure (bar)		7	
Weight (kg)			
Stroke 0 mm	0,9	1,52	3,63
Extra/mm	0,002	0,003	0,0053

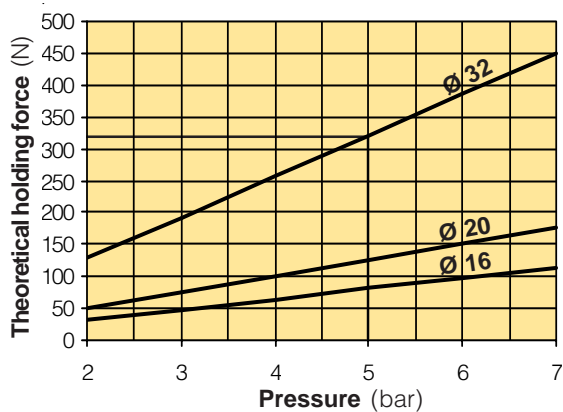
Technical data

Function	Description
Carriage actuation	By magnetic coupling
Carriage guiding	On 2 chrome plated steel guiding rods
End of stroke stops	Built-in endplates
Cushioning	With adjustable rubber bumpers or hydraulic shock absorbers
Sensing along stroke	Magnet fitted onto the mobile carriage and rail fixed on endplates
Pneumatic connection	On one side only, in tapped holes
Lubrication	See conditions of use page 5
Cylinder fixing	By fixing holes in endplates
Fixing load on mobile carriage	By 4 tapped holes
Material :	
Body :	Stainless steel
Plates and carriage :	Colourless anodized aluminium alloy (6060)
Front and Rear endplates :	Colourless anodized aluminium alloy (6060)
Guiding rods :	Chrome plated steel
Guiding rings :	PTFE
Cylinder seals :	Nitrile

Options

Function	Description
Detection	Sensors mounting in T-slot Magnetic switches (reed) or 3-wires magneto-inductive sensors with direct indication on the detector
External rubber bumpers	Supplied pre-fitted in endplates
Hydraulic shock absorbers	Self-compensating shock absorbers supplied pre-fitted in endplates

Pressure in the cylinder / Pneumatic holding force



Example :

Pressure : 5 bar

$F_{mp} = 322 \text{ N}$ for Ø 32 mm cylinder

when the magnetic coupling force is 703 N

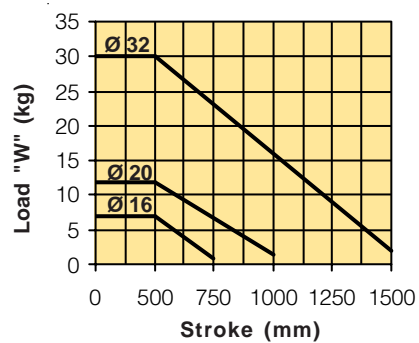
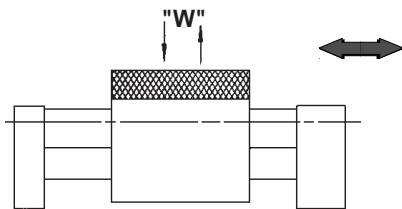
(constant value whatever the pressure in the cylinder is).

The maxi load to move should be lower to 322 N.

Calculate the kinetic energy due to the load moved

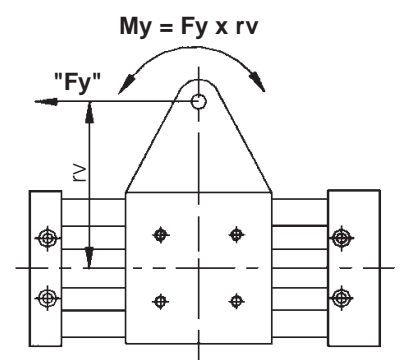
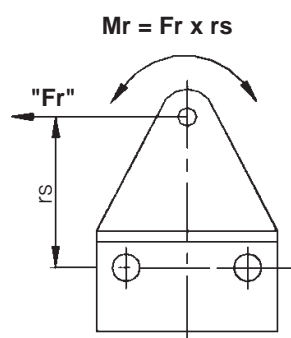
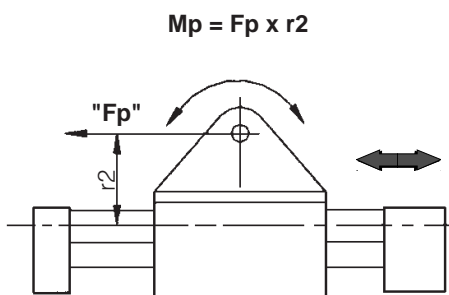
Loads diagram

