

# ACCESSORIES

## ***ACCESSORIES FOR DIFFERENT APPLICATION'S NEEDS.***

*From connectors to couplings, Eltra offers a comprehensive range of accessories to satisfy generic and specific application requirements.*

*Perfectly matching the corresponding transducers, these accessories provide the basis for a cost-effective integration within your system.*



### STANDARD ELASTIC COUPLINGS

Eltra elastic couplings are essential parts for motion transmission to the encoder shaft.

Couplings are aluminium alloy made and are composed by a cylindrical body on which there is a helical groove that determines:

- torsional rigidity
- ability to compensate for slight shaft misalignments
- ability to absorb shaft axial play

Elastic coupling can be supplied with different coupling diameters

Ordering code example: G 25 A 8 / 10 means d1 = 8 mm, d2 = 10 mm



### STANDARD ELASTIC COUPLINGS ORDERING CODE

**G 25 A 6 / 8**

**SERIES**  
precision elastic coupling **G**

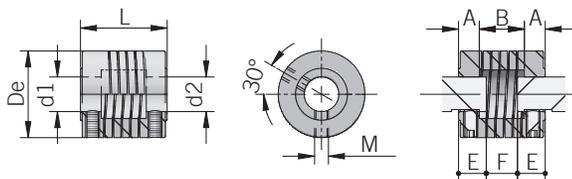
**MODEL**  
**20 / 25 / 30**  
see table for dimensions

**SHAFT FIXING TYPE**  
shaft fixing with grub screw **A**

**HOLE DIAMETER d1**  
6 mm **6**  
(mod. G25 / G30) 8 mm **8**  
(3/8") 9,52 mm **9**  
10 mm **10**

**(DO NOT ADD IF d2 = d1) HOLE DIAMETER d2**  
6 mm **6**  
(mod. G25 / G30) 8 mm **8**  
(3/8") 9,52 mm **9**  
10 mm **10**

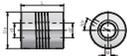
### MECHANICAL DIMENSIONS



dimensions in mm

### STANDARD COUPLINGS

Type of material: aluminium



For other holes (d1-d2) contact our offices directly

Standard couplings	P / N	De	L		d1 = d2		A	B	M	E	F	Torque
				± 0,1								
<b>G 20 A 6</b>	94070006	∅ 20	20	± 0,1	∅ 6H7	$+0,012_0$	6	8	M3	7	6	0,25 Nm
<b>G 25 A 8</b>	94070026	∅ 25	25	± 0,1	∅ 8H7	$+0,015_0$	7	11	M4	8	9	0,4 Nm
<b>G 25 A 9</b>	94070030	∅ 25	25	± 0,1	∅ 9,52H7	$+0,015_0$	7	11	M4	8	9	0,4 Nm
<b>G 25 A 10</b>	94070012	∅ 25	25	± 0,1	∅ 10H7	$+0,015_0$	7	11	M4	8	9	0,4 Nm
<b>G 30 A 10</b>	94070051	∅ 25	30	± 0,1	∅ 10H7	$+0,015_0$	8	14	M4	9	12	0,4 Nm

For proper installation it is recommended to insert shafts in the coupling observing "E" dimensions

**SPECIAL APPLICATION COUPLINGS**



Special application couplings are designed to meet extreme coupling conditions such as high torque or severe axial or radial play. Please refer to single product description to identify right elastic coupling for your application.

**GS-DA SERIES**

GS-DA series are double loop plastic coupling with medium torsional stiffness, low restoring forces with impact and vibration damping effect. It allows a smooth running, maintenance-free motion and a reliable compensation of radial, lateral and angular misalignments. It is also thermally and electrically insulated.

**GS-EA SERIES**

GS-EA series are heavy duty helix coupling for multi-purpose use for backlash-free and angularly aligned transmission of rotary motions with high torsional stiffness with medium restoring forces. It gives vibration-damping effect and optimum compensation of misalignments. It is produced from a single piece and has clamping hubs for shaft connections without causing any surface defects.

**GS-EP SERIES**

GS-EP series are low-cost shaft couplings manufactured using injection moulding technology with medium torsional stiffness, low restoring forces and vibration damping effect.

Metal inserts in the hubs allows reliable shaft connection and thanks to free slot area the shafts may project into the coupling. It is also electrically insulated.

