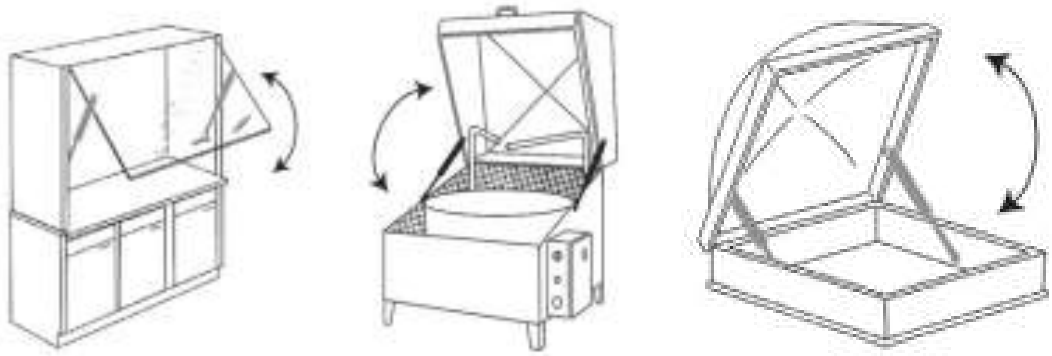
Cilindros de Gas
Resortes
Amortiguadores



HIDRANE
NAVARRA

Tfno:948 32 40 70
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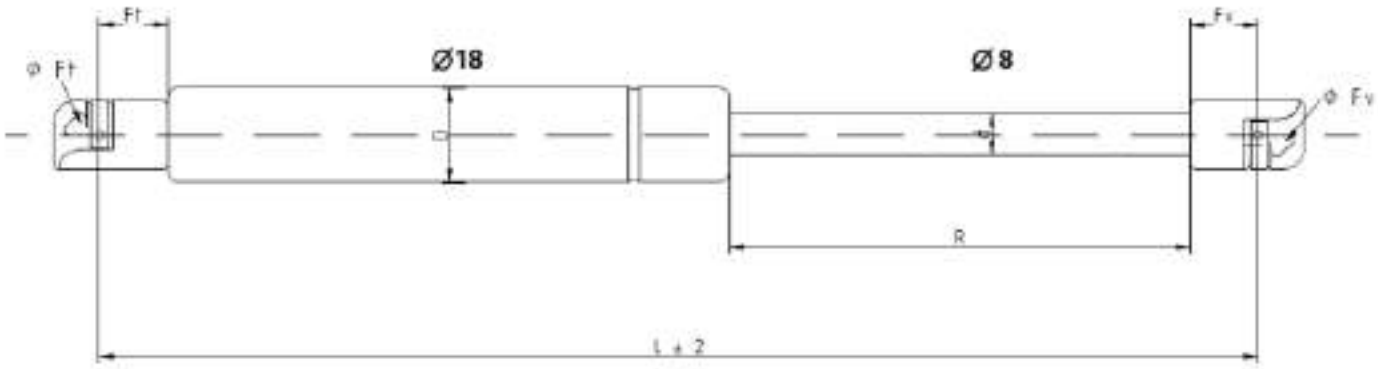
Pol. Arazuri-Orcoyen c/C Nº28.
31170 ARAZURI (NAVARRA)

Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Rótula / Rótula



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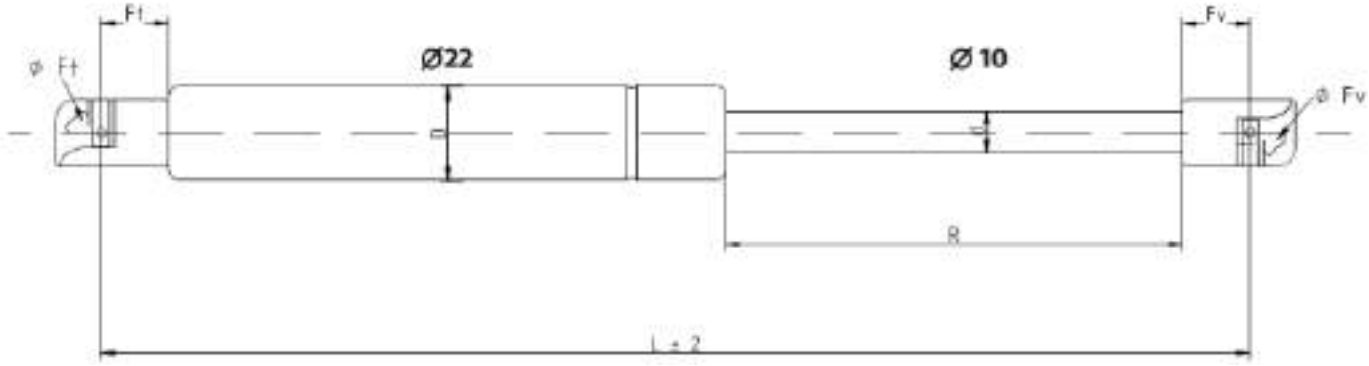
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial

Rótula / Rótula



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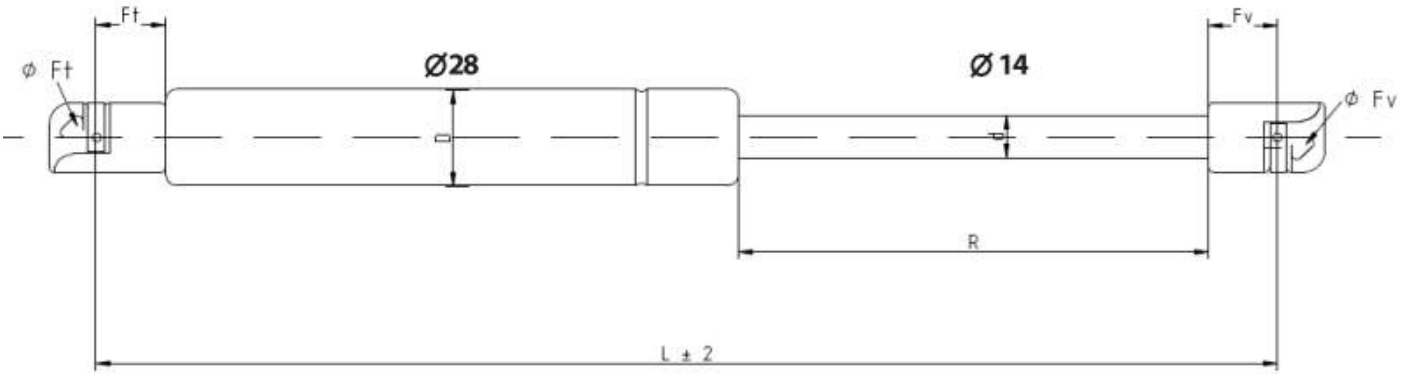
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Rótula / Rótula



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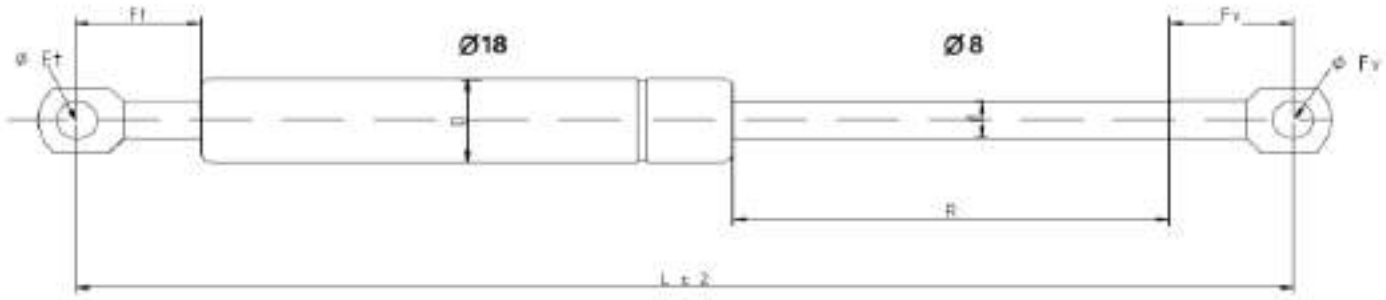
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Ojal / Ojal



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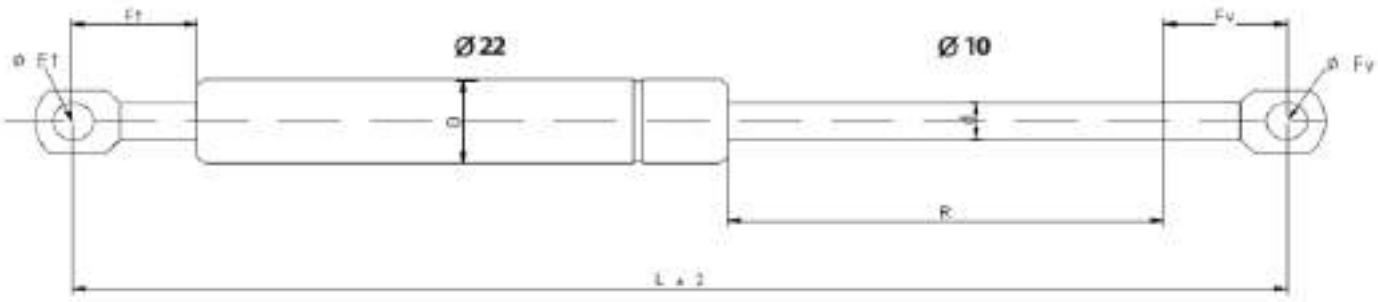
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Ojal / Ojal



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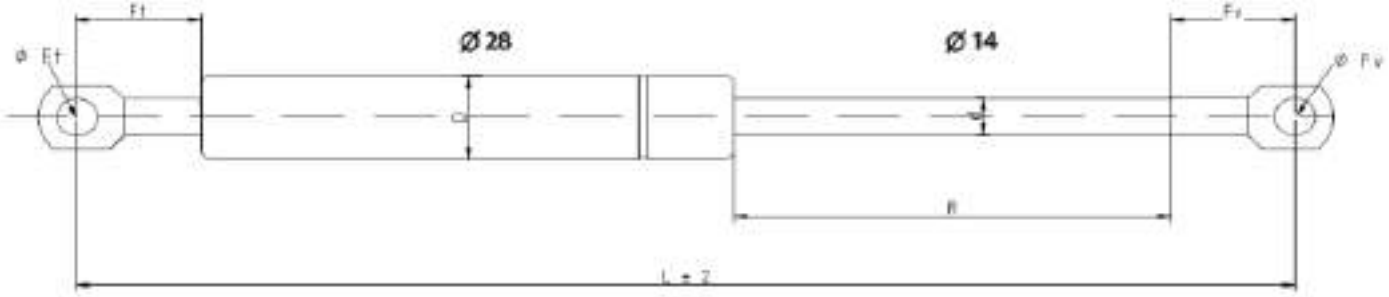
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Ojal / Ojal



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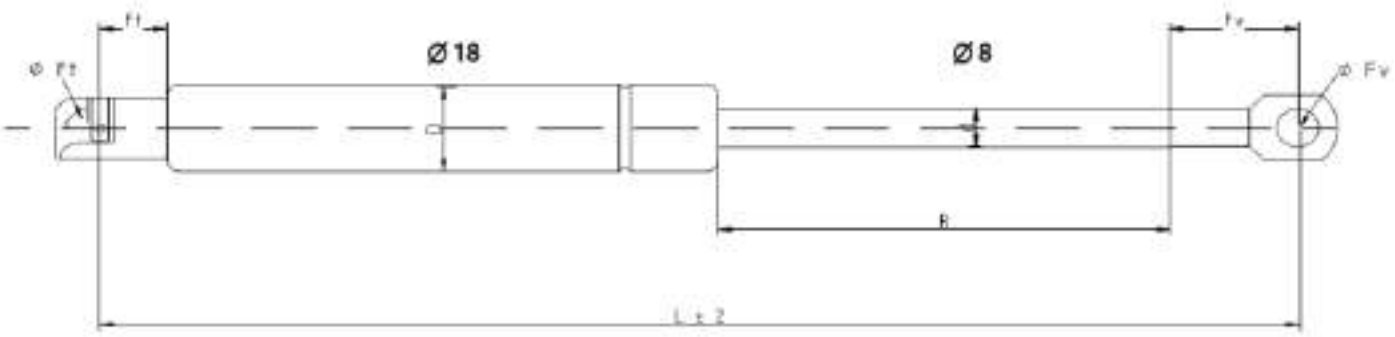
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Rótula / Ojal



Fuerza / Longitud	200	350	450	550	650
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275	UNIV275200	UNIV275350	UNIV275450	UNIV275550	UNIV275650
300	UNIV300200	UNIV300350	UNIV300450	UNIV300550	UNIV300650
325	UNIV325200	UNIV325350	UNIV325450	UNIV325550	UNIV325650
350	UNIV350200	UNIV350350	UNIV350450	UNIV350550	UNIV350650
375	UNIV375200	UNIV375350	UNIV375450	UNIV375550	UNIV375650
400	UNIV400200	UNIV400350	UNIV400450	UNIV400550	UNIV400650
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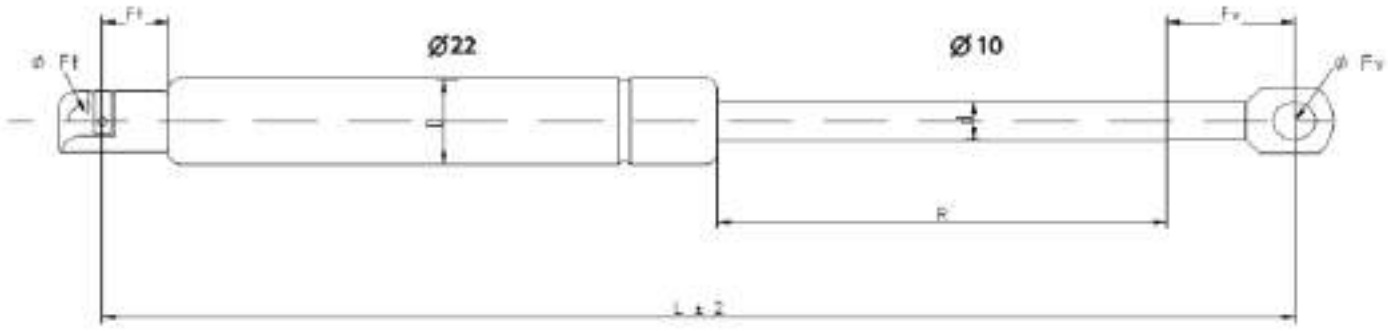
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Rótula / Ojal



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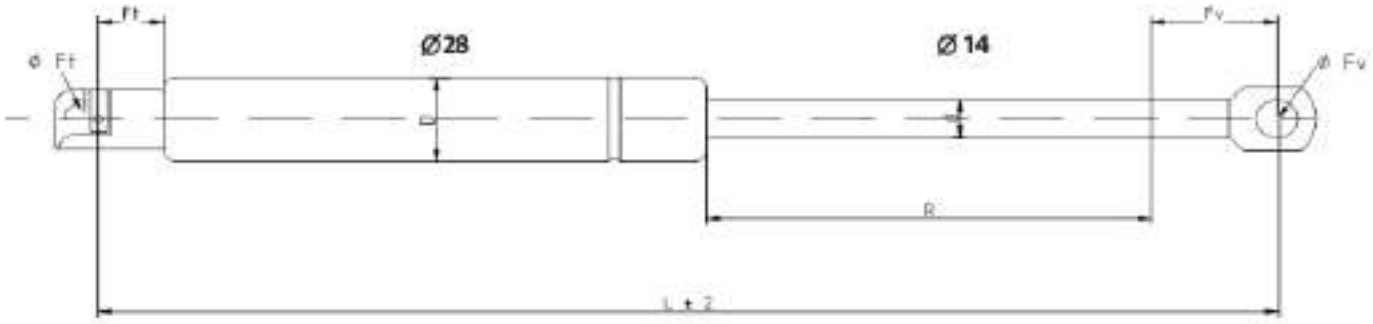
Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Rótula / Ojal



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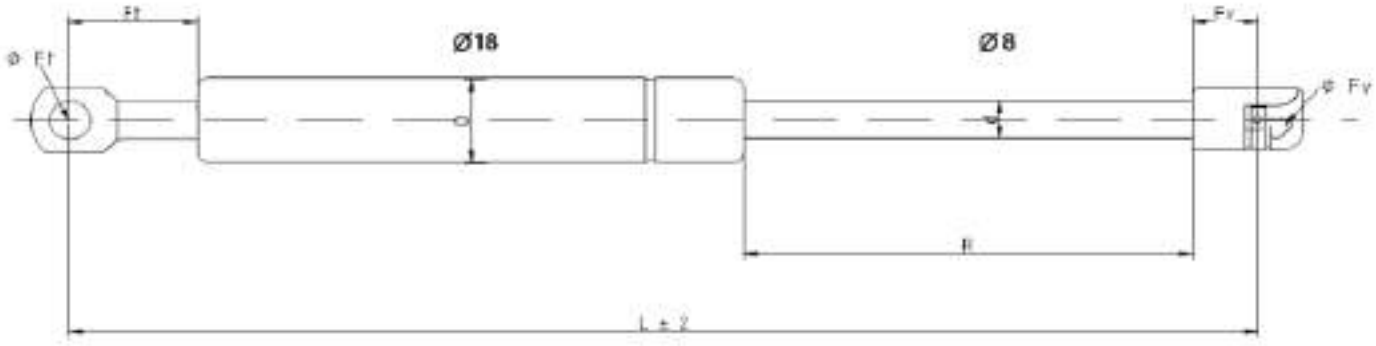
850	GM1158503130	GM1258503130	GM1358503130	GM1458503130
875	GM1158753130	GM1258753130	GM1358753130	GM1458733130
900	GM1159003130	GM1259003130	GM1359003130	GM1459003130

Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
Ojal / Rótula



Fuerza / Longitud	200	350	450	550	650
200	GH0202000206	GH0353500206	GH0454500206	GH0555500206	GH0656500206
225	GH0202250206	GH0352250206	GH0452250206	GH0552250206	GH0652250206
250	GH0202500206	GH0352500206	GH0452500206	GH0552500206	GH0652500206
275	GH0202750206	GH0352750206	GH0452750206	GH0552750206	GH0652750206
300	GH0203000206	GH0353000206	GH0453000206	GH0553000206	GH0653000206
325	GH0203250206	GH0353250206	GH0453250206	GH0553250206	GH0653250206
350	GH0203500206	GH0353500206	GH0453500206	GH0553500206	GH0653500206
375	GH0203750206	GH0353750206	GH0453750206	GH0553750206	GH0653750206
400	GH0204000206	GH0354000206	GH0454000206	GH0554000206	GH0654000206
425	GH0204250206	GH0354250206	GH0454250206	GH0554250206	GH0654250206
450	GH0204500206	GH0354500206	GH0454500206	GH0554500206	GH0654500206
475	GH0204750206	GH0354750206	GH0454750206	GH0554750206	GH0654750206
500	GH0205000206	GH0355000206	GH0455000206	GH0555000206	GH0655000206
525	GH0205250206	GH0355250206	GH0455250206	GH0555250206	GH0655250206
550	GH0205250206	GH0205250206	GH0205250206	GH0205250206	GH0205250206
575	GH0205750206	GH0355750206	GH0455750206	GH0555750206	GH0655750206
600	GH0206000206	GH0356000206	GH0456000206	GH0556000206	GH0656000206
625	GH0206250206	GH0356250206	GH0456250206	GH0556250206	GH0656250206
650	GH0206500206	GH0356500206	GH0456500206	GH0556500206	GH0656500206

Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
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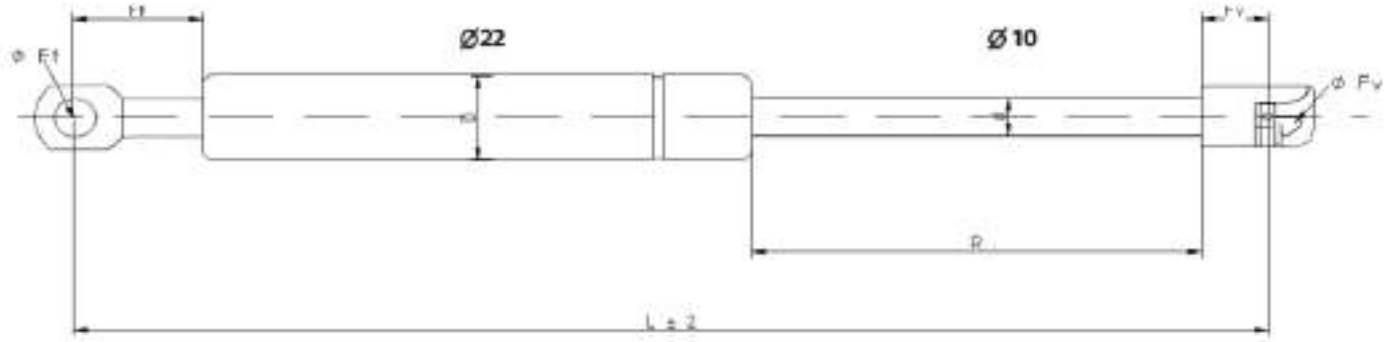

Fuerza / Longitud	750	850	950	1050
200	GJ0752003031	GJ0852003031	GJ0952003031	GJ1052003031
225	GJ0752253031	GJ0852253031	GJ0952253031	GJ1052253031
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275	GJ0752753031	GJ0852753031	GJ0952753031	GJ1052753031
300	GJ0753003031	GJ0853003031	GJ0953003031	GJ1053003031
325	GJ0753253031	GJ0853253031	GJ0953253031	GJ1053253031
350	GJ0753503031	GJ0853503031	GJ0953503031	GJ1053503031
375	GJ0753753031	GJ0853753031	GJ0953753031	GJ1053753031
400	GJ0754003031	GJ0854003031	GJ0954003031	GJ1054003031
425	GJ0754253031	GJ0854253031	GJ0954253031	GJ1054253031
450	GJ0754503031	GJ0854503031	GJ0954503031	GJ1054503031
475	GJ0754753031	GJ0854753031	GJ0954753031	GJ1054753031
500	GJ0755003031	GJ0855003031	GJ0955003031	GJ1055003031
525	GJ0755253031	GJ0855253031	GJ0955253031	GJ1055253031
550	GJ0755503031	GJ0855503031	GJ0955503031	GJ1055503031
575	GJ0755753031	GJ0855753031	GJ0955753031	GJ1055753031
600	GJ0756003031	GJ0856003031	GJ0956003031	GJ1056003031
625	GJ0756253031	GJ0856253031	GJ0956253031	GJ1056253031
650	GJ0756503031	GJ0856503031	GJ0956503031	GJ1056503031
675	GJ0756753031	GJ0856753031	GJ0956753031	GJ1056753031
700	GJ0757003031	GJ0857003031	GJ0957003031	GJ1057003031
725	GJ0757253031	GJ0857253031	GJ0957253031	GJ1057253031
750	GJ0757503031	GJ0857503031	GJ0957503031	GJ1057503031
775	GJ0757753031	GJ0857753031	GJ0957753031	GJ1057753031
800	GJ0758003031	GJ0858003031	GJ0958003031	GJ1058003031
825	GJ0758253031	GJ0858253031	GJ0958253031	GJ1058253031
850	GJ0758503031	GJ0858503031	GJ0958503031	GJ1058503031
875	GJ0758753031	GJ0858753031	GJ0958753031	GJ1058753031
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Cilindros de Gas / Resortes / Amortiguadores Genéricos Gama Industrial
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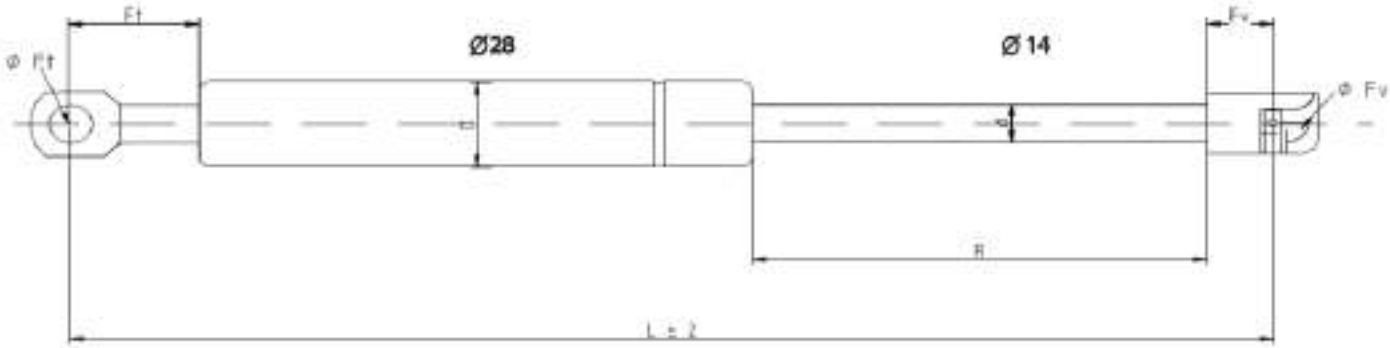


Fuerza / Longitud	1150	1250	1350	1450
300	GM1153003031	GM1253003031	GM1353003031	GM1453003031
325	GM1153253031	GM1253253031	GM1353253031	GM1453253031
350	GM1153503031	GM1253503031	GM1353503031	GM1453503031
375	GM1153753031	GM1253753031	GM1353753031	GM1453753031
400	GM1154003031	GM1254003031	GM1354003031	GM1454003031
425	GM1154253031	GM1254253031	GM1354253031	GM1454253031
450	GM1154503031	GM1254503031	GM1354503031	GM1454503031
475	GM1154753031	GM1254753031	GM1354753031	GM1454753031
500	GM1155003031	GM1255003031	GM1355003031	GM1455003031
525	GM1155253031	GM1255253031	GM1355253031	GM1455253031
550	GM1155503031	GM1255503031	GM1355503031	GM1455503031
575	GM1155753031	GM1255753031	GM1355753031	GM1455753031
600	GM1156003031	GM1256003031	GM1356003031	GM1456003031
625	GM1156253031	GM1256253031	GM1356253031	GM1456253031
650	GM1156503031	GM1256503031	GM1356503031	GM1456503031
675	GM1156753031	GM1256753031	GM1356753031	GM1456753031
700	GM1157003031	GM1257003031	GM1357003031	GM1457003031
725	GM1157253031	GM1257253031	GM1357253031	GM1457253031
750	GM1157503031	GM1257503031	GM1357503031	GM1457503031
775	GM1157753031	GM1257753031	GM1357753031	GM1457753031
800	GM1158003031	GM1258003031	GM1358003031	GM1458003031
825	GM1158253031	GM1258253031	GM1358253031	GM1458253031
850	GM1158503031	GM1258503031	GM1358503031	GM1458503031
875	GM1158753031	GM1258753031	GM1358753031	GM1458753031
900	GM1159003031	GM1259003031	GM1359003031	GM1459003031

STABILUS INDUSTRYLINE

Order system

Step 1:

Selection of the product

G = Gas spring
Z = Tension spring
ZD = Tension spring with damping

upon request
F = Elastic locking gas spring
S = Rigid locking gas spring
X = Absolutely rigid locking gas spring
SL = Free-moving locking gas spring
SX = Double rigid locking gas spring
D = Non-adjustable oil damper

Step 2:

Select a series on the basis of the required force, the desired stroke and the maximum installation length.

Step 3:

Enter the desired stroke in mm.

G	1	4	2	8	0	2	5	0	1	0	6	5	0	A	U	2	7	A	B	1	6	1	5	0	0	N	1	5	6	V2

Step 4:

Select the damping (1=with, 0=without damping, 9=special nozzle) or the braking direction (1=extension, 2=compression, 3=in both directions)

Step 5:

Enter the installation length in mm (extended from middle to middle of fitting).

Step 6:

Determine the fitting at the piston rod.

Step 7:

Determine the fitting at the cylinder.

Step 8:

Enter the desired nominal force in N.

Step 9:

Selection of the extras

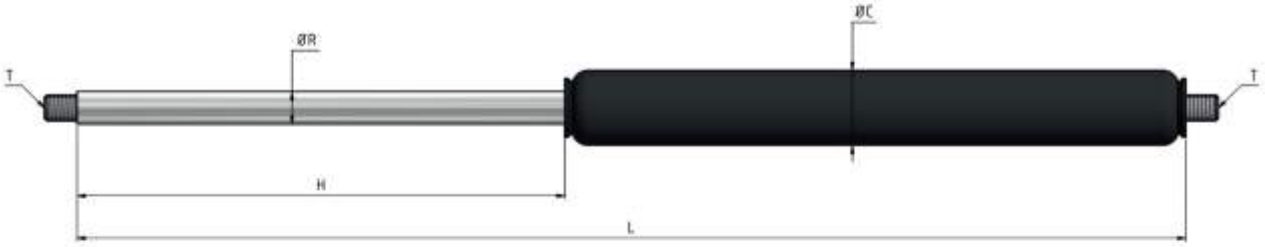
1 = Wiper ring
2 = Radial valve
4 = Grease chamber
5 = Valve
6 = Protection tube
7 = Floating piston (add 70 % of the stroke length to the determined installation length)
8 = Locking device (add 30 mm to the determined installation length)
ES = Sealing system
NT = Low-temperature design
HT = High-temperature design
RK = Friction element
V2 = Design completely in stainless steel AISI 303/304
V4 = Design completely in stainless steel AISI 316L/316Ti

7

Product range of the STABILUS IndustryLine gas springs

Standard product range

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length as required (L)	Thread (T) on both sides	Extension force
G 02-06	2 mm	6 mm	5 - 50 mm	2 x stroke + 20	M 2 x M 2	5 - 40 N
G 03-08	3 mm	8 mm	10 - 80 mm	2 x stroke + 32	M 3.5 x M 3.5	5 - 100 N
G 03-10	3 mm	10 mm	10 - 80 mm	2 x stroke + 32	M 3.5 x M 3.5	5 - 100 N
G 04-12	4 mm	12 mm	30 - 180 mm	2 x stroke + 32	M 3.5 x M 3.5	10 - 180 N
G 06-15	6 mm	15.6 mm	20 - 300 mm	2 x stroke + 55	M 5 x M 5	40 - 400 N
G 06-19	6 mm	19 mm	20 - 300 mm	2 x stroke + 55	M 5 x M 8	40 - 400 N
G 08-19	8 mm	19 mm	40 - 500 mm	2 x stroke + 70	M 8 x M 8	50 - 700 N
G 08-23	8 mm	23 mm	40 - 500 mm	2 x stroke + 70	M 8 x M 8	50 - 700 N
G 10-23	10 mm	23 mm	40 - 500 mm	2 x stroke + 70	M 8 x M 8	100 - 1200 N
G 10-28	10 mm	28 mm	40 - 500 mm	2 x stroke + 70	M 8 x M 8	100 - 1200 N
G 10-40	10 mm	40 mm	30 - 500 mm	2 x stroke + 100	M 8 x M 14 x 1.5	150 - 1200 N
G 14-28	14 mm	28 mm	50 - 600 mm	2 x stroke + 107	M 10 x M 10	150 - 2500 N
G 14-40	14 mm	40 mm	50 - 600 mm	2 x stroke + 100	M 10 x M 10	150 - 2500 N
G 20-40	20 mm	40 mm	50 - 600 mm	2 x stroke + 138	M 14 x 1.5 x M 14 x 1.5	300 - 5000 N
G 22-40	22 mm	40 mm	50 - 1000 mm	2 x stroke + 138	M 14 x 1.5 x M 14 x 1.5	500 - 6000 N
G 25-55	25 mm	55 mm	100 - 1000 mm	2 x stroke + 140	M 20 x 1.5 x M 20 x 1.5	500 - 7500 N
G 30-65	30 mm	65 mm	100 - 1000 mm	2 x stroke + 160	M 24 x 2 x M 24 x 2	750 - 10000 N



Gas spring – Steel (piston rod: chromium-plated, cylinder: black spray coated)

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 04 12	4 mm	12 mm	30 mm	92 mm	M3,5 x 5 mm	10–180N
G 04 12	4 mm	12 mm	50 mm	132 mm	M3,5 x 5 mm	10–180N
G 04 12	4 mm	12 mm	60 mm	152 mm	M3,5 x 5 mm	10–180N
G 04 12	4 mm	12 mm	80 mm	192 mm	M3,5 x 5 mm	10–180N
G 04 12	4 mm	12 mm	100 mm	232 mm	M3,5 x 5 mm	10–180N
G 04 12	4 mm	12 mm	120 mm	272 mm	M3,5 x 5 mm	10–180N
G 04 12	4 mm	12 mm	150 mm	332 mm	M3,5 x 5 mm	10–180N

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 06 15	6 mm	15 mm	50 mm	132 mm	M5 x 5 mm	40–400N
G 06 15	6 mm	15 mm	60 mm	152 mm	M5 x 5 mm	40–400N
G 06 15	6 mm	15 mm	80 mm	192 mm	M5 x 5 mm	40–400N
G 06 15	6 mm	15 mm	100 mm	232 mm	M5 x 5 mm	40–400N
G 06 15	6 mm	15 mm	120 mm	272 mm	M5 x 5 mm	40–400N
G 06 15	6 mm	15 mm	150 mm	332 mm	M5 x 5 mm	40–400N
G 06 15	6 mm	15 mm	200 mm	432 mm	M5 x 5 mm	40–400N

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 08 19	8 mm	19 mm	50 mm	145 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	60 mm	165 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	80 mm	205 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	100 mm	245 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	120 mm	285 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	150 mm	345 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	160 mm	365 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	200 mm	445 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	250 mm	545 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	300 mm	645 mm	M8 x 10 mm	50–700N

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 10 23	10 mm	23 mm	100 mm	245 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	150 mm	345 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	200 mm	445 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	250 mm	545 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	300 mm	645 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	350 mm	745 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	400 mm	845 mm	M8 x 10 mm	100–1200N

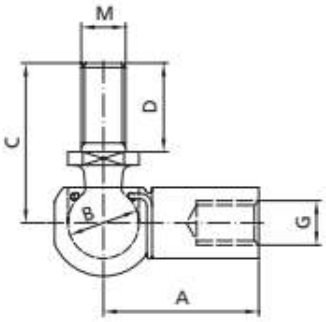
Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 14 28	14 mm	28 mm	100 mm	248 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	150 mm	348 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	200 mm	448 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	250 mm	548 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	300 mm	648 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	350 mm	748 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	400 mm	848 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	450 mm	948 mm	M10 x 12 mm	150–2500N
G 14 28	14 mm	28 mm	500 mm	1048 mm	M10 x 12 mm	150–2500N

Gas spring – Stainless Steel 303 (piston rod: AISI 303, cylinder: AISI 304)

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 06 15	6 mm	15 mm	80 mm	192 mm	M5 x 7 mm	40–400N
G 06 15	6 mm	15 mm	100 mm	232 mm	M5 x 7 mm	40–400N
G 06 15	6 mm	15 mm	150 mm	332 mm	M5 x 7 mm	40–400N

Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 08 19	8 mm	19 mm	80 mm	205 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	100 mm	245 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	120 mm	285 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	150 mm	345 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	200 mm	445 mm	M8 x 10 mm	50–700N
G 08 19	8 mm	19 mm	250 mm	545 mm	M8 x 10 mm	50–700N