Permissible radial loads, horizontal mounting



Ø	Max. W (kg)
16	7
20	12
32	30

Permissible axial loads, horizontal mounting



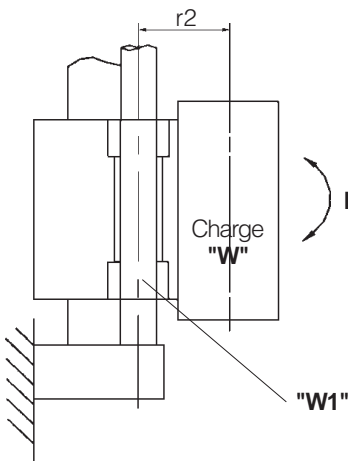
Ø	Max. moment M_p (Nm)	Max. moment M_r (Nm)	Max. moment M_y (Nm)	Max. r_2 (mm)	Max. r_s (mm)	Max. r_v (mm)
16	2,4	0,5	2,4	130	100	100
20	5	1	5	150	132	132
32	15	3	15	182	192	192

Loads diagram

Permissible axial loads, vertical mounting

Ø	Max. Load WT* (kg)	Max. r2 (mm)
16	5	122
20	10	142
32	24	174

* at 6,5 bar

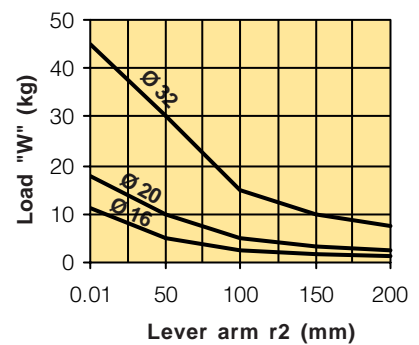
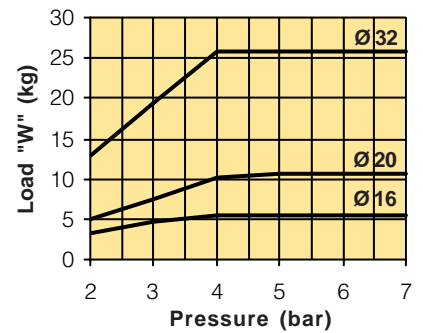


$$M_p = F_p \times r_2$$

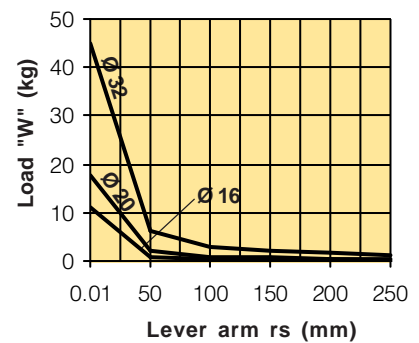
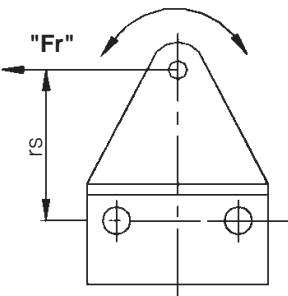
W = Load guided by external device

W1 = mounting direct onto cylinder

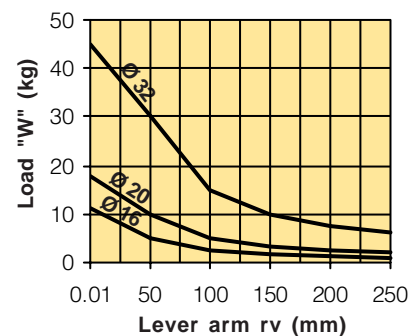
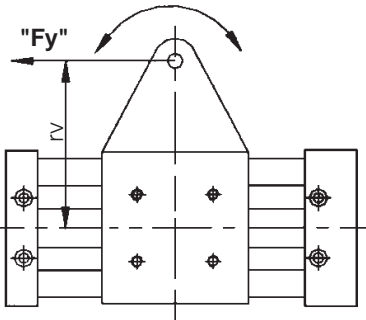
WT = Load weight + guiding device weight + friction effort