**GS-M SERIES**

GS-M series are multi-purpose couplings used for backlash-free transmission of rotary motions with high vibration-damping effect, good compensation of misalignments and low torsional stiffness and low restoring forces.

It has no moving parts, very robust design.

**GS-O SERIES**

GS-O series are elastic couplings where rotation is transmitted through a central disc that slides over the tenons on the hubs under controlled preload conditions to eliminate backlash.

These couplings provide generous radial compensation and easy maintenance.

**GS-S SERIES**

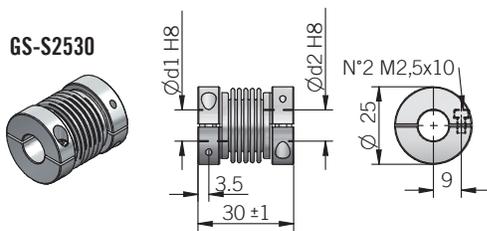
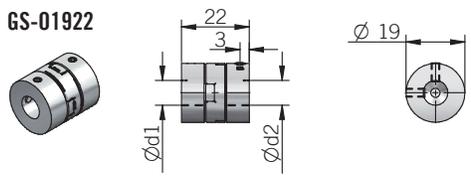
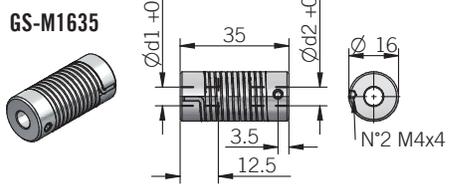
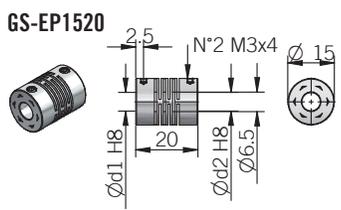
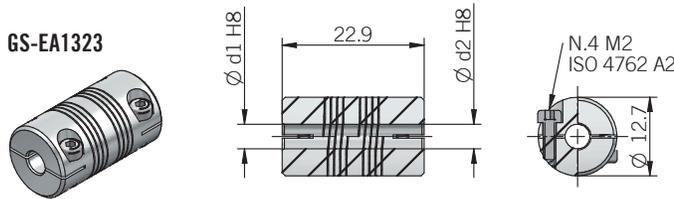
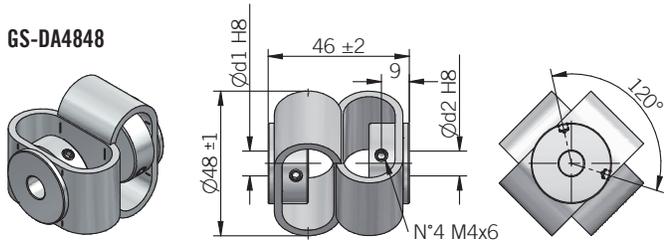
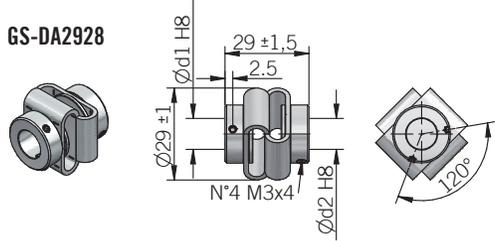
GS-S series are bellows couplings for backlash-free and angularly aligned transmission with high vibration-damping effect, optimum compensation of misalignments with very high torsional stiffness and low restoring forces.

Design is very robust due to stainless steel bellows and also has clamping hubs for shaft connections without causing any surface defects.

