



Hydraulic cylinder as guide pillar in founding frames

The hydraulic guide pillar is an externally hardened pillar with an integrated hydraulic cylinder. This way, loads coupled with the piston rod can be precisely guided and moved without straining the cylinder with side loads.

With the hydraulic guide pillar, two functions can be realised with one structural element while saving space at the same time: the linear movement of a hydraulic cylinder and the exact guide of a round pillar. Very high guide forces can be transmitted thanks to the hardened surface of the guide pillar.

+ Design

Single-rod cylinder with cushioning on both sides

+ Configurations

Sealing system of the cover: Servocop®
PU/NBR for hydraulic oil up to 100°C
PU+/NBR for HFC up to 60°C
FKM for temperatures up to 200°C

+ Quality of piston rod

20MnV6 chrome-plated and honed
42CrMo4V hardened, chrome-plated and honed

+ Mounting

Cylinder: Rectangular flange, cap-side,
Piston rod: Female thread

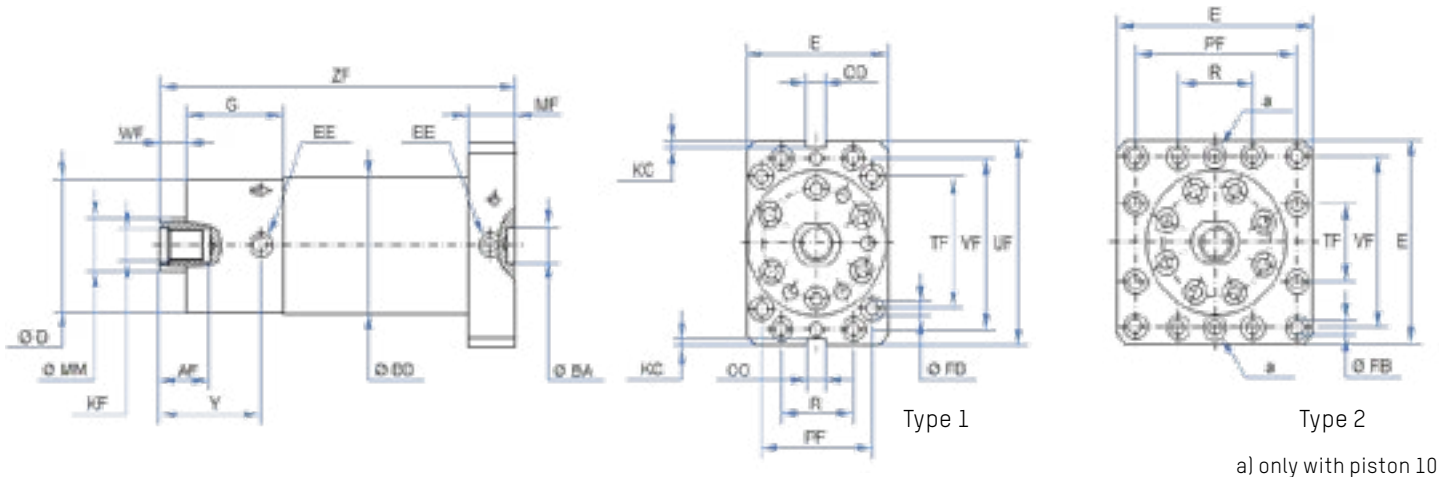
+ Hydraulic ports

in acc. with ISO 228
Connection position: cap and head side or both integrated on cap-side

+ Guide pipe

Exterior: hardened surface layer 52 HRC, optionally chrome-plated
Interior: honed





a) only with piston 10

Piston Ø	MM f7	Stroke**	KF	AF min.	WF	ZF**	G	MF	BD f9	D	BA H7	Y	PL	EE	Item
80	50	430	M 30	35	28	729	28	50	130	129,8	40	78	27	G 3/4*	55514409
100	60	250	M 36	45	30	615	114	55	155	154	40	119	32	G 3/4	40640999
100	60	400	M 42 x 1,5	60	28	835	105	70	160	155	50	110	40	G 3/4	36866999
125	80	400	M 60 x 2	55	42	949	154	70	180	179,8	50	162	33	G 1	40696999

Piston Ø	Flange	UF	E	TF	VF	R	PF	CO -0,1	KF	FB	p max.	Item
80	Typ 1	185	130	155	122	60	102	-	-	19	160 bar	55514409
100	Typ 1	225	155	150	190	64	118	25	5	21	200 bar	40640999
100	Typ 2	255	250	70	170	100	204	-	-	26	160 bar	36866999
125	Typ 2	-	255	70	210	100	210	-	-	26	160 bar	40696999

Dimensions in millimetres

* EE head side additionally in cap-side flange

** Differing stroke and installation length