

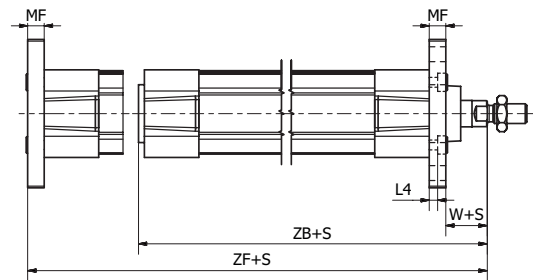
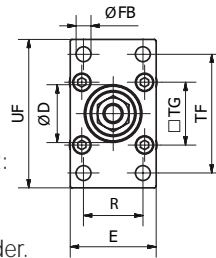
## Flange - MF1 / MF2\*\*



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.



### According to ISO 15552

Cyl.-bore	D <sub>(H11)</sub>	E	ØFB <sub>(H13)</sub>	L4	MF	R	TF	TG	UF	W*	ZB*	ZF*	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	30	45	7	5.0	10	32	64	32.5	80	16	123.5	130	0.21	<b>P1C-4KMB</b>
Ø40	35	52	9	5.0	10	36	72	38.0	90	20	138.5	145	0.27	<b>P1C-4LMB</b>
Ø50	40	65	9	6.5	12	45	90	46.5	110	25	146.5	155	0.53	<b>P1C-4MMB</b>
Ø63	45	75	9	6.5	12	50	100	56.5	120	25	161.5	170	0.66	<b>P1C-4NMB</b>
Ø80	45	95	12	9.0	16	63	126	72.0	150	30	177.5	190	1.45	<b>P1C-4PMB</b>
Ø100	55	115	14	9.0	16	75	150	89.0	170	35	192.5	205	1.60	<b>P1C-4QMB</b>
Ø125	60	140	16	10.5	20	90	180	110.0	205	45	230.5	245	3.34	<b>P1C-4RMB</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods, see page 38.

\*\* only on rear end cap Twin Rods cylinders.

## Foot Bracket - MS1

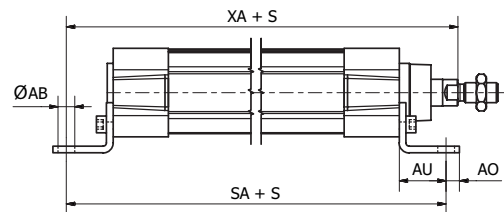
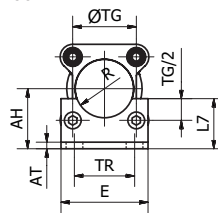


Intended for fixed mounting of cylinder.  
Foot bracket can be fitted to front or rear end cover of the cylinder.

### Materials:

Flange: Surface-treated steel  
Mounting screws acc. to DIN 6912:  
Zinc-plated steel 8.8:

Supplied complete with mounting screws for attachment to the cylinder.



### According to ISO 15552

Cyl.-bore	ØAB <sub>(H14)</sub>	AH <sub>(JS15)</sub>	AO	AT	AU	E	L7	R	SA*	TG <sub>(JS14)</sub>	TR	XA*	Weight **	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	<b>P1F-R/Q</b>
Ø32	7	32	11/8	4	24	45/47	30/27	15	142	32.5	32	144	0.077	<b>P1C-4KMF P1F-4KMHF</b>
Ø40	10	36	8/10	4	28	52/53	30	17.5	161	38.0	36	163	0.084	<b>P1C-4LMF P1F-4LMHF</b>
Ø50	10	45	15/10	5	32	65	36/38	20	170	46.5	45	175/172	0.181	<b>P1C-4MMF P1F-4MMHF</b>
Ø63	10	50	13/10	5	32	75	35/40	22.5	185	56.5	50	190/189	0.204	<b>P1C-4NMF P1F-4NMHF</b>
Ø80	12	63	14/10	6	41	95	47/51	22.5	210	72.0	63	215/207	0.400	<b>P1C-4PMF P1F-4PMHF</b>
Ø100	14.5	71	16/15	6	41	115	53/51	27.5	220	89.0	75	230/217	0.539	<b>P1C-4QMF P1F-4QMHF</b>
Ø125	16.5	90	25	8	45	140	70	30	250	110.0	90	270	1.103	<b>P1C-4RMF -</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods, see page 38.