**SPECIAL APPLICATION ELASTIC COUPLINGS ORDERING CODE**

P / N	Code	Description
94070188	GS-DA2928-6 (former GS32A6)	Double loop plastic coupling 29 x 28 mm (ø 6 / 6 mm hole)
94070050	GS-DA2928-8 (former GS01A8)	Double loop plastic coupling 29 x 28 mm (ø 8 / 8 mm hole)
94070091	GS-DA2928-10 (former GS11A10)	Double loop plastic coupling 29 x 28 mm (ø 10 / 10 mm hole)
94070112	GS-DA4848-10 (former GS15A10)	Double loop plastic coupling 48 x 48 mm (ø 10 / 10 mm hole)
94070219	GS-EA1323-4 (former G13A4)	Aluminium coupling 13 x 23 mm (ø 4 / 4 mm hole)
94070143	GS-EP1520-6 (former GS21A6)	Plastic coupling with helical groove 15 x 20 mm (ø 6 / 6 mm hole)
94070149	GS-EP1520-4 (former GS22A4)	Plastic coupling with helical groove 15 x 20 mm (ø 4 / 4 mm hole)
94070115	GS-M1635-8 (former GS13A8)	Spring coupling 16 x 35 mm (ø 8 / 8 mm hole)
94070184	GS-M1635-10 (former GS30A10)	Spring coupling 16 x 35 mm (ø 10 / 10 mm hole)
94070061	GS-O1922-6 (former GS02A6)	Decomposable coupling Oldham 19 x 22 mm (ø 6 / 6 mm hole)
94070117	GS-O1922-10 (former GS16A10)	Decomposable coupling Oldham 19 x 22 mm (ø 10 / 10 mm hole)
94070218	GS-O1922-10/12 (former GS41A10/12)	Decomposable coupling Oldham 19 x 22 mm (ø 10 / 12 mm hole)
94070171	GS-S2530-10 (former GS25A10)	High pulses bellows coupling 25 x 30 mm (ø 10 / 10 mm hole)

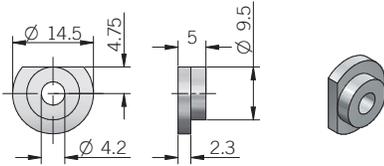
please directly contact our offices for other models



dimensions in mm

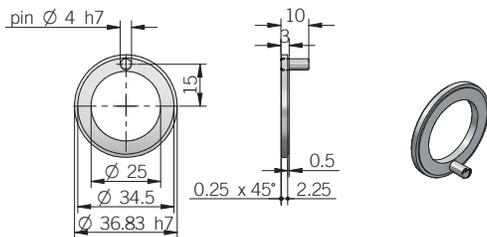
TECHNICAL DATA							
	DA2928	DA4848	EA1323	EP1520	M1635	01922	S2530
Max speed (rpm)	3000	3000	5000	12000	3000	3000	10000
Max torque (Nm)	0,5	2	2	0,3	0,5	1,7	2
Max offset radial (mm)	± 2	± 3	± 0,17	± 0,3	± 1	± 0,2	± 0,3
Max offset axial (mm)	± 2	± 4	± 0,25	± 0,2	± 1	± 0,1	± 0,4
Max offset angular (°)	± 10	± 12	± 5	± 2,5	± 5	± 0,5	± 4
Moment of inertia (gcm <sup>2</sup> )	41	106	1,2	2	10	6,7	29,8
Max clamping torque (Nm)	1	1	0,3	0,7	1,5	0,94	1
Temperature range	-30° ... +80°C (-22° ... +176°F)	-30° ... +80°C (-22° ... +176°F)	-40° ... +140°C (-40° ... +284°F)	-10° ... +80°C (14° ... +176°F)	-30° ... +120°C (-22° ... +248°F)	-20° ... +60°C (-4° ... +140°F)	-30° ... +120°C (-22° ... +248°F)
Weight (g) (oz)	33 (1,16)	85 (3,00)	5 (0,18)	6 (0,21)	28 (0,99)	12 (0,42)	20 (0,71)
Flange material	steel galvanized	steel galvanized	aluminium	PA 66 glass fiber reinforced	zinc die casting	aluminium	aluminium
Insert material	poliurethan	poliurethan	aluminium	aluminium	spring steel	acetal	stainless steel

**FIXING CLAMPS**

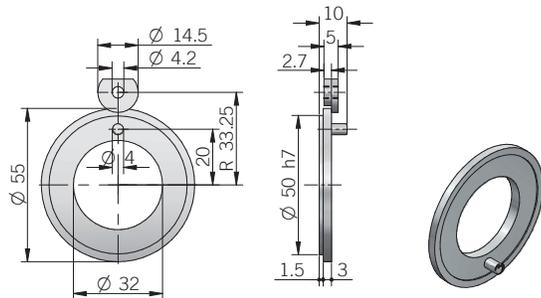


Description	P/N	Material	Scope of delivery	Applicable to model
kit n.3 fixing clamps	94080001	EN-AW 2011 aluminum	n.3 fixing clamps	36K - 40N - 40X - 49C/P - 50A/B - 58B - 63A - 80A - 90A

