CA-BA

CA-PA

TALA

VR-SE

MAHE

MARE / MARI

PCU

ES-DR / ES-DA2

AB-TA / AB-TA B / AB-TA A2

AB-TG

PF-ZN / PF-A4

AB-TR

AB-FP

AB-FC

AB-PM7

TM-VR

MAMH

UN-CO

CO-AR

CHARACTERISTICS

- Versatility of metrics and components
- Hanging plate with double hole for easier installation.
- Connecting Sleeves of rods for large applications (malls, shops, etc.).
- Different ceiling fixing solutions: brackets, brass studs, tilting heads.
- Finished in galvanized or stainless (according to each element).

BASE MATERIAL

EXAMPLES

1.RANGE

ITEM	DENOMINATION	PHOTO	MATERIAL	COATING
1	**CA-BA**		Steel EN10130-DC01+A-m	Zinc plated ≥5µm ISO 4042 A2J
2	**CA-PA**		Steel SAE 1010	Zinc plated ≥5µm ISO 4042 A2J
3	**TALA**		Brass T-0T58 Pb UNI 5705	Brass
4	**VR-SE**		Steel class 4.8 ISO 898-1	Zinc plated ≥5µm ISO 4042 A2J
5	**MAHE**		Steel SAE J403 1008	Zinc plated ≥5µm ISO 4042 A2J
6	**MARE**		Steel SAE J403 1008	Zinc plated ≥5µm ISO 4042 A2J
7	**MARI**		Steel A2-70 UNE-EN ISO 3506-1	Steel A2-70
8	**PCU**		Steel EN10142-DX51D+Z140-M-B-O	Zinc plated ≥5µm ISO 4042 A2J
9	**ES-DR**		Steel SAE J403 1008	Zinc plated ≥5µm ISO 4042 A2J
10	**ES-DA2**		Steel A2-70 UNE-EN ISO 3506-1	Steel A2-70
11	**AB-TA**		Steel class 5.6 ISO 898-1	Zinc plated ≥5µm ISO 4042 A2J
12	**AB-TA B**		Steel class 5.6 ISO 898-1	Yellow zinc plated ≥5µm ISO 4042 A2J
13	**AB-TA A2**		Steel A2-70 UNE-EN ISO 3506-1	Steel A2-70

ITEM	DENOMINATION	PHOTO	MATERIAL	COATING
14	**AB-TG**		Stel SAE J403 1023	Zinc plated ≥5µm ISO 4042 A2J
15	**PF-ZN**		Steel S235R	Zinc plated ≥5µm ISO 4042 A2J
16	**PF-A4**		Steel A4-70 UNE-EN ISO 3506-1	Steel A4-70
17	**AB-TR**		Steel C1008	Zinc-plated ≥5µm ISO 4042 A2J
18	**AB-FP**		Steel C1008	Zinc-plated ≥5µm ISO 4042 A2J
19	**AB-FC**		Steel C1008	Zinc-plated ≥5µm ISO 4042 A2J
20	**AB-PM7**		Steel Q195	Zinc-plated ≥5µm ISO 4042 A2J
21	**TM-VR**		Acero C1008	Zinc-plated ≥5µm ISO 4042 A2J
22	**MAMH**		Steel Q195	Zinc-plated ≥5µm ISO 4042 A2J
23	**UN-CO**		Steel S235R	Zingué ≥5µm ISO 4042 A2J
24	**CO-AR**		Steel Q195	Zinc-plated ≥5µm ISO 4042 A2J

2. INSTALLATION DATA

2.1 CA-BA — Toggle head

Properties

Steel	Zinc Plated Coating	Patent

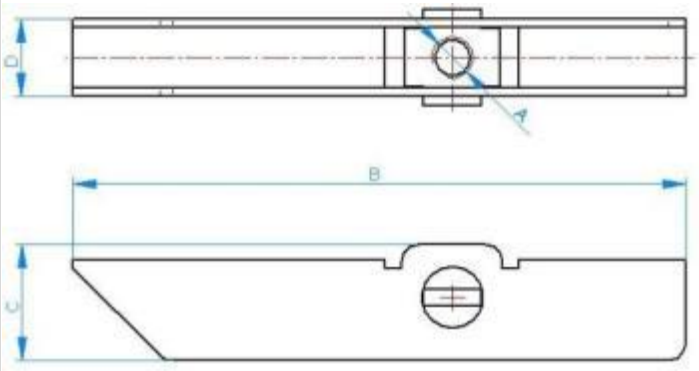
Sizes

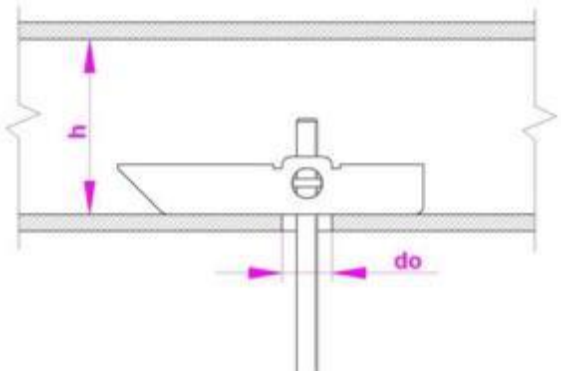
CODE		CABA004	CABA005	CABA006	CABA008
A: Ø thread	[mm]	M4	M5	M6	M8
B: total length	[mm]	65	65	70	80
C: High	[mm]	10.7	10.7	12.0	16.8
D: Width	[mm]	7.7	7.7	9.0	12.2
Threaded rod		975ZM04	975ZM05	975ZM06	975ZM08

Installation Data

CODE		CABA004	CABA005	CABA006	CABA008
d0: drill diameter	[mm]	14	14	16	20
h: hole depth ≥	[mm]	70	70	75	85
Recommended tension load (N_{recom})	[N]	250	300	350	450