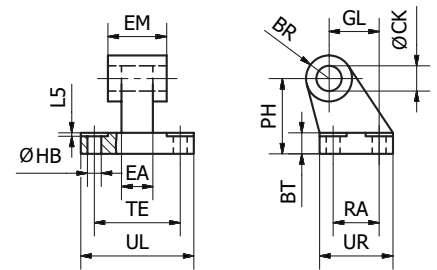
\*\* per bracket

### Pivot Bracket with Rigid Bearing - AB7



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

**Materials:**  
Pivot bracket: Aluminium (no surface treatment)  
Bush: Steel and PTFE



#### According to ISO 15552

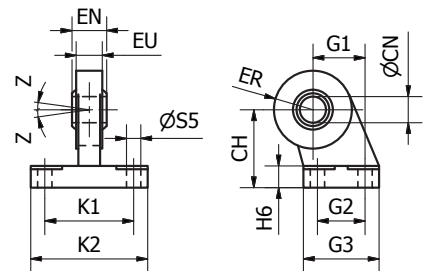
Cyl.-bore	CK	HB	L5	TE	UL	GL	RA	EA	EM	UR	PH	BT	BR	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	10	6.6	1.6	38	51	21	18	10	26	31	32	8	10.0	0.05	<b>P1C-4KMDB</b>
Ø40	12	6.6	1.6	41	54	24	22	15	28	35	36	10	11.0	0.09	<b>P1C-4LMDB</b>
Ø50	12	9.0	1.6	50	65	33	30	16	32	45	45	12	13.0	0.16	<b>P1C-4MMDB</b>
Ø63	16	9.0	1.6	52	67	37	35	16	40	50	50	14	15.0	0.20	<b>P1C-4NMDB</b>
Ø80	16	11.0	2.5	66	86	47	40	20	50	60	63	14	15.0	0.32	<b>P1C-4PMDB</b>
Ø100	20	11.0	2.5	76	96	55	50	20	60	70	71	17	19.0	0.53	<b>P1C-4QMDB</b>
Ø125	25	14.0	3.2	94	124	70	60	30	70	90	90	20	22.5	1.01	<b>P1C-4RMDB</b>

### Pivot Bracket with Swivel Bearing - CS7



Intended for use together with clevis bracket AB6.

**Materials:**  
Pivot bracket: Steel  
(Surface-treated steel)  
Swivel bearing acc. to DIN 648K:  
Hardened steel



#### According to ISO 15552

Cyl.-bore	CN	S5	K1	K2	EU	G1	G2	EN	G3	CH	H6	ER	Z	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	10	6.6	38	51	10.5	21	18	14	31	32	10	15	4°	0.18	<b>P1C-4KMAF</b>
Ø40	12	6.6	41	54	12.0	24	22	16	35	36	10	18	4°	0.27	<b>P1C-4LMAF</b>
Ø50	16	9.0	50	65	15.0	33	30	21	45	45	12	20	4°	0.46	<b>P1C-4MMAF</b>
Ø63	16	9.0	52	67	15.0	37	35	21	50	50	12	23	4°	0.55	<b>P1C-4NMAF</b>
Ø80	20	11.0	66	86	18.0	47	40	25	60	63	14	27	4°	0.97	<b>P1C-4PMAF</b>
Ø100	20	11.0	76	96	18.0	55	50	25	70	71	15	30	4°	1.33	<b>P1C-4QMAF</b>
Ø125	30	13.5	94	124	25.0	70	60	37	90	90	20	40	4°	3.00	<b>P1C-4RMAF</b>

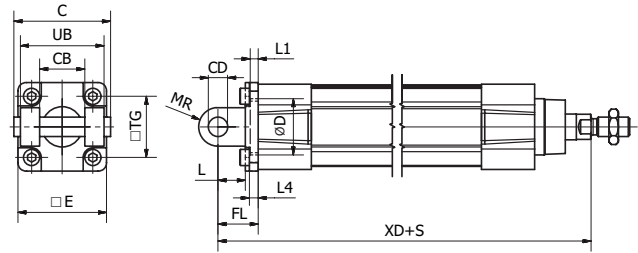
## Clevis Bracket - MP2



Intended for flexible mounting of cylinder.  
Can be combined with clevis bracket MP4 and pivot bracket with rigid bearing AB7.

### Materials:

Clevis bracket: Aluminium (no surface treatment)  
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



Supplied complete with mounting screws for attachment to the cylinder.