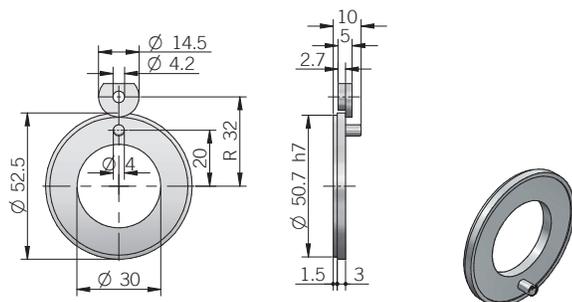
**MECHANICAL FLANGES**



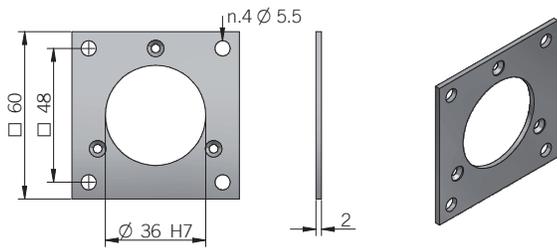
Description	P/N	Material	Scope of delivery	Applicable to model
FLG004 - resolver flange size 15	94010076	EN-AW 2011 aluminum	n.1 flange	36K



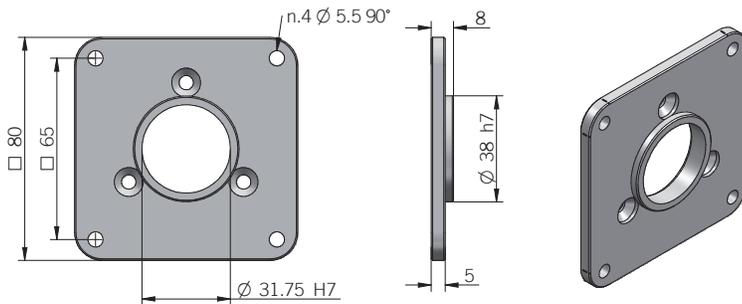
Description	P/N	Material	Scope of delivery	Applicable to model
FLG000 - resolver flange size 19 (01 version)	94010087	EN-AW 2011 aluminum	n.1 flange	49C/P



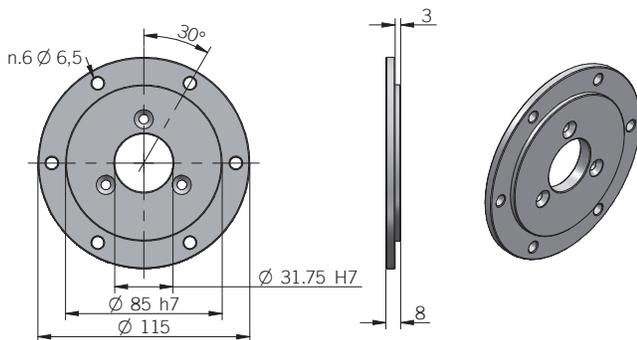
Description	P/N	Material	Scope of delivery	Applicable to model
FLG001 - resolver flange size 19 (14 version)	94010065	EN-AW 2011 aluminum	n.1 flange	49C/P



Description	P/N	Material	Scope of delivery	Applicable to model
58C square flange	94990048	EN-AW 2011 aluminum	n.1 58C square flange n.3 M3x6 screws	58C

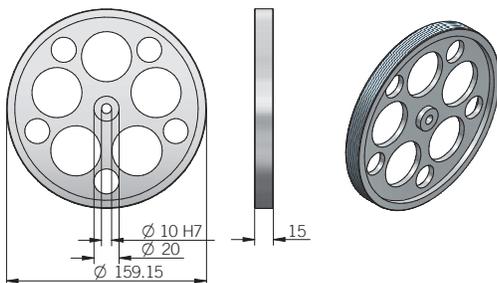


Description	P/N	Material	Scope of delivery	Applicable to model
63A square flange	94990049	EN-AW 2011 aluminum	n.1 63A square flange n.3 M5x10 screws	63A



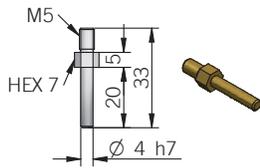
Description	P/N	Material	Scope of delivery	Applicable to model
63A REO-444 flange	94990050	EN-AW 2011 aluminum	n.1 63A REO-444 flange n.3 M5x10 screws	63A

