

End Fittings

PRODUCT CATALOG

2023 - 2024



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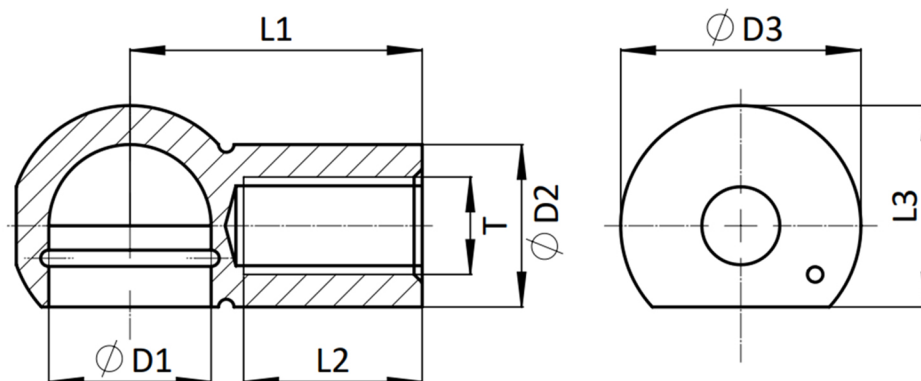
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BALL SOCKETS

DIN 71805 Form B



PART NO.	ØD1	T	ØD2	ØD3	L1	L2	L3
MA818M4	8,1	M4	8	12,8	18	9	10,8
MA820M4	8,1	M4	8	12,8	20	10	10,8
MA822M5	8,1	M5	8	12,8	22	11	10,8
MA822M6	8,1	M6	8	12,8	22	11	10,8
MA1018M6	10,1	M6	10	14,8	18	9,5	12,3
MA1018M8	10,1	M8	10	14,8	18	9,5	12,3
MA1019M6	10,1	M6	10	14,8	19	10	12,3
MA1019M8	10,1	M8	10	14,8	19	10	12,3
MA1020M6	10,1	M6	10	14,8	20	10	12,3
MA1020M8	10,1	M8	10	14,8	20	10	12,3
MA1021M6	10,1	M6	10	14,8	21	11	12,3
MA1022M6	10,1	M6	10	14,8	22	11	12,3
MA1022M8	10,1	M8	10	14,8	22	11	12,3
MA1025M6	10,1	M6	10	14,8	25	12	12,3
MA1025M8	10,1	M8	10	14,8	25	12	12,3
MA1318M8	13,1	M8	13	19,3	18	12	15,8
MA1319M8	13,1	M8	13	19,3	19	12	15,8
MA1320M8	13,1	M8	13	19,3	20	12	15,8
MA1322M8	13,1	M8	13	19,3	22	12	15,8
MA1325M6	13,1	M6	13	19,3	25	12	15,8
MA1325M8	13,1	M8	13	19,3	25	12	15,8
MA1325M10	13,1	M10	13	19,3	25	12	15,8
MA1330M6	13,1	M6	13	19,3	30	14	15,8
MA1330M8	13,1	M8	13	19,3	30	14	15,8
MA1330M10	13,1	M10	13	19,3	30	14	15,8
MA1625M10	16,1	M10	16	24	25	12	20
MA1630M10	16,1	M10	16	24	30	14	20
MA1630M8	16,1	M8	16	24	30	14	20
MA1635M8	16,1	M8	16	24	35	16	20
MA1635M10	16,1	M10	16	24	35	16	20
MA1945M14	19,1	M14	22	30	45	22	25
MA1945M16	19,1	M16	22	30	45	21,5	25

Can be assembled to DIN 71803 Form A / B / C ball studs, suitable sealing caps and circlips (According to DIN 71802 Form AS / BS / CS)

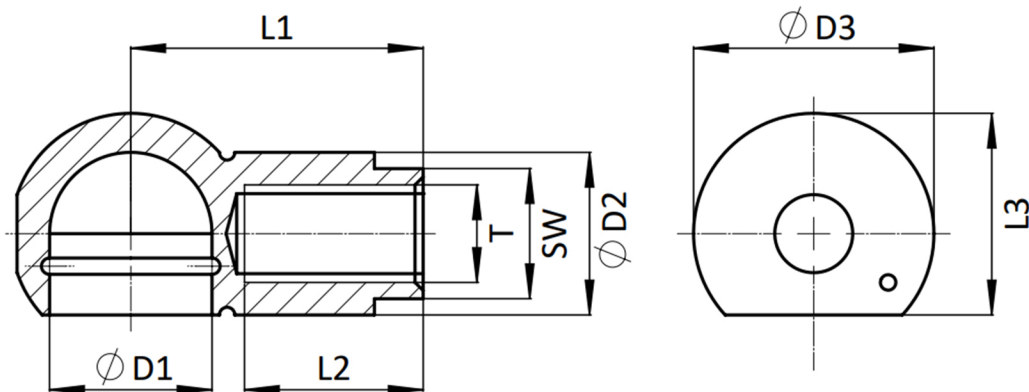
Material: Steel (1.0718 - 11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

BALL SOCKETS WITH SPANNER FLAT

DIN 71805 Form B



PART NO.	ØD1	T	ØD2	ØD3	L1	L2	L3	SW
MAS818M46	8,1	M4	8	12,8	18	9	10,8	6
MAS820M46	8,1	M4	8	12,8	20	10	10,8	6
MAS822M56	8,1	M5	8	12,8	22	11	10,8	6
MAS822M66	8,1	M6	8	12,8	22	11	10,8	6
MAS1018M68	10,1	M6	10	14,8	18	9,5	12,3	8
MAS1018M89	10,1	M8	10	14,8	18	9,5	12,3	9
MAS1019M68	10,1	M6	10	14,8	19	10	12,3	8
MAS1019M89	10,1	M8	10	14,8	19	10	12,3	9
MAS1020M68	10,1	M6	10	14,8	20	10	12,3	8
MAS1020M89	10,1	M8	10	14,8	20	10	12,3	9
MAS1021M68	10,1	M6	10	14,8	21	11	12,3	8
MAS1022M68	10,1	M6	10	14,8	22	11	12,3	8
MAS1022M89	10,1	M8	10	14,8	22	11	12,3	9
MAS1025M68	10,1	M6	10	14,8	25	12	12,3	8
MAS1025M89	10,1	M8	10	14,8	25	12	12,3	9
MAS1325M611	13,1	M6	13	19,3	25	12	15,8	11
MAS1325M811	13,1	M8	13	19,3	25	12	15,8	11
MAS1325M1011	13,1	M10	13	19,3	25	12	15,8	11
MAS1330M611	13,1	M6	13	19,3	30	14	15,8	11
MAS1330M811	13,1	M8	13	19,3	30	14	15,8	11
MAS1330M1011	13,1	M10	13	19,3	30	14	15,8	11
MAS1625M1014	16,1	M10	16	24	25	12	20	14
MAS1630M1014	16,1	M10	16	24	30	14	20	14
MAS1630M814	16,1	M8	16	24	30	14	20	14
MAS1635M814	16,1	M8	16	24	35	16	20	14
MAS1635M1014	16,1	M10	16	24	35	16	20	14
MAS1945M1419	19,1	M14	22	30	45	22	25	19
MAS1945M1619	19,1	M16	22	30	45	22	25	19

Can be assembled to DIN 71803 Form A / B / C ball studs, suitable sealing caps and circlips (According to DIN 71802 Form AS / BS / CS)

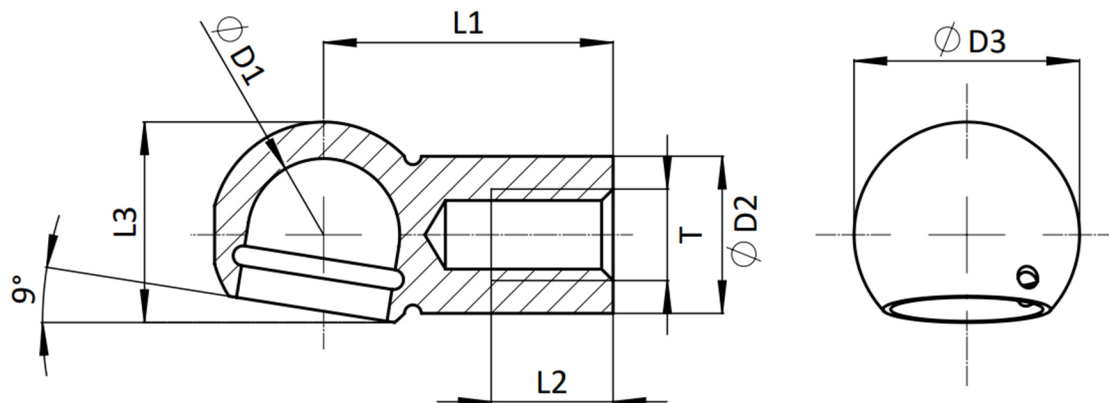
Material: Steel (1.0718 - 1.1SMnPb30-; 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

