

Mountings

Flange MF1 / MF2 ①



Foot brackets MS1 ②



Pivot bracket with rigid bearing AB7 ③



Swivel eye bracket MP6 ④



Clevis bracket MP2 ⑤



Ø160	P1C-4SMB	P1C-4SMF	P1C-4SMD B	P1C-4SMSB	P1C-4SMTB
Ø200	P1C-4TMB	P1C-4TMF	P1C-4TMD B	P1C-4TMSB	P1C-4TMTB
Ø250	P1C-4VMB	P1C-4VMF	P1C-4VMD B	P1C-4VMSB	P1C-4VMTB
Ø320	P1C-4WMB	P1C-4WMF	P1C-4WMD C	P1C-4WMSB	P1C-4WMTB

Clevis bracket MP4 ⑥



Swivel rod eye AP6 ⑫



Clevis AP2 ⑬



Flexo coupling PM5 ⑭



Ø160	P1C-4SMEB	P1C-4SRS	P1C-4SRC	P1C-4SRF
Ø200	P1C-4TMEB	P1C-4SRS	P1C-4SRC	P1C-4SRF
Ø250	P1C-4VMEB	P1C-4VRS	P1C-4VRC	P1C-4VRF
Ø320	P1C-4WMEB	P1C-4WRS	P1C-4WRC	P1C-4WRF

Pivot brackets AT4



Intermediate trunnion MT4 ⑫



Ø160	PD24425	refer to page 15
Ø200	PD24425	refer to page 15
Ø250	PD25763	refer to page 15
Ø320	KL9130	refer to page 15

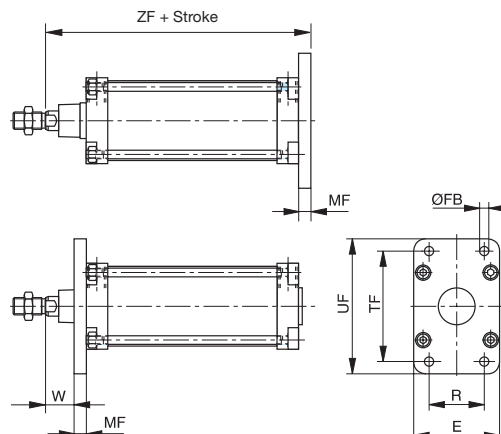
Flange MF1/MF2 ①



Intended for fixed mounting of cylinder.
Flange can be fitted to front or rear end cover of cylinder.

Materials:

Flange: Surface-treated steel
Mounting screws acc. to DIN 6912:
Zinc-plated steel 8.8
Supplied complete with mounting screws for attachment to the cylinder.



Cyl.-bore [mm]	ZF* [mm]	MF [mm]	W* [mm]	UF [mm]	E [mm]	TF [mm]	R [mm]	ØFB [mm]	Weight [kg]	Order code
Ø160	280	20	60	260	180	230	115	18	6.69	P1C-4SMB
Ø200	300	25	70	300	220	270	135	22	11.55	P1C-4TMB
Ø250	330	25	80	400	285	330	165	26	20.15	P1C-4VMB
Ø320	370	30	90	470	350	400	200	33	34.55	P1C-4WMB

*Does not apply to cylinder with piston rod extension.

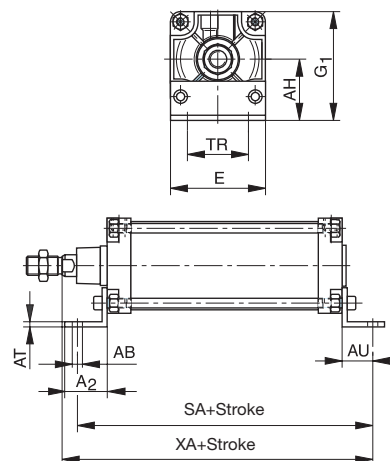
Foot brackets MS1 ②



Intended for fixed mounting of cylinder.
Foot bracket can be fitted to front or rear end cover of the cylinder.

Materials:

Flange: Surface-treated steel
Mounting screws acc. to DIN 6912:
Zinc-plated steel 8.8:
Intended for fixed mounting of the cylinder.
Foot brackets can be fitted to the front or rear end cover of the cylinder.
Supplied complete with mounting screws for attachment to the cylinder.



Cyl.-bore [mm]	E [mm]	TR [mm]	AH [mm]	G1 [mm]	AT [mm]	A2 [mm]	ØAB [mm]	SA [mm]	XA* [mm]	AU [mm]	Weight [mm]	Order code
Ø160	180	115	115	208	10	75	18,5	300	320	60	2.24	P1C-4SMF
Ø200	220	135	135	245	12	100	24	320	345	70	3.72	P1C-4TMF
Ø250	270	165	165	300	14	100	26	350	382	75	6.60	P1C-4VMF
Ø320	340	200	200	370	23	120	33	390	425	85	17.00	P1C-4WMF

*Does not apply to cylinder with piston rod extension.