## MEASURING WHEELS

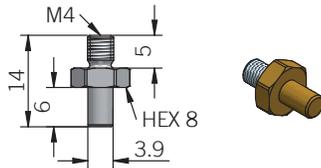


Description	P/N	Material	Scope of delivery	Applicable to model
Measuring wheel weight 260 g (9,17 oz)	44030108	EN-AW 2011 aluminum	n.1 measuring wheel n.1 M5x16 screw	RL - RM 500

**TORQUE PINS**



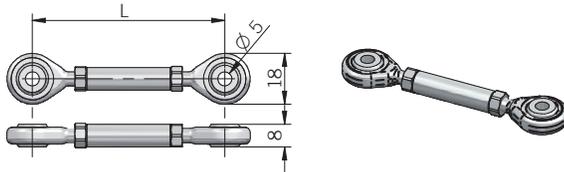
Description	P/N	Material	Scope of delivery	Applicable to model
M5 4mm torque pin	23240008	Brass	n.1 torque pin	EH - EF 80



Description	P/N	Material	Scope of delivery	Applicable to model
M4 3,9 mm torque pin	94080010	Brass	n.2 torque pins	88PE

**TORQUE ARM**

For applications with low axial and radial play



**Length**

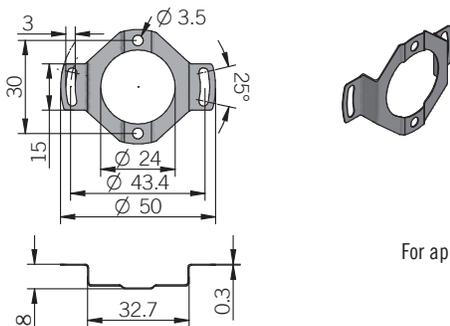
SN5A30 L = 80 ± 10mm

SN5A60 L = 110 ± 10mm

SN5A90 L = 140 ± 10mm

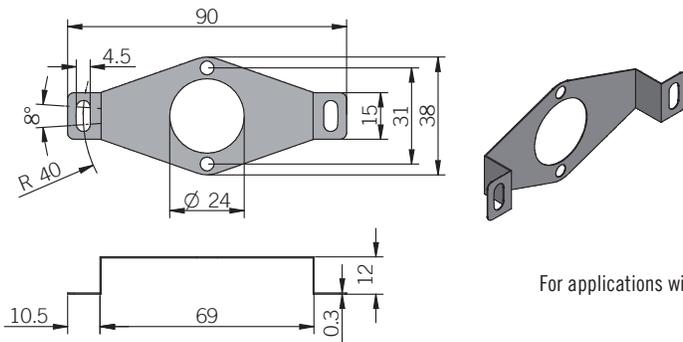
Description	P/N	Material	Scope of delivery	Applicable to model
SN5A30	94010061	Steel	n. 1 torque arm n. 2 M5 x 12 UNI ISO 7380	88PE - 120P
SN5A60	94010070			
SN5A90	94010071			

**ENCODER COUPLINGS**



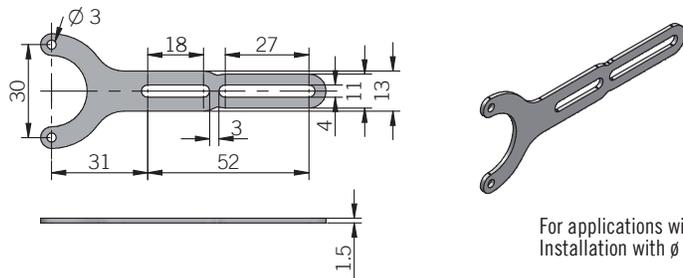
For applications with high dynamics and moderate axial play and low radial play

Description	P/N	Material	Scope of delivery	Applicable to model
Ø 43,4 mm spring coupling	94990046	1.4310 AISI 301	n.1 encoder spring n.2 M3x4 screws	38F



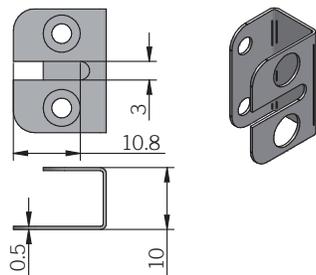
For applications with high dynamics and moderate axial play and low radial play

Description	P/N	Material	Scope of delivery	Applicable to model
∅ 80 mm spring coupling	94990047	1.4310 AISI 301	n.1 encoder spring n.2 M3x4 screws	38F