### According to ISO 15552

Cyl.-bore	C	E	UB	CB	TG	FL	L1	L	L4	D	CD	MR	XD*	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	53	45	45	26	32.5	22	5	13	5.5	30	10	10	142	0.08	<b>P1C-4KMTB</b>
Ø40	60	52	52	28	38	25	5	16	5.5	35	12	12	160	0.10	<b>P1C-4LMTB</b>
Ø50	68	65	60	32	46.5	27	5	16	6.5	40	12	12	170	0.18	<b>P1C-4MMTB</b>
Ø63	78	75	70	40	56.5	32	5	21	6.5	45	16	16	190	0.24	<b>P1C-4NMTB</b>
Ø80	98	95	90	50	72	36	5	22	10	45	16	16	210	0.49	<b>P1C-4PMTB</b>
Ø100	118	115	110	60	89	41	5	27	10	55	20	20	230	0.73	<b>P1C-4QMTB</b>
Ø125	139	140	130	70	110	50	7	30	10	60	25	25	275	1.37	<b>P1C-4RMTB</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods, see page 38.

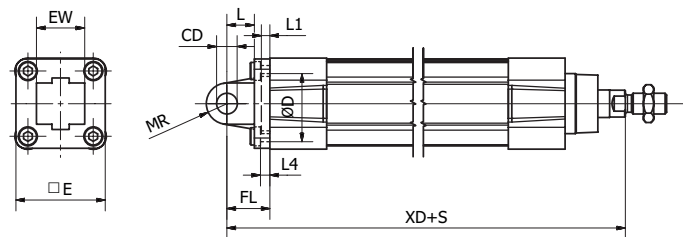
## Clevis Bracket - MP4



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

### Materials:

Clevis bracket: Aluminium (no surface treatment)  
Bush: Steel and PTFE  
Mounting screws acc. to DIN 912: Zinc-plated steel 8.8



Supplied complete with mounting screws for attachment to the cylinder.

### According to ISO 15552

Cyl.-bore	CD	D	E	EW	FL	L	L1	L4	MR	TG	XD*	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	10	30	47	26	22	12	6.5	6	10.5	32.5	142	0.08	<b>P1C-4KMEB</b>
Ø40	12	35	52	28	25	16	5	5.5	12	38	160	0.11	<b>P1C-4LMEB</b>
Ø50	12	40	65	32	27	16	5	6.5	12	46.5	170	0.18	<b>P1C-4MMEB</b>
Ø63	16	45	78	40	32	21	5	6.5	16	56.5	190	0.28	<b>P1C-4NMEB</b>
Ø80	16	45	95	50	36	22	5	10	16	72	210	0.52	<b>P1C-4PMEB</b>
Ø100	20	55	115	60	41	27	5	10	20	89	230	0.79	<b>P1C-4QMEB</b>
Ø125	25	60	140	70	50	30	7	10	25	110	275	1.46	<b>P1C-4RMEB</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods, see page 38.

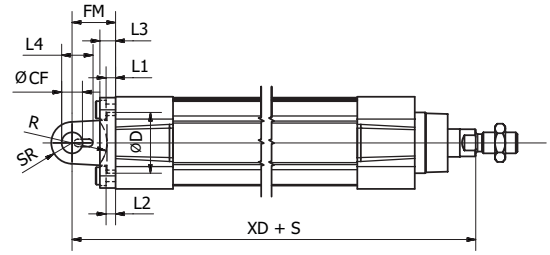
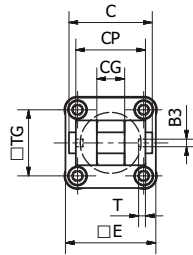
### Clevis Bracket - AB6



Intended for flexible mounting of cylinder. Clevis bracket AB6 can be combined with pivot brackets MP6 and CS7 or swivel rod eye AP6.

**Materials:**

- Clevis bracket: Aluminium (no surface treatment)
- 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
- Supplied complete with mounting screws for attachment to the cylinder.



**According to ISO 15552**

Cyl.-bore	B3	C	CF	CG	CP	D	E	FM	I2	T	R	L1	L4	L3	SR	TG	XD*	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	3.3	41	10	14	34	30	45	22	5.5	3	17	5	16.5	9	10	32.5	142	0.04	<b>P1C-4KMCB</b>
Ø40	4.3	48	12	16	40	35	52	25	5.5	4	20	5	18	9	12	38	160	0.07	<b>P1C-4LMCB</b>
Ø50	4.3	54	16	21	45	40	65	27	6.5	4	22	5	22	11	14	46.5	170	0.11	<b>P1C-4MMCB</b>
Ø63	4.3	60	16	21	51	45	75	32	6.5	4	25	5	22	11	18	56.5	190	0.19	<b>P1C-4NMCB</b>
Ø80	4.3	75	20	25	65	45	95	36	10.0	4	30	5	26	14	20	72	210	0.38	<b>P1C-4PMCB</b>
Ø100	6.3	85	20	25	75	55	115	41	10.0	4	32	5	26	14	22	89	230	0.61	<b>P1C-4QMCB</b>
Ø125	6.3	110	30	37	97	60	140	50	10.0	6	42	7	39	20	25	110	275	1.10	<b>P1C-4RMCB</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods, see page 38.