$$M_r = F_r \times r_s$$



$$M_y = F_y \times r_v$$

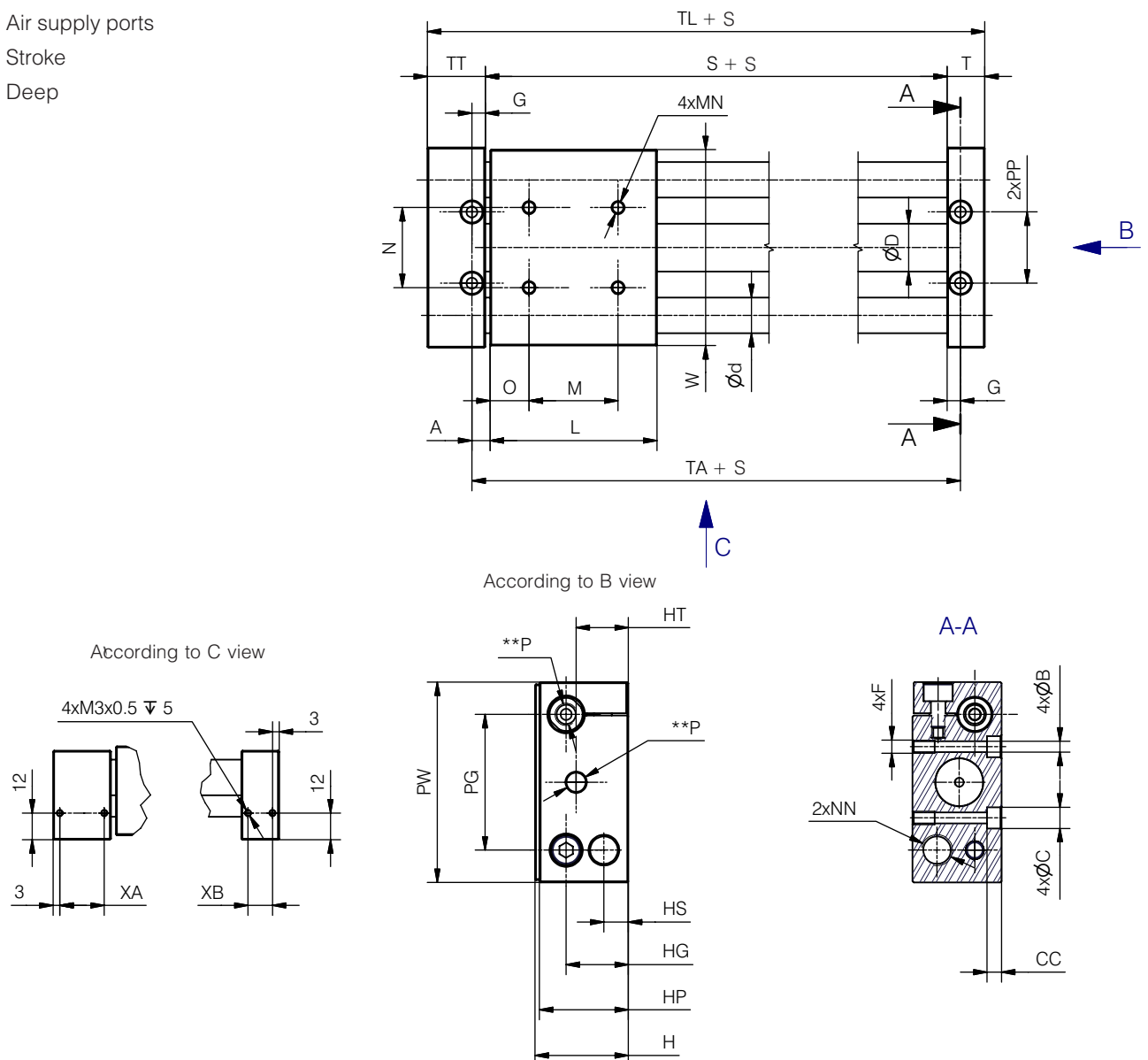


Dimensions

** = Air supply ports

S = Stroke

x = Deep

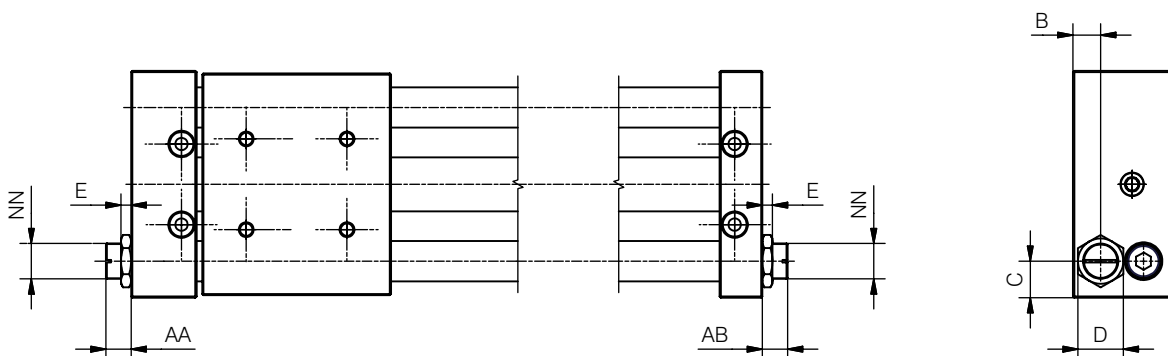


Ø	A	ØB	ØC	CC	ØD	Ød	F	G	H	HP	HG	HS	HT	L	M	N	MN
16	8	4,3	8	4,5	17,4	12	M5x0,8 x 10	6	34	33,5	25	12	21,5	65	34	30	M5 x 0,8 x 8
20	8	5,5	9,5	6,5	21,4	16	M6x1 x 10	6	42	40	28	12	23,5	75	40	36	M6 x 1 x 10
32	13,5	8,7	14	8	33,6	20	M10x1,5 x 15	10	66	64	46	20	41	91	60	50	M8 x 1,25 x 12

Ø	NN	O	P	PG	PW	PP	T	TT	S	TA	TL	W	XA	XB
16	M10 x 1 x 6	15.5	M5 x 0,8	50	70	27	14	23	69	81	106	68	17	8
