Active Brake

OSP
ORIGA SYSTEM PLUS

Series AB 25 to 80
for linear drive
• Series OSP-P

B

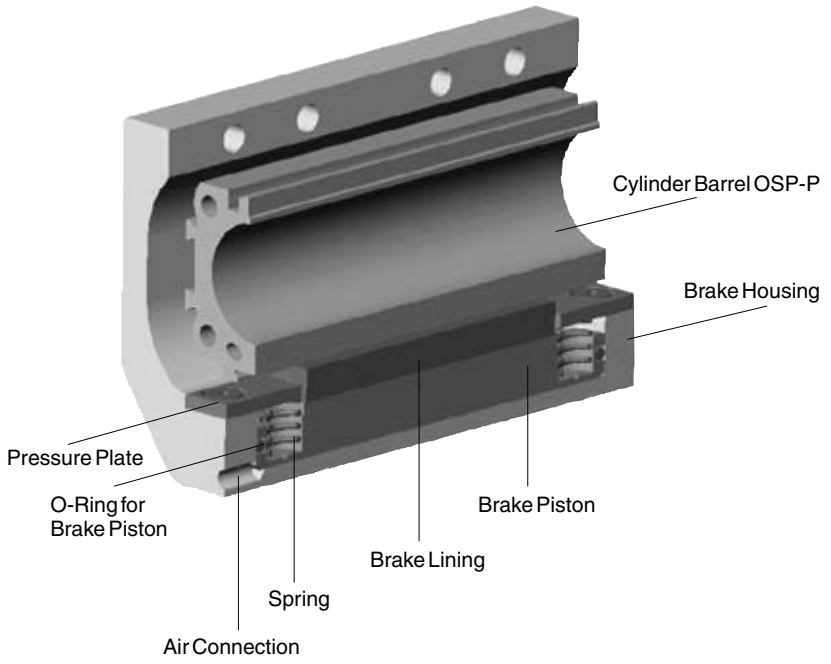
Features:

- Actuated by pressurization
- Released by spring actuation
- Completely stainless version
- Holds position, even under changing load conditions

For further technical data, please refer to the data sheets for linear drives OSP-P (page B7)

Note:
For combinations Active Brake AB + SFI-plus + Magnetic Switch contact our technical department please.

Function



Forces and Weights

Series	For linear drive	Max. braking force (N) (1	Brake pad way (mm)	Mass (kg) Linear drive with brake 0 mm stroke	increase per 100mm stroke	brake*	Order No. Active brake
AB 25	OSP-P25	350	2.5	1.0	0.197	0.35	**20806**
AB 32	OSP-P32	590	2.5	2.02	0.354	0.58	**20807**
AB 40	OSP-P40	900	2.5	2.83	0.415	0.88	**20808**
AB 50	OSP-P50	1400	2.5	5.03	0.566	1.50	**20809**
AB 63	OSP-P63	2170	3.0	9.45	0.925	3.04	**20810**
AB 80	OSP-P80	4000	3.0	18.28	1.262	5.82	**20811**

(1 – at 6 bar
both chambers pressurized with 6 bar
Braking surface dry
– oil on the braking surface will reduce the braking force