9° ANGLE BALL SOCKETS

DIN 71805 Form B



PART NO.	ØD1	T	ØD2	ØD3	L1	L2	L3
MAN818M4	8,1	M4	8	12,8	18	9	10,8
MAN820M4	8,1	M4	8	12,8	20	10	10,8
MAN822M5	8,1	M5	8	12,8	22	11	10,8
MAN822M6	8,1	M6	8	12,8	22	11	10,8
MAN1018M6	10,1	M6	10	14,8	18	9,5	12,3
MAN1018M8	10,1	M8	10	14,8	18	9,5	12,3
MAN1019M6	10,1	M6	10	14,8	19	10	12,3
MAN1019M8	10,1	M8	10	14,8	19	10	12,3
MAN1020M6	10,1	M6	10	14,8	20	10	12,3
MAN1020M8	10,1	M8	10	14,8	20	10	12,3
MAN1021M6	10,1	M6	10	14,8	21	11	12,3
MAN1022M6	10,1	M6	10	14,8	22	11	12,3
MAN1022M8	10,1	M8	10	14,8	22	11	12,3
MAN1025M6	10,1	M6	10	14,8	25	12	12,3
MAN1025M8	10,1	M8	10	14,8	25	12	12,3
MAN1325M6	13,1	M6	13	19,3	25	12	15,8
MAN1325M8	13,1	M8	13	19,3	25	12	15,8
MAN1325M10	13,1	M10	13	19,3	25	12	15,8
MAN1330M6	13,1	M6	13	19,3	30	14	15,8
MAN1330M8	13,1	M8	13	19,3	30	14	15,8
MAN1330M10	13,1	M10	13	19,3	30	14	15,8
MAN1625M10	16,1	M10	16	24	25	12	20
MAN1630M10	16,1	M10	16	24	30	14	20
MAN1630M8	16,1	M8	16	24	30	14	20
MAN1635M8	16,1	M8	16	24	35	16	20
MAN1635M10	16,1	M10	16	24	35	16	20
MAN1945M14	19,1	M14	22	30	45	22	25
MAN1945M16	19,1	M16	22	30	45	22	25

Can be assembled to DIN 71803 Form A / B / C ball studs, suitable sealing caps and circlips (According to DIN 71802 Form AS / BS / CS)

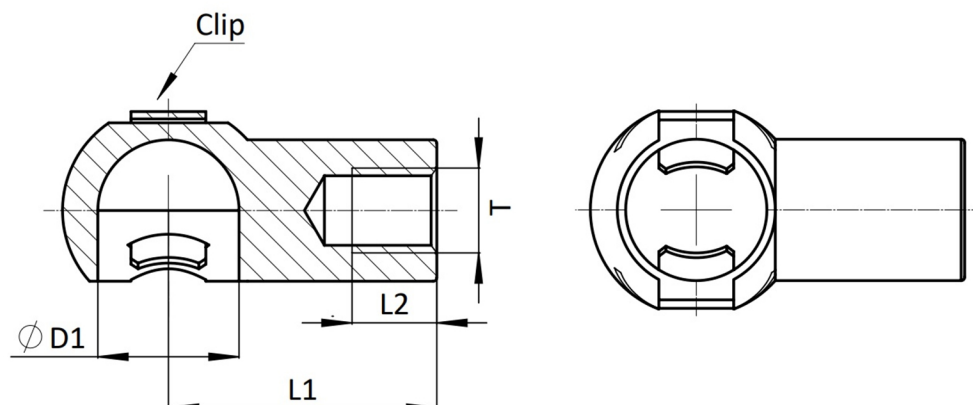
Material: Steel (1.0718 - 11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

BALL SOCKETS

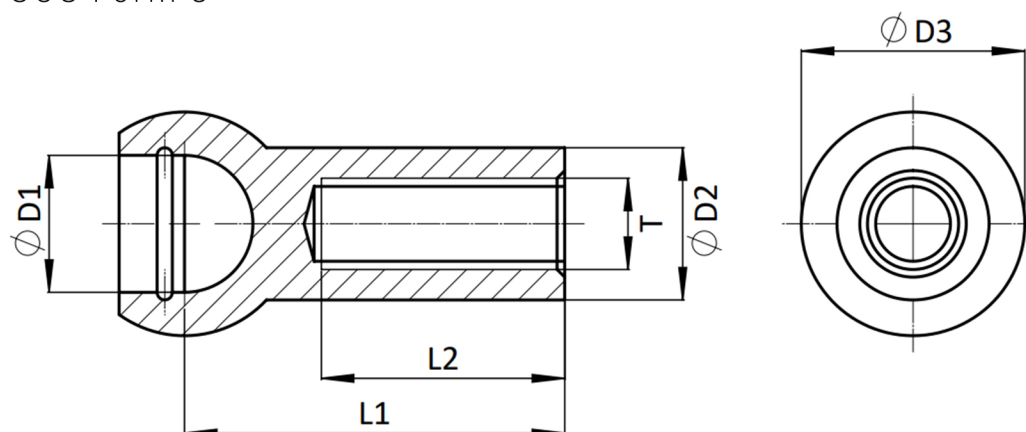
WITH SLIT AND CLIP



PART NO.	ØD1	L1	T	L2
MAP1018M6	10	18	M6	9,5
MAP1019M6	10	19	M6	10,1
MAP1019M8	10	19	M8	10,1
MAP1025M6	10	25	M6	12
MAP1322M6	13	22	M6	11
MAP1322M8	13	22	M8	11
MAP1325M6	13	25	M6	11
MAP1325M8	13	25	M8	11
MAP1330M6	13	30	M6	14
MAP1330M8	13	30	M8	14

AXIAL BALL SOCKETS

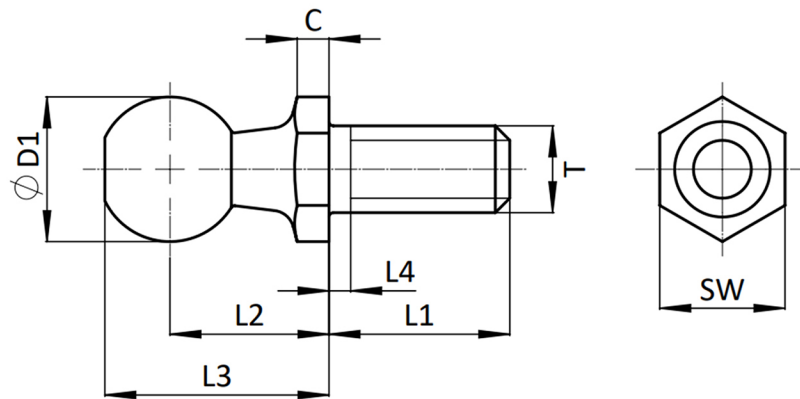
DIN 71805 Form C



PART NO.	ØD1	T	ØD2	ØD3	L1	L2
MAX822M5	8,1	M5	8	12,8	22	11
MAX1025M6	10,1	M6	10	14,8	25	12
MAX1330M8	13,1	M8	13	19,3	30	14
MAX1635M10	16,1	M10	16	24	35	16
MAX1635M12	16,1	M12	16	24	35	16
MAX1945M14	19,1	M14	22	30	45	21,5
MAX1945M16	19,1	M16	22	30	45	22

BALL STUDS

DIN 71803 Form C (Hexagonal)



PART NO.	ØD1	T	L1	L2	L3	SW	C	L4
MB89M5128	8	M5	10	9	13	8	2	1,2
MB89M6128	8	M6	10	9	13	8	2	1,2
MB1011M61510	10	M6	13	11	16	10	2,2	1,2
MB1011M61510	10	M6	17	11	16	10	2,2	1,2
MB1011M81510	10	M8	13	11	16	10	2,2	1,2
MB1012M81713	10	M8	13	12,5	17	13	2,2	1,2
MB1012M81713	10	M8	17	12,5	17	13	2,2	1,2
MB1012M81713	10	M8	18	12,5	17	13	2,2	1,2
MB1012M81713	10	M8	20	12,5	17	13	2,2	1,2
MB1012M81713	10	M8	25	12,5	17	13	2,2	1,2
MB1313M81813	13	M8	17	13	19	13	2,4	1,5
MB1313M101813	13	M10	17	13	19	13	2,4	1,5
MB1313M81813	13	M8	20	13	19	13	2,4	1,5
MB1313M101813	13	M10	20	13	19	13	2,4	1,5
MB1313M81813	13	M8	25	13	19	13	2,4	1,5
MB1313M101813	13	M10	25	13	19	13	2,4	1,5
MB1313M81813	13	M8	30	13	19	13	2,4	1,5
MB1616M102317	16	M10	20	16	23	17	2,7	2,5
MB1616M122317	16	M12	20	16	23	17	2,7	2,5
MB1920M142819	19	M14x1,5	28	20	29	19	3	5
MB1920M142819	19	M14	28	20	29	19	3	5
MB1920M162819	19	M16	28	20	29	19	3	5