20	M14 x 1,5 x 7	17.5	G1/8	61	90	32	17	26	79	91	122	88	20	11
32	M20 x 1,5 x 7	15.5	G1/8	86	122	50	20	28	97	117	145	118	22	14

Option External adjustable rubber bumpers

Dimensions



Ø	AA	AB	B	C	D	E	NN
16	7,5	6,5	12	10	14	4	M10 X 1
20	10	10	11	14,5	18	4	M14 X1,5
32	11	12	20	18	26	8	M20 X 1,5

Option External hydraulic shock absorbers

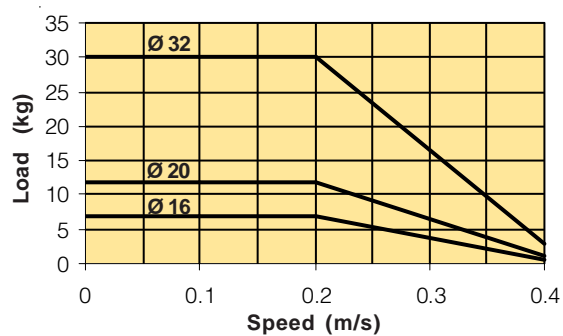
Loads / Speeds diagram

The opposite diagram points the P1Z cylinders maxi capacities.

If the cross-section point between speed and load is under the curves,

it is imperative to fit hydraulic shock absorbers to prevent cylinders

damage.