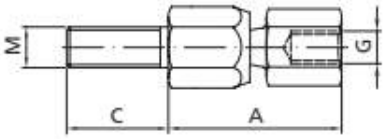
Type	Ø Rod (R)	Ø Cylinder (C)	Stroke (H)	Length (L)	Thread (T) on both sides	Force
G 10 23	10 mm	23 mm	100 mm	245 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	150 mm	345 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	200 mm	445 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	250 mm	545 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	300 mm	645 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	350 mm	745 mm	M8 x 10 mm	100–1200N
G 10 23	10 mm	23 mm	400 mm	845 mm	M8 x 10 mm	100–1200N



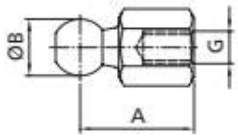
Ball joints and sockets

Type	Thread (G)	Installation length (A)	Socket diameter (B)	Bolt length (C)	Thread (MxD)	Steel	AISI 303/304	AISI 316L/316Ti
PF12	M2	12.5 mm	4 mm	12.5 mm	–	•	–	–
WG12	M2	12.5 mm	4 mm	12.5 mm	M2x7.5	•	–	–
PX18	M3.5	18 mm	8 mm	–	–	•	–	–
WX18	M3.5	18 mm	8 mm	19 mm	M4x10	•	–	–
PF22	M5	22 mm	8 mm	–	–	•	o/r	o/r
PX22	M5	22 mm	10 mm	–	–	•	–	–
WD22	M5	22 mm	10 mm	19 mm	M8x12	•	–	–
WG22	M5	22 mm	8 mm	19 mm	M5x10	•	•	•
WX22	M5	22 mm	10 mm	23 mm	M8x12	•	•	–
WY22	M5	22 mm	10 mm	23 mm	M6x12	•	–	–
PF18	M8	18 mm	10 mm	–	–	•	–	–
PF30	M8	30 mm	13 mm	–	–	•	o/r	o/r
WD30	M8	30 mm	13 mm	29 mm	M8x16	•	–	–
WG18	M8	18 mm	10 mm	23 mm	M8x12	•	•	–
WG30	M8	30 mm	13 mm	29 mm	M8x16	•	•	•
WS35	M8	35 mm	16 mm	36 mm	M10x20	•	–	–
WX30	M8	30 mm	13 mm	29 mm	M10x16	•	–	–
PF35	M10	35 mm	16 mm	–	–	•	–	–
WG35	M10	35 mm	16 mm	36 mm	M10x20	•	•	•
WG45	M14x1.5	45 mm	19 mm	48 mm	M14x1,5x28	•	•	•

ADKG

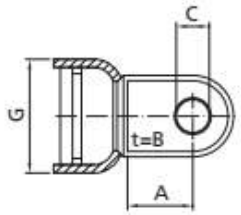


ADKU



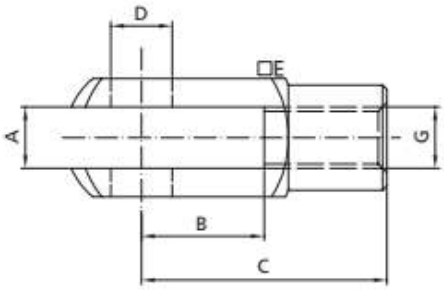
Axial joints

Type	Thread (G)	Installation length (A)	Ball diameter (B)	Bolt (MxC)	Steel	AISI 303/304	AISI 316L/316Ti
ADKG	M5	28 mm	8 mm	M8x35	•	–	–
ADKU	M5	20 mm	8 mm	–	•	–	–
ADKG	M8	31 mm	10 mm	M8x35	•	–	o/r
ADKU	M8	23 mm	10 mm	–	•	–	–
ADKG	M10	43 mm	14 mm	M10x25	•	–	o/r
ADKU	M10	28 mm	14 mm	–	•	–	–
ADKG	M14x1.5	56 mm	20 mm	M14x1.5x40	•	–	–
ADKU	M14x1.5	35 mm	20 mm	–	•	–	–



Base plate eyelet (for tube side)

Type	For cylinder Ø (G)	Installation length (A)	Thickness (B)	Cross hole Ø (C)	Steel	AISI 303/304	AISI 316L/316Ti
AB04	6 mm	4 mm	2.5 mm	2.1 mm	•	–	–
AB07	10 mm	7 mm	4 mm	4.1 mm	•	–	–
AB07	12 mm	7 mm	4 mm	4.1 mm	•	–	–
AB09	15 mm	9 mm	6 mm	6.1 mm	•	–	–
AB11	19 mm	11 mm	10 mm	6.1 mm	•	–	–
AB11	19 mm	11 mm	10 mm	8.1 mm	•	–	–
AB11	23 mm	11 mm	10 mm	8.1 mm	•	–	–
AB11	23 mm	11 mm	10 mm	10.1 mm	•	–	–
AB16	28 mm	16 mm	10 mm	8.1 mm	•	–	–
AB16	28 mm	16 mm	10 mm	10.1 mm	•	–	–
AZ20	40 mm	20 mm	14 mm	14.1 mm	•	•	–

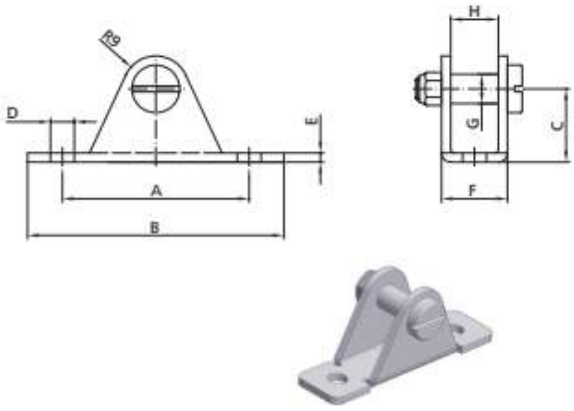


Forks

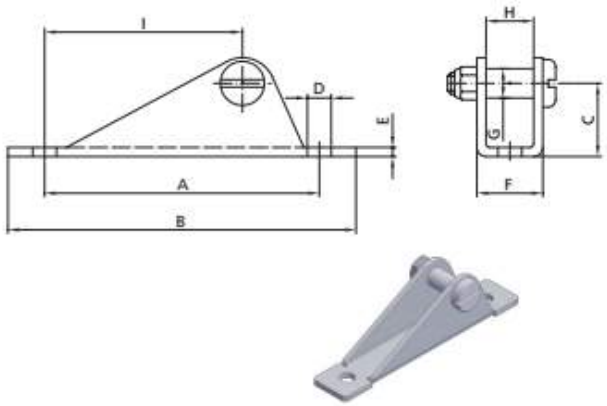
Type	Thread (G)	Size (A x B)	Installation length (C)	Width (E)	Bolt Ø (D)	Steel	AISI 303/304	AISI 316L/316Ti
GA16	M3.5	4x8 mm	16 mm	8 mm	4 mm	•	–	–
GG16*	M3.5	4x8 mm	16 mm	8 mm	4 mm	•	–	–
GA20	M5	5x10 mm	20 mm	10 mm	5 mm	•	•	–
GG20*	M5	5x10 mm	20 mm	10 mm	5 mm	•	•	•
GA32	M8	8x16 mm	32 mm	16 mm	8 mm	•	•	–
GG32*	M8	8x16 mm	32 mm	16 mm	8 mm	•	•	•
GS40	M8	10x20 mm	40 mm	20 mm	10 mm	•	–	–
GA40	M10	10x20 mm	40 mm	20 mm	10 mm	•	•	–
GG40*	M10	10x20 mm	40 mm	20 mm	10 mm	•	•	•
GS32	M10	8x16 mm	32 mm	16 mm	8 mm	•	–	–
GX32	M10x1	8x16 mm	32 mm	16 mm	8 mm	•	–	–
GA56	M14x1.5	14x28 mm	56 mm	27 mm	14 mm	•	•	–
GG56*	M14x1.5	14x28 mm	56 mm	27 mm	14 mm	•	•	•
GA80	M20	20x40 mm	80 mm	40 mm	20 mm	•	–	–
GA99	M24	25x50 mm	99 mm	50 mm	25 mm	•	–	–

* Fork joint steel with ES-bolts, AISI 303/304 with Ben bolts, AISI 316L/316Ti with eyebolts.

BC01



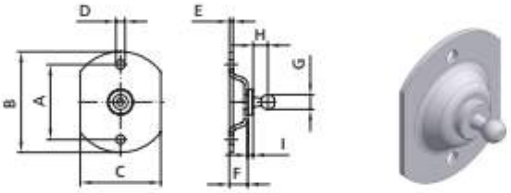
BC04



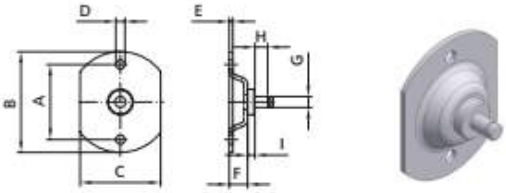
Clevis bracket

Type	A	B	C	D	E	F	G	H	I	Stability	Steel	AISI 316L/Ti
BC01	51 mm	70 mm	20 mm	6.5 mm	2.5 mm	18 mm	8 mm	13 mm	–	1800 N	•	•
BC04	75 mm	95 mm	20 mm	6.5 mm	2.5 mm	18 mm	8 mm	13 mm	54 mm	1800 N	•	•

BA20/K



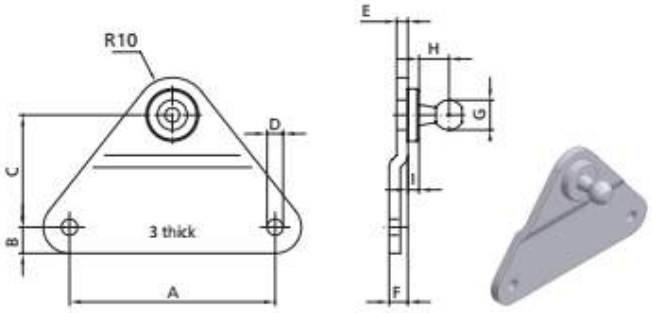
BA20/Z



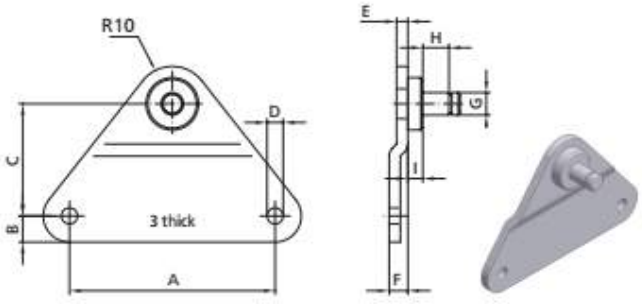
Round bracket

Type	A	B	C	D	E	F	G	H	I	Stability	Steel	AISI 316L/Ti
BA20/K08	41 mm	55 mm	44 mm	5.3 mm	2 mm	10 mm	8 mm	8 mm	3 mm	500 N	•	•
BA20/K10	41 mm	55 mm	44 mm	5.3 mm	2 mm	10 mm	10 mm	9 mm	3 mm	800 N	•	•
BA20/K13	41 mm	55 mm	44 mm	5.3 mm	2 mm	10 mm	13 mm	9.5 mm	3 mm	1200 N	•	•
BA20/Z06	41 mm	55 mm	44 mm	5.3 mm	2 mm	10 mm	6 mm	7 mm	4 mm	500 N	•	•
BA20/Z08	41 mm	55 mm	44 mm	5.3 mm	2 mm	10 mm	8 mm	11 mm	5 mm	1200 N	•	•

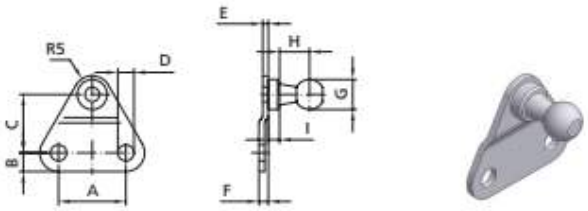
BA01/K



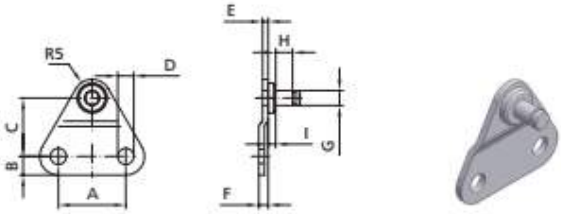
BA01/Z



BB01/K



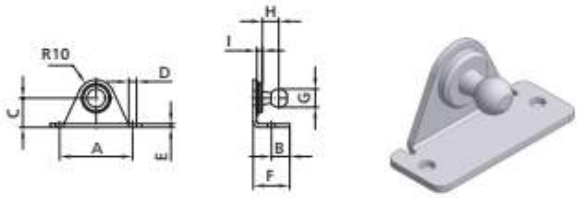
BB01/Z



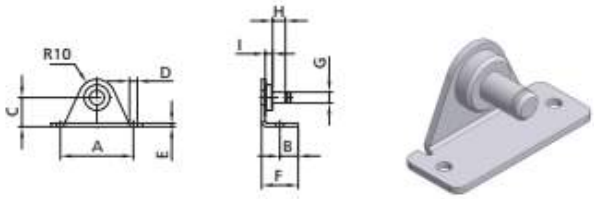
Side bracket

Type	A	B	C	D	E	F	G	H	I	Stability	Steel	AISI 316L/Ti
BB01/K08	18 mm	5 mm	15.5 mm	4.3 mm	1.5 mm	2.5 mm	8 mm	8 mm	3 mm	180 N	•	•
BB01/Z04	18 mm	5 mm	15.5 mm	4.3 mm	1.5 mm	2.5 mm	4 mm	4.5 mm	2 mm	180 N	•	•
BB01/Z06	18 mm	5 mm	15.5 mm	4.3 mm	1.5 mm	2.5 mm	6 mm	6.5 mm	4 mm	180 N	•	•
BA01/K08	55 mm	7 mm	30 mm	5.3 mm	3 mm	5 mm	8 mm	8 mm	3 mm	500 N	•	•
BA01/K10	55 mm	7 mm	30 mm	5.3 mm	3 mm	5 mm	10 mm	8 mm	3 mm	800 N	•	•
BA01/K13	55 mm	7 mm	30 mm	5.3 mm	3 mm	5 mm	13 mm	9.5 mm	3 mm	1200 N	•	•
BA01/Z06	55 mm	7 mm	30 mm	5.3 mm	3 mm	5 mm	6 mm	7 mm	4 mm	500 N	•	•
BA01/Z08	55 mm	7 mm	30 mm	5.3 mm	3 mm	5 mm	8 mm	11 mm	5 mm	1200 N	•	•

