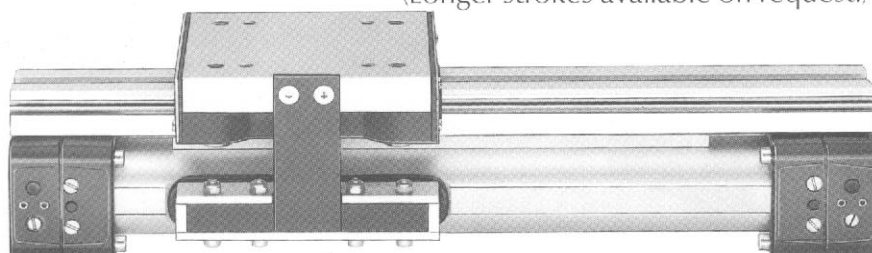


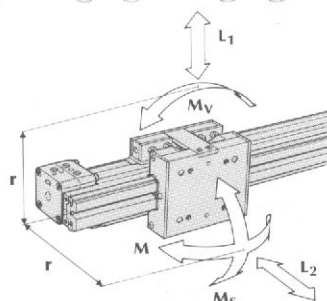
Series P 130 Cylinder with Roller Guide

Diameter 40 mm,
Optional stroke lengths up to 6.000 mm.
(Longer strokes available on request.)



Technical Data

Load, forces, moments



$$M = F \cdot r$$

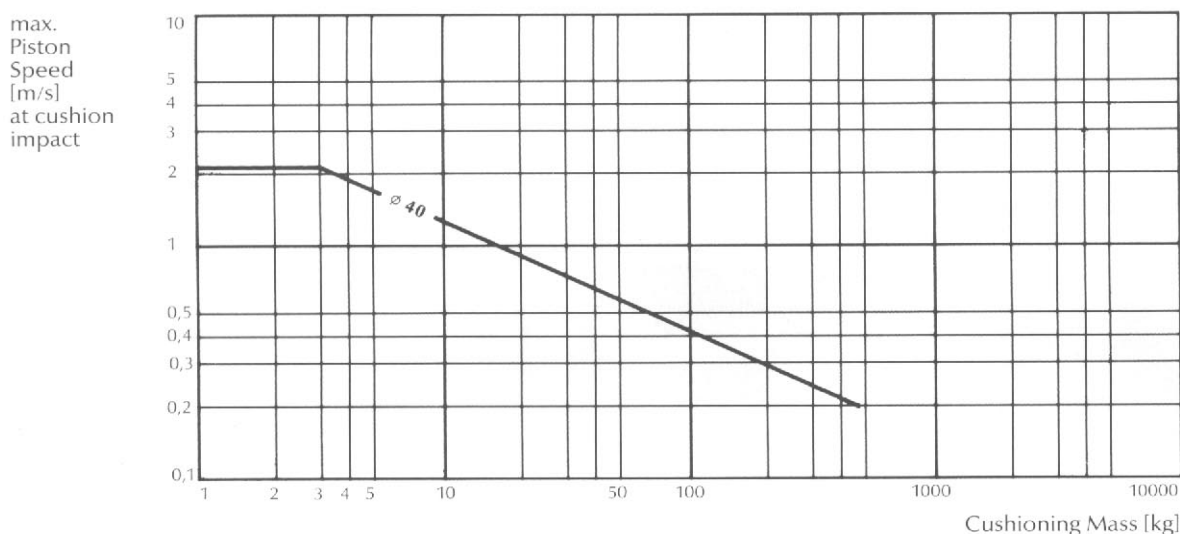
$$M_s = F \cdot r$$

$$M_v = F \cdot r$$

Cyl. Ø	effective Force [N] at 6 bar	Cushion Length [mm]	Max. Allowed Bending Moment [Nm]						Max. Allowed Torque [Nm]		Max. Allowed Load [N]			
			S*	M	D*	S*	M _s	D*	S*	M _v	D*	S*	L ₁	L ₂
40	640	32	110	80	50	30	110	110	2500	2000	1800	1500		

Values are based on light shock free duty and should not be exceeded during piston acceleration.
Where stainless guide parts are used the direct load and moments are reduced by 20%.
Operating pressure max. 8 bar.
S* = static, D* = dynamic

Cushioning Diagram

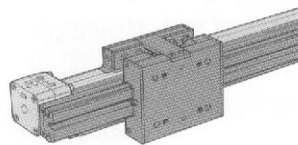


For piston speeds of more than 1 m/s, viton seals are recommended.
If the approved limits are exceeded additional shock absorbers are advisable.
For piston speeds of less than 0,2 m/s slow speed lubrication is recommended.
Maximum seal life will be achieved when piston speeds do not exceed 1 m/s.