*** Please Note:**
The mass of the brake has to be added to the total moving mass when using the cushioning diagram.

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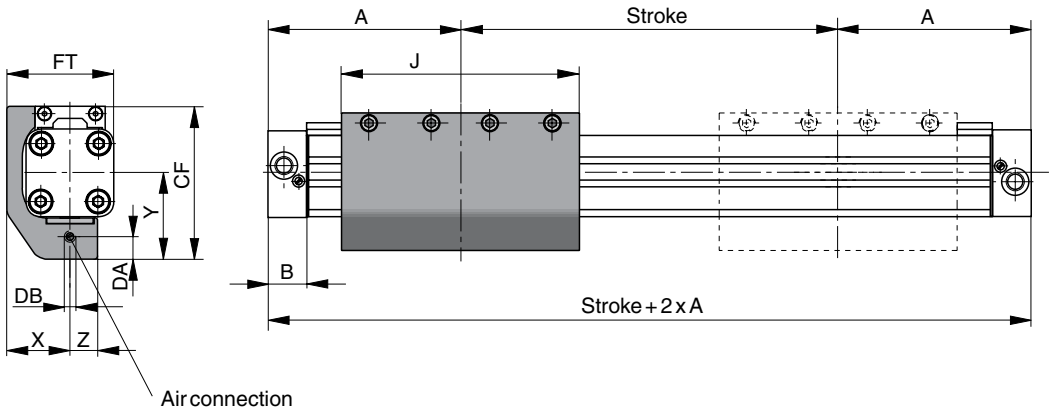
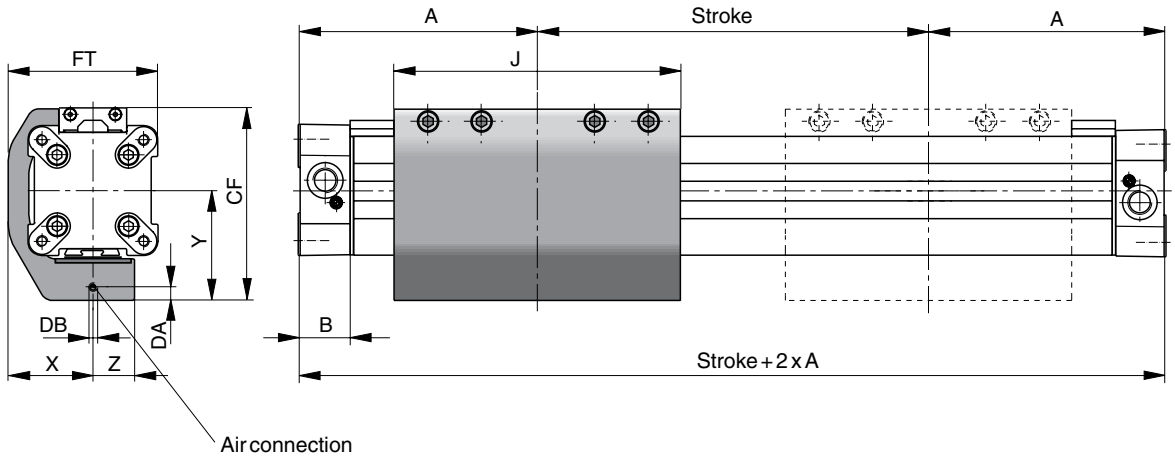
Series OSP-P25 and P32 with Active Brake AB



Series OSP-P40, P50, P63, P80 with Active Brake AB



Dimension Table (mm)

Series	A	B	J	X	Y	Z	CF	DA	DB	FT
AB 25	100	22	117	29.5	43	13	74	4	M5	50
AB 32	125	25.5	151.4	36	50	15	88	4	M5	62
AB 40	150	28	151.4	45	58	22	102	7	M5	79.5
AB 50	175	33	200	54	69.5	23	118.5	7.5	M5	97.5
AB 63	215	38	256	67	88	28	151	9	G1/8	120
AB 80	260	47	348	83	105	32	185	10	G1/8	149