DRAWING





2.2 CA-PA — Spring toggle

Properties

Steel	Zin Plated coating	Patent

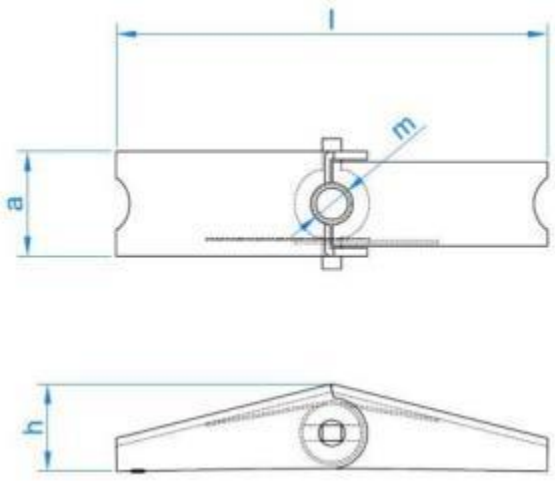
Sizes

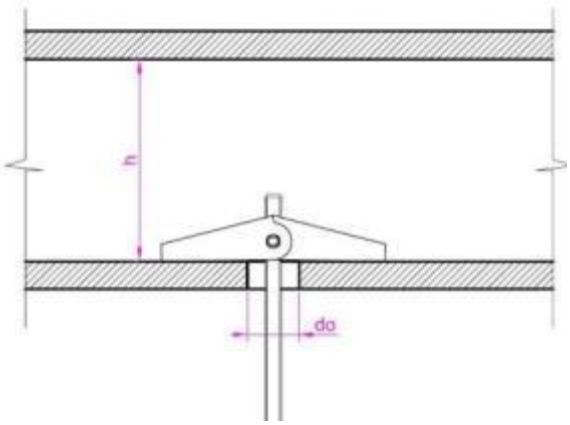
CODE		CAPA004	CAPA005	CAPA006	CAPA008
A: Ø thread	[mm]	M4	M5	M6	M8
B: Total length	[mm]	39	50	55	76
C: High	[mm]	10	12	14	16
D: Width	[mm]	9	12	15	17
Threaded rod		975ZM04	975ZM05	975ZM06	975ZM08

Installation Data

CODE		CAPA004	CAPA005	CAPA006	CAPA008
d0: drill diameter	[mm]	12	15	18	22
h: hole depth ≥	[mm]	26	33	37	54
Recommended tension load (N_{recom})	[N]	95	115	130	140

DRAWING





2.3 TALA

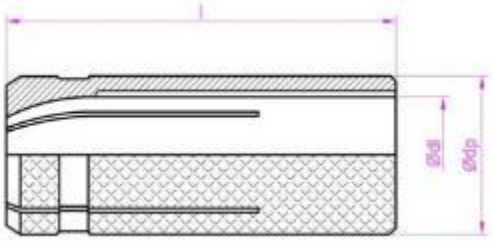
Brass expansion anchor

Properties

Brass

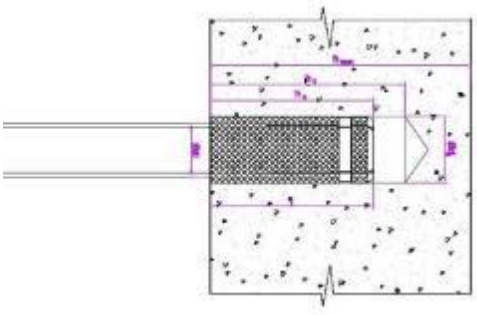
Sizes

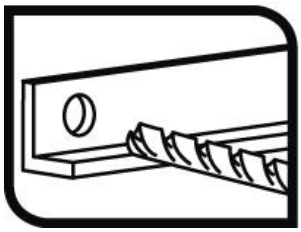
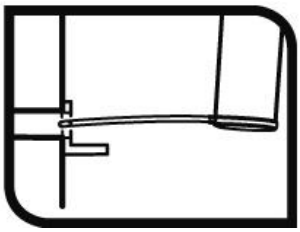
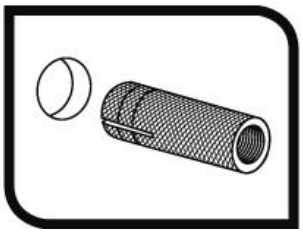
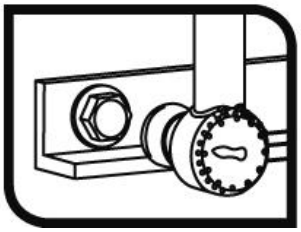
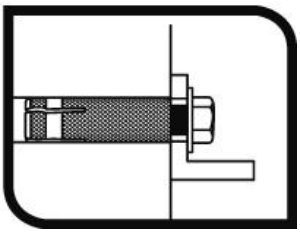
CODE		TALA532	TALAM04	TALAM05	TALAM06	TALAM08	TALAM10	TALAM12
di: Inside thread diameter	[mm]	W5/32	M4	M5	M6	M8	M10	M12
dp: Outside diameter	[mm]	5	5	6	8	10	12	15
l: anchor length	[mm]	16	16	18	23	28	34	38



Installation Data

CODE		TALA532	TALAM04	TALAM05	TALAM06	TALAM08	TALAM10	TALAM12
Ø Threaded rod	[mm]	W5/32	M4	M5	M6	M8	M10	M12
Ø Drill diameter	[mm]	5	5	6	8	10	12	15
Drill depth ≥	[mm]	20	20	22	28	33	40	45
Anchor depth ≥	[mm]	16	16	18	23	28	34	38
Thread depth	[mm]	14	14	16	21	26	32	36
Base material Thickness ≥	[mm]	25	25	30	35	40	45	50
Recommended tension load	[N]	600	600	700	1000	1500	2100	3200



Installation procedure	
	**Drill to the minimum depth and diameter specified, maintaining perpendicular to the surface of the base material.**
	**Thoroughly clean hole from dust and drilling fragments.**
	**To introduce completely the capsule in the base material. Use a hammer if necessary.**
 	**Thread the rod in the anchor to the depth shown in the table. A sall depth could cause a lower resistance of the brass anchor; an excesive depth can break the anchor, even without anny load applied to it.**

2.4 VR-SE — Small threaded bolt

Properties

Steel	Zin Plated coating

Sizes

CODE		VRSE06020	VRSE06030	VRSE08020	VRSE08030	VRSE10030	VRSE12030
M: Ø thread	[mm]	M6	M6	M8	M8	M10	M12
L: Total length	[mm]	20	30	20	30	30	30