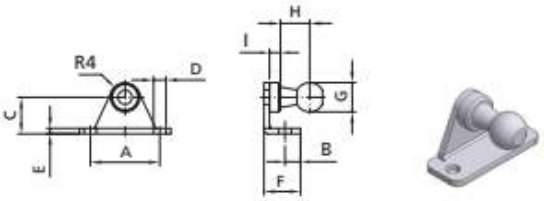
BA30/K



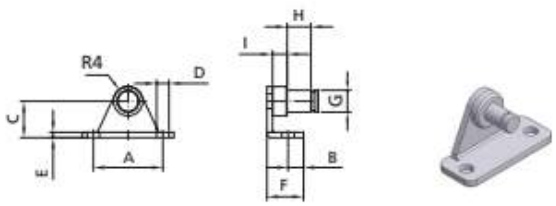
BA30/Z



BB20/K



BB20/Z

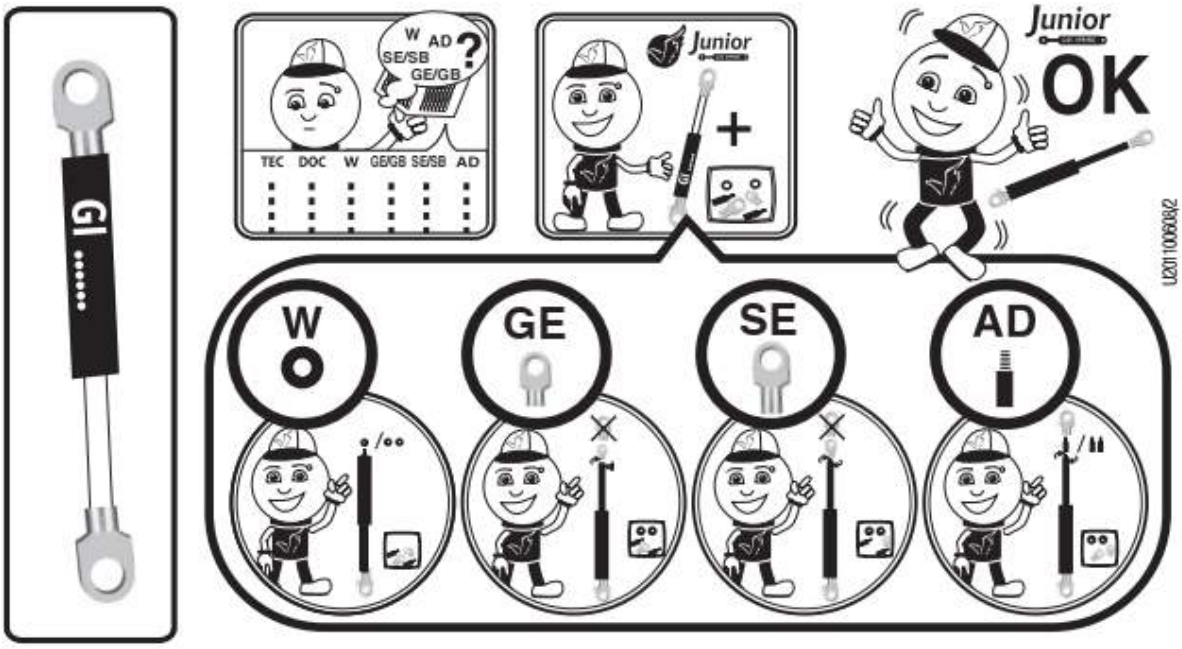


Angular bracket

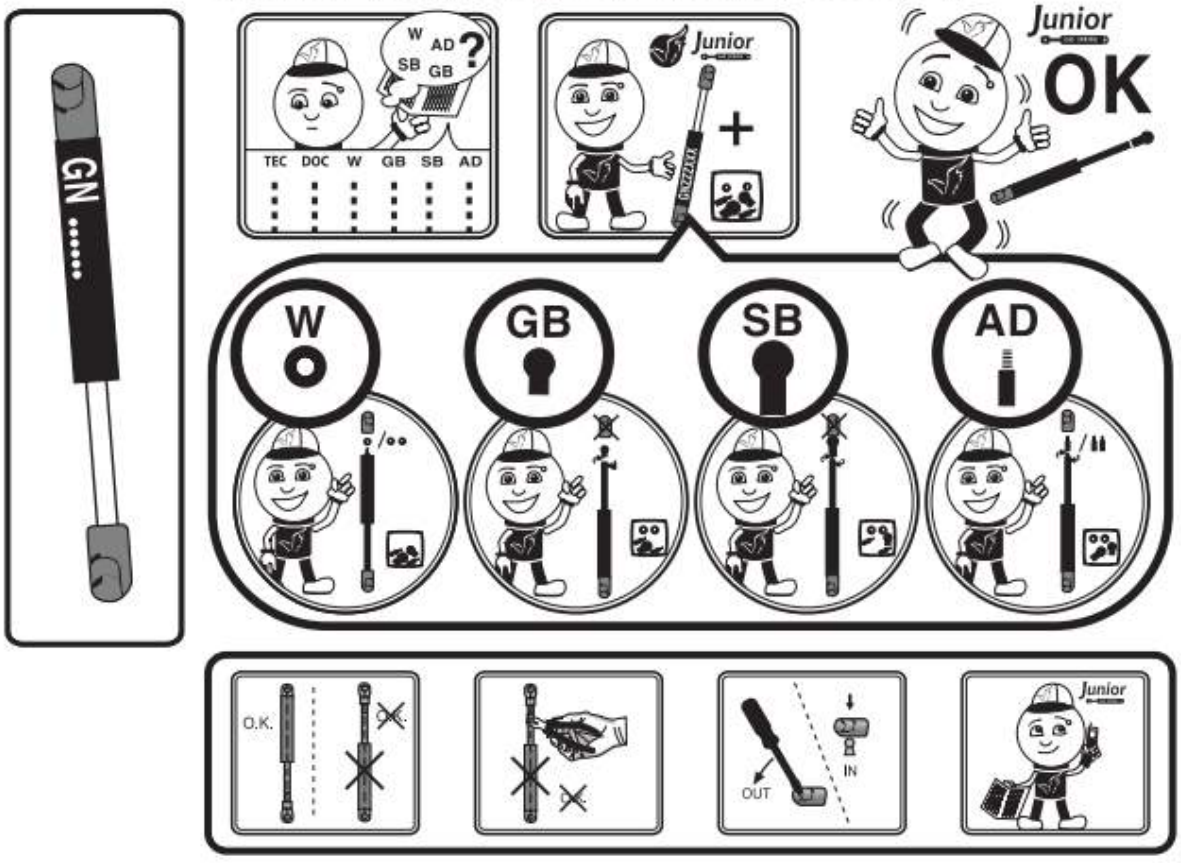
Type	A	B	C	D	E	F	G	H	I	Stability	Steel	AISI 316L/Ti
BB20/K08	19 mm	4.25 mm	10 mm	3.4 mm	1.5 mm	10 mm	8 mm	8 mm	3 mm	180 N	•	•
BB20/Z04	19 mm	4.25 mm	10 mm	3.4 mm	1.5 mm	10 mm	4 mm	4,5 mm	2 mm	180 N	•	•
BB20/Z06	19 mm	4.25 mm	10 mm	3.4 mm	1.5 mm	10 mm	6 mm	7 mm	4 mm	180 N	•	•
BA30/K08	40 mm	10 mm	16 mm	5.3 mm	2 mm	20 mm	8 mm	8 mm	3 mm	500 N	•	•
BA30/K10	40 mm	10 mm	16 mm	5.3 mm	2 mm	20 mm	10 mm	9 mm	3 mm	800 N	•	•
BA30/K13	40 mm	10 mm	16 mm	5.3 mm	2 mm	20 mm	13 mm	9.5 mm	3 mm	1200 N	•	•
BA30/Z06	40 mm	10 mm	16 mm	5.3 mm	2 mm	20 mm	6 mm	7 mm	4 mm	500 N	•	•
BA30/Z08	40 mm	10 mm	16 mm	5.3 mm	2 mm	20 mm	8 mm	11 mm	5 mm	1200 N	•	•

Montaje

G.I. GENERIC INDUSTRIAL EYELET



G.N. GENERIC METAL BALL SOCKET



Kits de fijación

FK025 6P JB

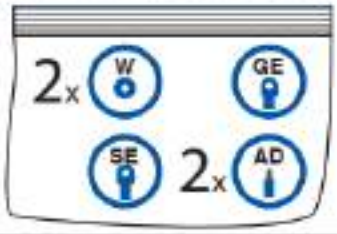
JB SET BALL-BALL

KIT JB RÓTULA-RÓTULA

FK100 6P GE

GENERIC SET EYE-EYE

KIT GENERICO OJO-OJO



FK002 5P E6

KIT 5 PIECES / 5 PIEZAS

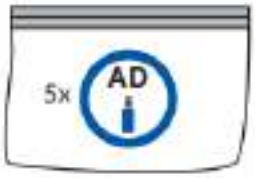
OREJETAS PEQUEÑAS / SMM-M6 / METAL EYELET / SMALL M6-0302

FK003 10P W

ARANDELAS M6 / WASHER M6

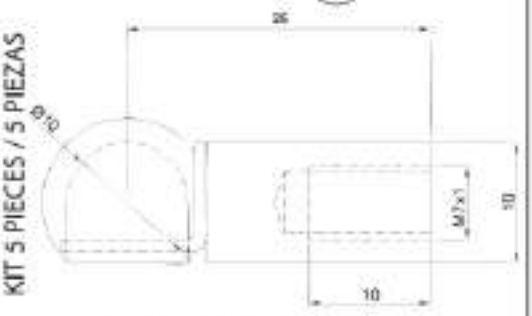
FK300 5P AD

PROLONGADOR M7 / ADAPTER M7



FK004 5P SB

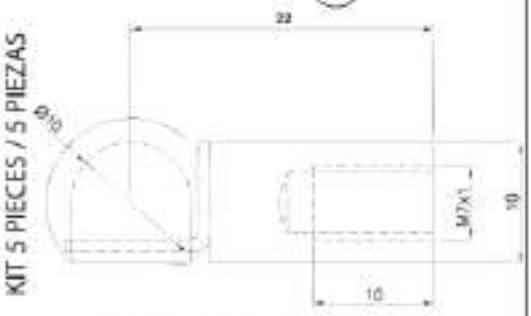
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICAS LARGAS
m7/ SILVER BALL SOCKET LARGE M7

FK005 5P GB

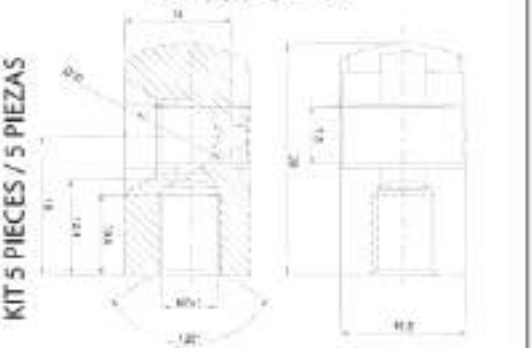
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICAS dorada mediana
m7 / GOLDEN BALL SOCKET medium M7

FK006 5P P7

KIT 5 PIECES / 5 PIEZAS



ROTULA DE PLASTICO M7 /
PLASTIC SOCKET M7

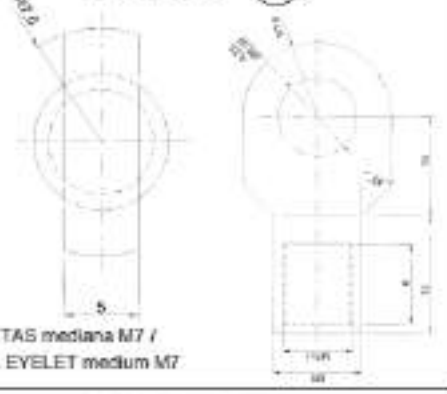
FK007 5P A7

KIT 5 PIECES / 5 PIEZAS

ROTULA DE PLASTICO
ANGULAR M7 / ANGLE SOCKET M7

FK008 5P GE

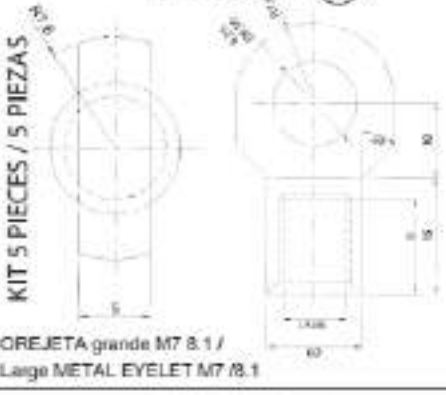
KIT 5 PIECES / 5 PIEZAS



OREJETAS mediana M7 /
METAL EYELET medium M7

FK009 5P SE

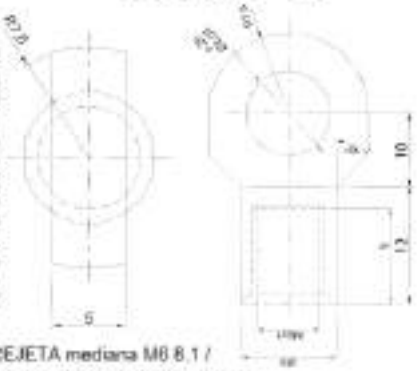
KIT 5 PIECES / 5 PIEZAS



OREJETA grande M7 8.1 /
Large METAL EYELET M7 /8.1

FK010 5P E6

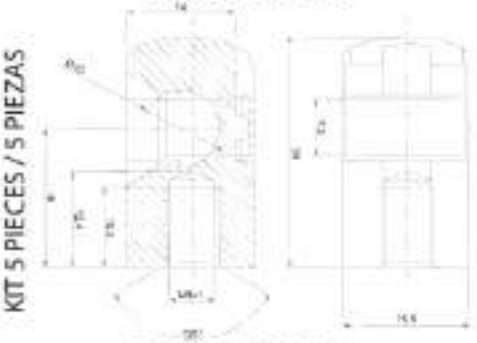
KIT 5 PIECES / 5 PIEZAS



OREJETA mediana M6 8.1 /
medium METAL EYELET M6 /8.1

FK011 5P A6

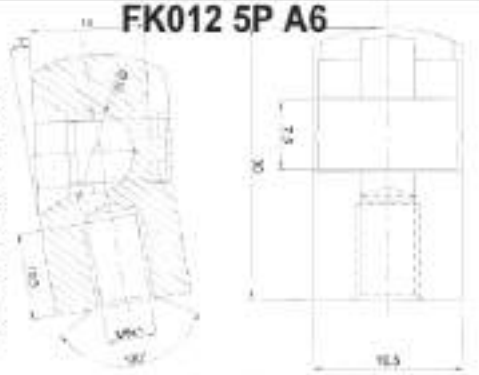
KIT 5 PIECES / 5 PIEZAS



ROTULA PLASTICO M6 /
PLASTIC SOCKET M6-(5151)

FK012 5P A6

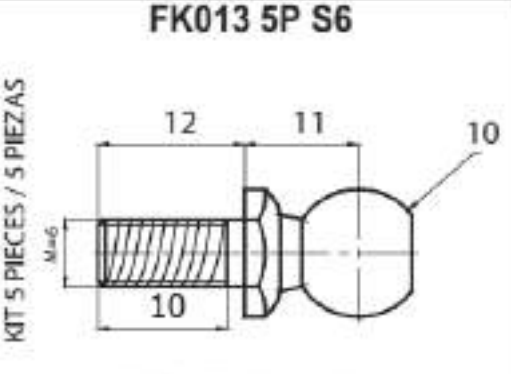
KIT 5 PIECES / 5 PIEZAS



ROTULA ANGULAR M6 / ANGLE
PLASTIC SOCKET M6-(5151AN)

FK013 5P S6

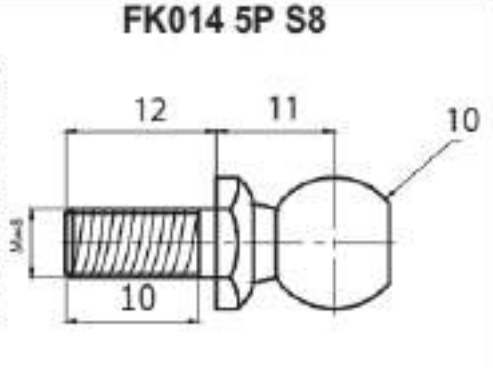
KIT 5 PIECES / 5 PIEZAS



ESPIGA METALICA M6-10MM /
METAL STUD HEXAGONAL M6

FK014 5P S8

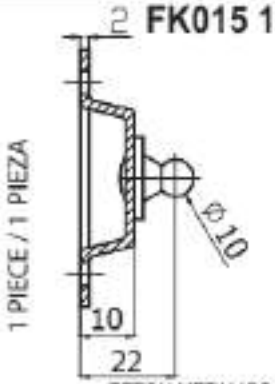
KIT 5 PIECES / 5 PIEZAS



ESPIGA METALICA M8 -10MM /
METAL STUD HEXAGONAL M8

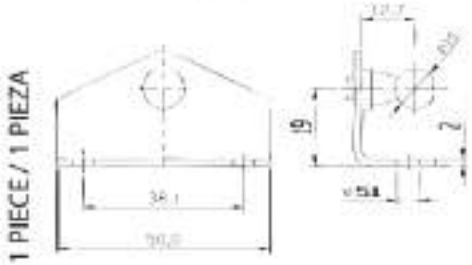
FK015 1P BP

1 PIECE / 1 PIEZA



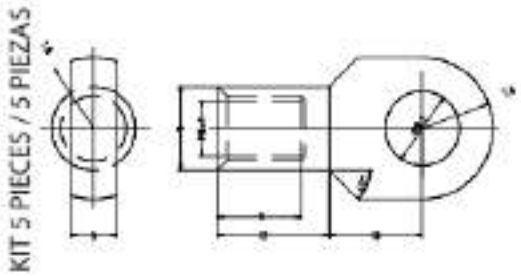
TETON METALICO PARALELO /
PARALEL METAL BRACKET

FK016 1P BA



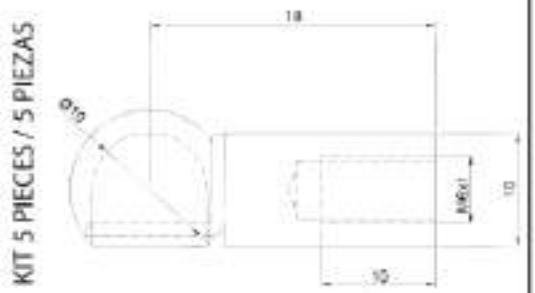
ANCLAJE ANGULAR
METALICO / ANGLE METAL
BRACKET

FK017 5P E6



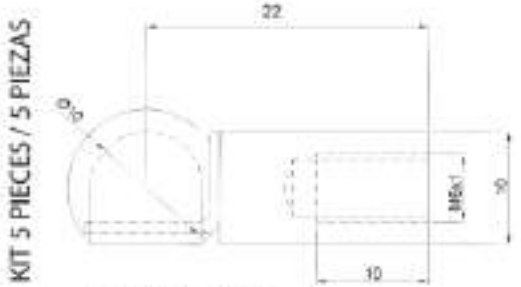
OREJETA MEDIANA M6 Ø9.1 /
METAL EYELET MEDIUM M6 Ø9.1

FK018 5P BS



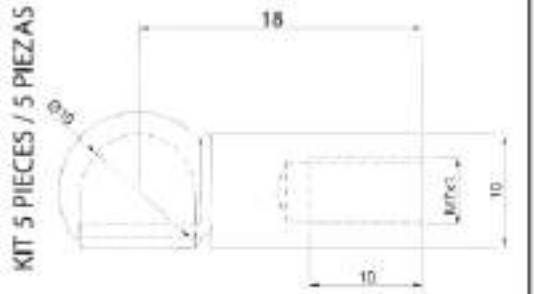
ROTULA METALICA PEQUEÑA
M6 / BALL SOCKET SMALL M6

FK019 5P BS



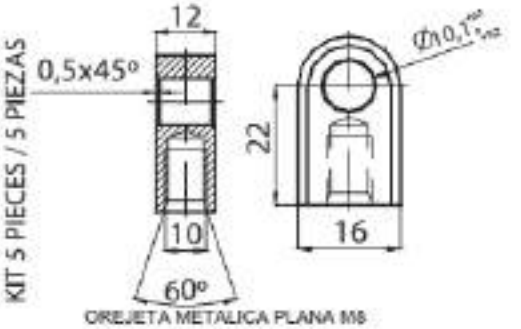
ROTULA METALICA mediana
M6 / BALL SOCKET medium M6