For applications with low dynamics and high axial play and low radial play. Installation with ∅ 4 mm cylindrical pin. Do not install with rigid fixing (e.g. screw)

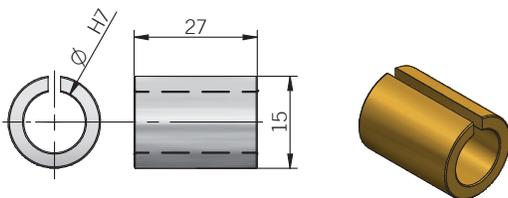
Description	P/N	Material	Scope of delivery	Applicable to model
38F bracket kit	94990045	Stainless steel	n.1 bracket n.2 M3x4 screws	38F



For applications with low dynamics and high axial play and low radial play. Installation with ∅ 3 mm cylindrical pin. Do not install with rigid fixing.

Description	P/N	Material	Scope of delivery	Applicable to model
88P-88PE torque stop kit	94990051	1.4310 AISI 301	n.1 torque stop n.2 M3x4 screws	88P - 88PE

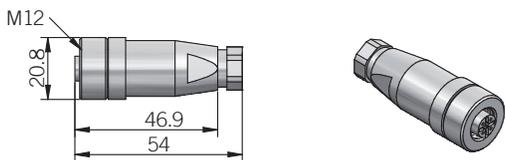
## SHAFT ADAPTERS



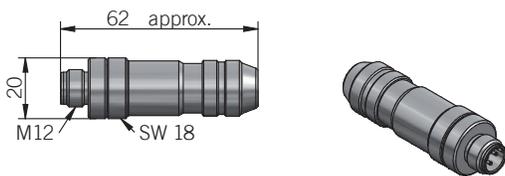
Description	P/N	Material	Scope of delivery	Applicable to model
Shaft adapter 15/12 mm	41890398	Bronze	n.1 shaft adapter	AAM 58F
Shaft adapter 15/10 mm	41890399			

For further shaft adapter diameters please directly contact our offices

CONNECTORS



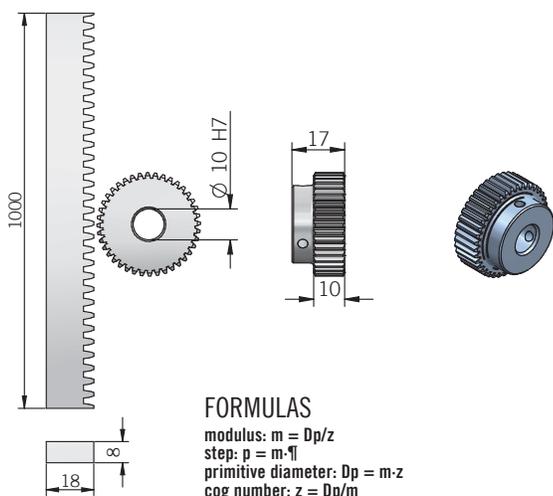
Description	P/N	Material	Scope of delivery	Applicable to model
M12 female connector for power supply (POWER)	22030091	Plastic	n.1 female M12 A coded connector	AAM 58



Description	P/N	Material	Scope of delivery	Applicable to model
M12 male connector for I/O (PORT 1 / 2)	22030152	Metal	n.1 female M12 D coded connector	AAM 58

EC34 ACCESSORIES

Rack and cogged wheel  
 $p = 2,5$   $z = 40$   $m = 0,796$

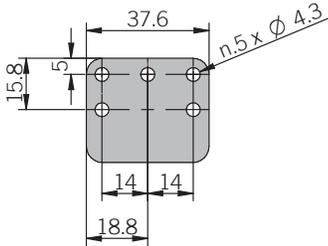


dimensions in mm

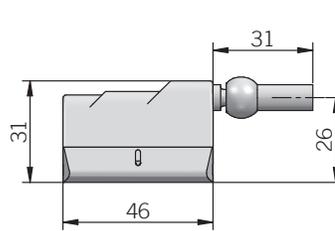
Description	P/N	Material	Scope of delivery	Applicable to model
Cogged wheel $M = 0,796$ / $P = 2,5$ / $Z = 4$	94080003	C45 steel	n.1 cogged wheel	34A
Rack $P = 2,5$ / 1m length	23280006		n.1 1m P 2,5 rack	