Can be assembled to suitable DIN 71805 Form A / B ball sockets (According to DIN 71802 Form C / CS)

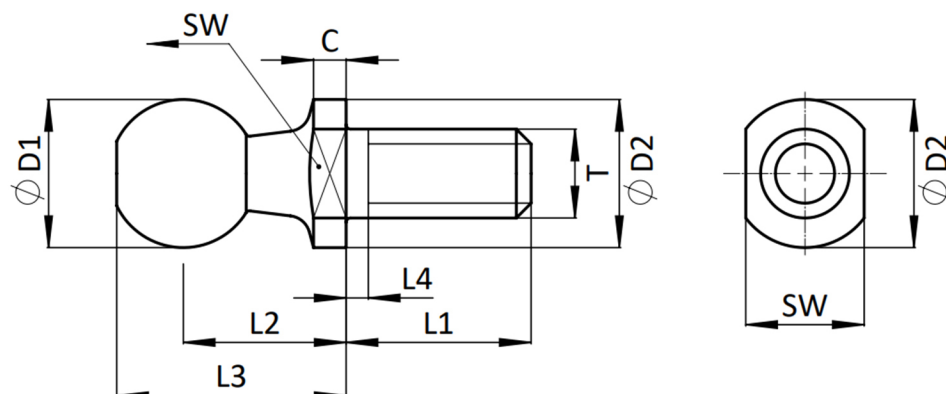
Material: Steel (1.0718 - 11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

BALL STUDS

DIN 71803 Form C (Spanner Flat)



PART NO.	ØD1	T	L1	L2	L3	ØD2	SW	C	L4
MBS89M5127	8	M5	10	9	13	8	7	2	1,2
MBS1011M6158	10	M6	13	11	16	10	8	2	1,2
MBS1012M81711	10	M8	15	13	17	13	11	2,4	1,2
MBS1313M81811	13	M8	17	13	19	13	11	2,4	2
MBS1616M102313	16	M10	20	16	23	16	13	2,7	3
MBS1616M142313	16	M14	20	16	23	16	13	2,7	3
MBS1920M142816	19	M14	28	20	29	19	16	3	5
MBS1920M162816	19	M16	28	20	29	19	16	3	5

Can be assembled to suitable DIN 71805 Form A / B ball sockets (According to DIN 71802 Form C / CS)

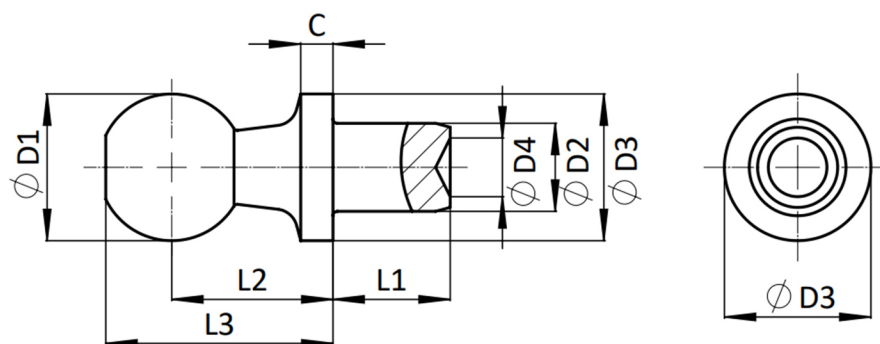
Material: Steel (1.0718 - 11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

BALL STUDS

DIN 71803 Form B (Rivet Pin)



PART NO.	ØD1	ØD2	L1	L2	L3	ØD3	ØD4	C
MBR8954	8	5	4	9	13	8	4	2
MBR8957	8	5	8	9	13	8	4	2
MBR81163	8	6	4	11	15	8	5	2
MBR81164	8	6	5	11	15	8	5	2
MBR101163	10	6	4	11	16	10	5	2,2
MBR101263	10	6	4	12,5	17	10	5	2,2
MBR101164	10	6	5	11	16	10	5	2,2
MBR101264	10	6	5	12,5	17	10	5	2,2
MBR101168	10	6	8	11	16	10	5	2,2
MBR131384	13	8	5	13	19	13	6	2,4
MBR131385	13	8	5	13	19	13	6	2,4
MBR1313810	13	8	10	13	19	13	6	2,4
MBR1616106	16	10	6	16	23	16	8	2,7
MBR16161013	16	10	13	16	23	16	8	2,7
MBR19201412	19	14	12	20	29	19	10	3
MBR19201418	19	14	18	20	29	19	10	3

Can be assembled to suitable DIN 71805 Form A / B ball sockets (According to DIN 71802 Form B / BS)

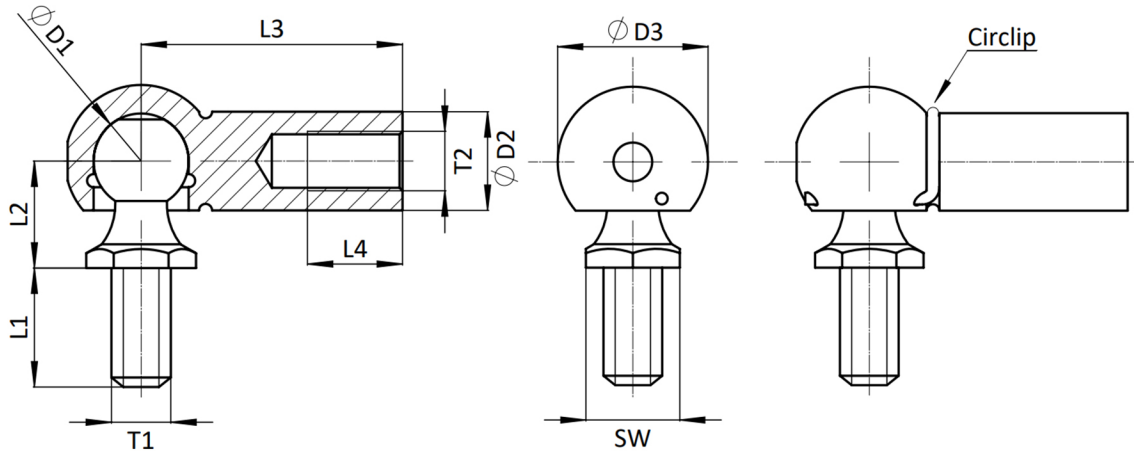
Material: Steel (1.0718 - 1.1SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

BALL JOINTS

DIN 71802 Form CS (With Hex Ball Stud + Circlip)



PART NO.	ØD1	T1	T2	L1	L2	L3	L4	ØD2	SW	ØD3
MA818M5B9M5108	8,1	M5	M5	10,2	9	18	9	8	8	12,8
MA818M5B9M6108	8,1	M6	M5	10,2	9	18	9	8	8	12,8
MA822M5B9M5108	8,1	M5	M5	10,2	9	22	10	8	8	12,8
MA822M5B9M6108	8,1	M6	M5	10,2	9	22	10	8	8	12,8
MA822M6B9M5108	8,1	M5	M6	10,2	9	22	10	8	8	12,8
MA1022M6B11M61210	10,1	M6	M6	12,5	11	18	9,5	10	10	14,8
MA1018M6B12M81313	10,1	M8	M6	13	12,5	18	9,5	10	13	14,8
MA1018M8B12M81313	10,1	M8	M8	13	12,5	18	9,5	10	13	14,8
MA1019M6B11M61210	10,1	M6	M6	12,5	11	19	10	10	10	14,8
MA1019M6B12M81313	10,1	M8	M6	13	12,5	19	10	10	13	14,8
MA1019M8B12M81313	10,1	M8	M8	13	12,5	19	10	10	13	14,8
MA1020M6B12M61210	10,1	M6	M6	12,5	11	20	10	10	10	14,8
MA1020M6B12M81313	10,1	M8	M6	13	12,5	20	10	10	13	14,8
MA1020M8B12M81313	10,1	M8	M8	13	12,5	20	10	10	13	14,8
MA1021M6B11M61210	10,1	M6	M6	12,5	11	21	11	10	10	14,8
MA1021M6B12M81313	10,1	M8	M6	13	12,5	21	11	10	13	14,8
MA1022M6B11M61210	10,1	M6	M6	12,5	11	22	11	10	10	14,8
MA1022M6B12M81313	10,1	M8	M6	13	12,5	22	11	10	13	14,8
MA1022M8B12M81313	10,1	M8	M8	13	12,5	22	11	10	13	14,8
MA1025M6B11M61210	10,1	M6	M6	12,5	11	25	12	10	10	14,8
MA1025M6B12M81313	10,1	M8	M6	13	12,5	25	12	10	13	14,8
MA1025M8B12M81313	10,1	M8	M8	13	12,5	25	12	10	13	14,8
MA1320M8B13M81613	13,1	M8	M8	16,5	13	20	10	13	13	19,3
MA1322M8B13M81613	13,1	M8	M8	16,5	13	22	11	13	13	19,3
MA1325M8B13M81613	13,1	M8	M8	16,5	13	25	12	13	13	19,3
MA1325M8B13M101613	13,1	M10	M8	16,5	13	25	12	13	13	19,3
MA1330M8B13M81613	13,1	M8	M8	16,5	13	30	14	13	13	19,3
MA1330M8B13M101613	13,1	M10	M8	16,5	13	30	14	13	13	19,3
MA1635M10B16M102017	16,1	M10	M10	20	16	35	15,5	16	17	24
MA1635M10B16M122017	16,1	M12	M10	20	16	35	15,5	16	17	24
MA1635M12B16M122017	16,1	M12	M12	20	16	35	15,5	16	17	24
MA1945M14B20M142819	19,1	M14	M14	28	20	45	21,5	22	19	30
MA1945M14B20M162819	19,1	M16	M14	28	20	45	21,5	22	19	30
MA1945M16B20M162819	19,1	M16	M16	28	20	45	21,5	22	19	30