FK020 5P BS



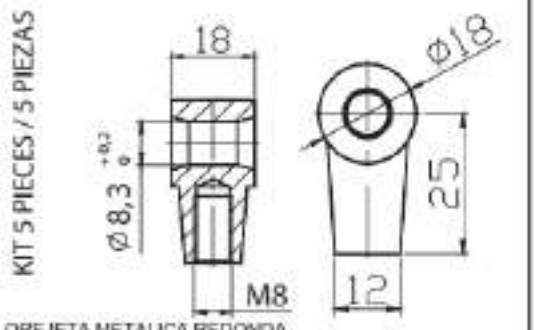
ROTULA METALICA pequeña
M7 / BALL SOCKET small M7

FK021 5P F8



OREJETA METALICA PLANA M8
10MM / FLAT METAL EYELET
M8 / 10

FK022 5P R8



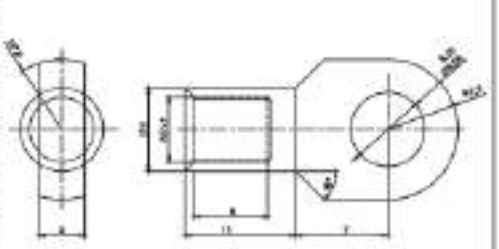
OREJETA METALICA REDONDA
M8 / 8 // ROUNDED METAL EYELET M8 / 8

FK023 5P BS

ROTULA METALICA grande M6 /
BALL SOCKET large M6

FK024 5P E7

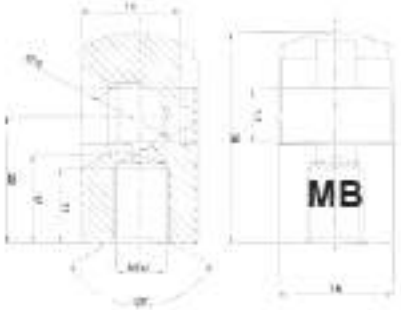
KIT 5 PIECES / 5 PIEZAS



OREJETA PEQUEÑA M7
Ø8.1/SMALL EYELET M7 Ø8.1

FK026 5P MB

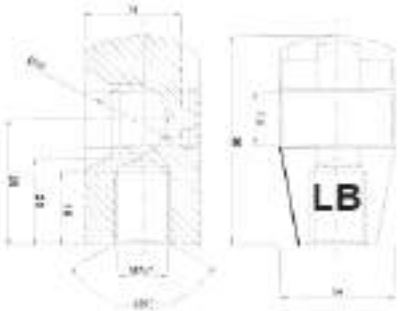
KIT 5 PIECES / 5 PIEZAS



ROTULA DE PLASTICO M7 /
PLASTIC SOCKET M7

FK027 5P LB

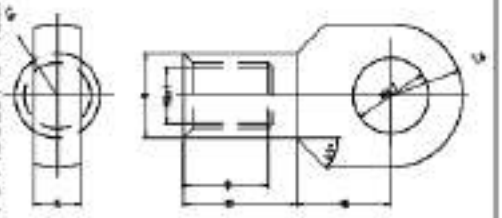
KIT 5 PIECES / 5 PIEZAS



ROTULA DE PLASTICO M7 /
PLASTIC SOCKET M7

FK028 5P E6

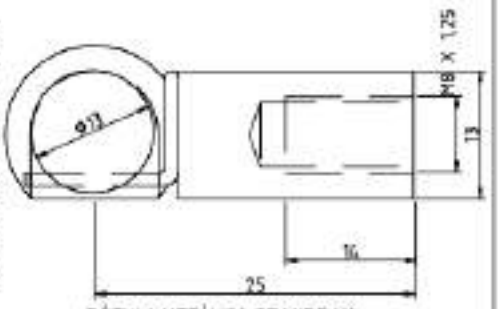
KIT 5 PIECES / 5 PIEZAS



OREJETA MEDIANA M8 Ø8.1/METAL
EYELET MEDIUM M8 Ø8.1

FK029 5P BS

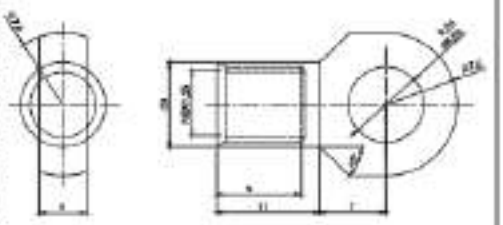
KIT 5 PIECES / 5 PIEZAS



RÓTULA METÁLICA GRANDE M8
Ø13/BALL SOCKET LARGE M8 Ø13

FK030 5P E8

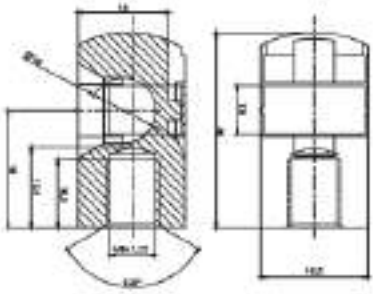
KIT 5 PIECES / 5 PIEZAS



OREJETA PEQUEÑA M8/ METAL
EYELET SMALL M8

FK031 5P P8

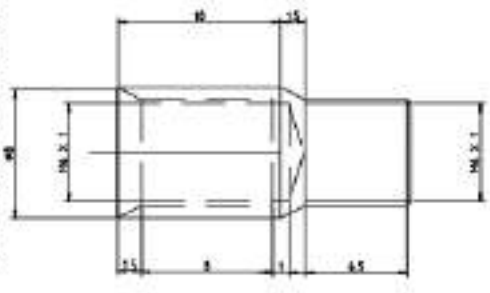
KIT 5 PIECES / 5 PIEZAS



RÓTULA DE PLÁSTICO M8/ PLASTIC
SOCKET M8

FK032 5P AD

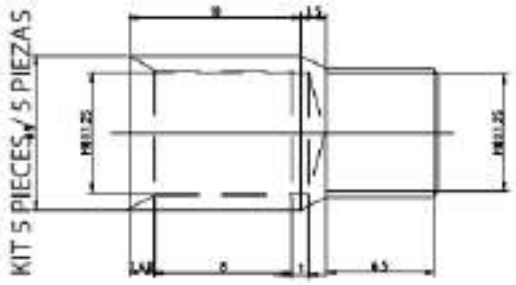
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M8/ ADAPTER M8

FK033 5P AD

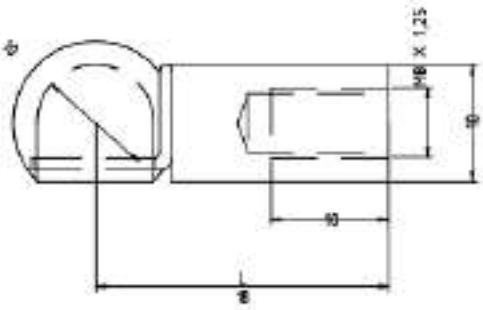
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M8/ ADAPTER M8

FK034 5P BS

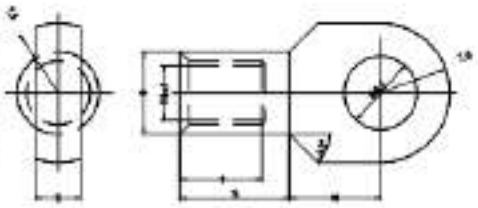
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA PEQUEÑA M8 /
BALL SOCKET SMALL M8

FK035 5P E6

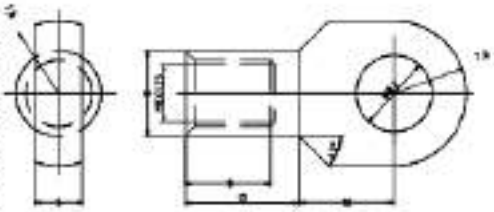
KIT 5 PIECES / 5 PIEZAS



OJAL LARGO 25MM M8/ METAL
EYELET LARGE 25MM M8

FK036 5P E8

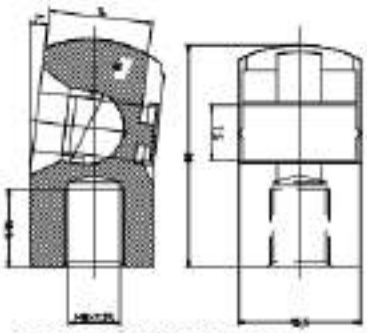
KIT 5 PIECES / 5 PIEZAS



OJAL MEDIANO 22MM M8/ METAL
EYELET MEDIUM 22MM M8

FK037 5P A8

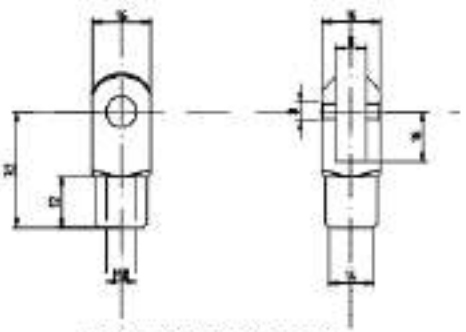
KIT 5 PIECES / 5 PIEZAS



ROTULA PLÁSTICO ANGULAR
M8/ANGLE SOCKET M8

FK038 5P U8

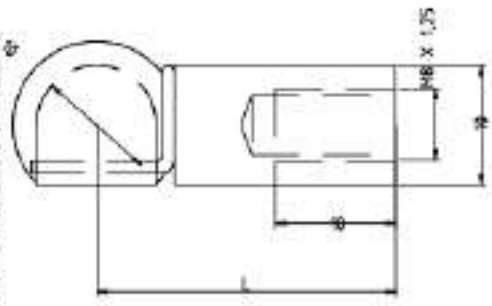
KIT 5 PIECES / 5 PIEZAS



HORQUILLA DOBLE 32MM M8/
DOUBLE FORK 32MM M8

FK039 5P BS

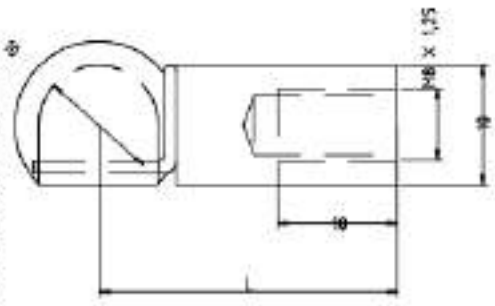
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA MEDIANA 22MM
M8 / BALL SOCKET MEDIUM 22MM M8

FK040 5P BS

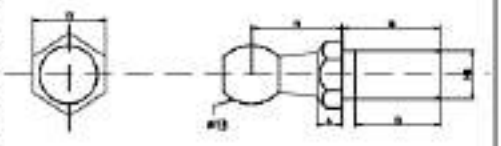
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA LARGO 25MM M8
/ BALL SOCKET LARGE 25MM M8

FK041 5P S8

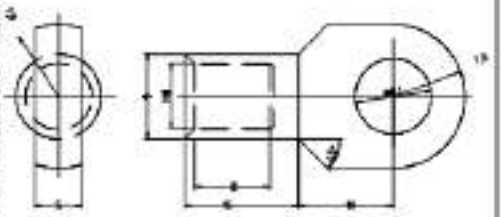
KIT 5 PIECES / 5 PIEZAS



ESPIGA METALICA M8 - Ø13/ METAL
STUD HEXAGONAL M8 - Ø13

FK042 5P E8

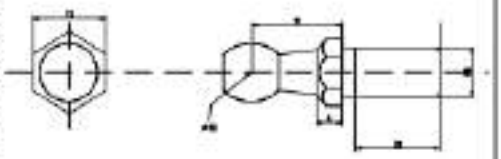
KIT 5 PIECES / 5 PIEZAS



OJAL LARGO 25MM M8/ METAL
EYELET LARGE 25MM M8

FK043 5P E8

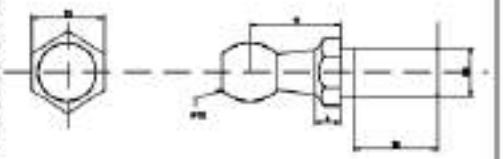
KIT 5 PIECES / 5 PIEZAS



ESPIGA METALICA M8 - Ø10/ METAL
STUD HEXAGONAL M8 - Ø10 - 20MM

FK044 5P S8

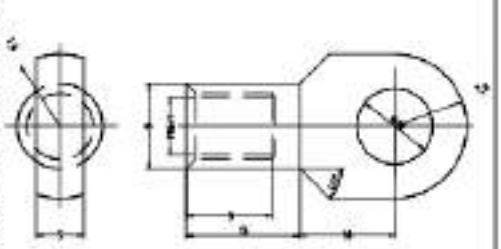
KIT 5 PIECES / 5 PIEZAS



ESPIGA METALICA M8 - Ø10/ METAL
STUD HEXAGONAL M8 - Ø10 - 30MM

FK045 5P E10

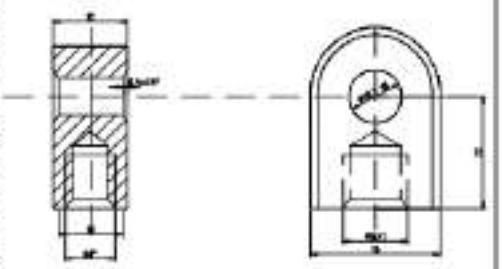
KIT 5 PIECES / 5 PIEZAS



OREJETA GRANDE M8 Ø10.0/ METAL
EYELET LARGE M8 Ø10.0

FK046 5P E10

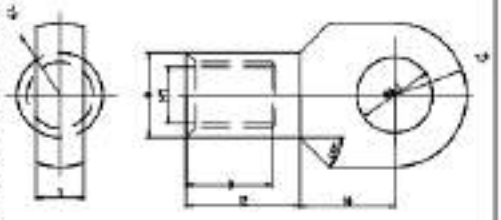
KIT 5 PIECES / 5 PIEZAS



OREJETA METÁLICA PLANA M8 Ø10/
FLAT METAL EYELET M8 Ø10

FK047 5P E6

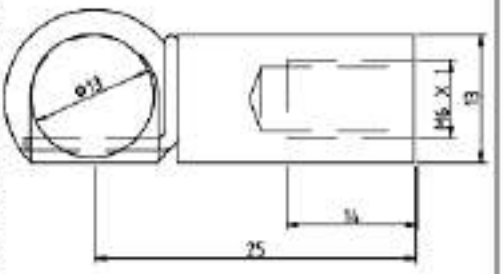
KIT 5 PIECES / 5 PIEZAS



OREJETA MEDIANA M7 Ø8,1/ METAL
EYELET MEDIUM M7 Ø8,1

FK048 5P S8

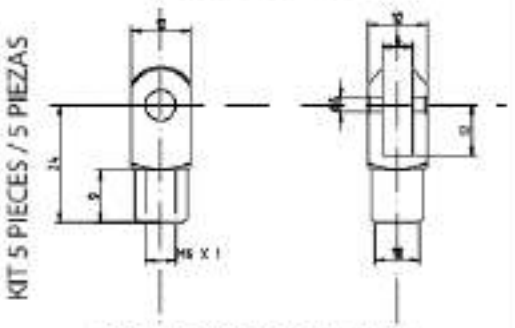
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA GRANDE M8
BOLA Ø13/ BALL SOCKET M8 Ø13

FK049 5P U6

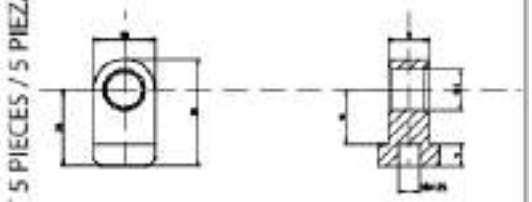
KIT 5 PIECES / 5 PIEZAS



OREJETA DOBLE M6/ DOUBLE FORK M6

FK050 5P E10

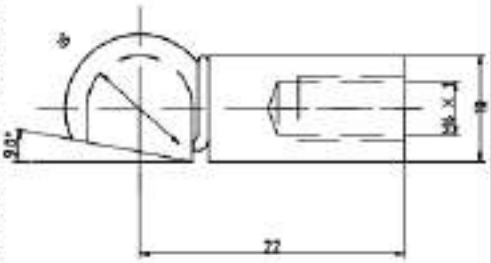
KIT 5 PIECES / 5 PIEZAS



OREJETA METALICA PLANA M8 Ø10,1 20MM/ FLAT METAL EYELET M8 Ø10,1 20MM

FK051 5P BA

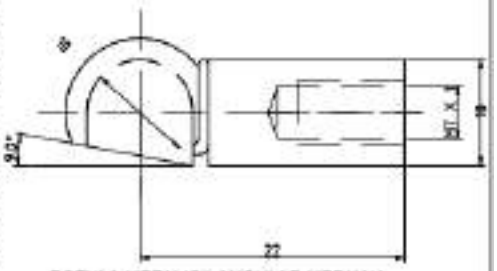
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA ANGULAR MEDIANA M6/ ANGLE BALL SOCKET MEDIUM M6

FK052 5P BA

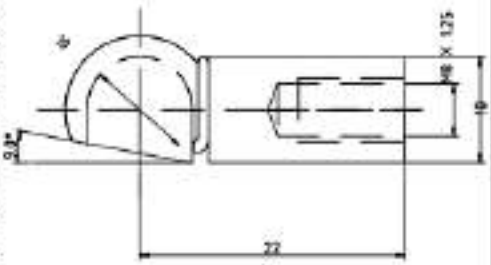
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA ANGULAR MEDIANA M7/ ANGLE BALL SOCKET MEDIUM M7