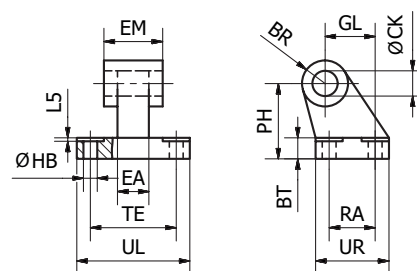
Pivot bracket with rigid bearing AB7 ③



Intended for flexible mounting of cylinder.
The pivot bracket can be combined with clevis bracket MP2.

Materials:

Bores 160 to 250 mm
Pivot bracket: Aluminium
Bush: Steel and PTFE
Bore 320 mm
Pivot bracket: Surface-treated steel



Cyl.-bore [mm]	ØCK _{H7} [mm]	ØHB [mm]	L5 [mm]	TE [mm]	UL [mm]	GL [mm]	RA [mm]	EA [mm]	EM [mm]	UR [mm]	PH [mm]	BT [mm]	BR [mm]	Weight [mm]	Order code
Ø160	30	14	4	118	156	97	88	36	90	126	115	25	31.5	2.58	P1C-4SMDB
Ø200	30	18	4	122	162	105	90	40	90	130	135	30	31.5	3.30	P1C-4TMDB
Ø250	40	22	4.5	150	200	128	110	45	110	160	165	35	40	5.70	P1C-4VMDB
Ø320	45	26	-	170	234	150	122	55	120	186	200	40	45	21.90	P1C-4WMDC

Swivel eye bracket MP6 ④

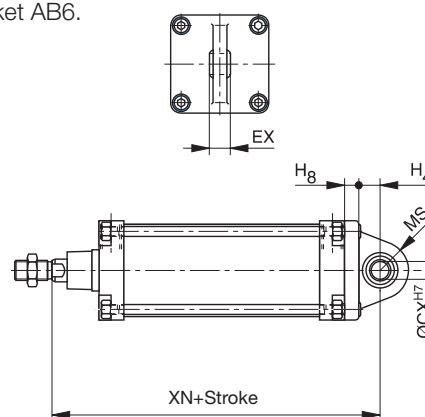


Intended for use together with clevis bracket AB6.

Materials:

Bores 160 to 250 mm
Bracket: Aluminium
Swivel bearing acc. to DIN 648K:
Hardened steel

Bore 320 mm
Pivot bracket: Surface-treated steel
Supplied complete with mounting
screws for attachment to cylinder.



Cyl.-bore [mm]	EX [mm]	XN* [mm]	H8 [mm]	H4 [mm]	MS [mm]	ØCX _{H7} [mm]	Weight [kg]	Order code Not anodised
Ø160	43	315	20	35	44	35	4.36	P1C-4SMSB
Ø200	43	335	25	35	47	35	3.72	P1C-4TMSB
Ø250	49	377	25	45	52	40	5.85	P1C-4VMSB
Ø320	60	420	30	50	63	45	30.30	P1C-4WMSB

*Does not apply to cylinder with piston rod extension.

Clevis bracket MP2 ⑤



Intended for flexible mounting of the cylinder. Clevis bracket MP4 can be combined with pivot bracket and swivel rod eye.

Materials:

Bores 160 to 250 mm

Clevis bracket: Aluminium

Pin: Surface hardened steel

Locking pin: Spring steel

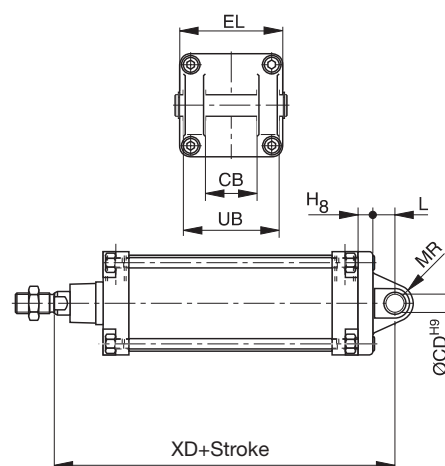
Circlips according to DIN 471: Spring steel

Mounting screws acc. to DIN 912: Zinc-plated steel 8.8

Bore 320 mm

Pivot bracket: Surface-treated steel

Supplied complete with mounting screws for attachment to the cylinder.