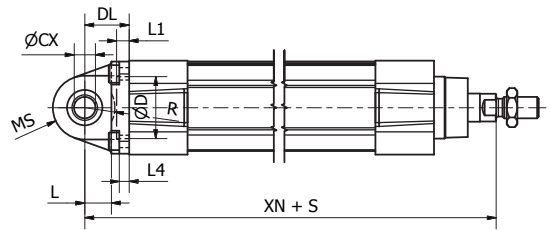
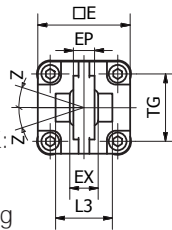
### Swivel Eye Bracket - MP6



Intended for use together with clevis bracket AB6.

**Materials:**

- Bracket: Aluminium (no surface treatment)
- Swivel bearing acc. to DIN 648K: Hardened steel
- Supplied complete with mounting screws for attachment to cylinder.



**According to ISO 15552**

Cyl.-bore	CX	D	DL	E	EP	EX	L	L1	L3	L4	MS	R	TG	XN*	Z	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[kg]	
Ø32	10	30	22	45	10.5	14	12	7	-	5.5	16	-	32.5	142	4°	0.09	<b>P1C-4KMSB</b>
Ø40	12	35	25	52	12	16	15	7	-	5.5	18	-	38	160	4°	0.13	<b>P1C-4LMSB</b>
Ø50	16	40	27	65	15	21	15	7	51	6.5	21	19	46.5	170	4°	0.24	<b>P1C-4MMSB</b>
Ø63	16	45	32	75	15	21	20	7	-	6.5	23	-	56.5	190	4°	0.29	<b>P1C-4NMSB</b>
Ø80	20	45	36	95	18	25	20	9	74	10	28	24	72	210	4°	0.59	<b>P1C-4PMSB</b>
Ø100	20	55	41	115	18	25	25	9	140	10	30	32	89	230	4°	0.78	<b>P1C-4QMSB</b>
Ø125	30	60	50	140	25	37	30	9	-	10	40	-	110	275	4°	1.38	<b>P1C-4RMSB</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods, see page 38.

### Intermediate Trunnion - MT4

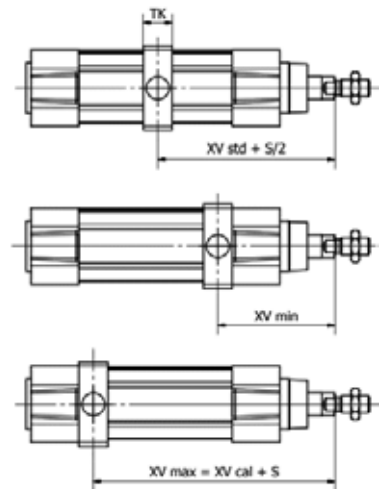
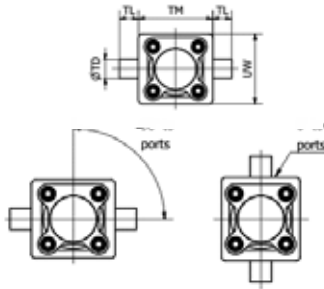


Available for P1F Profile and Tie-Rods versions the MT4 centre trunnion when combined with AT4 pivot brackets is intended for articulated mounting of the cylinder. The trunnion is free so that it can be fixed afterward when the cylinder is at the right place on the machine.

**Material:** Zinc plated steel

Refer to the model code page 16 for ordering cylinder with trunnion.

**Important note:** the rear end cylinder cover needs to be removed for adding the trunnion when ordered as a single kit.