FK053 5P BA

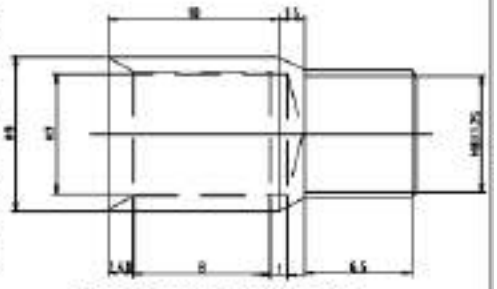
KIT 5 PIECES / 5 PIEZAS



ROTULA METALICA ANGULAR MEDIANA M8/ ANGLE BALL SOCKET MEDIUM M8

FK054 5P AD

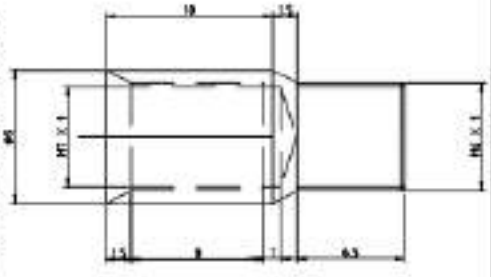
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M7-M8/ ADAPTER M7-M8

FK055 5P AD

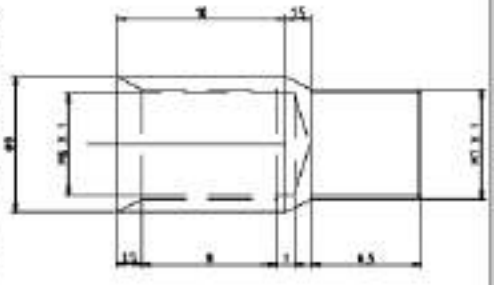
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M7-M6/ ADAPTER M7-M6

FK056 5P AD

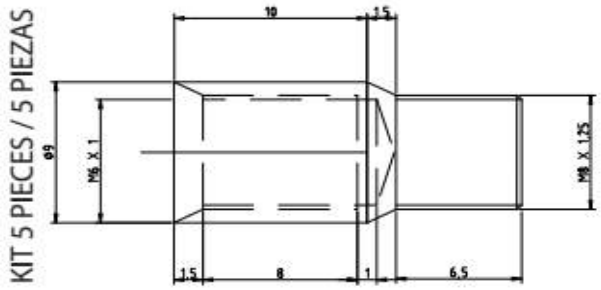
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M6-M7/ ADAPTER M6-M7

FK057 5P AD

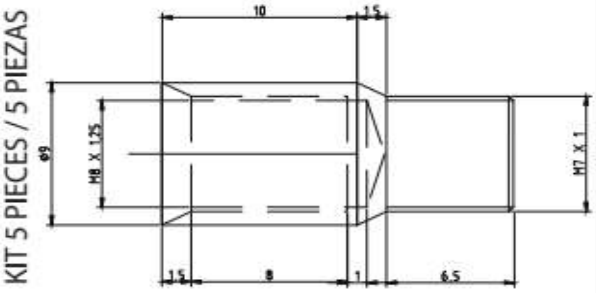
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M6-M8/ ADAPTER M6-M8

FK058 5P AD

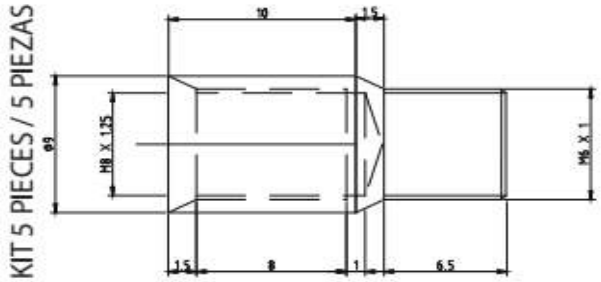
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M8-M7/ ADAPTER M8-M7

FK059 5P AD

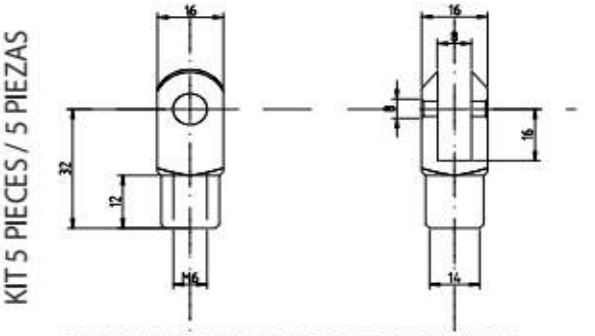
KIT 5 PIECES / 5 PIEZAS



PROLONGADOR M8-M6/ ADAPTER M8-M6

FK060 5P U6

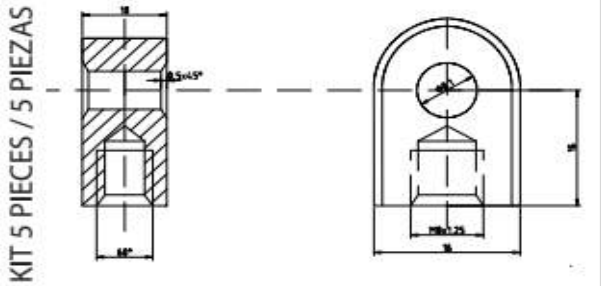
KIT 5 PIECES / 5 PIEZAS



OREJETA DOBLE M6 Ø8 / DOUBLE FORK M6 Ø8

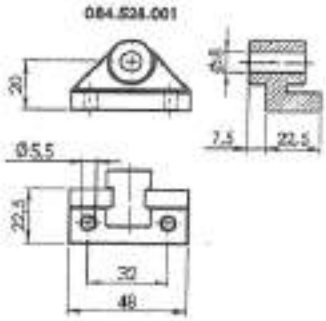
FK061 5P E8

KIT 5 PIECES / 5 PIEZAS

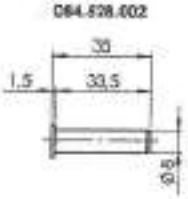


OREJETA METÁLICAPLANA M8 Ø8 / FLAT METAL EYELET M8 Ø8

6 8 10 SUPPORTO PER MOLLA A GAS - *GAS SPRING SUPPORT*



CODICE *CODE*	MATERIALE *MATERIAL*	DESCRIZIONE *DESCRIPTION*	PESO g *WEIGHT g*
084.528.001	Poliammide grigia *Grey polyamide*	Supporto molla *Spring support*	21
084.528.002	Acciaio zincato *Galvanized steel*	Perno supporto *Pin support*	14



6 8 10 SUPPORTO PER MOLLA A GAS - *GAS SPRING SUPPORT*

MATERIALE/*MATERIAL* Poliammide rinforzato - *Reinforced polyamide*

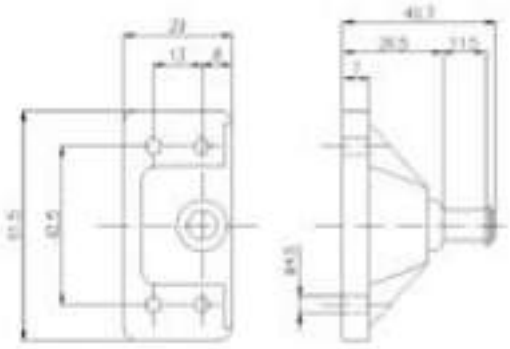
CODICE *CODE*	DESCRIZIONE *DESCRIPTION*	PESO g *WEIGHT g*
084.528.003	Kit supporto molla completo di perno Ø 6 mm (indicato per molla a gas di piccole dimensioni) *Spring support kit completed of pin Ø 6 mm*	18

SUPPORTO PER MOLLA A GAS - *GAS SPRING SUPPORT*

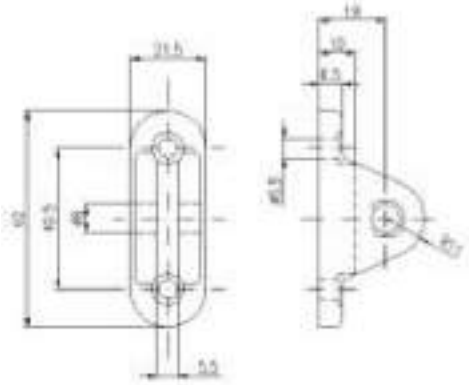
CODICE *CODE*	MATERIALE *MATERIAL*	DESCRIZIONE *DESCRIPTION*
084.528.003	Poliammide rinforzato *Reinforced polyamide*	Kit supporto molla completo di perno Ø6 mm (indicato per molle a gas di piccole dimensioni) *Spring support kit completed of pin Ø6 mm (indicate for gas springs of small dimensions)*

SUPPORTO PER MOLLA A GAS - *GAS SPRING SUPPORT*

CODICE *CODE*	MATERIALE *MATERIAL*	DESCRIZIONE *DESCRIPTION*
084.528.004	Poliammide rinforzato *Reinforced polyamide*	Kit supporto molla completo di perno Ø8 mm *Gas spring support kit with pin Ø8 mm*



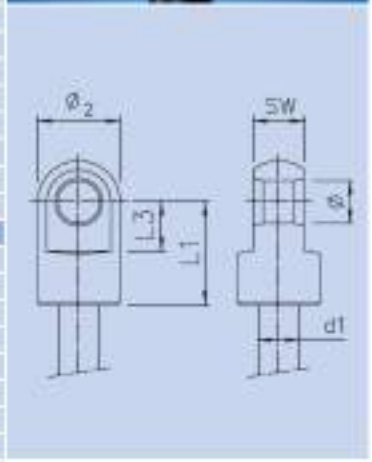
084.528.004



084.528.003

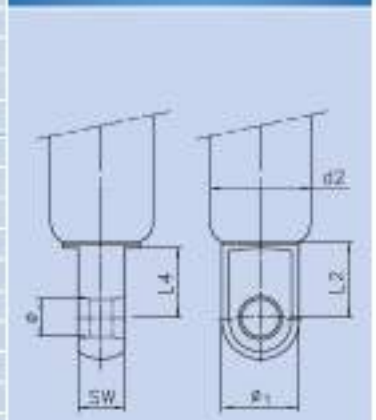
Gelenkaugen Kolbenseite | Hinge eyes piston rod side

Code	SW	B	L_1	L_2	Θ_2	d_1	Gewinde thread	Gasdruck-federn Gas springs	Blockierbare Gasfedern Lockable gas springs	Gaszugfedern Gas traction springs
G1	3,0	4,1	11,0	5,0	7,0	3,0	M3	•		
H1	3,0	4,1	12,0	6,0	8,0	4,0	M4	•		
D1	3,0	6,2	16,0	9,0	11,0	6,0	M5	•		•
F1	6,0	6,2	16,0	9,0	10,0	6,0	M5	•		•
E1	3,0	8,2	16,0	9,0	11,0	6,0	M5	•		•
D2	5,0	6,2	23,0	11,5	16,0	8,0 - 10,0	M8	•		•
E2	5,0	8,2	23,0	12,5	16,0	8,0 - 10,0	M8	•		•
E2/KL	5,0	8,2	23,0	11,5	19,0	8,0 - 10,0	ø8	•		•
A1	10,0	8,2	20,0	20,0	16,0	8,0 - 10,0	M8,M10	•		•
H2	10,0	6,2	20,0	20,0	16,0	8,0 - 10,0	M8	•		•
M2	10,0	10,2	20,0	20,0	16,0	8,0 - 10,0	M8	•		•
J2	8,0	8,2	20,0	10,0	16,0	8,0 - 10,0	M8	•		•
K2	12,0	8,2	20,0	10,0	16,0	8,0 - 10,0	M5, M8	•		•
W2	8,0	8,2	27,0	12,0	16,0	8,0 - 10,0	M8	•		•
G2	8,0	6,2	20,0	10,0	16,0	8,0 - 10,0	M8	•		•
A2	18,0	8,2	25,0	25,0	18,0	8,0 - 14,0	M8,M10	•		•
B2	18,0	10,2	25,0	25,0	18,0	8,0 - 14,0	M8,M10	•		•
X3	14,0	8,2	20,0	20,0	19,0	8,0 - 14,0	M8,M10	•		•
B1	12,0	8,2	25,0	12,0	19,0	10,0 - 14,0	M8,M10	•		•
L2	12,0	10,2	25,0	12,0	19,0	10,0 - 14,0	M8,M10	•		•
N2	10,0	8,2	30,0	16,0	19,0	12,0 - 14,0	M10	•		•
Z2	12,0	12,2	25,0	11,0	19,0	12,0 - 14,0	M8,M10	•		•
Z1	10,0	8,5	30,0	16,0	19,0	12,0 - 14,0	M10	•		•
M2	10,0	10,2	30,0	16,0	19,0	10,0 - 14,0	M10	•		•
Q2	10,0	10,5	30,0	16,0	19,0	12,0 - 14,0	M10	•		•
C1	14,0	14,2	40,0	20,0	20,0	20,0	M14	•		•



Gelenkaugen Zylinderseite | Hinge eyes cylinder side

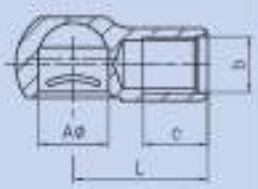
Code	SW	B	L_2	L_4	Θ_1	Θ_2		Gasdruck-federn Gas springs	Blockierbare Gasfedern Lockable gas springs	Gaszugfedern* Gas traction springs*
G1	3,0	4,1	12,0	11,0	7,0	8,0		•		
H1	3,0	4,1	8,0	7,0	8,0	12,0		•		
D2	5,0	6,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	
E2	5,0	8,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	
D1	3,0	6,2	12,0	10,5	11,0	15,0		•		
E1	3,0	8,2	12,0	10,5	11,0	15,0		•		
F2	10,0	6,2	9,5	9,5	15,0	19,0		•	•	
F2	10,0	8,2	12,0	11,0	17,0	22,0		•	•	
A1	10,0	8,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	•
H2	10,0	6,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	
M2	10,0	10,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	
G2	8,0	6,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	
J2	8,0	8,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0		•	•	•
K2	12,0	8,2	16,0	15,0	17,0	22,0		•	•	
B1	12,0	8,2	13,0	12,0	20,0	28,0		•	•	•
L2	12,0	10,2	13,0	12,0	20,0	28,0		•	•	•
N2	10,0	8,2	13,0	12,0	20,0	28,0		•	•	•
V2	6,0	8,2	13,0	12,0	20,0	28,0		•	•	
Z2	12,0	12,2	13,0	12,0	20,0	28,0		•	•	•
A1	10,0	8,2	16,0	15,0	20,0	28,0		•	•	
Z1	10,0	8,5	16,0	15,0	20,0	28,0		•	•	
M2	10,0	10,2	16,0	15,0	20,0	28,0		•	•	
Q2	10,0	10,5	16,0	15,0	20,0	28,0		•	•	
M3	8,0	10,2	16,0	15,0	16,0	28,0		•	•	
N3	8,0	8,2	16,0	15,0	20,0	28,0		•	•	
K3	12,0	9,2	16,0	15,0	20,0	28,0		•	•	



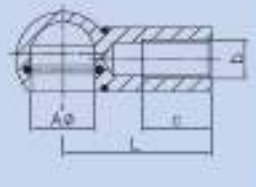
*Gegebenenfalls geeignete Gewindezapfen auswählen, sofern jedes gewünschte schraubbare Anschlussteil verwendet werden kann. *If possible use a suitable thread, so the preferred connection part can be used

Kugelpfannen mit Sicherheitsbügel | Ball sockets incl. fastener

Code	Ae	L mm	b*c mm	Material
W5	10	19	M6*9, M8*9	Stahl *steel*
W6	10	18,5	M8*9	Kunststoff *plastic*
W7	10	18,5	M5*5	Kunststoff *plastic*



F5	8	16	M4*6	Stahl *Steel*
J3	8	22	M5*10,2	
W4	10	15	M5*5	
F3	10	19	M8*12	
P3	13	30	M8*14, M8*14	
W3	16	35	M10*15,5	

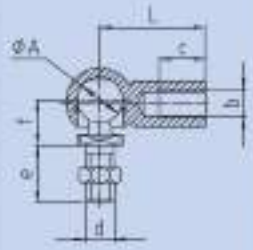


Kugelbolzen | Bolts

Art-Nr. *art. no.*	Ae	d*e mm	l mm	Material
KB08M4*10.2BL	8	M4*10,2	9	Stahl verzinkt *steel, zinc plated*
KB08M5*10.2BL	8	M5*10,2	9	
KB08M5*17BL	8	M5*17	9	
KB10S/16*25.4BL	10	5/16 - 18UNC-2A*25	12,7	
KB10M6*13BL	10	M8*13	12	
KB10M8*16.5BL	10	M8*16,5	12	
KB10M8*20BL	10	M8*20	12	
KB13M8*16.5BL	13	M8*16,5	13	
KB16M10*20BL	16	M10*20	16	

Winkelgelenke | Elbow joints

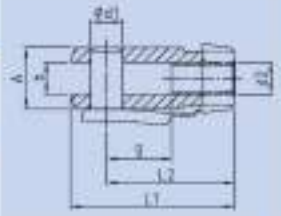
Code	Ao	L mm	b*c mm	d*e mm	f mm	Material	Mutter nut
D3	8	18	M3*6	M3*10,2	9	Stahl verzinkt *steel, zinc plated*	●
F4	8	18	M4*6	M4*10,2	9		●
B3	8	22	M5*10	M5*10,2	9		●
C3	10	15	M5*6	M8*13	12		
J4	10	25	M6*11,5	M8*12,5	11		●
D3	10	19	M8*9	M8*13	12		
A9	10	17	B 7*9	M8*13	12		
Y9	10	19	M8*9	M8*13	12		●
H3	10	19	M8*9	5/16-18UNC-2A	13		●
A3	13	30	M8*14	M8*16,5	13		●
A4	16	35	M10*15,5 / M8 *15,5	M10*20	16		●
B4*	19	45	M14*1,5*21,5	M14*1,5*28	20		●



*Achtung: nur für Ausschubkräfte bis max. 3000 N geeignet! *Attention: only suitable for extension forces up to max. 3000 N!