DRAWING

2.5 MAHE — Coupling nut hexagonal*

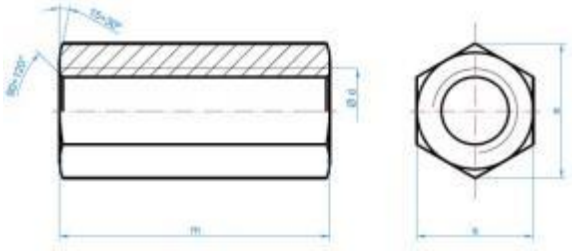
Properties

Steel	Zin Plated coating

Sizes

CODE	MAE0620	MAE0630	MAE0830	MAE1030	MAE1235	MAE1650	MAE2060
Ød: thread	M6	M6	M8	M10	M12	M16	M20
m: total length	20	30	25	30	35	50	60
s: installation key	10	10	11	13	17	24	30
Threaded rod	975ZM06	975ZM06	975ZM08	975ZM10	975ZM12	975ZM16	975ZM20

DRAWING



*resistencia equivalente a un tornillo 6.8

2.6 MARE — Cylindrical coupling nut*

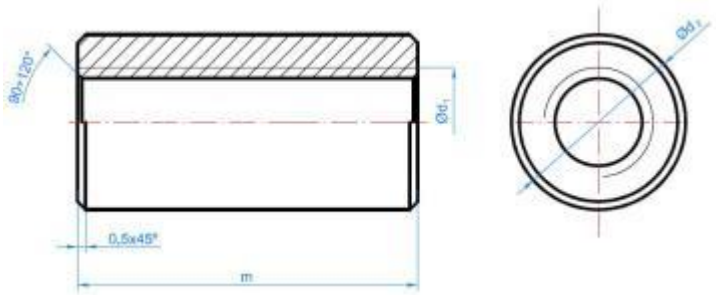
Properties

Steel	Zin Plated coating

Sizes

CODE		MAR5322	MAR0420	MAR0620	MAR0630	MAR0825	MAR0830	MAR1030	MAR1235	MAR1650
Ød1: thread	[mm]	M4	M6	M6	M6	M8	M8	M10	M12	M16
m: total length	[mm]	20	20	20	30	25	30	30	35	50
Ød2: outside diameter	[mm]	7	7	10	10	11	11	13	15	22
Threaded rod		--	9752M04	9752M06	9752M06	9752M08	9752M08	9752M10	9752M12	9752M16

DRAWING



*resistencia equivalente a un tornillo 6.8

2.7 MARI — Stainless cylindrical coupling nut*

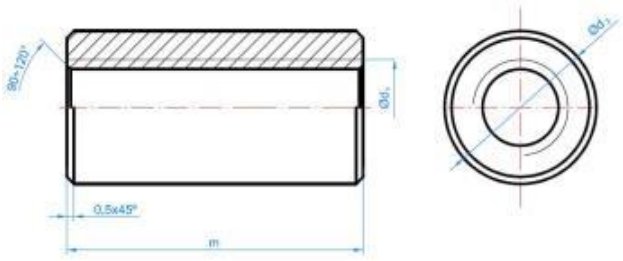
Properties

Stainless steel A2

Sizes

CODE		MARI0830	MARI1030
dØ: thread	[mm]	M8	M10
m: total length	[mm]	30	30
Ød2: outside diameter	[mm]	11	13
Threaded rod		975A2M10	975A2M10

DRAWING



2.8 PCU — Angular iron strap

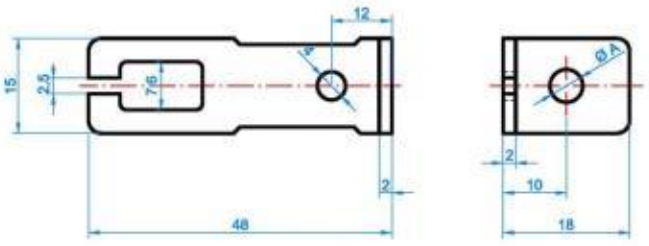
Properties

Steel | Zin Plated coating

Sizes

CODE		PCU0005	PCU0006
dØ: thread	[mm]	M8	M10
Threaded rod		975ZM06	975ZM10

DRAWING



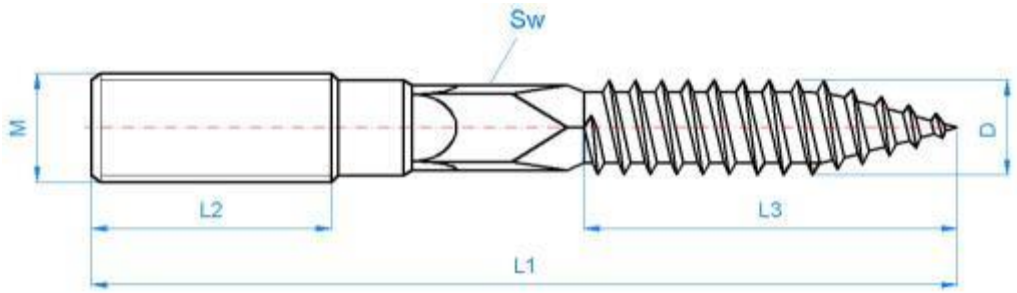
2.9 ES-DR — Zinc plated Double threaded screw