## CURSORS FOR EMSPA - EMSPB - EMSPS

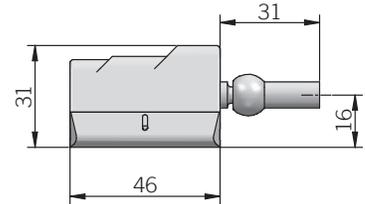
Floating cursor EMS-CSF  
P/N 95490012



Sliding cursor axial joint high EMS-CSA  
P/N 95490000

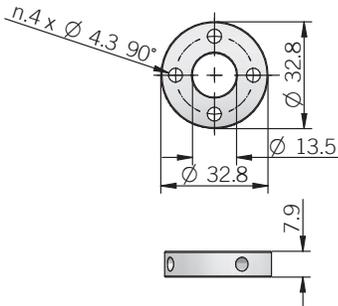


Sliding cursor axial joint low EMS-CSB  
P/N 95490001

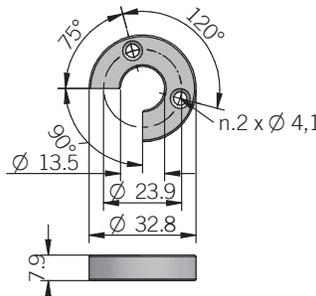


## FLOATING CURSORS FOR EMSSA - EMSSS

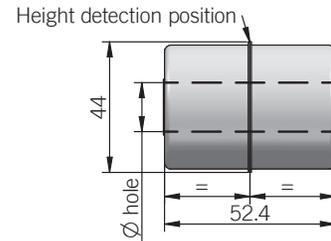
Floating cursor EMS-CAA



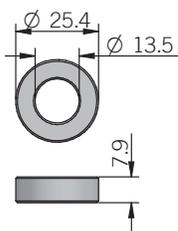
Floating cursor EMS-CAB



Floating cursor for liquids EMS-CAG12 / EMS-CAG15

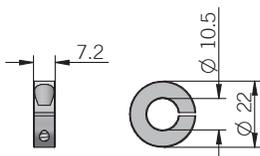


Floating cursor EMS-CAC



Description	P/N	Material	Scope of delivery
EMS-CAA	95590000	aluminum	n.4 M4 brass nuts n.8 D4 brass washers n.4 M4x25 brass screws
EMS-CAB	95590001	aluminum	n.4 M4 brass nuts n.4 D4 brass washers n.2 M4x25 brass screws
EMS-CAC	95590011	aluminum	/
EMS-CAG12	95590012	AISI 316 stainless steel	12 mm hole
EMS-CAG15	95590013	AISI 316 stainless steel	15 mm hole

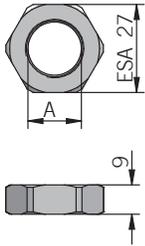
## COLLAR CLAMPING FOR EMS-CAG12 / EMS-CAG15



Description	P/N	Material	Scope of delivery
EMS-FG01	95590014	AISI 316 stainless steel	n.1 D3 AISI 316 washer n.1 M3x8 AISI 316 screw

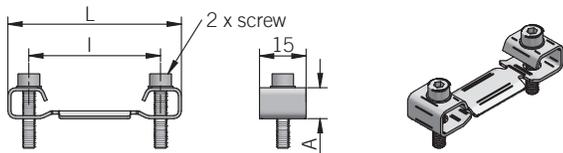
dimensions in mm

HEX NUT



Description	P/N	Material	A	Applicable to model
EMS-CD01	95590010	AISI 316 stainless steel	M18 x 1,5	EMSSA - EMSSS
EMS-CD02	95590015	AISI 316 stainless steel	3/4" - 16UNF	EMSSA - EMSSS

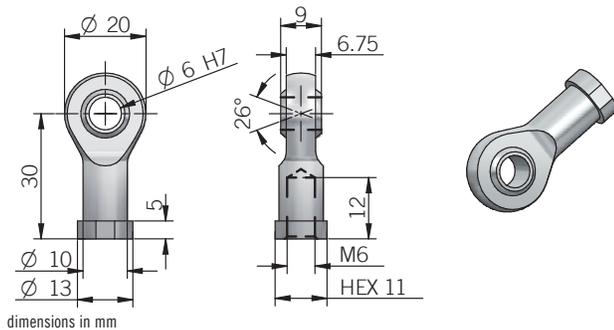
BRACKETS



Scope of delivery  
n.2 brackets

Description	P/N	Center-to-center (I)	Overall dimension (L)	Height (A)	Screw (M)	Applicable to model
EMSPA-EMSPS-ST42	95490011	42,5	56	12,4	M4	EMSPA - EMSPS
EMSPA-EMSPS-ST50	95490010	50	63,5	12,4	M5	EMSPA - EMSPS
EMSPB-ST42	95490022	42,5	56	10	M4	EMSPB
EMSPB-ST50	95490026	50	63,5	10	M5	EMSPB