Other options according to DIN 71802 are available:

Form C : Ball stud with spanner flat (DIN 71803 Form C)

Form B : Ball stud with rivet pin (DIN 71803 Form B)

Form BS : Ball stud with rivet pin (DIN 71803 Form B) + Circlip

Can be assembled with DIN 71803 suitable sealing caps and nuts

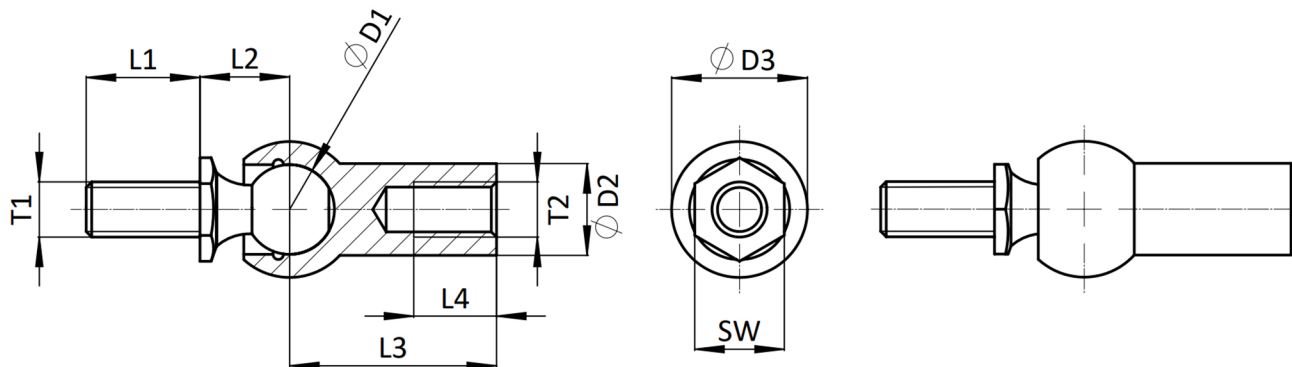
Material: Steel (1.0718 - 1.1SMnPb30-, 1.1186 - C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

AXIAL JOINTS

DIN 71802 (With Hex Ball Stud)



PART NO.	ØD1	T1	T2	L1	L2	L3	L4	ØD2	SW	ØD3
MAX822M6B9M5108	8,1	M5	M6	10	9	22	10	8,3	8	12,8
MAX1025M6B11M61210	10,1	M6	M6	12,5	11	25	11,5	10,3	10	14,8
MAX1025M8B11M61210	10,1	M6	M8	12,5	11	25	11,5	10,3	10	14,8
MAX1025M8B12M61313	10,1	M6	M8	13	12,5	25	11,5	10,3	13	14,8
MAX1025M8B12M61613	10,1	M6	M8	16,5	12,5	25	11,5	10,3	13	14,8
MAX1025M8B12M62013	10,1	M6	M8	20	12,5	25	11,5	10,3	13	14,8
MAX1330M8B13M81613	13,1	M8	M8	16,5	13	30	14	13,3	13	19,8
MAX1330M8B13M82013	13,1	M8	M8	20	13	30	14	13,3	13	19,8
MAX1330M8B13M82513	13,1	M8	M8	25	13	30	14	13,3	13	19,8
MAX1635M10B16M102017	16,1	M10	M10	20	16	35	15,5	16,3	17	23,8
MAX1635M12B16M102017	16,1	M10	M12	20	16	35	15,5	16,3	17	23,8
MAX1635M12B16M122017	16,1	M12	M12	20	16	35	15,5	16,3	17	23,8
MAX1945M14B20M142819	19,1	M14	M14	28	20	45	21,5	22,3	19	29,8
MAX1945M16B20M142819	19,1	M14	M16	28	20	45	21,5	22,3	19	29,8
MAX1945M16B20M162819	19,1	M16	M16	28	20	45	21,5	22,3	19	29,8

Other options according to DIN 71802 are available:

Form C : Ball stud with spanner flat (DIN 71803 Form C)

Form B : Ball stud with rivet pin (DIN 71803 Form B)

Can be assembled with DIN 71803 suitable sealing caps and nuts

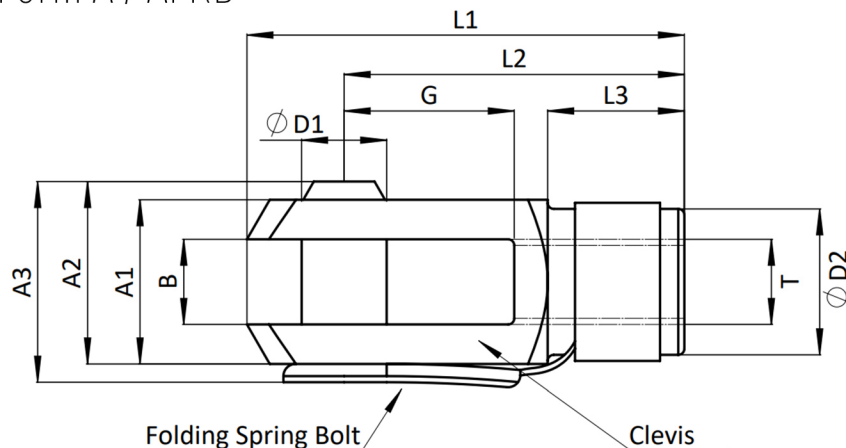
Material: Steel (1.0718 -11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

CLEVISES WITH FOLDING SPRING BOLT

DIN 71751 Form A / AFKB



PART NO.	ØD1	G	L1	L2	L3	T	ØD2	A1	A2	A3	B
MCLA164M4	4	8	21	16	6	M4X0,7	8	8	9,5	11,25	4
MCLA205M5	5	10	26	20	7,5	M5X0,8	9	10	12	13,5	5
MCLA246M6	6	12	31	24	9	M6X1	10	12	14	16	6
MCLA366M6	6	24	43	36	9	M6X1	10	12	14	16	6
MCLA328M8	8	16	42	32	12	M8X1,25	14	16	19	21,5	8
MCLA488M8	8	32	58	48	12	M8X1,25	14	16	19	21,5	8
MCLA4010M10	10	20	52	40	15	M10X1,5	18	20	23	26	10
MCLA6010M10	10	40	72	60	15	M10X1,5	18	20	23	26	10
MCLA4812M12	12	24	62	48	18	M12X1,75	20	24	28	31	12
MCLA7212M12	12	48	86	72	18	M12X1,75	20	24	28	31	12
MCLA5614M14	14	28	72	56	22,5	M14X2	24	27	31	34	14
MCLA6416M16	16	32	83	64	24	M16X2	26	32	36	39	16
MCLA8020M20	20	40	105	80	30	M20X2,5	20	40	45	50	20

Clevis Material: Steel (1.0718 -11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Folding Spring Material: Spring Steel (1.1231 -CK67-)