Cyl.-bore [mm]	EL [mm]	XD* [mm]	ØCD ^{H8} [mm]	CB ^{H14} [mm]	UB [mm]	H8 [mm]	L [mm]	MR [mm]	Weight [kg]	Order code
Ø160	180	315	30	90	170	20	35	25	2.20	P1C-4SMTB
Ø200	220	335	30	90	170	25	35	25	3.47	P1C-4TMTB
Ø250	270	377	40	110	200	25	45	40	5.80	P1C-4VMTB
Ø320	340	420	45	120	220	30	50	54	31.00	P1C-4WMTB

*Does not apply to cylinder with piston rod extension.

Clevis bracket MP4 ⑥



Intended for flexible mounting of cylinder. Clevis bracket MP4 can be combined with clevis bracket MP2.

Materials:

Bores 160 to 250 mm

Clevis bracket: Aluminium

Bush: PTFE

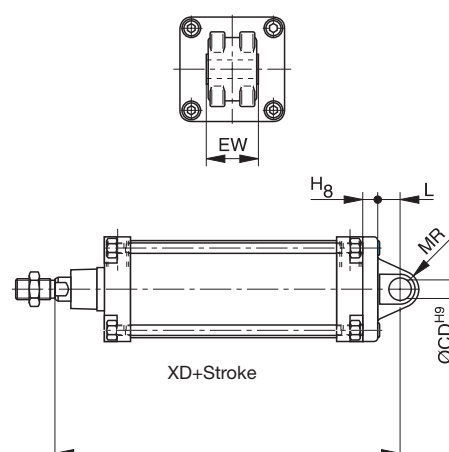
Mounting screws acc. to DIN 912:

Zinc-plated steel 8.8

Bore 320 mm

Pivot bracket: Surface-treated steel

Supplied complete with mounting screws for attachment to the cylinder.



Cyl.-bore [mm]	EW [mm]	XD* [mm]	H8 [mm]	L [mm]	MR [mm]	ØCD [mm]	Weight [kg]	Order code
Ø160	90	315	20	35	30	30	2.31	P1C-4SMEB
Ø200	90	335	25	35	31	30	2.50	P1C-4TMEB
Ø250	110	375	25	45	41	40	6.20	P1C-4VMEB
Ø320	120	420	30	50	46	45	33.00	P1C-4WMEB

*Does not apply to cylinder with piston rod extension.

Intermediate Trunnion - MT4



Available for P1F Tie-Rods versions the MT4 centre trunnion when combined with AT4 pivot brackets is intended for articulated mounting of the cylinder.

Material: Zinc plated steel

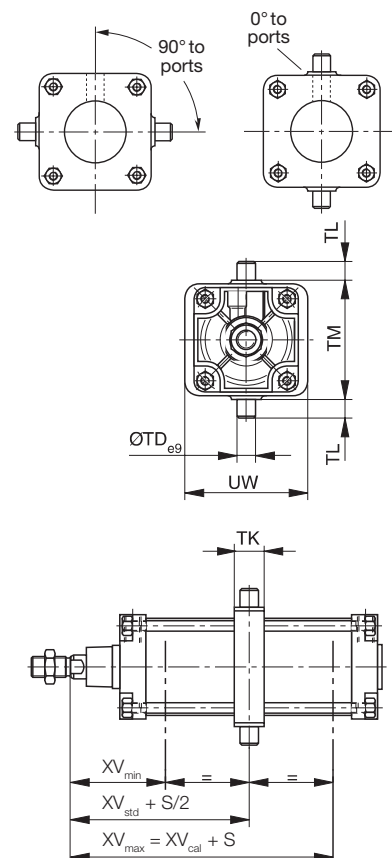
Refer to the model code page 10 for ordering cylinder with trunnion.

Important note: The trunnion is fixed at factory following XV dimension and cannot be added later on the cylinder.

Cyl.-bore [mm]	TK ^{h14} [mm]	TL ^{h14} [mm]	TM [mm]	ØTD ^{e9} [mm]	UW [mm]	XV _{min} [mm]	XV _{std} [mm]	XV _{cal} [mm]	Weight [kg]
Ø160	40	32	200	32	190	150	170	190	6.10
Ø200	40	32	250	32	240	165	185	205	8.10
Ø250	50	40	320	40	296	185	205	225	14.80
Ø320	65	50	400	50		207	230	253	16.00

Important:

If the cylinder is ordered with a piston rod protusion (WH dimension), please add this extra length to XV_{min}, XV_{std} and XV_{cal}



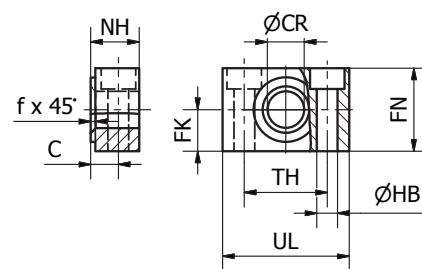
Pivot Brackets for MT Trunnion - AT4



Intended for use together with trunnion MT4.