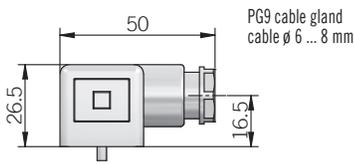
EPLA BALL JOINT



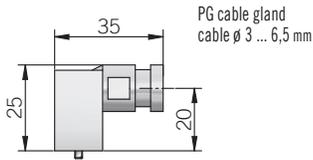
dimensions in mm

Description	P/N	Material	Scope of delivery	Applicable to model
EPLA-SN01	95390003	Steel	n.1 Ø 6 mm ball joint	EPLA

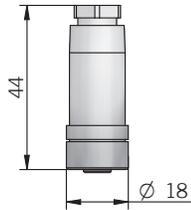
CONNECTORS



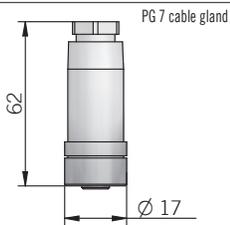
Description	P/N	Material	Scope of delivery	Applicable to model
EPLA/C-EMSPB C04FV 90° (IP 65)	95390004	Plastic	n.1 female DIN 43650-A (4 pin) connector	EPLA - EPLC - EMSPB



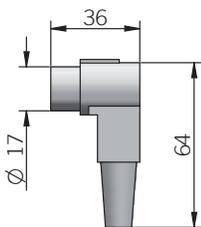
Description	P/N	Material	Scope of delivery	Applicable to model
EPLB-C04FV 90° (IP 65)	95390001	Plastic	n.1 female 43650-C (4 pin) connector	EPLB



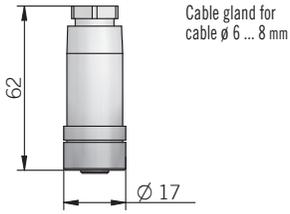
Description	P/N	Material	Scope of delivery	Applicable to model
EPL-C03FV (IP 40)	95390002	Plastic	n.1 female C03FV (3 pin) connector	EPLA - EPLB



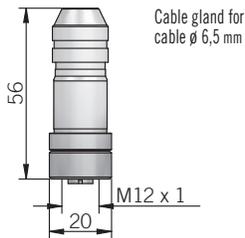
Description	P/N	Material	Scope of delivery	Applicable to model
EPL-C05FV (IP 67)	95390005	Metal	n.1 female DIN 43322 (5 pin) connector	EPLA - EPLB - EPLC - EPLT



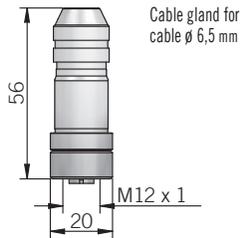
Description	P/N	Material	Scope of delivery	Applicable to model
EPL-C05FV 90° (IP 40)	95390007	Plastic	n.1 female DIN 43322 (5 pin) connector	EPLA - EPLB - EPLC - EPLT



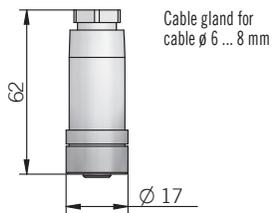
Description	P/N	Material	Scope of delivery	Applicable to model
EMS-C08FV (IP 67)	95490025	Metal	n.1 female M16 DIN 45326 (8 pin) connector	EMSPA - EMSPS



Description	P/N	Material	Scope of delivery	Applicable to model
EMS-S05FV (IP 67)	95490002	Metal	n.1 female M12 A coded (5 pin) connector	EMSPA - EMSPB



Description	P/N	Material	Scope of delivery	Applicable to model
EMS-S08FV (IP 67)	95490024	Metal	n.1 female M12 A coded (8 pin) connector	EMSPA - EMSPB



Description	P/N	Material	Scope of delivery	Applicable to model
EMS-C06FV (IP 67)	95490015	Metal	n.1 female M16 DIN 45322 (6 pin) connector	EMSPA - EMSPS - EMSSA - EMSSS