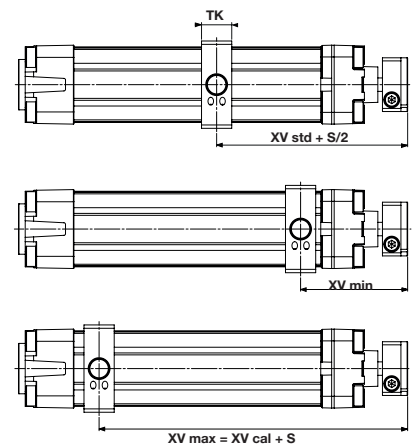
According to ISO 15552					P1F-S/K				P1F-T/N				P1F-L	P1F-H	T1	Order Code		
Cyl. bore	TL <sub>h14</sub>	TM <sub>h14</sub>	ØTD <sub>e9</sub>	XV <sup>*</sup> <sub>std</sub>	TK	UW	XV <sup>*</sup> <sub>min</sub>	XV <sup>*</sup> <sub>cal</sub>	TK	UW	XV <sup>*</sup> <sub>min</sub>	XV <sup>*</sup> <sub>cal</sub>	Adder to XV		max.	Order Code		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Smooth Profile	Tie-Rods	
Ø32	12	50	12	73	18	52	65	81	15	46	63	83	32	48	1,5	P1F-4KMY	P1F-4KMYT	
Ø40	16	63	16	83	20	60	74	91	20	59	74	91	30	55		3	P1F-4LMY	P1F-4LMYT
Ø50	16	75	16	90	20	71	82	98	20	69	82	98	29	70			P1F-4MMY	P1F-4MMYT
Ø63	20	90	20	98	26	84	91	104	25	84	90	105	39	70			P1F-4NMY	P1F-4NMYT
Ø80	20	110	20	110	26	105	100	120	25	102	99	121	45	90		P1F-4PMY	P1F-4PMYT	
Ø100	25	132	25	120	32	129	113	127	30	125	112	128	57	92	8	P1F-4QMY	P1F-4QMYT	
Ø125	25	160	25	145	33	154	134	156	33	155	134	156	56	122		P1F-4RMY	P1F-4RMYT	

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods.  
Add to XV<sub>std</sub>, XV<sub>min</sub>, XV<sub>cal</sub> the „adder to XV“.

### Twin Rods Cylinders

According to ISO 15552					P1F-R/Q				Order Code
Cyl. bore	TL <sub>h14</sub>	TM <sub>h14</sub>	ØTD <sub>e9</sub>	XV <sup>*</sup> <sub>std</sub>	TK	UW	XV <sup>*</sup> <sub>min</sub>	XV <sup>*</sup> <sub>cal</sub>	Order Code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Smooth Profile
Ø32	12	50	12	73	18	52	62	81	P1F-4KMY
Ø40	16	63	16	83	20	60	71	97	P1F-4LMY
Ø50	16	75	16	87	20	71	79	100	P1F-4MMY
Ø63	20	90	20	97	26	84	84	113	P1F-4NMY
Ø80	20	110	20	102	26	105	91	118	P1F-4PMY
Ø100	25	132	25	107	32	129	95	124	P1F-4QMY

\*Does not apply to cylinders with piston rod extension.



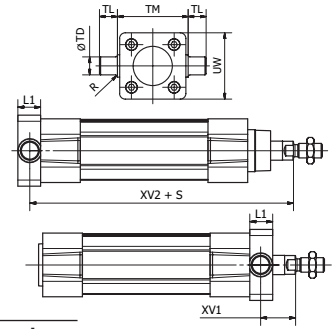
**Flange Trunnion - MT5 / MT6\*\***



Intended for articulated mounting of cylinder. This trunnion can be flange mounted on the front or rear end cover of the cylinder.

**Materials:**

Trunnion: Zinc-plated steel  
 Screws: Zinc-plated steel 8.8  
 Delivered complete with mounting screws for attachment to the cylinder.



**According to ISO 15552**

Cyl.-bore	L1	R	TD <sub>(e9)</sub>	TL <sub>(h14)</sub>	TM <sub>(h14)</sub>	UW	XV1*	XV2*	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	14	1.0	12	12	50	46	19.5	127.0	0.14	<b>P1D-4KMYF</b>
Ø40	19	1.6	16	16	63	59	21.0	144.5	0.39	<b>P1D-4LMYF</b>
Ø50	19	1.6	16	16	75	69	28.0	152.5	0.51	<b>P1D-4MMYF</b>
Ø63	24	1.6	20	20	90	84	25.5	170.0	1.04	<b>P1D-4NMYF</b>
Ø80	24	1.6	20	20	110	102	34.5	186.0	1.57	<b>P1D-4PMYF</b>
Ø100	29	2.0	25	25	132	125	37.0	203.5	3.00	<b>P1D-4QMYF</b>

\*Does not apply to cylinders with piston rod extension, lock units and Twin Rods.  
 To fit a flange mounted trunnion at the front end cover of a cylinder with lock unit, the piston rod must be extended by L1 length. This is in order to provide the same WH dimensions as for the P1F base cylinder.  
 \*\*only on rear end cap for Twin Rods cylinders.