Example :

Say a Ø 32 mm cylinder with a 0,3 m/s speed and 25 kg load

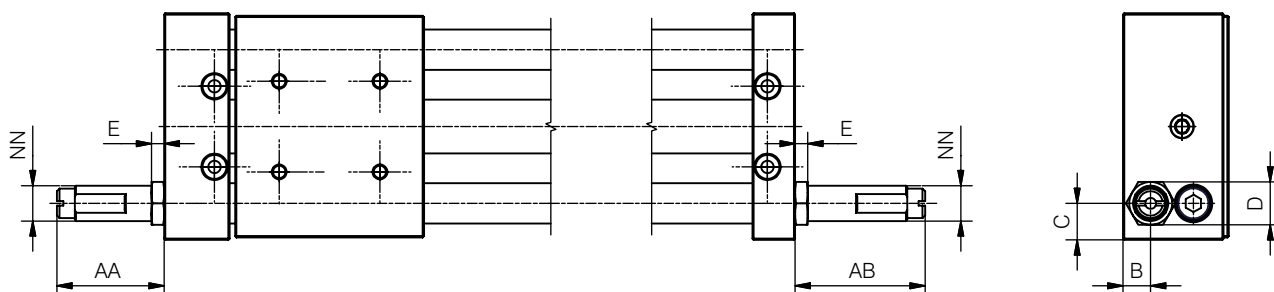
Choose hydraulic shock absorbers option

Say a Ø 20mm cylinder with 0,2 m/s speed and 10 kg load

Choose rubber bumpers option

Option External hydraulic shock absorbers

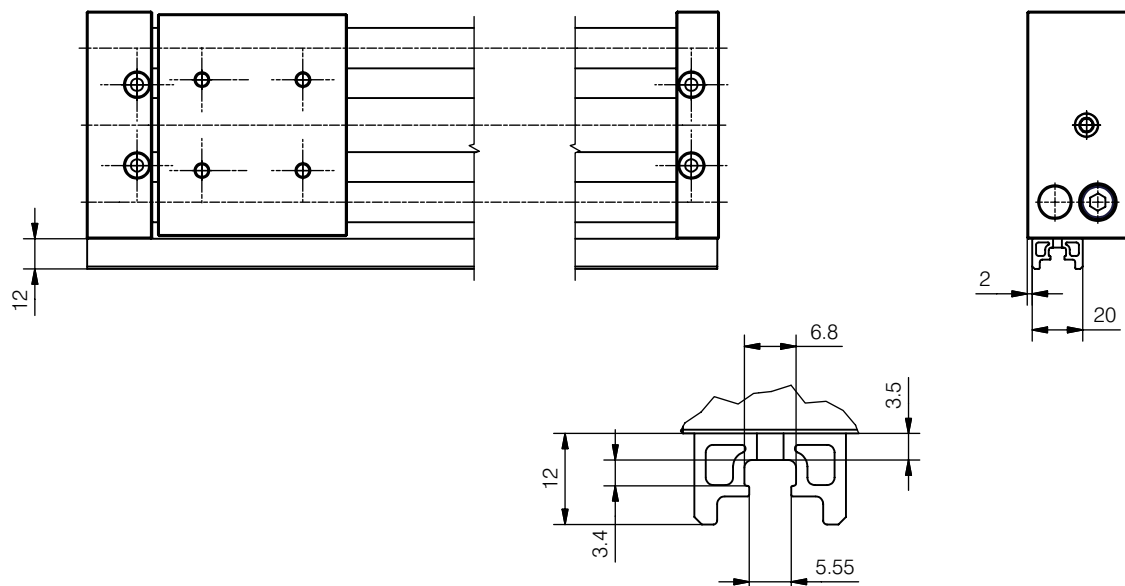
Dimensions



Ø	AA	AB	B	C	D	E	NN
16	18	27	12	10	13	3	M10 X 1
20	50	59	11	14,5	17	5	M14 X 1,5
32	56	66	20	18	24	6	M20 X 1,5

Option Rail

Dimensions

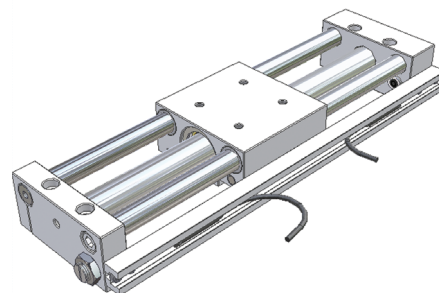


Valid for the 3 diameters

Detection

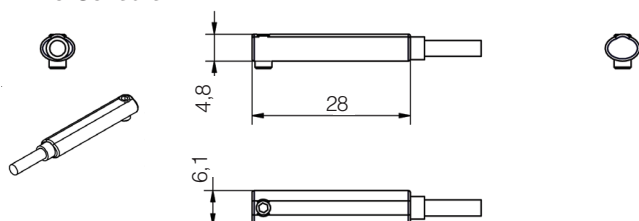
Reed switches and Sensors mounting is possible on one cylinder side only.