Properties	
Steel	Zin Plated coating

Sizes

CODE	ØM	L1	ØD	L2	L3	SW	Recess
ESDR06040	M6	38,5 ÷ 40,5	5,75 ÷ 6,05	11 ÷ 13	23 ÷ 25	--	Hexalobular Tx15
ESDR06050		48,5 ÷ 50,5		15 ÷ 17	27 ÷ 30		
ESDR06060		58 ÷ 61		17 ÷ 19	33 ÷ 36		
ESDR06070		68 ÷ 71		25 ÷ 27			
ESDR06080		78 ÷ 81		33 ÷ 35			
ESDR08050	M8	48,5 ÷ 51	6,85 ÷ 7,15	12 ÷ 14	28 ÷ 31	--	Hexalobular Tx25
ESDR08060		58,5 ÷ 61		14 ÷ 16	36 ÷ 39		
ESDR08070		68,5 ÷ 71		24 ÷ 26			
ESDR08080		78 ÷ 81		27 ÷ 30		5,85 ÷ 6,00	
ESDR08090		88 ÷ 91			46 ÷ 49		
ESDR08100		98 ÷ 101		32 ÷ 35			
ESDR08110		108 ÷ 111		40 ÷ 45			
ESDR08120		118 ÷ 121		48 ÷ 52			
ESDR08130		128 ÷ 131					
ESDR10080	M10	78 ÷ 81	8,75 ÷ 9,15	16 ÷ 20	45 ÷ 48	7,85 ÷ 8,00	
ESDR10100		98 ÷ 101		22 ÷ 26	55 ÷ 59		
ESDR10110		108 ÷ 111		36 ÷ 40			
ESDR10120		118 ÷ 121		43 ÷ 47			
ESDR10130		128 ÷ 131		48 ÷ 52			
ESDR10140		138 ÷ 141					
ESDR10150		148 ÷ 151					
ESDR10180		178 ÷ 181					
ESDR10200		198 ÷ 201					

DRAWING



2.10 ES-DA2

Stainless double threaded screw

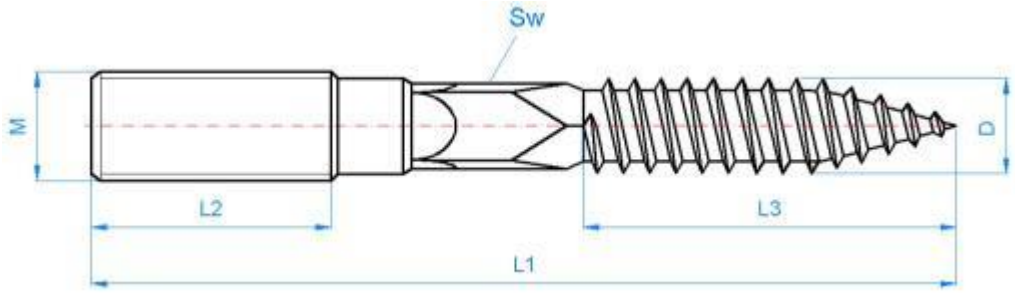
Properties

Stainless Steel A2

Sizes

CODE	ØM	L1	ØD	L2	L3	SW	Recess
ESDA208060	M8	58,5 ÷ 61,5	6,85 ÷ 7,30	17,5 ÷ 22,5	28,95 ÷ 31,05	5,85 ÷ 6,00	--
ESDA210060	M10		8,75 ÷ 9,15			7,85 ÷ 8,00	

DRAWING



2.11 AB-TA

Threaded screws for clamps

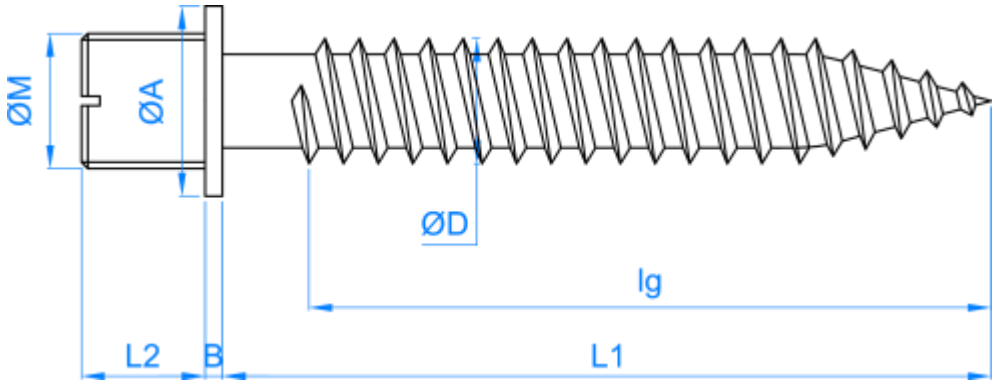
Properties

Steel	Zin Plated coating	Flat recess

Sizes

CODE	ØM	L1	ØD	L2	B	ØA	lg
ABTA0630	M6	28,95 ÷ 31,05	4,85 ÷ 5,15	5,8 ÷ 6,2	0,9 ÷ 1,1	8,0 ÷ 8,2	Full threaded
ABTA0640		38,75 ÷ 41,25					
ABTA0650		48,75 ÷ 51,25					
ABTA0730	M7	21÷23	5,5÷6,1	5,8 ÷ 6,2	0,8÷1,2	9,0÷10,0	Full threaded
ABTA0740		31÷33					
ABTA0750		41÷43					
ABTA0760		51÷53					45
ABTA0770		61÷63					
ABTA0780		71÷73					
ABTA0840	M8	38,75 ÷ 41,25	5,85 ÷ 6,15	7,3 ÷ 7,7	1,3 ÷ 1,5	8,0 ÷ 8,3	Full threaded
ABTA0860		58,50 ÷ 61,50					
ABTA0880		78,50 ÷ 81,50					45
ABTA1050	M10	48,50 ÷ 51,50	6,85 ÷ 7,15	8,8 ÷ 9,2	1,6 ÷ 1,8	12,0 ÷ 12,2	Full threaded
ABTA1070		68,50 ÷ 71,50					45
ABTA1090		**88,25 ÷ 91,75**					

DRAWING



2.12 AB-TA B

Yellow zinc-plated threaded screws for clamps

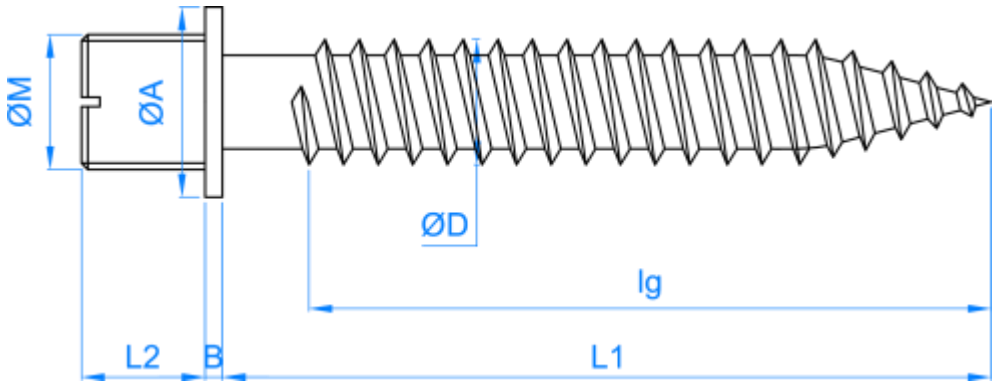
Properties

Steel	Yellow zinc plated coating	Flat recess

Sizes

CODE	ØM	L1	ØD	L2	B	ØA	lg
ABTA0630	M6	28,95 ÷ 31,05	4,85 ÷ 5,15	5,8 ÷ 6,2	0,9 ÷ 1,1	8,0 ÷ 8,2	Full threaded
ABTA0640		38,75 ÷ 41,25					
ABTA0650		48,75 ÷ 51,25					