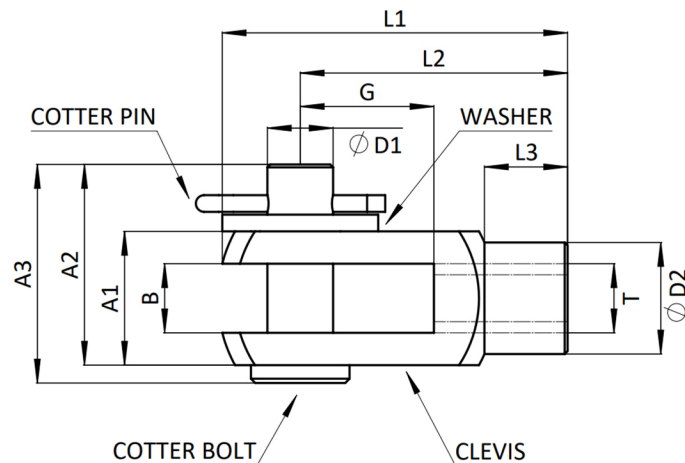
Bolt Material: Steel (1.0718 -11SMnPb30-)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

CLEVISES WITH COTTER BOLT

SIMILAR TO DIN 1434



PART NO.	ØD1	G	L1	L2	L3	T	ØD2	A1	A2	A3	B
MCLABP164M4	4	8	21	16	6	M4X0,7	8	8	12	13	4
MCLABP205M5	5	10	26	20	7,5	M5X0,8	9	10	15	16,5	5
MCLABP246M6	6	12	31	24	9	M6X1	10	12	18	19,5	6
MCLABP366M6	6	24	43	36	9	M6X1	10	12	18	19,5	6
MCLABP328M8	8	16	42	32	12	M8X1,25	14	16	23	25	8
MCLABP488M8	8	32	58	48	12	M8X1,25	14	16	23	25	8
MCLABP4010M10	10	20	52	40	15	M10X1,5	18	20	29	31	10
MCLABP6010M10	10	40	72	60	15	M10X1,5	18	20	29	31	10
MCLABP4812M12	12	24	62	48	18	M12X1,75	20	24	35	38	12
MCLABP7212M12	12	48	86	72	18	M12X1,75	20	24	35	38	12
MCLABP5614M14	14	28	72	56	22,5	M14X2	24	27	40	43	14
MCLABP6416M16	16	32	83	64	24	M16X2	26	32	45	48	16
MCLABP8020M20	20	40	105	80	30	M20X2,5	20	40	53	57	20

Clevis Material: Steel (1.0718 -11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Bolt Material: Steel (1.0718 -11SMnPb30-)

Washer Material: Steel (1.0718 -11SMnPb30-) and Stainless steel (AISI 304)

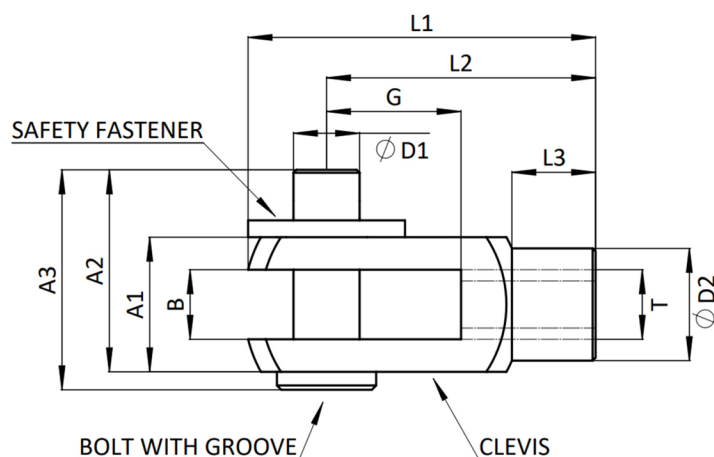
Cotter Pin Material: Steel (1.0718 -11SMnPb30-) and Stainless steel (AISI 304)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

CLEVISES WITH BOLT

BOLTS WITH GROOVE



RETAINING RING
DIN 6799



RETAINING RING
DIN 471



PART NO.	ØD1	G	L1	L2	L3	T	ØD2	A1	A2	A3	B
MCLABG164M4	4	8	21	16	6	M4X0,7	8	8	10,5	11,5	4
MCLABG205M5	5	10	26	20	7,5	M5X0,8	9	10	13	14,5	5
MCLABG246M6	6	12	31	24	9	M6X1	10	12	15,5	17	6
MCLABG366M6	6	24	43	36	9	M6X1	10	12	15,5	17	6
MCLABG328M8	8	16	42	32	12	M8X1,25	14	16	20	22	8
MCLABG488M8	8	32	58	48	12	M8X1,25	14	16	20	22	8
MCLABG4010M10	10	20	52	40	15	M10X1,5	18	20	25	27	10
MCLABG6010M10	10	40	72	60	15	M10X1,5	18	20	25	27	10
MCLABG4812M12	12	24	62	48	18	M12X1,75	20	24	30	33	12
MCLABG7212M12	12	48	86	72	18	M12X1,75	20	24	30	33	12
MCLABG5614M14	14	28	72	56	22,5	M14X2	24	27	33	36	14
MCLABG6416M16	16	32	83	64	24	M16X2	26	32	38,5	42	16
MCLABG8020M20	20	40	105	80	30	M20X2,5	20	40	46	50	20

Clevis Material: Steel (1.0718 -11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Bolt Material: Steel (1.0718 -11SMnPb30-)

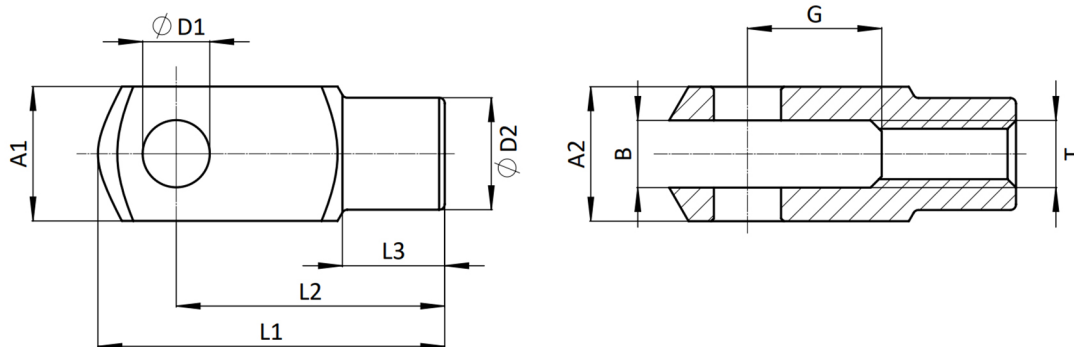
Safety Fastener Material: Spring Steel (1.1231 -CK67-) and Stainless Steel (AISI 304)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

CLEVISES

DIN 71752 Form G / DIN ISO 8140 / CETOP RP102P



PART NO.	ØD1	G	A1	A2	B	T	ØD2	L1	L2	L3
MCL164M4	4	8	8	8	4	M4X0,7	8	21	16	6
MCL205M5	5	10	10	10	5	M5X0,8	9	26	20	7,5
MCL246M6	6	12	12	12	6	M6X1	10	31	24	9
MCL366M6	6	24	12	12	6	M6X1	10	43	36	9
MCL328M8	8	16	16	16	8	M8X1,25	14	42	32	12
MCL488M8	8	32	16	16	8	M8X1,25	14	58	48	12
MCL4010M10	10	20	20	20	10	M10X1,5	18	52	40	15
MCL6010M10	10	40	20	20	10	M10X1,5	18	72	60	15
MCL4812M12	12	24	24	24	12	M12X1,75	20	62	48	18
MCL7212M12	12	48	24	24	12	M12X1,75	20	86	72	18
MCL5614M14	14	28	27	27	14	M14X2	24	72	56	22,5
MCL6416M16	16	32	32	32	16	M16X2	26	83	64	24
MCL9616M16	16	64	32	32	16	M16X2	26	115	96	24
MCL8020M20	20	40	40	40	20	M20X2,5	34	105	80	30

Can be assembled with suitable folding spring bolts, bolts with groove or cotter bolts, washers, retaining rings and pins (According to DIN 71751)

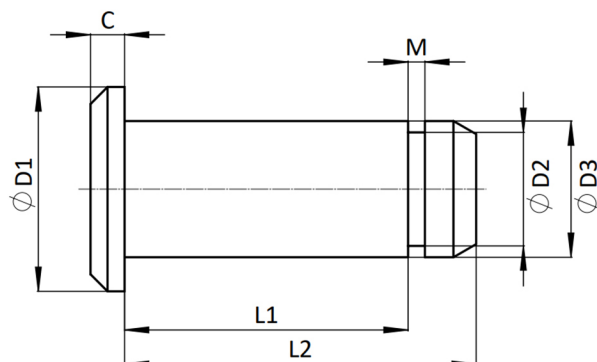
Material: Steel (1.0718 -11SMnPb30-, 1.1186 -C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