Piston Mountings

Standard Piston Mounting

Type P 130 S/20



Piston mounting No. S/20

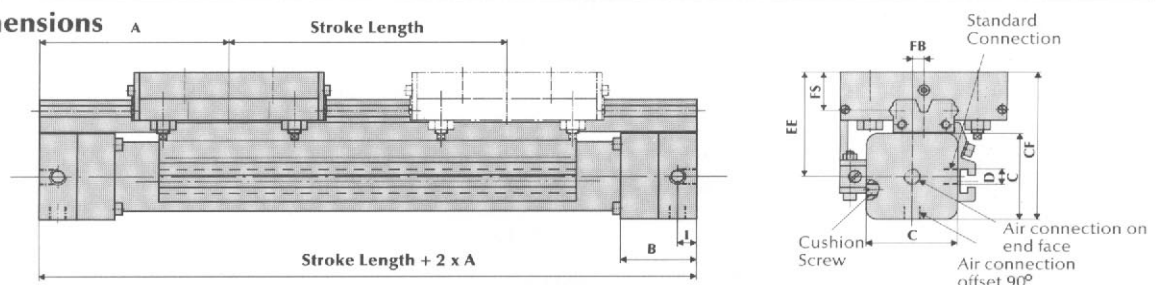
Aluminium

Mounted during
cylinder assembly

Cyl. ϕ	Cylinder weight [kg] for 0 stroke	increase 100 mm stroke	Ident- No.
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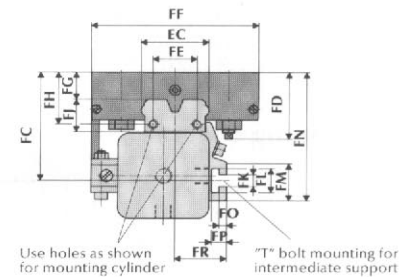
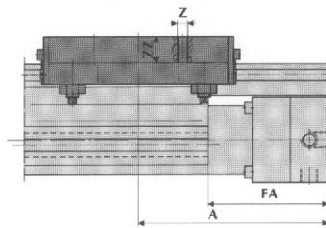
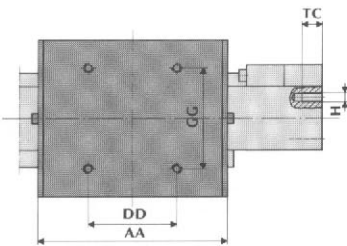
40	6,69	1,11	4900
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Overall Dimensions

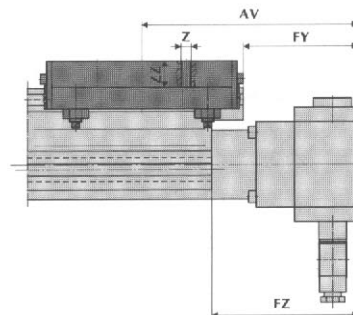
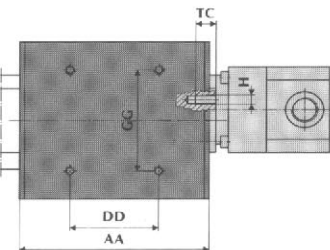


Note: These End Cap dimensions change when integrated control valves are used!

Cyl. ϕ	A	B	C	D	I	CF	EE	FB	FS
40	150	60	72	G 1/4	15	123	87	9	32



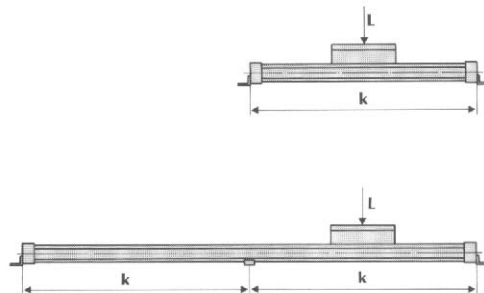
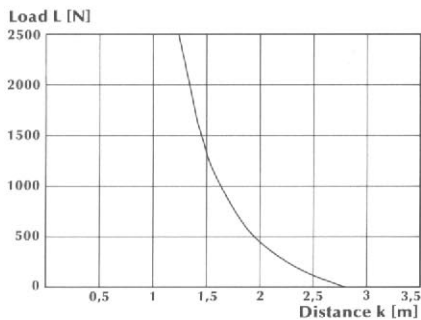
Arrangement with VO-Valves



Cyl. ϕ	H	Z	AA	AV	DD	EC	FA	FC	FD	FE	FF	FG	FH
40	M 8	M 8	150	170	70	54	95	91	56	36	132	23	43,5

Cyl. ϕ	FJ	FK	FL	FM	FN	FO	FP	FR	FY	FZ	GG	TC	ZZ
40	27	10	20	32	108	6	12	41	90	115	85	16	18

Max. unsupported length



End Cap Options

Air Connection in End Cap (see illustration of end cap page 3.8/2)

Cylinder- \varnothing

Standard and offset by 90°

End face

Ident-No.

40

4751

4752

Optional Features

Viton Seals

End cap and piston type P 130

Stainless parts*

for guide and cylinder

Lubrication

Grease lubrication for slow speed < 0,2 m/s

Ident-No.

4771

Ident-No.

3701

Ident-No.

4791

*Where stainless guide parts are used the direct load and moments are reduced by 20 %.

Accessories: Electrical VOE or pneumatic VOP control valves, proximity switches RS or IS
– Please refer to Chapter 4 – Accessories.