DRAWING



2.13 AB-TA A2

Stainless threaded screw for clamps

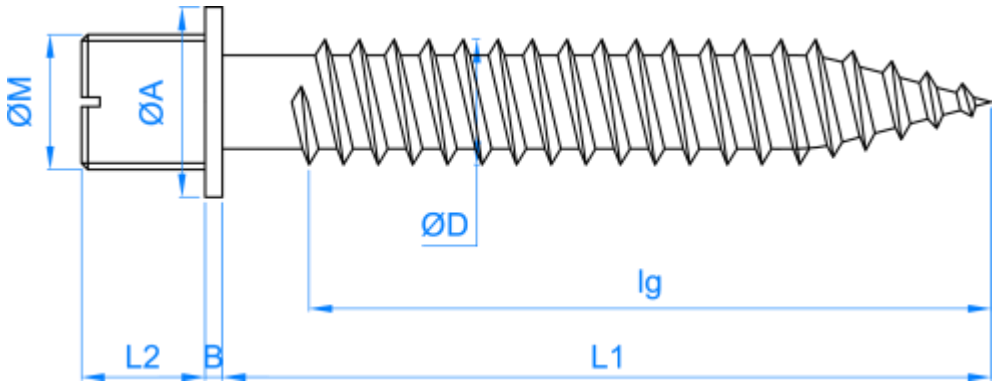
Properties

Stainless Steel A2	Flat recess

Sizes

CODE	ØM	L1	ØD	L2	B	ØA	lg
ABTA20630	M6	28,95 ÷ 31,05	4,70 ÷ 5,20	6,8 ÷ 7,2	1,2	7,8	Full threaded

DRAWING



2.14 AB-TG

Threaded screws for clips

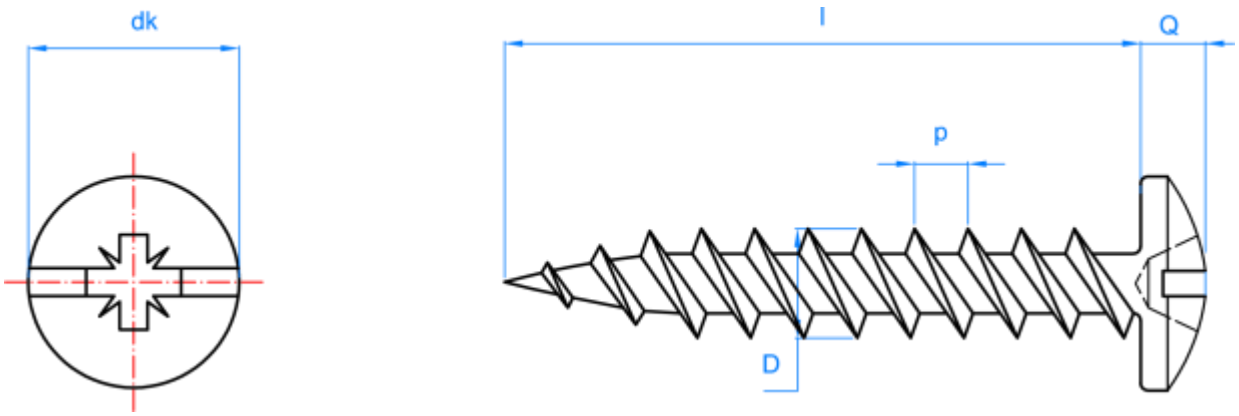
Properties

Steel	Zinc plated coating	Pz + Flat recess

Sizes

CODE	Ødk	L	ØD	p	Q	SW
ABTG4530	9,8	30	4,3	2,0	2,5	2
ABTG4535	9,8	35	4,3	2,0	2,5	2
ABTG4540	9,8	40	4,3	2,0	2,5	2
ABTG5030	11,8	30	4,8	2,2	2,7	3
ABTG5040	11,8	40	4,8	2,2	2,7	3