BOLTS WITH GROOVE

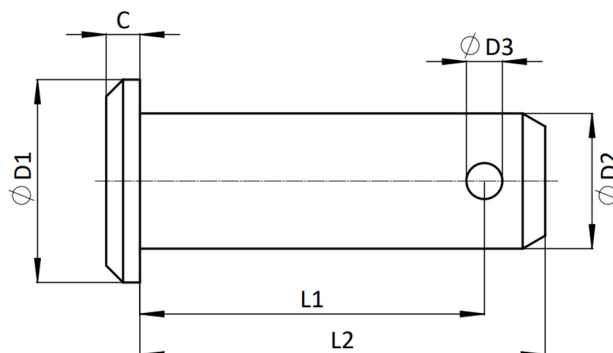
SUITABLE FOR CLEVISES (DIN 71752 / DIN ISO 8140)



PART NO.	ØD1	ØD2	ØD3	L1	L2	C	M	Suitable Clevis
MCLBG64	6	4	3,2	8,5	10,5	1	0,64	MCL164M4
MCLBG85	8	5	4	10,5	13	1,5	0,74	MCL205M5
MCLBG96	9	6	5	12,5	15,5	1,5	0,74	MCL246M6/MCL366M6
MCLBG128	12	8	6	16,5	20	2	0,94	MCL328M8/MCL488M8
MCLBG1410	14	10	8	20,5	25	2	1,05	MCL4010M10/MCL6010M10
MCLBG1712	17	12	9	24,5	30	3	1,15	MCL4812M12/MCL7212M12
MCLBG2014	20	14	10	27,5	33	3	1,25	MCL5614M14
MCLBG2116	21	16	12	32,5	38,5	3,5	1,35	MCL6416M16

COTTER BOLTS

SUITABLE FOR CLEVISES (DIN 71752 / DIN ISO 8140)



PART NO.	ØD1	ØD2	ØD3	L1	L2	C	Suitable Clevis
MCLBP412	6	4	1	10	12	1	MCL164M4
MCLBP515	8	5	1,2	12,3	15	1,5	MCL205M5
MCLBP618	9	6	1,6	15,3	18	1,5	MCL246M6/MCL366M6
MCLBP823	12	8	2	19,5	23	2	MCL328M8/MCL488M8
MCLBP1029	14	10	3,2	24,5	29	2	MCL4010M10/MCL6010M10
MCLBP1235	17	12	4	29,5	35	3	MCL4812M12/MCL7212M12
MCLBP1440	19	14	4	32,5	40	3	MCL5614M14
MCLBG1645	21	16	4	38,2	45	3	MCL6416M16

Both of the bolts can be assembled to suitable clevises with washers, rings, bayonet clips and pins (According to DIN 71751)

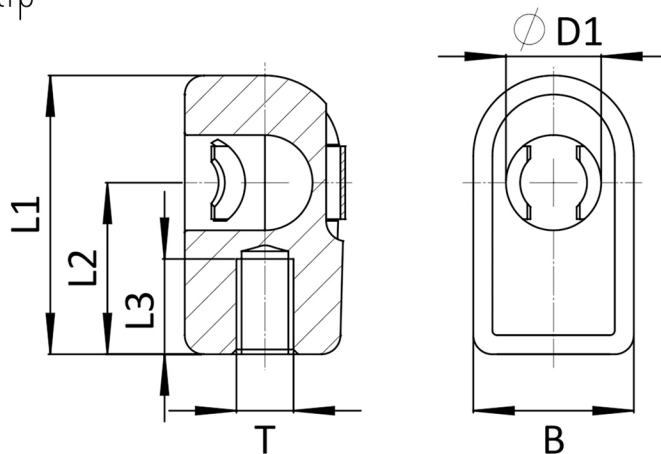
Material: Steel (DIN 1.0718 - 1.1SMnPb30-, DIN 1.1186 - C40- etc.) and Stainless steel (AISI 303, 304 and 316)

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

PLASTIC BALL SOCKET - Version A

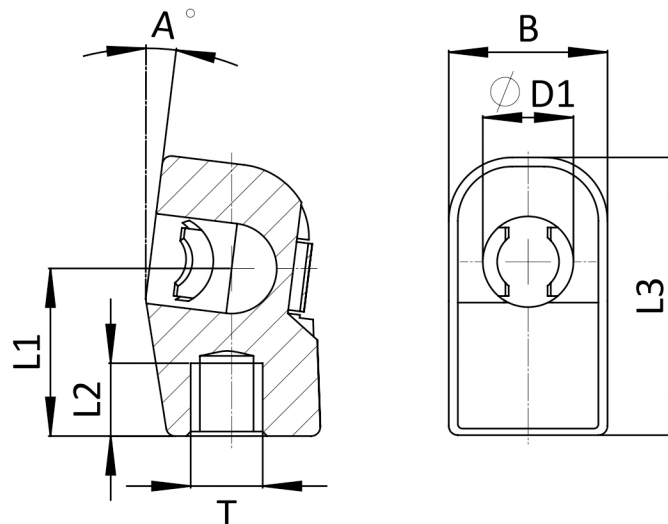
With Slit and Clip



PART NO.	ØD1	B	T	L1	L2	L3	THREAD TYPE
MPLA1018M6-MT	10	16,5	M6	29,5	18	9	Metal
MPLA1018M6-PT	10	16,5	M6	29,5	18	9	Plastic
MPLA1018M8-MT	10	16,5	M8	29,5	18	9	Metal
MPLA1018M8-PT	10	16,5	M8	29,5	18	9	Plastic
MPLA1020M6-PT	10	16,5	M6	31,5	20	9	Plastic
MPLA1020M8-PT	10	16,5	M8	31,5	20	9	Plastic

PLASTIC BALL SOCKET - Version B

Angled Version A



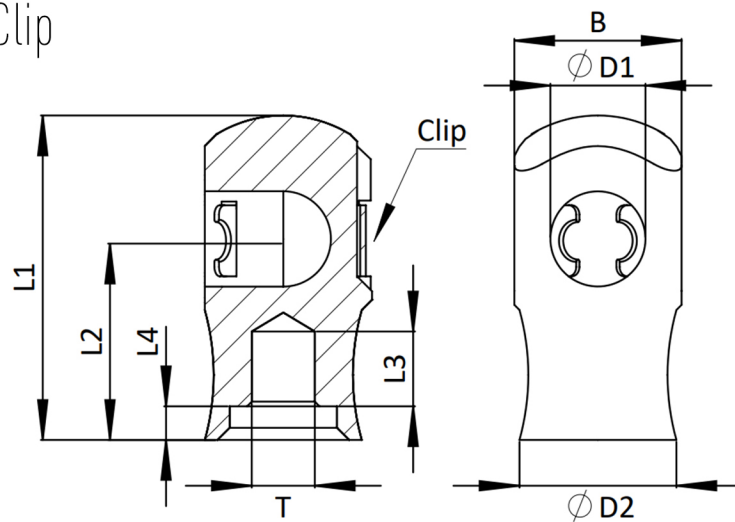
PART NO.	ØD1	L1	T	A°	L2	B	L3	THREAD TYPE
MPLB1018M6-MT	10	18	M6	10°	9,5	16,5	29,5	Metal
MPLB1018M6-PT	10	18	M8	10°	9,5	16,5	29,5	Metal
MPLB1018M8-MT	10	18	M6	16°	9,5	16,5	29,5	Metal
MPLB1018M8-PT	10	18	M8	16°	9,5	16,5	29,5	Metal

Ball Socket Material: PA 66 - GF30

Clip Material: Spring Steel (1.1231 - CK67)

PLASTIC BALL SOCKET - Version C

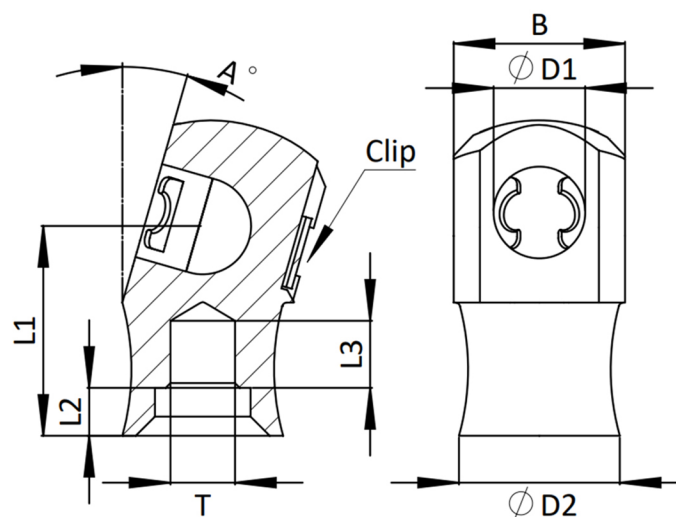
With Slit and Clip



PART NO.	ØD1	ØD2	L1	L2	L3	L4	T	B	THREAD TYPE
MPLC1022M6-MT	10	17	32,5	22	9	3,6	M6	17,5	Metal
MPLC1022M8-MT	10	17	32,5	22	9	3,6	M8	17,5	Metal