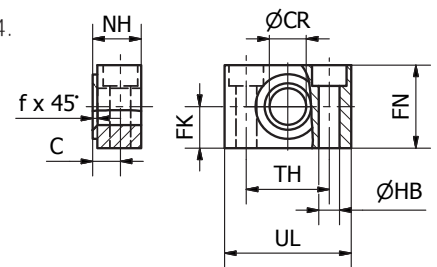
**Pivot Brackets for MT Trunnion - AT4**



Intended for use together with trunnion MT4.

**Materials:**

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



**According to ISO 15552**

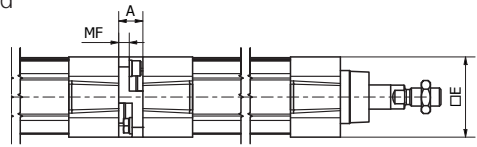
Cyl.-bore	UL	NH	TH	C	CR	HB	FN	FK	fx45°	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	46	18	32	10.5	12	6.6	30	15	1.0	0.08	<b>9301054261</b>
Ø40	55	21	36	12.0	16	9	36	18	1.6	0.14	<b>9301054262</b>
Ø50	55	21	36	12.0	16	9	36	18	1.6	0.14	<b>9301054262</b>
Ø63	65	23	42	13.0	20	11	40	20	1.6	0.21	<b>9301054264</b>
Ø80	65	23	42	13.0	20	11	40	20	1.6	0.21	<b>9301054264</b>
Ø100	75	28.5	50	16.0	25	14	50	25	2.0	0.36	<b>9301054266</b>
Ø125	75	28.5	50	16.0	25	14	50	25	2.0	0.36	<b>9301054266</b>

### 3 and 4 Position Flange - JP1

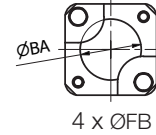


Mounting kit for back to back mounted cylinders, 3 and 4 position cylinders.

**Materials:**  
Mounting: Aluminium  
(no surface treatment)  
Mounting screws: Zinc-plated steel 8.8



Cyl.-bore	A	ØBA	E	ØFB	MF	Weight	Order code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	16	30	47	6.5	7	0.04	<b>P1E-6KB0</b>
Ø40	16	35.5	53	6.5	7	0.07	<b>P1E-6LB0</b>
Ø50	20	40.5	64.5	8.5	6	0.08	<b>P1E-6MB0</b>
Ø63	20	45.5	75	8.5	6	0.16	<b>P1E-6NB0</b>
Ø80	25	45.5	94	10.5	8	0.30	<b>P1E-6PB0</b>
Ø100	25	55.5	111	10.5	8	0.54	<b>P1E-6QB0</b>

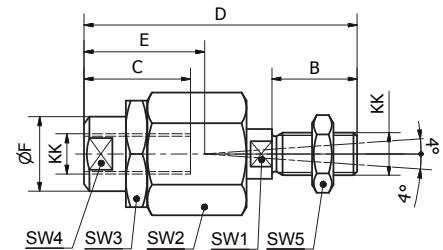


### Flexo Coupling - PM5



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	KK	B	C	D	E	ØF	SW1	SW2	SW3	SW4	SW5	Weight	Order code
[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
Ø32	M10x1.25	20	23	70	31	21	12	30	30	19	17	0.23	<b>P1C-4KRF</b>
Ø40	M12x1.25	24	30	77	31	21	12	30	30	19	19	0.23	<b>P1C-4LRF</b>
Ø50	M16x1.5	32	32	108	45	33.5	19	41	41	30	24	0.65	<b>P1C-4MRF</b>
Ø63	M16x1.5	32	32	108	45	33.5	19	41	41	30	24	0.65	<b>P1C-4MRF</b>
Ø80	M20x1.5	40	42	122	56	33.5	19	41	41	30	30	0.71	<b>P1C-4PRF</b>
Ø100	M20x1.5	40	42	122	56	33.5	19	41	41	30	30	0.71	<b>P1C-4PRF</b>
Ø125	M27x2	54	48	147	51	39	24	55	55	32	41	1.60	<b>P1C-4RRF</b>

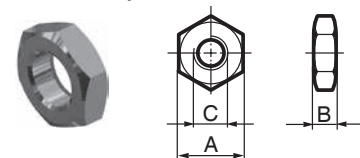
### Piston Rod Nuts - MR9

P1F cylinders are delivered with a zinc plated steel piston rod nut, in stainless steel for options V & D only.