DRAWING



2.15 PF-ZN

Zinc plated flat bar for fixation

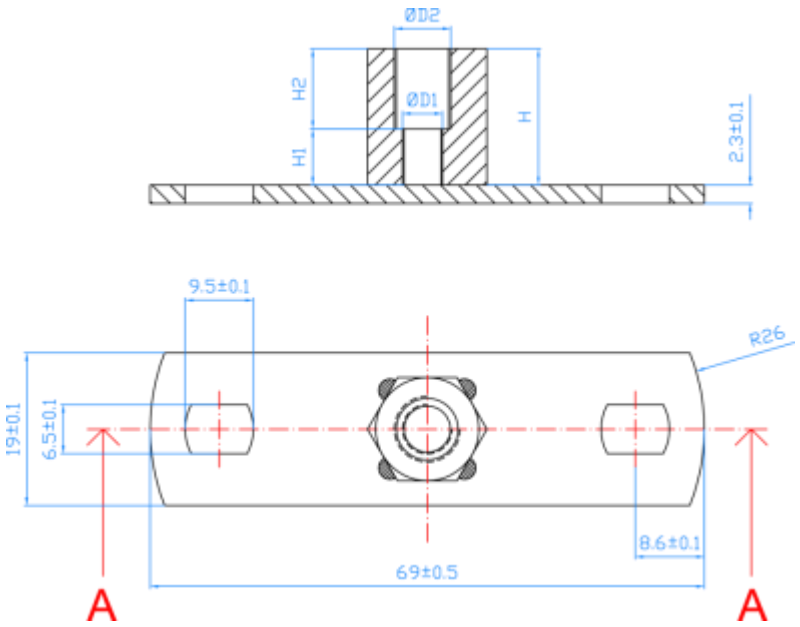
Properties

Steel	Zin Plated coating

Sizes

CODE	D1	D2	H	H1	H2
PFZNM0800	M8	--	7,5	7,5	--
PFZNM0810	M8	M10	17	7	10
PFZNM1000	--	M10	9	--	9

DRAWING



2.16 PF-A4 — Stainless flat bar for fixation

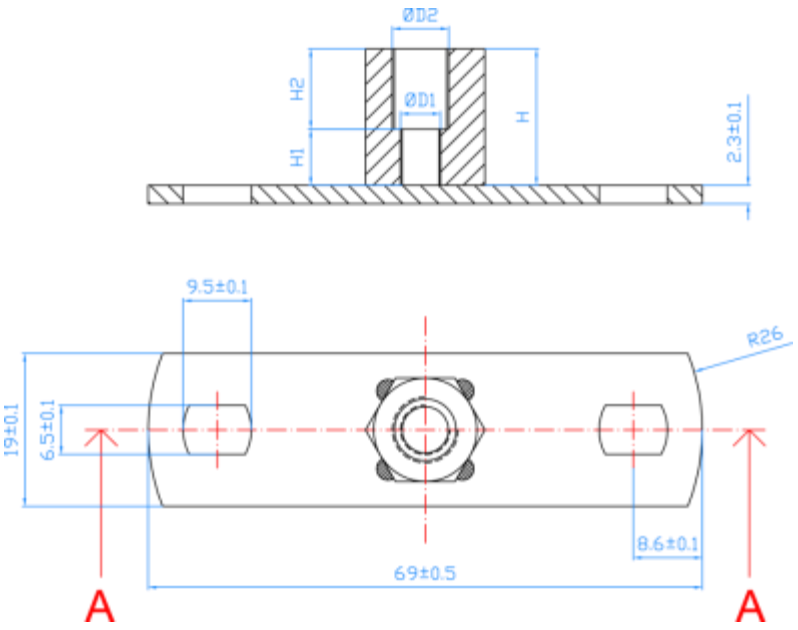
Properties

Stainless steel A2

Sizes

CODE	D1	D2	H	H1	H2
PFA4M0800	M8	--	7,5	7,5	--
PFA4M0810	M8	M10	17	7	10
PFA4M1000	--	M10	9	--	9

DRAWING



2.17 AB-TR

Threaded screw for clamps

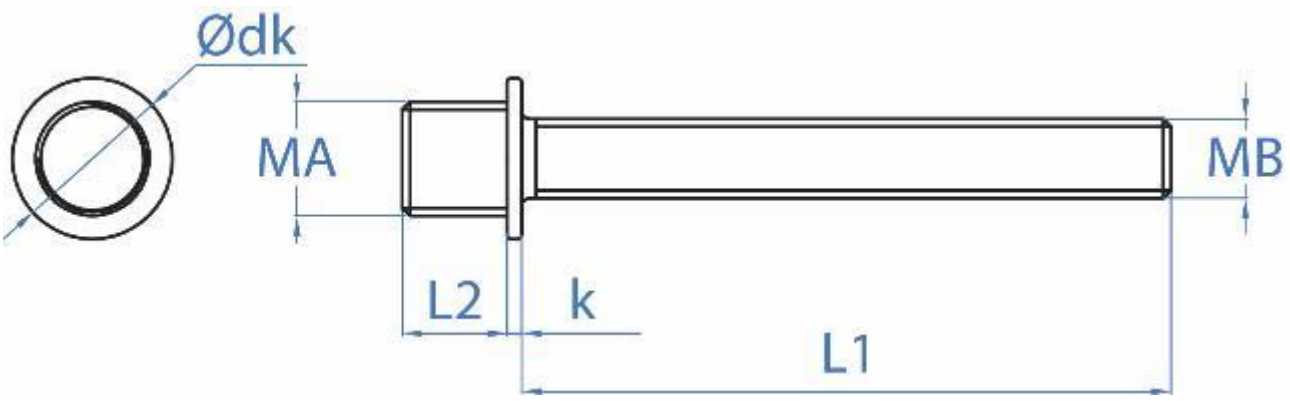
Properties

Steel	Zin Plated coating

Sizes

CODE	MA	MB	L1	L2	k	Ødk
ABTR05030	M7	M5	30	6	1	9
ABTR05040	M7	M5	40	6	1	9
ABTR05050	M7	M5	50	6	1	9
ABTR05060	M7	M5	60	6	1	9
ABTR06040	M7	M6	40	6	1	9
ABTR06050	M7	M6	50	6	1	9
ABTR06060	M7	M6	60	6	1	9