PLASTIC BALL SOCKET - Version D

Angled Version D



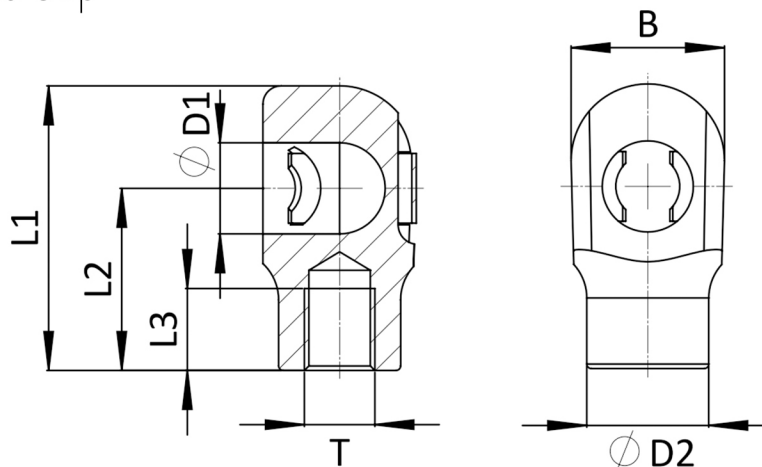
PART NO.	ØD1	ØD2	L1	L2	L3	T	A°	B	THREAD TYPE
MPLD1022M6-MT	10	17	22	9,5	3,6	M6	10°	17,5	Metal
MPLD1623M8-MT	10	17	23	9,5	3,6	M8	16°	17,5	Metal

Ball Socket Material: PA 66 - GF30

Clip Material: Spring Steel (1.1231 - CK67)

PLASTIC BALL SOCKET - Version E

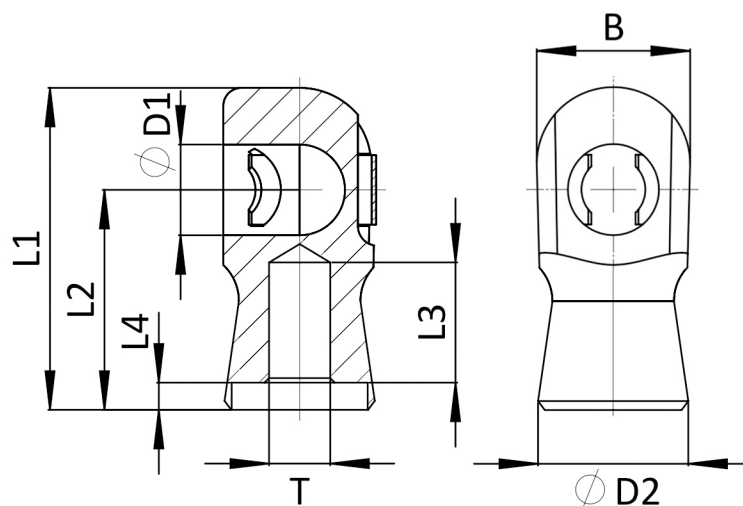
With Slit and Clip



PART NO.	ØD1	B	T	L1	L2	L3	ØD2	THREAD TYPE
MPLE1018M6-MT	10	16,5	M6	26,5	18	9,5	12	Metal
MPLE1018M6-PT	10	16,5	M6	26,5	18	9,5	12	Plastic
MPLE1018M8-MT	10	16,5	M8	26,5	18	9,5	12	Metal
MPLE1018M8-PT	10	16,5	M8	26,5	18	9,5	12	Plastic

PLASTIC BALL SOCKET - Version F

Skirted Version E



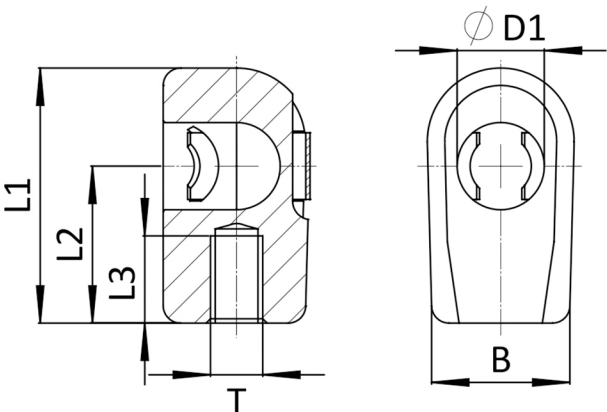
PART NO.	ØD1	B	T	L1	L2	L3	L4	ØD2	THREAD TYPE
MPLF1021M6-MT	10	16,5	M6	29,5	21	9,5	3	15	Metal

Ball Socket Material: PA 66 - GF30

Clip Material: Spring Steel (1.1231 - CK67) - Stainless Steel Clip Available

PLASTIC BALL SOCKET - Version G

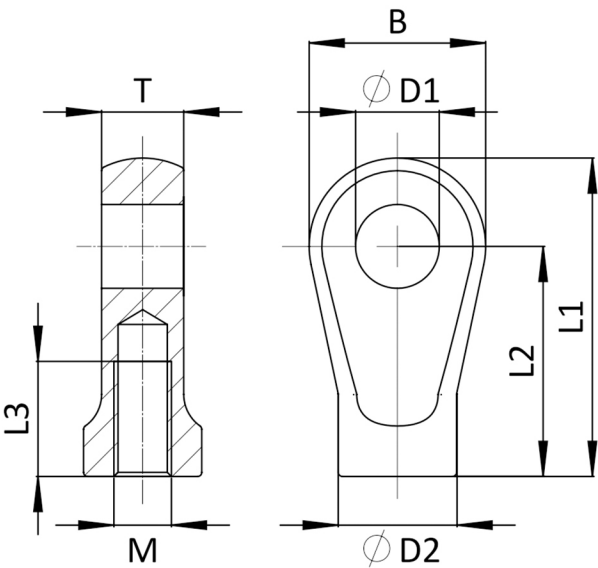
With Slit and Clip



PART NO.	ØD1	B	T	L1	L2	L3	THREAD TYPE
MPLG818M6-MT	8	15	M6	26	18	11	Metal

Ball Socket Material: PA 66 - GF30
Clip Material: Spring Steel (1.1231 - CK67)

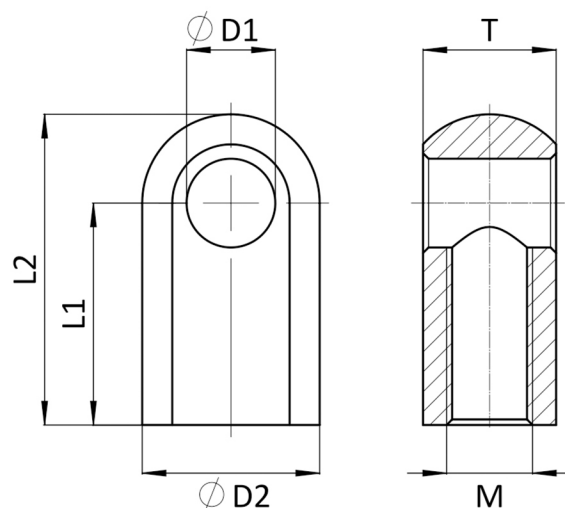
PLASTIC EYE - Version H



PART NO.	ØD1	L1	L2	L3	T	M	B	ØD2	THREAD TYPE
MPLH8145M6-MT	8,2	39	28,5	11	10	M6	21	14,5	Metal
MPLH10145M6-MT	10,2	39	28,5	11	10	M6	21	14,5	Metal

Material: PA 66 - GF30

EYE - VERSION A



PART NO.	ØD1	ØD2	L1	L2	T	M
MEA1610166M8	6,1	16	16	24	10	M8
MEA1610186M8	6,1	16	18	26	10	M8
MEA1612208M8	8,1	16	20	28	12	M8
MEA1612168M8	8,1	16	16	24	12	M8
MEA1610168M8	8,1	16	16	24	10	M8
MEA1610178M8	8,1	16	17	25	10	M8
MEA1610198M6	8,1	16	19	27	10	M6
MEA1612208M10	8,1	16	20	28	12	M10
MEA1610208M8	8,1	16	20	28	10	M8
MEA1612228M10	8,1	16	22	30	12	M10
MEA18101810M8	10,1	18	18	27	10	M8
MEA18122010M8	10,1	18	20	29	12	M8
MEA1812208M8	8,1	18	20	29	12	M8
MEA18102010M8	10,1	18	20	29	10	M8
MEA1810208M8	8,1	18	20	29	10	M8
MEA20121810M8	10,1	20	18	28	12	M8
MEA2012228M10	8,1	20	22	32	12	M10
MEA2010228M8	8,1	20	22	32	10	M8
MEA20121610M8	10,1	20	16	26	12	M8
MEA26122214M8	14,5	26	22	35	12	M8
MEA28122416M8	16,5	28	24	38	12	M8