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End Cap Mountings

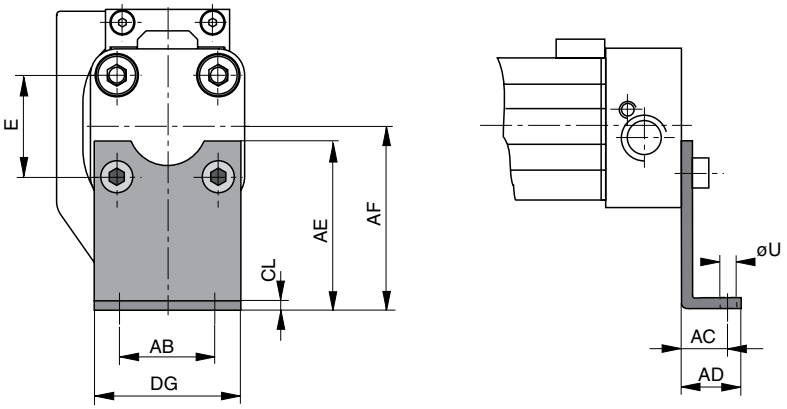
On the end-face of each cylinder end cap there are four threaded holes for mounting the cylinder. The hole layout is square, so that the mounting can be fitted to the bottom, top or either side.

B

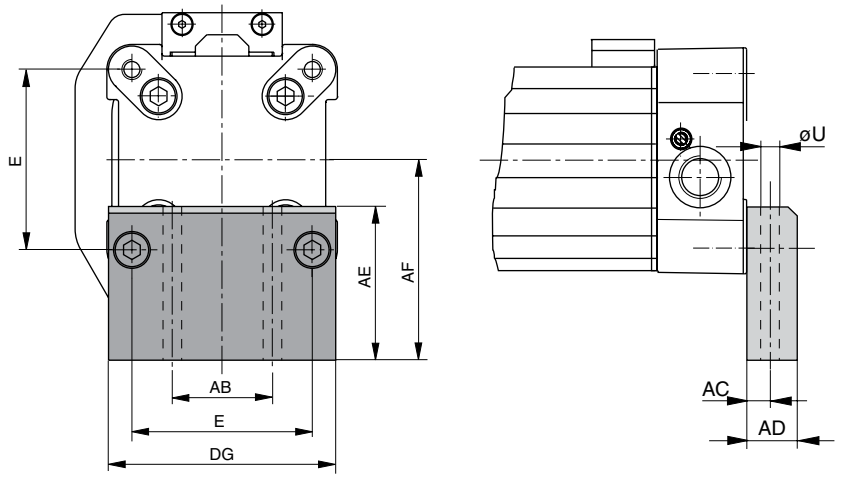
Material:
Series OSP-P25, P32:
Galvanized steel
The mountings are supplied in pairs.

Material:
Series OSP-P40,P50, P63, P80:
Anodized aluminum
The mountings are supplied in pairs.
Stainless steel version on request.

Series OSP – P25 and P32 with Active Brake AB: Type A3



Series OSP – P40 , P50, P63, P80 with Active Brake AB: Type C3



Dimension Table (mm)

Series	E	øU	AB	AC	AD	AE	AF	CL	DG	Order No. Type A3	Order No. Type C3
AB 25	27	5.8	27	16	22	45	49	2.5	39	**2060**	**–**
AB 32	36	6.6	36	18	26	42	52	3	50	**3060**	**–**
AB 40	54	9	30	12.5	24	46	60	–	68	**–**	**20339**
AB 50	70	9	40	12.5	24	54	72	–	86	**–**	**20350**
AB 63	78	11	48	15	30	76	93	–	104	**–**	**20821**
AB 80	96	14	60	17.5	35	88	110	–	130	**–**	**20822**