Materials:

Pivot bracket: Surface-treated aluminium
Bush: Bronze
Supplied in pairs



According to ISO 15552

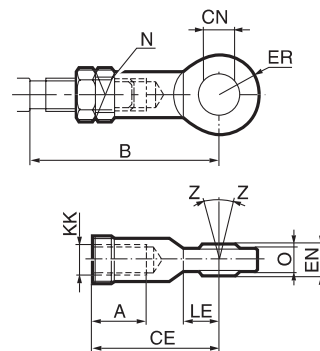
Cyl.-bore [mm]	UL [mm]	NH [mm]	TH [mm]	C [mm]	CR [mm]	HB [mm]	FN [mm]	FK [mm]	fx45° [mm]	Weight [kg]	Order code
Ø160	92	35	60	17,5	32	18	60	30	1.0	0,35	PD24425
Ø200	92	35	60	17,5	32	18	60	30	1.6	0,35	PD24425
Ø250	140	40	90	20	40	22	70	35	1.6	0,50	PD25763
Ø320	150	60	100	30	50	26	80	40	1.6	6,70	KL9130

Swivel rod eye AP6 ¹²



Swivel rod eye for articulated mounting of the cylinder

Materials: Swivel rod eye: Zinc-plated steel
Swivel bearing according to DIN 648K:
Hardened steel



According to DIN ISO 8139

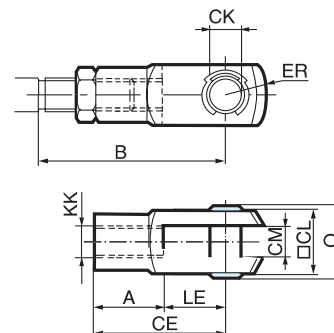
Cyl.-bore [mm]	A [mm]	B _{min} [mm]	CE [mm]	ØCN _{H9} [mm]	EN _{H12} [mm]	ER [mm]	KK [mm]	LE _{min} [mm]	N [mm]	O [mm]	Weight [kg]	Order code
Ø160	56	141	125	35	43	40,5	M36x2	41	50	28	1.6	P1C-4SRS
Ø200	56	141	125	35	43	40,5	M36x2	41	50	28	1.6	P1C-4SRS
Ø250	60	164	142	40	49	45,5	M42x2	46	55	33	2.4	P1C-4VRS
Ø320	65	191	160	50	60	58,5	M48x2	59	65	45	5.0	P1C-4WRS

Clevis AP2 ¹³



Clevis for articulated mounting of the cylinder.

Materials: Clevis, clip: Galvanized steel
Pin: Hardened steel



According to DIN ISO 8140

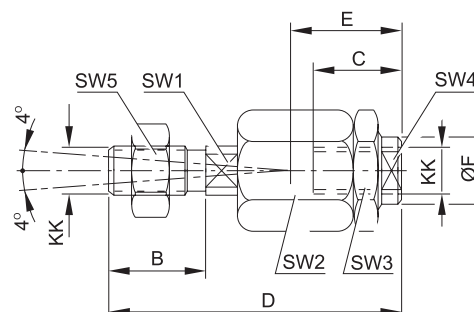
Cyl.-bore [mm]	A [mm]	B _{min} [mm]	CE [mm]	CK _{H11/e9} [mm]	CL [mm]	CM [mm]	ER [mm]	KK [mm]	LE [mm]	O [mm]	Weight [kg]	Order code
Ø160	72	144	144	35	70	35	-	M36x2	72	-	2.93	P1C-4SRC
Ø200	72	144	144	35	70	35	-	M36x2	72	-	2.93	P1C-4SRC
Ø250	84	168	168	40	85	40	-	M42x2	84	-	5.64	P1C-4VRC
Ø320	96	192	192	50	96	50	-	M48x2	96	-	7.86	P1C-4WRC

Flexo coupling PM5 ¹⁴



Flexo coupling for articulated mounting of piston rod.
Flexo fitting is intended to take up axial angle errors within a range of $\pm 4^\circ$.

Materials:
Flexo coupling, nut: Zinc-plated steel
Supplied complete with galvanized adjustment nut.



Cyl.-bore [mm]	KK [mm]	B [mm]	C [mm]	D [mm]	E [mm]	ØF [mm]	SW1 [mm]	SW2 [mm]	SW3 [mm]	SW4 [mm]	SW5 [mm]	Weight [kg]	Order code
Ø160	M36x2	72	50	241	110	56	36	75	75	50	55	5.1	P1C-4SRF
Ø200	M36x2	72	50	241	110	56	36	75	75	50	55	5.1	P1C-4SRF
Ø250	M42x2	82	88	271	120	64	36	85	85	60	65	9.2	P1C-4VRF
Ø320	M48x2	82	88	271	120	64	42	85	85	60	75	9.4	P1C-4WRF