DRAWING



2.18 AB-FP

Flat washer for clamps

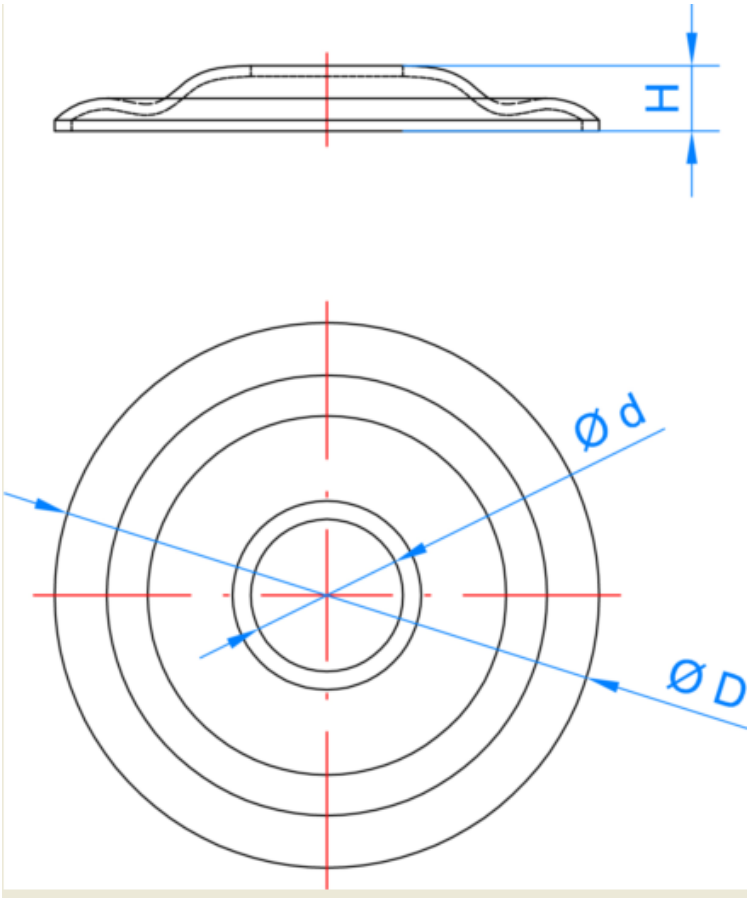
Properties

Steel	Zin Plated coating

Sizes

CODE	ØD	Ød	H
ABFP25	25	7	3
ABFP32	32	7	4

DRAWING



2.19 AB-FC

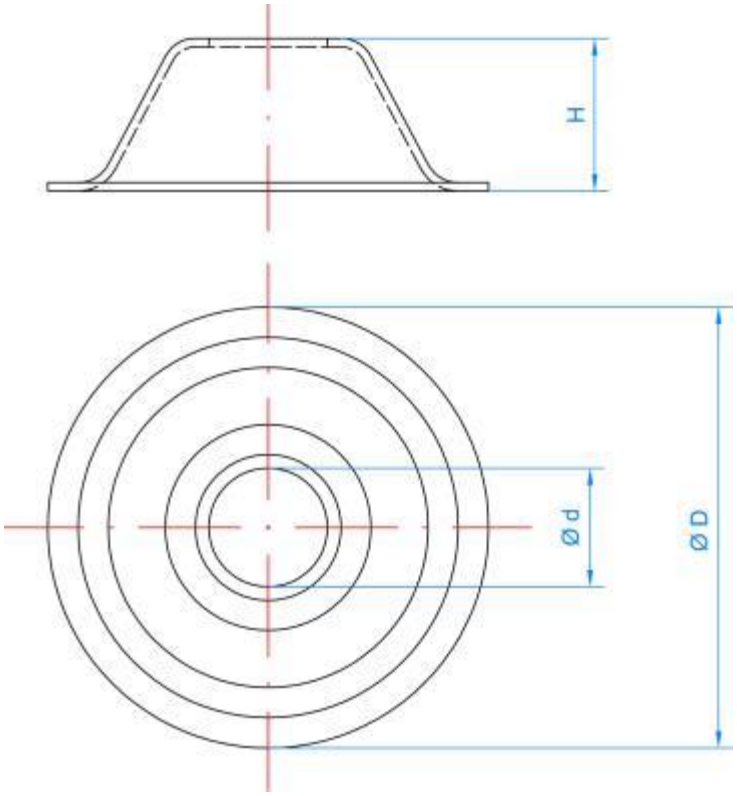
Conical washer for clamps

Properties	
Steel	Zin Plated coating

Sizes

CODE	Ød	ØD	H
ABFC09	7	26	9
ABFC14	7	30	14
ABFC19	7	34	19

DRAWING



2.20 AB-PM7

Cylindrical spacer for clamps M7

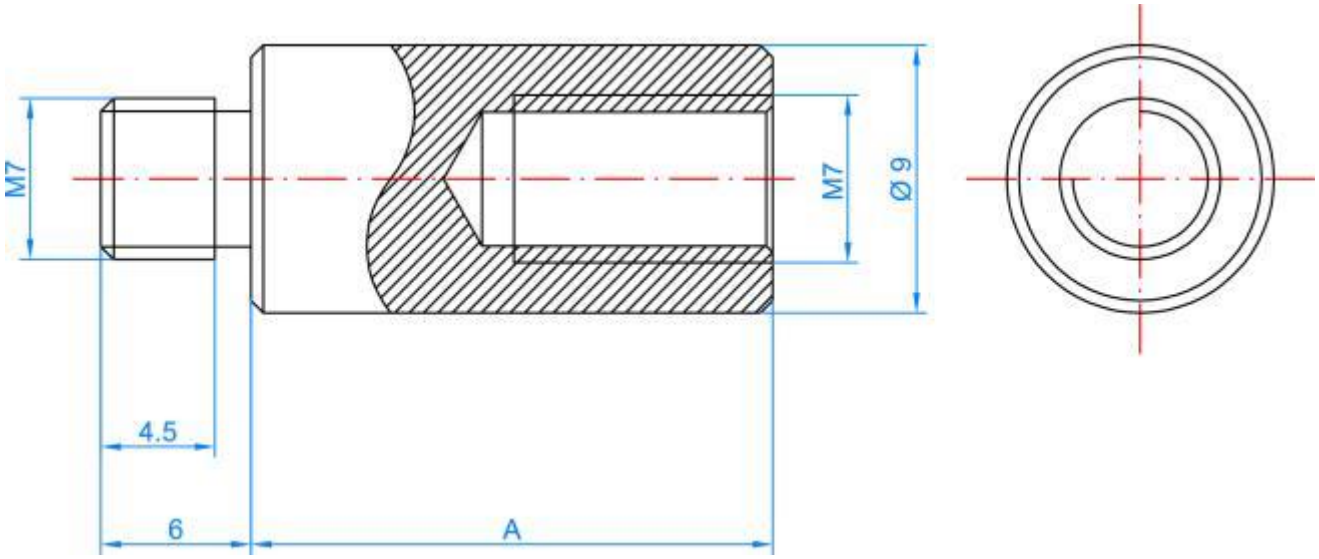
Properties

Steel	Zin Plated coating

Sizes

CODE	A	B	C
ABPM720	20	8	11
ABPM730	30	8	12
ABPM740	40	8	13

DRAWING



2.21 TM-VR — Screw coupling nut for threaded rod

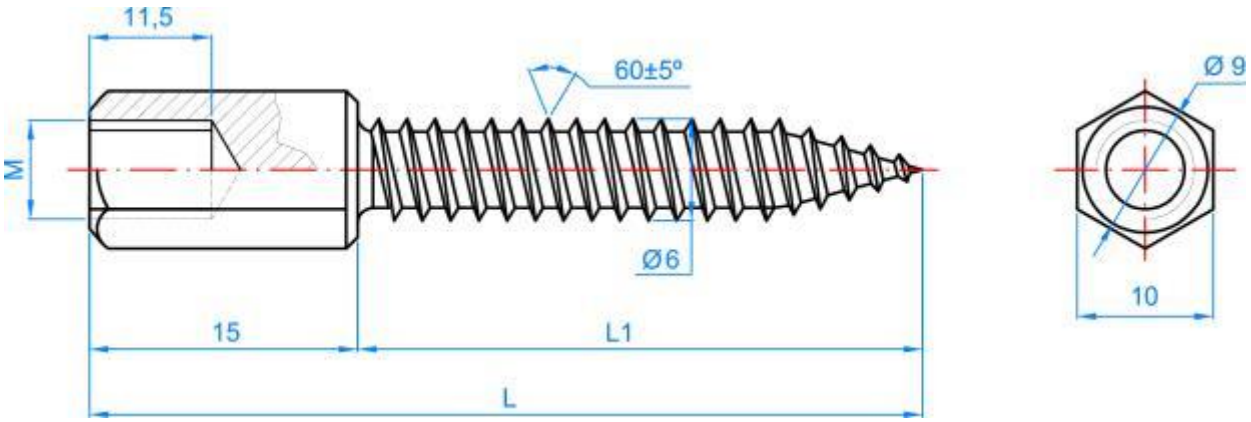
Properties

Steel	Zin Plated coating

Sizes

CODE	M	L	L1