External aluminium profile integrates 1 T-slot.

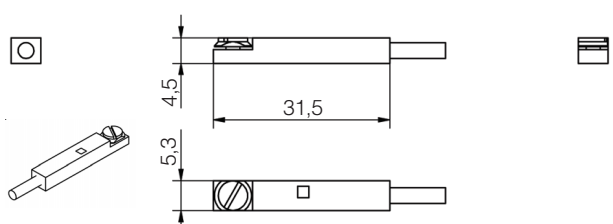


Dimensions (mm)

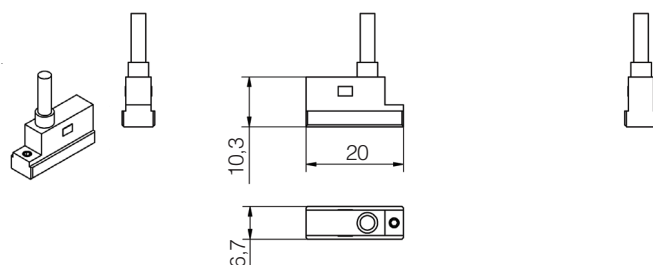
In-line Sensors



In-line Reed switches



Switches or Sensors with connection at 90°



Technical data







Magnetic switches (Reed)

Output function	Cable length (m)	Connection	Max. current (mA)	Voltage range (VCA/CC)	Mass (kg)	Protection number	Operating temperature (°C)	Order code
NO	0,3	at 90° with connector	100	10-120	0,005	IP 67	-25 to +75	P8S-SRTHX
NO	0,3	Straight with connector	100	10-120	0,005	IP 67	-25 to +75	P8S-GSSHX
NO	3,0	at 90° without connector	100	10-120	0,030	IP 67	-25 to +75	P8S-SRELX
NO	3,0	Straight without connector	100	10-120	0,030	IP 67	-25 to +75	P8S-GSFLX

Magneto-inductive Sensors (PNP-NPN)

1 or 10 m cable upon request

Output function	Cable length (m)	Connection	Max. current (mA)	Voltage range (CC)	Mass (kg)	Protection number	Operating temperature (°C)	Order code
PNP, NO	0,3	at 90° with connector	150	10-30	0,005	IP 67	-25 to +75	P8S-SPTHXD
PNP, NO	0,3	Straight with connector	150	10-30	0,005	IP 67	-25 to +75	P8S-GPSHX
PNP, NO	3,0	at 90° without connector	150	10-30	0,030	IP 67	-25 to +75	P8S-SPELXD
PNP, NO	3,0	Straight without connector	150	10-30	0,030	IP 67	-25 to +75	P8S-GPFLX
NPN, NO	0,3	at 90° with connector	150	10-30	0,005	IP 67	-25 to +75	P8S-SNTHX
NPN, NO	0,3	Straight with connector	150	10-30	0,005	IP 67	-25 to +75	P8S-GNSHX
NPN, NO	3,0	Straight without connector	150	10-30	0,030	IP 67	-25 to +75	P8S-GNFLX

Standard version (15 positions)										Options (18 positions)																																	
P	1	Z	M	0	1	6	T	N	N	0	5	0	0	B	N	M	L																										
				<table border="1"> <thead> <tr> <th colspan="2">Bore</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>Ø 16 mm</td> </tr> <tr> <td>20</td> <td>Ø 20 mm</td> </tr> <tr> <td>32</td> <td>Ø 32 mm</td> </tr> </tbody> </table>		Bore		16	Ø 16 mm	20	Ø 20 mm	32	Ø 32 mm	<table border="1"> <thead> <tr> <th colspan="2">Cushioning</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>No stops**</td> </tr> <tr> <td>C</td> <td>Rubber bumpers</td> </tr> <tr> <td>H</td> <td>Hydraul. shock absorber</td> </tr> </tbody> </table>		Cushioning		N	No stops**	C	Rubber bumpers	H	Hydraul. shock absorber	<table border="1"> <thead> <tr> <th colspan="2">Strokes</th> </tr> </thead> <tbody> <tr> <td>0200</td> <td>200 mm</td> </tr> <tr> <td>1000</td> <td>1000 mm</td> </tr> </tbody> </table>		Strokes		0200	200 mm	1000	1000 mm			<table border="1"> <thead> <tr> <th colspan="2">Cyl. Port type</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BSP Ø 20 and 32</td> </tr> <tr> <td>M</td> <td>Metric (Ø 16)</td> </tr> </tbody> </table>		Cyl. Port type		B	BSP Ø 20 and 32	M	Metric (Ø 16)		
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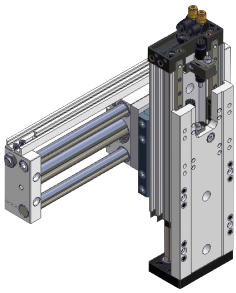
** Choose an external cushioning in case of very slow operating.