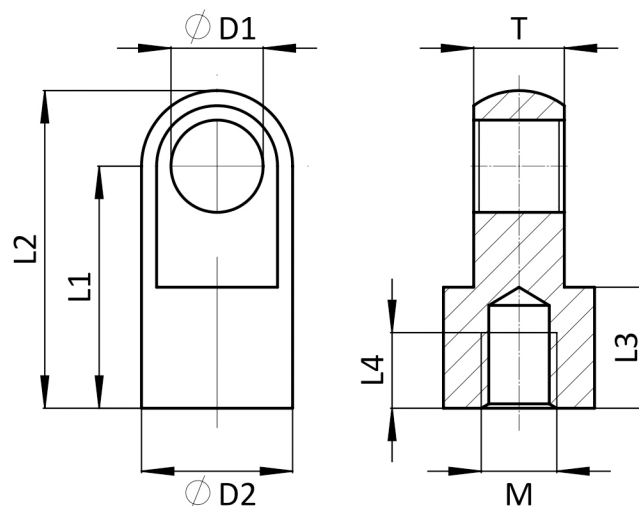
Can be assembled to suitable gas springs

Material: Steel (1.0718 - 1.1SMnPb30-, 1.1186 -C40- etc.), Stainless steel (AISI 303, 304 and 316) and Aluminum

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

EYE - VERSION B



PART NO.	ØD1	ØD2	M	L1	L2	L3	L4	T
MEB106166M5	6,1	10	M5	16	21	9	7	6
MEB106203M6	6,1	10	M6	20	21	8	6	3
MEB146265M6	6,1	14	M6	26	33	16	14	5
MEB148265M6	8,1	14	M6	26	33	16	14	5
MEB158225M8	8,1	15	M8	22	29,5	12,5	9	5
MEB1582210M8	8,1	15	M8	22	29,5	14,5	9	10
MEB158225M6	8,1	15	M6	22	29,5	12,5	9	5
MEB158185M6	8,1	15	M6	18	25,5	10,5	7	5
MEB158205M6	8,1	15	M6	20	27,5	11,5	8	5
MEB158253M8	8,1	15	M8	25	32,5	12,5	11	3
MEB158255M8	8,1	15	M8	25	32,5	12,5	11	5
MEB158258M8	8,1	15	M8	25	32,5	12,5	11	8
MEB158253M8	8,1	15	M8	25	32,5	12,5	11	3
MEB158255M6	8,1	15	M6	25	32,5	12,5	11	5
MEB158305M6	8,1	15	M6	30	37,5	12,5	11	5
MEB1881810M8	8,1	18	M8	18	27	10,5	9	10
MEB1882010M8	8,1	18	M8	20	29	10,5	9	10
MEB1882210M8	8,1	18	M8	22	31	12,5	9	10
MEB1882510M8	8,1	18	M8	25	34	12,5	11	10
MEB18102510M8	10,1	18	M8	25	34	12,5	11	10
MEB1883010M8	8,1	18	M8	30	39	12,5	11	10
MEB1883010M10	8,1	18	M10	30	39	15	13	10
MEB18103010M8	10,1	18	M8	30	39	12,5	11	10
MEB1883010M10	8,1	18	M10	30	39	19	15	10
MEB1883510M10	8,1	18	M10	35	44	22	20	10
MEB20102212M10	10,1	20	M10	22	32	10	7	12
MEB2082510M10	8,1	20	M10	25	35	13	11	10
MEB20103012M10	10,1	20	M10	30	40	15	13	12
MEB2083510M8	8,1	20	M8	35	45	20	14	10
MEB20103512M10	10,1	20	M10	35	45	20	14	12
MEB20103510M8	10,1	20	M8	35	45	20	14	10
MEB25144214M10	14,1	25	M10	42	54,5	22,5	18	14
MEB25144214M14	14,1	25	M14	42	54,5	22,5	18	14
MEB20103512M10	10,1	20	M10	35	45	20	14	12

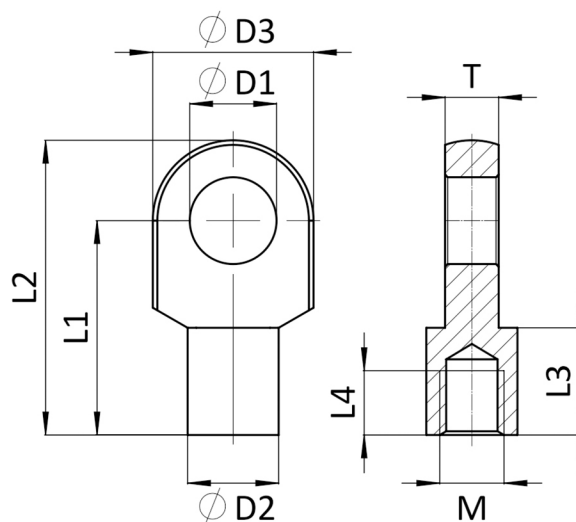
Can be assembled to suitable gas springs

Material: Steel (1.0718 - 11SMnPb30-, 1.1186 -C40- etc.), Stainless steel (AISI 303, 304 and 316) and Aluminum

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

EYE - VERSION C



PART NO.	ØD1	ØD2	D3	M	L1	L2	L3	L4	T
MEC11616M5	6,1	9	11	M5	16	21,5	8	6	3
MEC13620M6	6,1	9	13	M6	20	26,5	10	7	3
MEC13617M6	6,1	9	13	M6	17	23,5	10	7	3
MEC13618M6	6,1	9	13	M6	18	24,5	11	8	3
MEC15622M8	6,1	9	15	M8	22	29,5	12	9	5
MEC15822M8	8,1	9	15	M8	22	29,5	12	9	5
MEC15822M6	8,1	11	15	M6	22	29,5	12	9	5
MEC15820M6	8,1	10	15	M6	20	27,5	9	9	10
MEC15818M6	8,1	10	15	M6	18	25,5	11	8	5
MEC15825M8	8,5	11	15	M8	25	32,5	12	9	5
MEC15825M8	8,1	11	15	M8	25	32,5	12	9	5
MEC15825M8	8,5	10	15	M8	25	32,5	12	9	5
MEC15828M8	8,1	11	15	M8	28	35,5	17	13	5
MEC151028M6	10,1	11	15	M6	28	35,5	17	13	5
MEC15830M6	8,1	11	15	M6	30	37,5	16	12	5

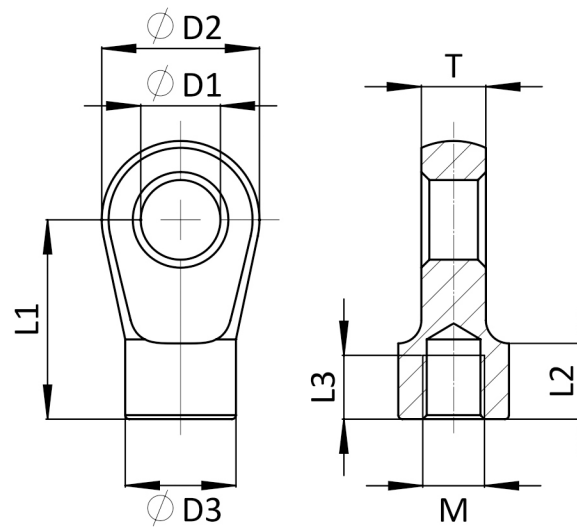
Can be assembled to suitable gas springs

Material: Steel (1.0718 - 1.1SMnPb30-, 1.1186 -C40- etc.), Stainless steel (AISI 303, 304 and 316) and Aluminum

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request

EYE - VERSION D



PART NO.	ØD1	ØD2	ØD3	L1	L2	L3	T	M
MED618M6	6	12	9	18	6,5	9	7	M6
MED818M8	8	20	14	18	5	9	10	M8
MED822M6	8	20	14	22	12	9	10	M6
MED822M8	8	20	14	22	12	9	10	M8
MED825M6	8	20	14	25	10	9	8	M6
MED825M8	8	20	14	25	11	9	8	M8
MED1020M8	10	20	14	20	5	9	8	M8
MED1022M6	10	20	14	22	12	9	10	M6
MED1022M8	10	20	14	22	12	9	10	M8
MED1025M8	10	20	14	25	10	9	8	M8

Can be assembled to suitable gas springs

Material: Steel (1.0718 - 1.1SMnPb30-, 1.1186 -C40- etc.), Stainless steel (AISI 303, 304 and 316) and Aluminum

Plating: Alkaline zinc (white, blue, black, yellow or transparent passivation) or Zinc nickel (black or transparent passivation)

Special options available on request