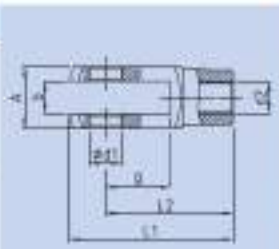
Gabelköpfe mit Federbolzen | Clevises with clip bolts

Code	ø d1 mm	g mm	A mm	b mm	L1 mm	L2 mm	ø d2 mm	Material
N4	4	8	8	4	21	16	M4	Stahl verzinkt *steel, zinc plated*
G5	5	10	10	5	26	20	M5	
C5	8	16	16	8	42	32	M8	
D9	10	20	20	10	52	40	M10	
L5	14	28	27	14	72	56	M14*1,5	



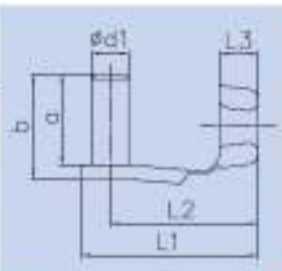
Gabelköpfe ohne Federbolzen | Clevises without clip bolts

Code	ø d1 mm	g mm	A mm	b mm	L1 mm	L2 mm	ø d2 mm	Material
Q5	4	8	8	4	21	16	M3	Stahl verzinkt *steel, zinc plated*
M4	4	8	8	4	21	16	M4	
E5	5	10	10	5	26	20	M5	
A5	8	16	16	8	42	32	M8	
B9	10	20	20	10	52	40	M10	
H5	14	28	27	14	72	56	M14*1,5	
M5	25	50	50	25	132	100	M24*2	



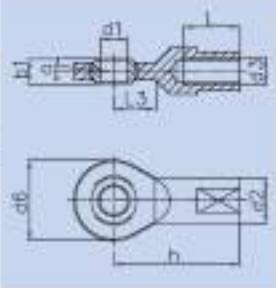
Federklappbolzen | Clip bolt

Code	ø d1 mm	g mm	a mm	b mm	L1 mm	L2 mm	L3 mm	Material
P4	4	8	9,5	11	19	15	4,5	Stahl verzinkt *steel, zinc plated*
F5	5	10	12	13,5	23	19	5,5	
B5	8	16	19	21,5	37	30	8	
C9	10	20	23	26	45	36	10	
J5	14	28	31	34	62	52	14	



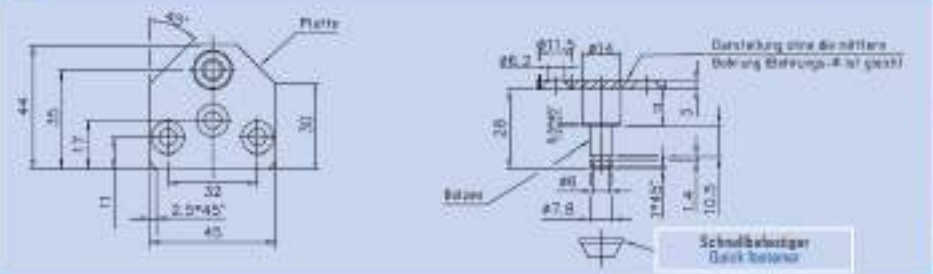
Gelenkköpfe | Hinge heads

Code	α	b1 mm	d1 mm	d2 mm	d3	d5 mm	h mm	L mm	L3 mm	Material
A7	8°	8	8	13	M8	23	36	16	12	Stahl verzinkt *steel, zinc plated*
A8	6°	9	10	16	M10	28	43	20	13	
C4	6,5°	9	6	10	M6	20	30	12	11	
C8	7,5°	19	14	20	M14*1,5	36	57	25	19	
M8	15°	31	25	30	M24*2	60	94	42	30	

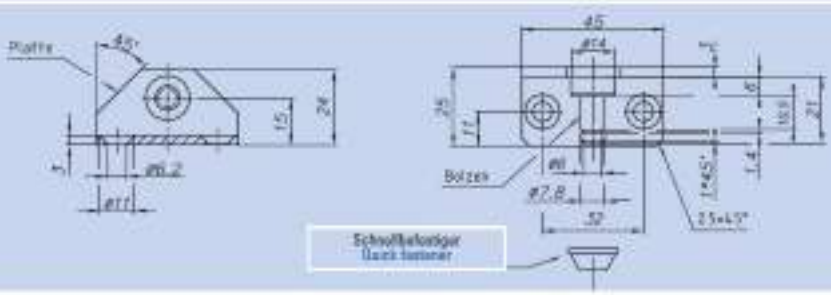


Beschläge | Brackets

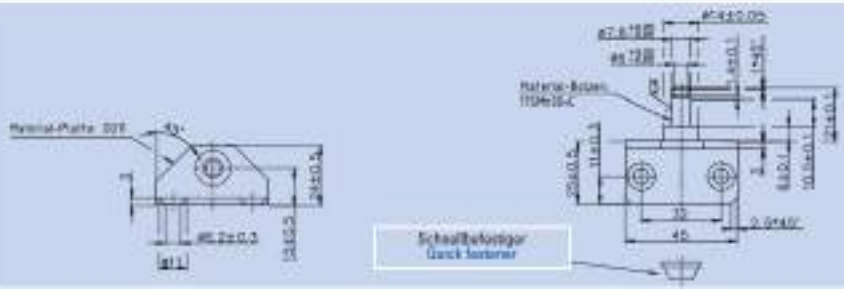
900 BA1 SB



900 BA2 SB



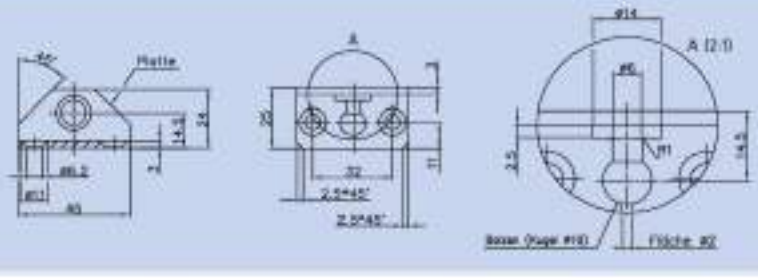
900 BA5 SB



900 BA3

geeignet für Kugelpfannen mit Ø 10mm

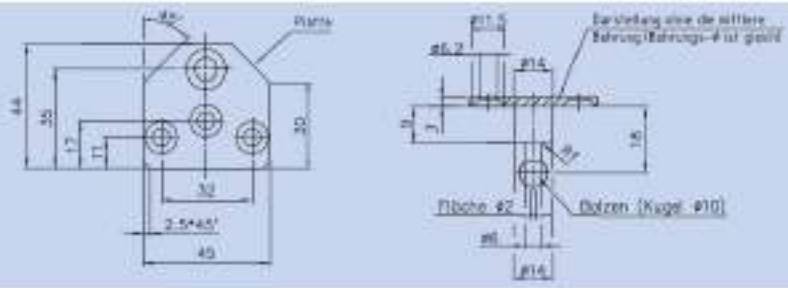
Suitable for ball sockets with Ø 10mm



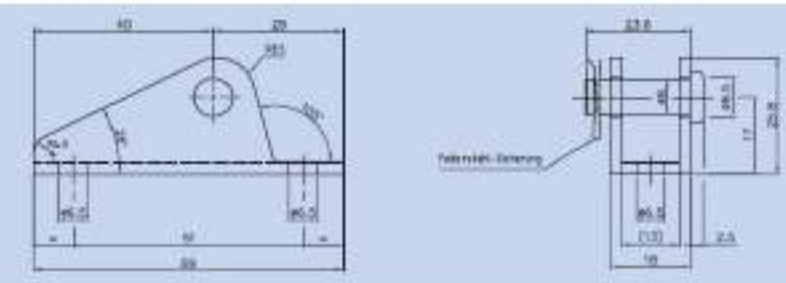
900 BA4

geeignet für Kugelpfannen mit Ø 10mm

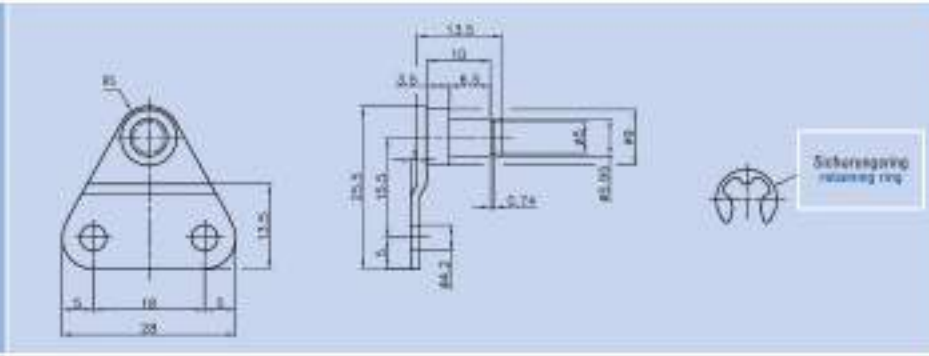
Suitable for ball sockets with Ø 10mm



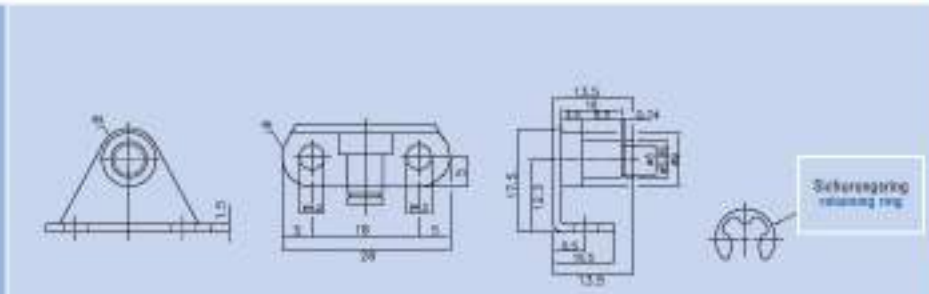
900BA6BO



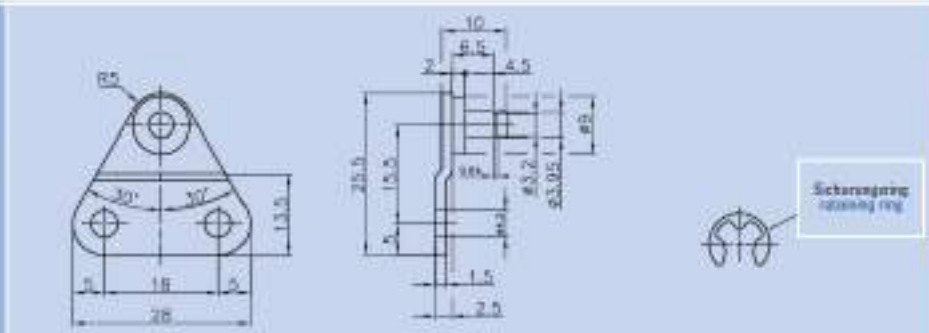
900 BA12SR



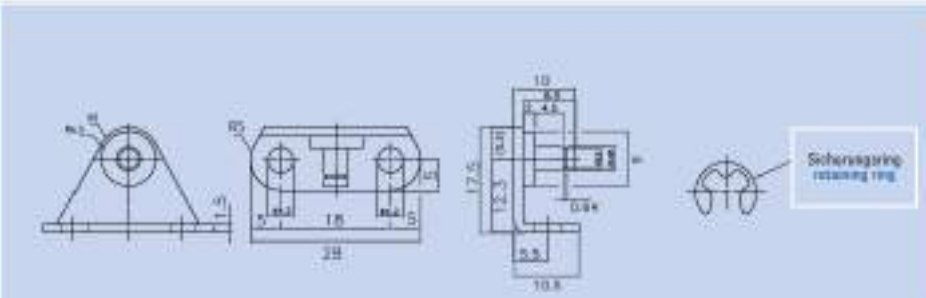
900 BA14SR



900 BA20SR

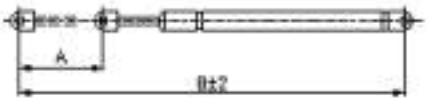


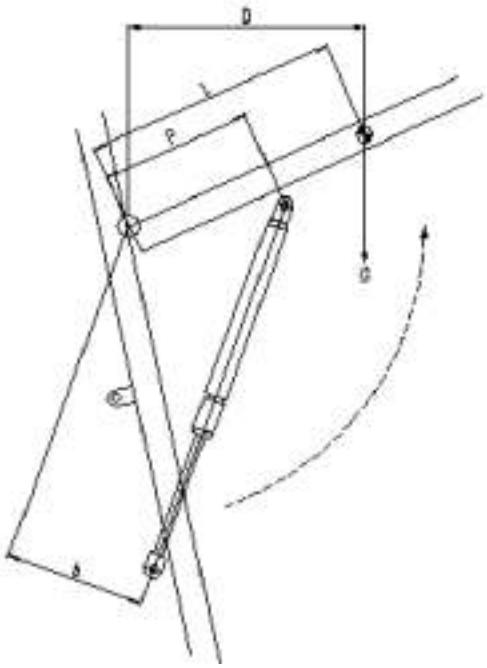
900 BA21SR



Verfügbare Ablaßschrauben für Gasfedern mit Ventil | Available release screws for gas springs with valve

Artikel-Nr. Art.-No.	für Gewinde for thread	Zylinder Cylinder Ø mm
XXAS15MV0	M5 x 5	15
XXAS19MN0	M8 x 8	19 & 22
XXAS22MM0	M10 x 13	22
XXAS28MN0	M8 x 8	28
XXAS28MM0	M10 x 13	28
XXAS40MN0	M10 x 13	40
XXAS40MZ0	M14 x 1.5 x 15	40





Calcolo per il montaggio di una molla a gas
Theory for the assembly of a gas spring

Definizione della forza di estensione F1 [N] a 20° C
Definition of the extension force F1 [N] a 20° C

$$F_1 = \frac{G \times D}{b \times n} \times 13 \text{ [N]}$$

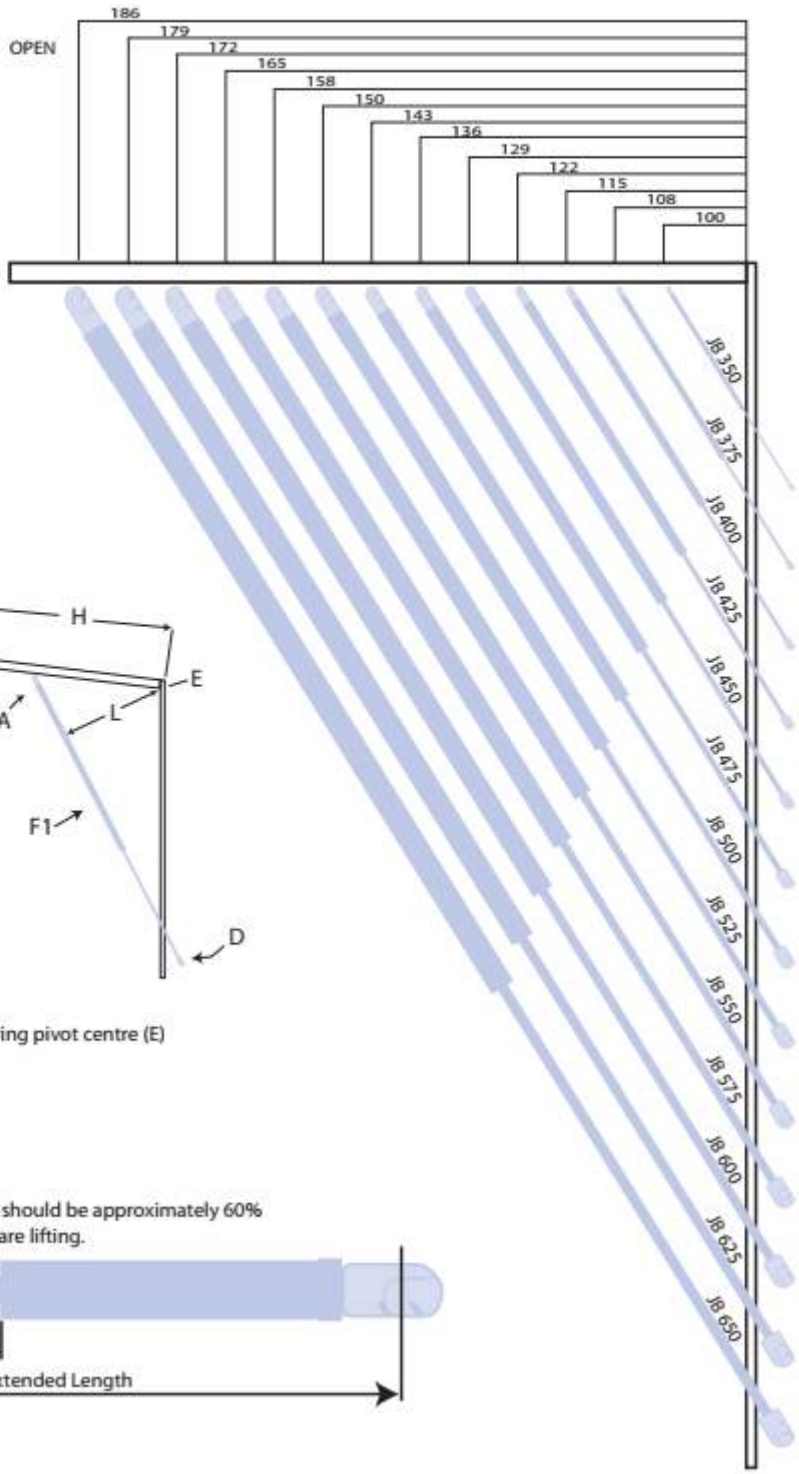
G = Peso del portellone in Kg - *Hatch weight in Kg*
L = Distanza tra il baricentro ed il punto di rotazione in mm
Distance beetwen the centre of gravity and the rotation point in mm
b = Braccio di leva utile della molla a gas in mm, portellone aperto
Useful lever arm of the gas spring in mm, open match
13 = Coefficiente di conversione kg - N + riserva di sicurezza
Conversion coefficient kg - N + safety reserve
P = Fissaggio del portellone ca.2/3 L - *Match clamping ca.2/3 L*
n = Numero delle molle a gas (Standard: n = 2)
Number of the gas springs (Standard: n = 2)
D = Braccio di leva utile della forza di gravità in mm, portellone aperto
Useful lever arm of the force of gravity in mm, open match

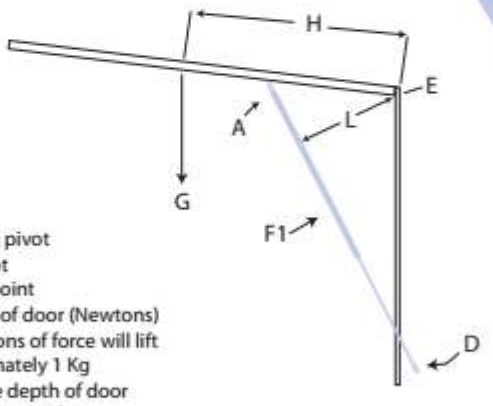
Esempio - *Example*:
G = 30kg, D = 400mm, b = 200mm, n = 2

$$F_1 = \frac{30 \times 400}{200 \times 2} \times 13 = 390 \text{ N}$$

INSTALLATION CALCULATION

SPECIAL NOTE:
Position the centre of the bracket or ball end you are using at this length.