Ø	Strokes (mm)
16	0 to 750
20	0 to 1000
32	0 to 1500

Order code examples :

- **P1ZM016TCN0100B** cylinder bore 16 mm stroke 100 mm supplied with rubber bumpers without rail
- **P1ZM020THN1000WNBL** cylinder bore 20 mm stroke 1 m with hydraulic shock absorbers and rail for sensors

Interface with 3D® Modular range



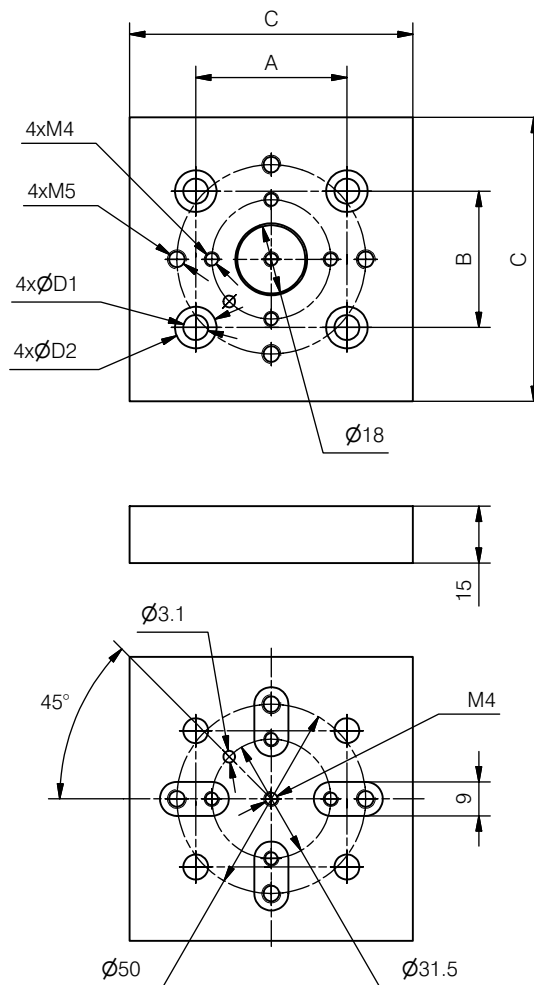
It is possible to have P1Z cylinder mounting arranged with modular units from 3D® Automation product range.

An interface is fitted between the mobile carriage and the mounting kit of the carried unit.

Possible 90° rotation of mounting kit

This plate can only be fitted on the guided version.

Carrier or carried mounting.



Ø	A	B	C	D1	D2	Order code
16	34	30	65	6.6	11 x 6	P5K-ZFB327
20	40	36	75	5.5	10 x 7	P5K-ZHB328
32	60	50	90	9	15 x 9	P5K-ZKB329

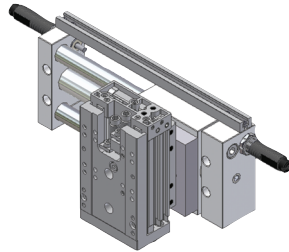
Interface is supplied with :