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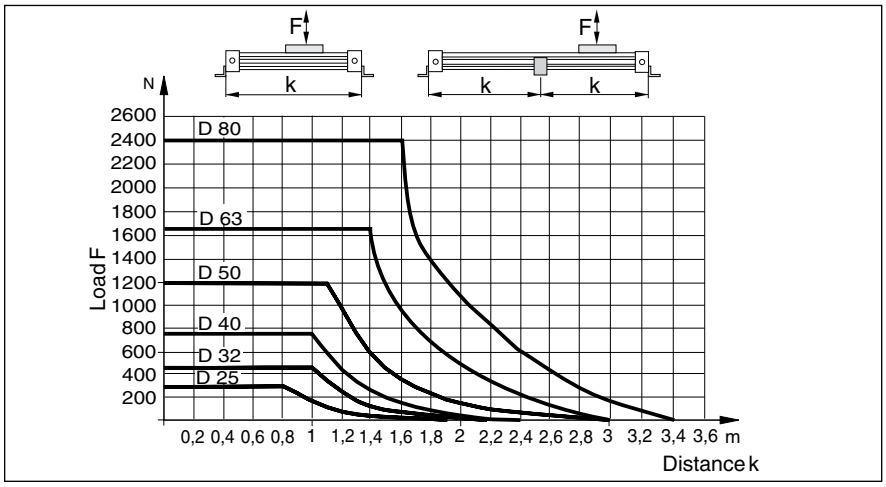
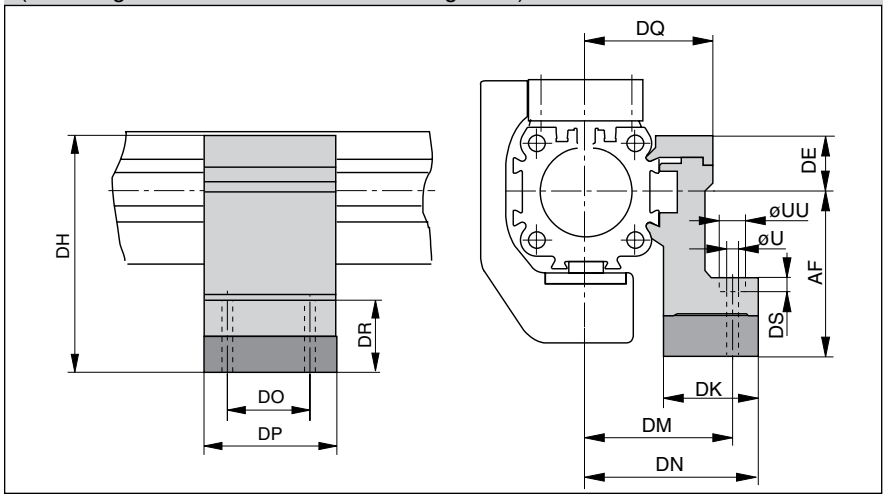


Series OSP-P25 to P80 with Active Brake AB: Type E3
(Mounting from above / below with through-bolt)



Mid-Section Support

Mid-section supports are required from a certain stroke length to prevent excessive deflection and vibration of the linear drive.

The diagrams show the maximum permissible unsupported length in relation to loading. Deflection of 0.5 mm max. between supports is permissible.

The Mid-Section supports are attached to the dovetail rails, and can take axial loads.

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Mid-Section Supports

Note to Type E3:

Mid-Section supports can only be mounted opposite of the brake housing.

Stainless steel version available on request.

Dimension Table (mm)

Series	U	UU	AF	DE	DH	DK	DM	DN	DO	DP	DQ	DR	DS	Order No. Type E3
AB 25	5.5	10	49	16	65	26	40	47.5	36	50	34.5	35	5.7	**20353**
AB 32	5.5	10	52	16	68	27	46	54.5	36	50	40.5	32	5.7	**20356**
AB 40	7	–	60	23	83	34	53	60	45	60	45	32	–	**20359**
AB 50	7	–	72	23	95	34	59	67	45	60	52	31	–	**20362**
AB 63	9	–	93	34	127	44	73	83	45	65	63	48	–	**20453**
AB 80	11	–	110	39.5	149.5	63	97	112	55	80	81	53	–	**20819**

Accessories for linear drives with Active Brakes – please order separately

Description	For detailed information, see page no.
Clevis mounting	**B21**
Adaptor profile	**B25**
T-groove profile	**B26**
Connection profile	**B27**
Magnetic switch (can **only** be mounted opposite of the brake housing)	**B102-B108**
Incremental displacement measuring system SFI-plus	**B113-B115**

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