According to DIN 439 B

Cyl.-bore	A	B	C	Weight	Order code	
					Zinc plated steel	Stainless steel
[mm]	[mm]	[mm]	[mm]	[kg]		
Ø32	17	5.0	M10 x 1.25	0.007	<b>P14-4KRPZ</b>	<b>P14-4KRPS</b>
Ø40	19	6.0	M12 x 1.25	0.010	<b>P14-4LRPZ</b>	<b>P14-4LRPS</b>
Ø50	24	8.0	M16 x 1.5	0.021	<b>P14-4MRPZ</b>	<b>P14-4MRPS</b>
Ø63	24	8.0	M16 x 1.5	0.021	<b>P14-4MRPZ</b>	<b>P14-4MRPS</b>
Ø80	30	10.0	M20 x 1.5	0.040	<b>P14-4PRPZ</b>	<b>P14-4PRPS</b>
Ø100	30	10.0	M20 x 1.5	0.040	<b>P14-4PRPZ</b>	<b>P14-4PRPS</b>
Ø125	41	13.5	M27 x 2.0	0.100	<b>P14-4RRPZ</b>	<b>P14-4RRPS</b>

\*Weight per item



**Material:** Zinc-plated steel  
**Material:** Stainless steel A2



### Swivel Rod Eye - AP6

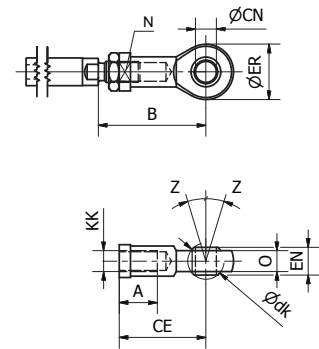


Swivel rod eye for articulated mounting of the cylinder. Swivel rod eye can be combined with clevis bracket AB6.

**Materials:**

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

Swivel rod eye: Stainless steel  
Swivel bearing according to DIN 648K: Hardened steel



**According to DIN ISO 8139**

Cyl.-bore [mm]	A [mm]	B <sub>min</sub> [mm]	B <sub>max</sub> [mm]	CE [mm]	CN [mm]	EN [mm]	ER [mm]	KK	LE dk	N [mm]	O [mm]	Z	Weight	Order Code	
														Galvanised steel	Stainless steel
Ø32	15	48.0	55	43	10	14	29	M10x1.25	19.0	17	10.5	13°	0.07	<b>P1C-4KRS</b>	<b>P1S-4JRT</b>
Ø40	18	56.0	62	50	12	16	33	M12x1.25	22.2	19	12.0	13°	0.11	<b>P1C-4LRS</b>	<b>P1S-4LRT</b>
Ø50	24	72.0	80	64	16	21	43	M16x1.5	28.5	22	15.0	15°	0.21	<b>P1C-4MRS</b>	<b>P1S-4MRT</b>
Ø63	24	72.0	80	64	16	21	43	M16x1.5	28.5	22	15.0	15°	0.21	<b>P1C-4MRS</b>	<b>P1S-4MRT</b>
Ø80	30	87.0	97	77	20	25	51	M20x1.5	34.9	30	18.0	15°	0.38	<b>P1C-4PRS</b>	<b>P1S-4PRT</b>
Ø100	30	87.0	97	77	20	25	51	M20x1.5	34.9	30	18.0	15°	0.38	<b>P1C-4PRS</b>	<b>P1S-4PRT</b>
Ø125	45	123.5	137	110	30	37	70	M27x2	50.8	41	25.0	15°	1.15	<b>P1C-4RRS</b>	<b>P1S-4RRT</b>

### Clevis - AP2

Galvanised Steel



Stainless Steel

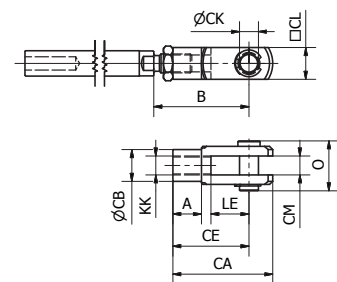


Clevis for articulated mounting of the cylinder.