- mounting screws
- centring sleeve
- pin

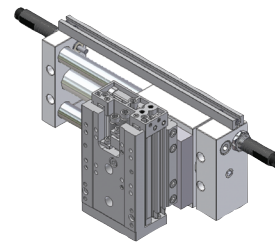
Mounting arrangements

Precision Slide Tables mounting

Without flanges



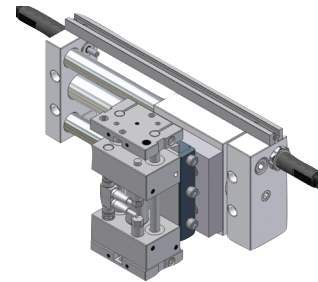
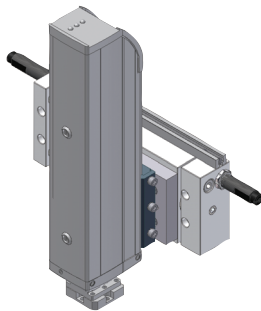
With flanges



Fitted onto

Ø	S12	S16	S20	S25	S12	S16	S20	S25
16	P5K-SDB204	•	•	•	P5K-SDD182	•	•	•
20	•	P5K-SFB205	•	•	•	P5K-SFD183	•	•
32	•	•	P5K-SHB206 P5K-SJB207		•	•	P5K-SHD184 P5K-SJD185	

Linear or Short Strokes Units mounting



Fitted onto

Ø	S1	S2	S3	SSU Ø 16	SSU Ø 25
16	P5K-L1D015	•	•	P5K-S1D121	•
20	•	P5K-L2D016	•	•	P5K-S2D122
32	•	•	P5K-L3D017	•	•

- Other mounting arrangements please consult factory



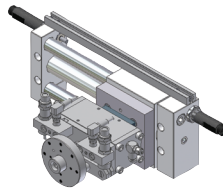
Check that loads and torques on the cylinder carriage do not overstep values mentioned in the previous pages..

Mounting and order examples :

- Choose the P5K-..... interface for mounting on a Ø 16 mm cylinder
- Choose the P5K-SDB204 mounting kit for mounting a size 12 Precision Slide Table with flanges onto a Ø 16 mm cylinder

Mounting arrangements

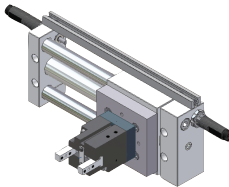
Wrist Rotates mounting



fitted
onto

Ø	WR2	WR3	WR4
16	P5K-W2F012	•	•
20	•	P5K-W3F013	•
32	•	•	P5K-W4F014

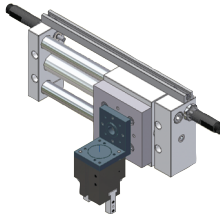
config. 1 Gripper mounting



fitted
onto

Ø	1	2	3	4	5	3H2
16	P5K-G1B000	P5K-G2B002	•	•	•	•
20	•	P5K-G2 B002	P5K-G3B004	•	•	P5K-G2B048
32	•	•	•	P5K-G4B006	P5K-G5B008	•

config. 2 Gripper mounting



fitted
onto

Ø	1	2	3	4	5	3H2
16	P5K-G1F001	P5K-G2F003	•	•	•	•
20	•	P5K-G2F003	P5K-G3F005	•	•	P5K-G2F011
32	•	•	•	P5K-G4F007	P5K-G5F009	•



Check that loads and torques on the cylinder carriage do not overstep values mentioned in the previous pages.

Mounting and order example :

- Select the P5K-..... interface plate for mounting on a Ø 16 mm cylinder
- Select the P5K-G2B002 interface plate for mounting a size 2 conf. 1 Gripper on a Ø 16 mm cylinder

- Other mounting arrangements please consult factory

Spare parts

End of stroke rubber bumpers (2 pieces)

Ø	Order code
16	9129609AS
20	9129610AS
32	9129611AS

End of stroke hydraulic shock absorber (1 piece)

Ø	Order code
16	MC 25 MH-NB-2358
20	MC 150 MH-B
32	SC 300 M-3 NB

Flow controllers (1 piece)

Ø	Order code
16	PTFL 8 PB4 M5
20	PTFL 4 PB6-1/8
32	PTFL 4 PB6-1/8

Repair kits

Ø	Basic version	Guided version
16	P1ZM016SNN-R	P1ZM016GNN-R
20	P1ZM020SNN-R	P1ZM020GNN-R
32	P1ZM032SNN-R	P1ZM032GNN-R