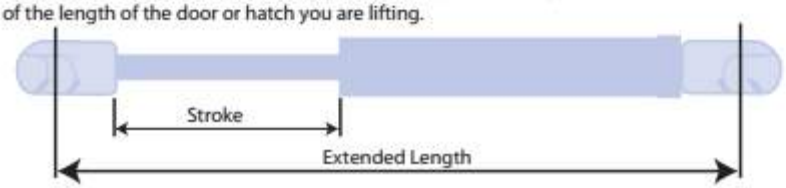




A = Moving pivot
D = Fix pivot
E = Hinge point
G = Weight of door (Newtons)
10 Newtons of force will lift approximately 1 Kg
H = Half the depth of door
F1=Force Required *
L= Minimum distance from the gas spring pivot centre (E)
N= Number of Gas Springs
Formula:

$$F1 = \frac{G \times H}{L \times N}$$

SPECIAL NOTE:
The extended length of the gas spring should be approximately 60% of the length of the door or hatch you are lifting.



*Tolerance +/- 6 %
All Lenghts are in centimeters.

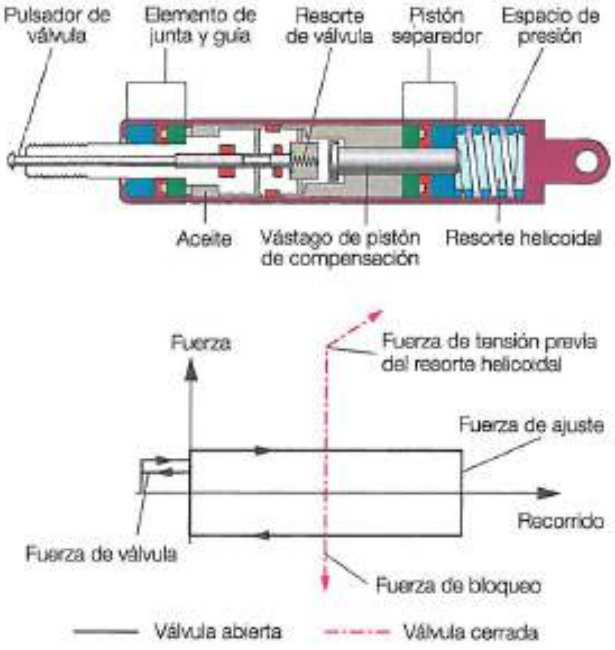


Fig. 4.2: HYDRO-BLOC® con tensión previa de resorte helicoidal del pistón separador

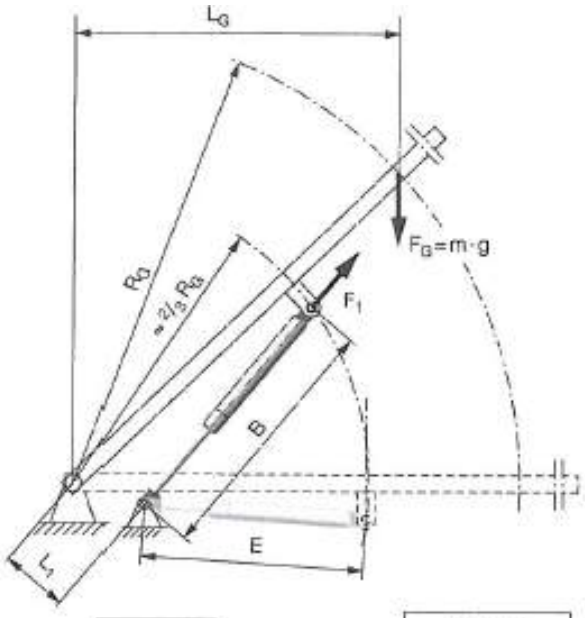
El sentido de montaje de las dos variantes puede ser cualquiera, siendo preferentemente horizontal en el **HYDRO-BLOC®** de la figura 4.1. Para más instrucciones de montaje y aplicación véase el capítulo 3.1.5. Las cabezas de disparo representadas en la figura 3.11 para los resortes de gas **BLOC-O-LIFT®** se pueden utilizar igualmente para el **HYDRO-BLOC®**.

5. Selección de resorte de gas y situación de montaje

Para la selección de resorte de gas, ponemos a su disposición los programas de tipos de resorte de gas STABILUS. Contienen numerosas variantes en relación a la carrera A, la longitud extendida B, la fuerza de extensión F_1 y la técnica de conexión de los resortes de gas STABILUS. La determinación de las medidas necesarias para la aplicación A y B así como la fuerza de extensión necesaria F_1 del resorte de gas, se realiza en la mayoría de los casos a través de un cálculo sencillo. Se consigue un comportamiento de apertura y cierre especialmente cómodo de la aplicación, si se averiguan el resorte de gas ideal y sus puntos de conexión a través del cálculo de simulación con ayuda del programa de montaje STABILUS.

5.1 Cálculo de la fuerza de resorte F_1, cálculo aproximado

En la fig. 5.1 se representa esquemáticamente cualquier compuerta (por ejemplo una de máquinas, puerta de armario, rampa de carga, etc.) en posición abierta y cerrada. Están todas las dimensiones y fuerzas necesarias para el cálculo



Carrera min. $A = B - E$ Fuerza de extensión $F_1 = \frac{F_G \cdot L_G}{n \cdot L_1} \cdot R$

A	:	Carrera del resorte de gas	[mm]
B	:	Long. extendida del resorte de gas	[mm]
E	:	Long. comprimida del resorte de gas	[mm]
F_1	:	Fuerza de extensión del resorte de gas	[N]
F_G	:	Fuerza de peso de la aplicación en el. c. d. g.	[N]
g	:	Aceleración de la gravedad 9,81	[m/s²]
L_1	:	Distancia vert. soporte/ln. acción de fuerza F_1	[mm]
L_G	:	Distancia vert. soporte/ln. acción de fuerza F_G	[mm]
R_G	:	Radio soporte/centro de gravedad	[mm]
m	:	Masa (peso) de la aplicación	[kg]
n	:	Cantidad de resortes	[/]
R	:	Factor de reserva de fuerza 1,2...1,3	[/]

Fig. 5.1: Carrera y fuerza de extensión del resorte de gas para la apertura de una compuerta

aproximado. La longitud extendida B se puede seleccionar de tal forma que el resorte de gas sirve como tope final cuando la compuerta está abierta. La carrera mínima necesaria A del resorte de gas resulta entonces de la diferencia de la longitud extendida y comprimida E. La carrera y la longitud extendida y comprimida se pueden averiguar gráficamente midiendo un dibujo a escala o mediante funciones trigonométricas. La carrera de resorte de gas debería tener en cuenta igualmente la tolerancia de longitud por la aplicación y el resorte de gas.

Del balance de pares en el soporte de la aplicación, se calcula la fuerza de extensión F_1 del resorte de gas. La fuerza de extensión está medida de tal forma que la compuerta se queda abierta. Para ello está calculado el factor de reserva de fuerza R en la ecuación de cálculo de la fig. 5.1. Para R=1 el peso de compensación de fuerza resulta de la fuerza de peso de la aplicación F_G (en el centro de gravedad) y la fuerza de extensión del resorte de gas F_1. La compuerta está entonces en suspensión. Cuanto más grande se seleccione el factor de reserva de fuerza, mayor es la "fuerza manual" necesaria para

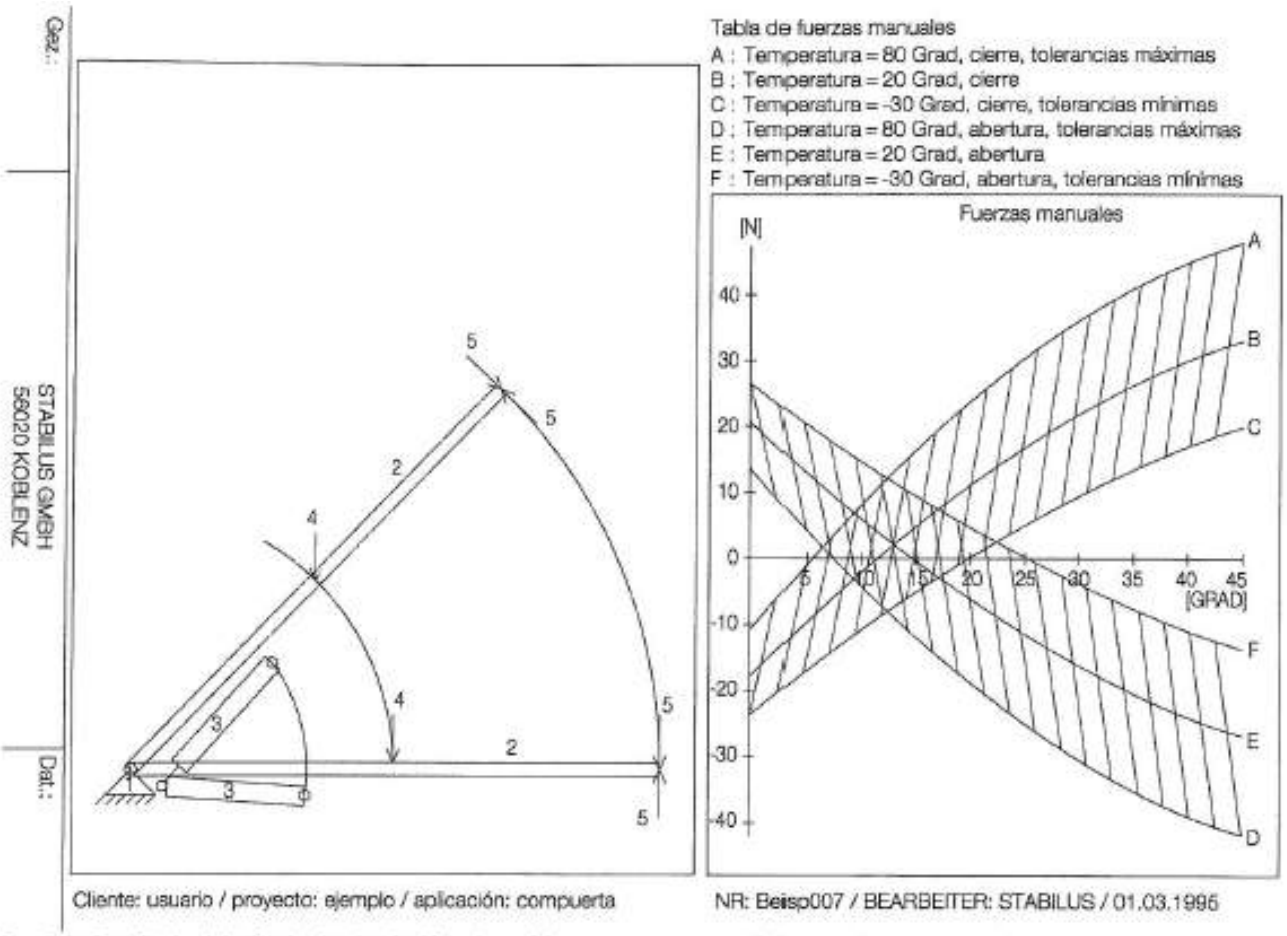


Fig. 5.2: Resultado del cálculo de simulación, cinemática y curvas características de fuerzas manuales

el cierre de la aplicación. Normalmente el factor de reserva de fuerza está entre 1,2 y 1,3. En las temperaturas ambiente mayores de 30ºC la R puede ser menor, en temperaturas ambiente inferiores a 10ºC, se debería elegir una R mayor (véase cap. 1.2.2). La rigidez y el peso de la aplicación determinan el número n de los resortes de gas necesarios. Las compuertas grandes, flexibles necesitan la mayoría de las veces dos resortes de gas, para evitar un ladeo o arqueo de la aplicación.

5.2 Cálculo de la curva característica de fuerza manual

Para la valoración u optimización de la función de ajuste de una aplicación se saca la fuerza manual necesaria y con ello todo el campo de ajuste de la aplicación. Las curvas de fuerza manual para la apertura y cierre de la aplicación se pueden averiguar a través del cálculo de simulación con el programa de propuesta de montaje de STABILUS. El objetivo del cálculo de simulación es el dimensionado óptimo del resorte de gas con respecto a la fuerza de extensión y curva de resorte, en combinación con los puntos de conexión óptimos en la aplicación. Lo óptimo depende del funcionamiento correspondiente. Por ejemplo, los resortes de gas hay que medirlos en la puerta del portamaletas del coche de tal forma que permitan abrir a partir de un pequeño ángulo sin fuerza manual y cerrar con un pequeño empuje de la puerta. Otras aplicaciones requieren una apertura y extensión inmediata del resorte (por ejemplo inclinación de respaldo-silla giratoria), otras parar en cualquier posición (por ejemplo la parte superior de un solarium etc.). Todos estos requerimientos diferentes se pueden representar en base al recorrido de fuerza manual. La elaboración de una propuesta de montaje es llevada a cabo por STABILUS o las representaciones de STABILUS. Los datos necesarios para el proceso de la propuesta de montaje de una aplicación con una articulación giratoria están representados en el plano 0902FP en el anexo 6.2. En caso de que la aplicación sea accionada a través de una bisagra de cuatro articulaciones, se requieren dibujos de montaje para la descripción geométrica de la bisagra de cuatro articulaciones.

La fig. 5.2 muestra el resultado del cálculo de simulación en el ejemplo del dibujo de aplicación de la fig. 5.1. En la mitad izquierda del dibujo está representada esquemáticamente la cinemática de la aplicación. Los elementos y las fuerzas utilizados están numerados. Como representación de repuesto de la compuerta sirve Stab 2, que está fijado en el soporte 1. La compuerta está en la posición cerrada y abierta, el ángulo de giro en el soporte es de 45º. El resorte de gas está representado como elemento 3, y están marcados la posición

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Sistema Manivela 4-HR 1803 D100

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El sistema consiste en 4 ruedas con un pie hidráulico adjustable en altura.

Mediante el accionamiento de la manivela, el aceite hidráulico es presionado al exterior de la bomba a través de los cables de presión, conectados al pie ajustable.

El sistema funciona elevando la estructura a través de las cuatro ruedas, de una forma totalmente sincronizada.

Cada rueda elevable incorpora 3 metros de cable de presión. Dicho cable puede ser cortado según el tamaño requerido. Después, se conectará fácilmente a la bomba para comenzar a funcionar.

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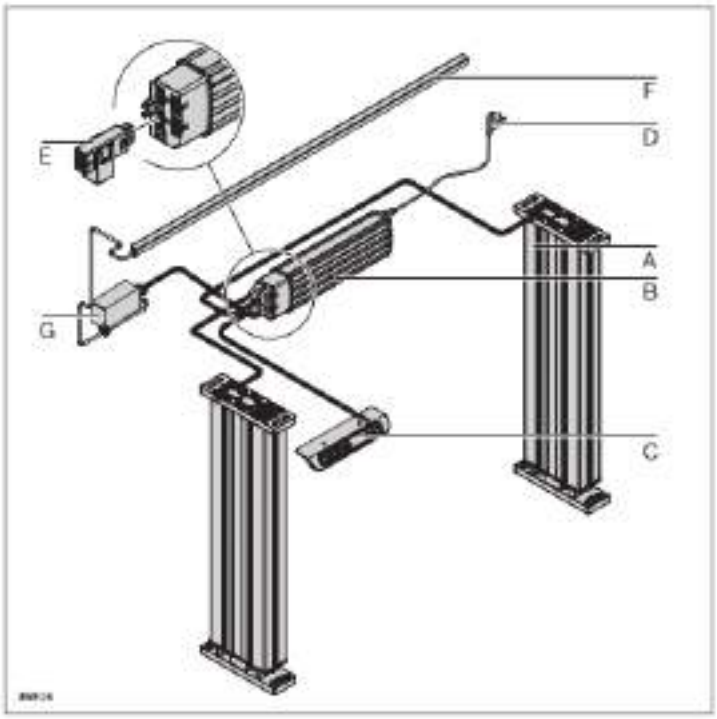

Puesto de trabajo con altura regulable: Componentes

A Módulo de elevación
B Unidad de control
C Interruptor manual
D Cable de red
E Adaptador de conexión (para DWS)
F Regleta de interruptores para ondas de choque
G Sensor de ondas de choque (DWS)

Véanse los datos técnicos
Página 13-3