TMVR06065	M6	65	50
TMVR07065	M7	65	50
TMVR08065	M8	65	50

DRAWING



2.22 MAMH

Spacer nut M/F

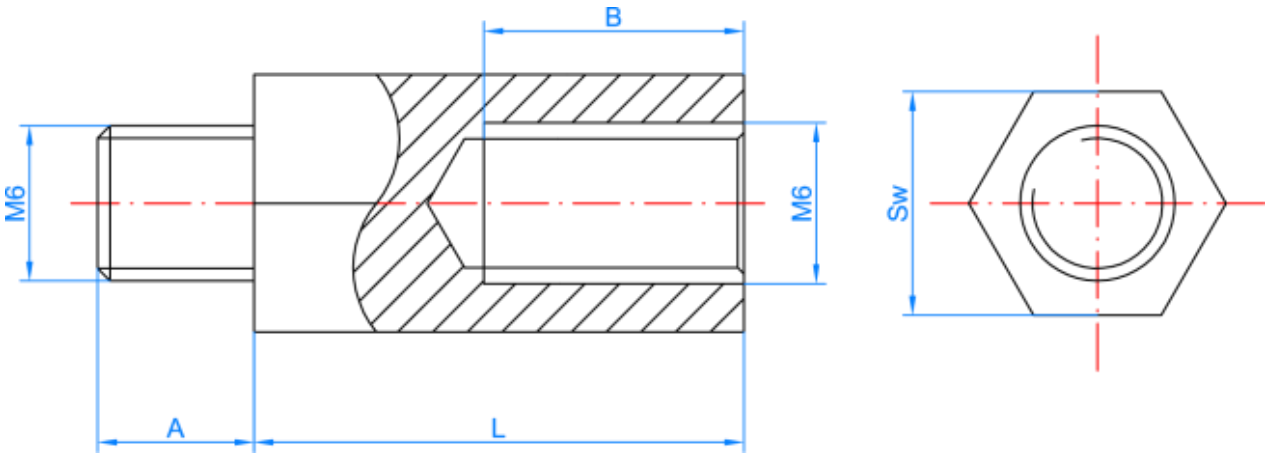
Properties

Steel	Zin Plated coating

Sizes

CODE	A	B	L	SW
MAMH0610	8	8	10	10
MAMH0620	10	12	20	10
MAMH0630	10	18	30	10
MAMH0640	10	18	40	10
MAMH0650	10	18	50	10

DRAWING



2.23 UN-CO

C clamp for duct

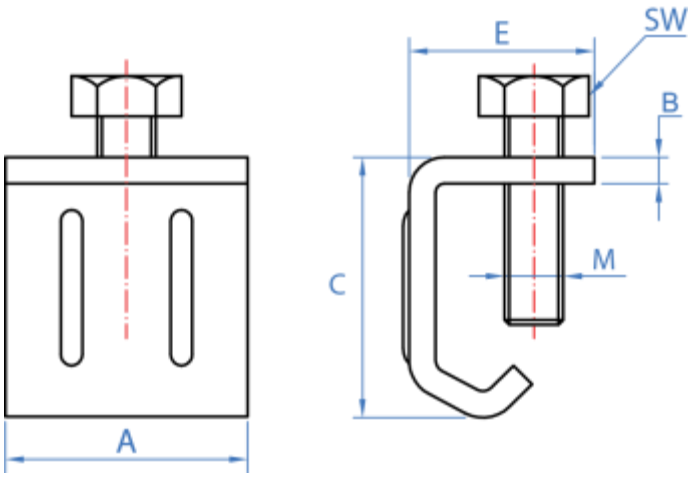
Properties

Steel	Zin Plated coating

Sizes

CODE	A	B	C	E	M	SW
UNCO3220	27,5	2,75	30	22	M8	10

DRAWING



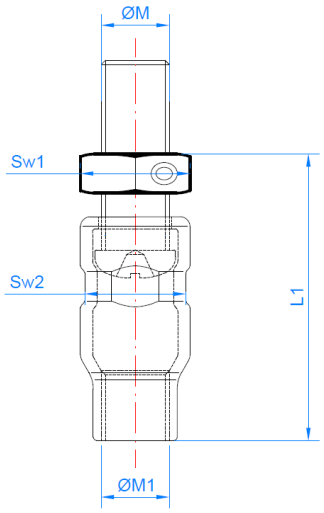
2.24 CO-AR

Articulated Hanger

Properties

Steel	Zin Plated coating

Sizes

CODE	ØM (mm)	ØM1 (mm)	L1	Sw	Sw2
COAR08060	M8	M8	60	12,8 – 12,9	14,8 -14,9
COAR10060	M10	M10	61	16,8 – 16,9	16,8 – 16,9

DRAWING