**Materials:**

Clevis, clip: Zinc-plated steel  
Pin: Hardened steel

Clevis, clip: Stainless steel  
Pin: Stainless steel



**According to DIN ISO 8140**

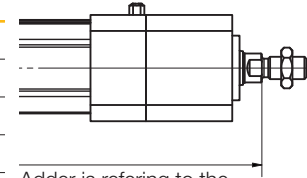
Cyl.-bore [mm]	A [mm]	B <sub>min</sub> [mm]	B <sub>max</sub> [mm]	CA [mm]	CB [mm]	CE [mm]	CK [mm]	CL [mm]	CM [mm]	KK	LE [mm]	O [mm]	Weight [kg]	Order code	
														Galvanised steel	Stainless steel
Ø32	15	45	52	52	18	40	10	20	10	M10x1.25	20	25	0.09	<b>P1C-4KRC</b>	<b>P1S-4JRD</b>
Ø40	18	54	60	62	20	48	12	24	12	M12x1.25	24	31	0.15	<b>P1C-4LRC</b>	<b>P1S-4LRD</b>
Ø50	24	72	80	83	26	64	16	32	16	M16x1.5	32	40	0.34	<b>P1C-4MRC</b>	<b>P1S-4MRD</b>
Ø63	24	72	80	83	26	64	16	32	16	M16x1.5	32	40	0.34	<b>P1C-4MRC</b>	<b>P1S-4MRD</b>
Ø80	30	90	100	105	34	80	20	40	20	M20x1.5	40	50	0.67	<b>P1C-4PRC</b>	<b>P1S-4PRD</b>
Ø100	30	90	100	105	34	80	20	40	20	M20x1.5	40	50	0.67	<b>P1C-4PRC</b>	<b>P1S-4PRD</b>
Ø125	40	123.5	137	148	48	110	30	55	30	M27x2.0	54	65	1.80	<b>P1C-4RRC</b>	<b>P1S-4RRD</b>



For some versions of P1F cylinders mounting dimensions previously shown and marked \* require adjustment. P1F cylinders with rod locks have extended piston rods so some mounting dimensions will differ from those for standard product. For rod lock versions then an additional length shown in the tables below should be added.

**Adder to the dimension for P1F-L with rod lock**

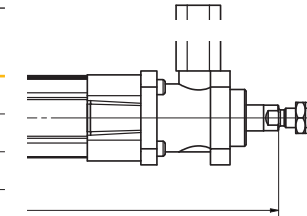
Cyl.-bore [mm]	MF1/MF2		MS1		MP6	MP2	MP4	AB6	MT5/MT6	
	ZB	ZF	SA	XA	XN	XD	XD	XD	XV1	XV2
Ø32					+32 [mm]					
Ø40					+30 [mm]					
Ø50					+29 [mm]					
Ø63					+39 [mm]					
Ø80					+45 [mm]					
Ø100					+57 [mm]					
Ø125					+56 [mm]					



Adder is referring to the piston rod flat

**Adder to the dimension for P1F-H with rod lock**

Cyl.-bore [mm]	MF1/MF2		MS1		MP6	MP2	MP4	AB6	MT5/MT6	
	ZB	ZF	SA	XA	XN	XD	XD	XD	XV1	XV2
Ø32					+48 [mm]					
Ø40					+55 [mm]					
Ø50					+70 [mm]					
Ø63					+70 [mm]					
Ø80					+90 [mm]					
Ø100					+92 [mm]					
Ø125					+122 [mm]					

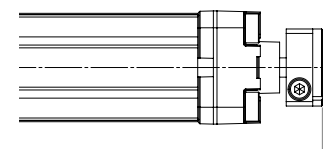


Adder is referring to the piston rod flat

For P1F cylinders with a piston rod extension then an addition length equal to the piston rod extension should be added. P1F cylinders with twin rods also have some mounting dimensions that differ from those for standard product. For these versions on bores 50 – 100 mm then the length shown in the table below should be subtracted.

**Adder to the dimension for P1F-R with twin-rods**

Cyl.-bore [mm]	MF1/MF2		MS1		MP6	MP2	MP4	AB6	MT5/ MT6	
	ZB	ZF	SA	XA	XN	XD	XD	XD	XV1	XV2
Ø32					+0 [mm]					
Ø40					+0 [mm]					
Ø50					-3 [mm]					
Ø63					-1 [mm]					
Ø80					-8 [mm]					
Ø100					-13 [mm]					



Adder is referring to the front face of the flange