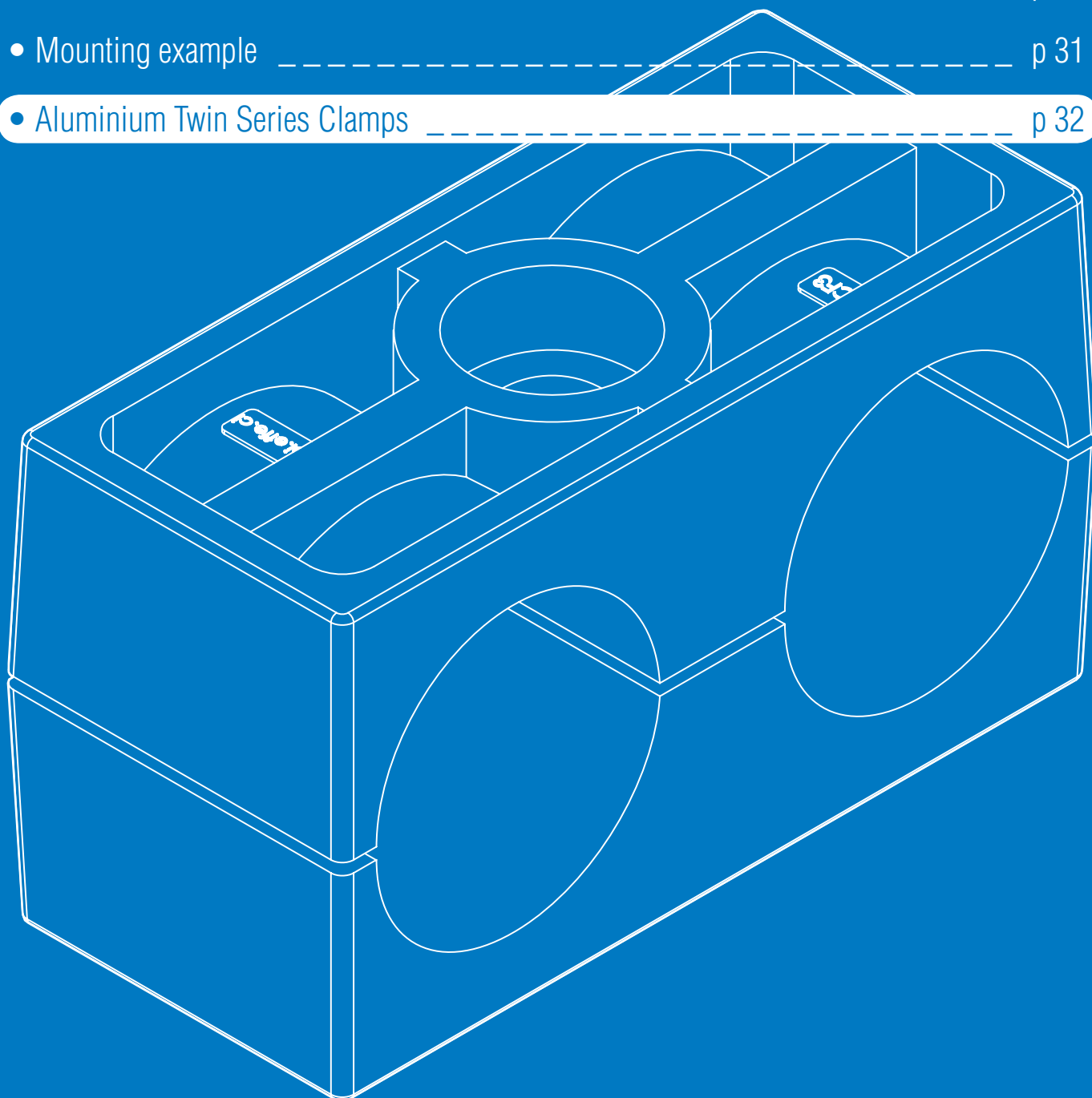


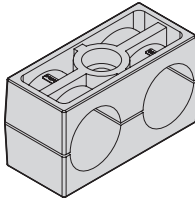
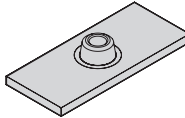
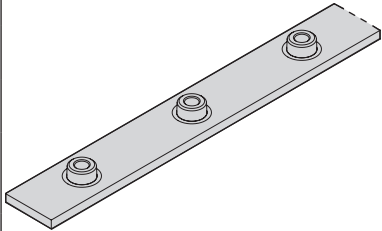
TWIN Series Clamps

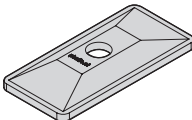
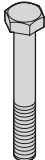
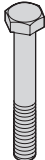
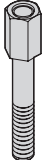
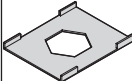
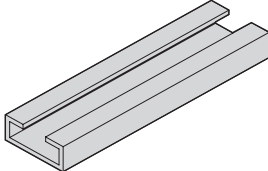
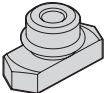
- Order codes p 26
- Dimensions p 28
- Mounting example p 31
- Aluminium Twin Series Clamps p 32



PIPE CLAMPS - TWIN SERIES

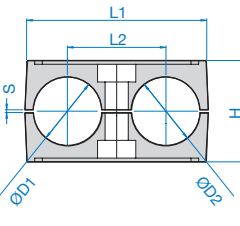
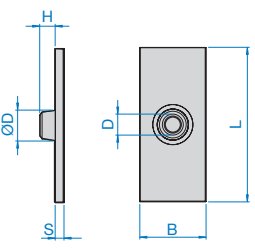
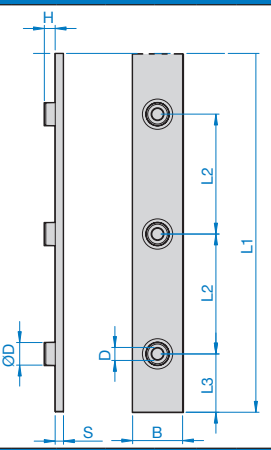
Order Codes

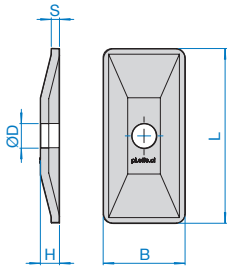
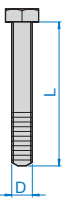
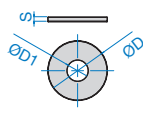
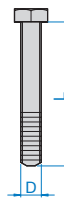
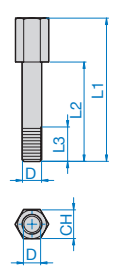
PIPE CLAMPS MATERIAL				Clamp body (two clamp halves)			Single weld plate P CF		Multiple weld plate PM CF		
Code PP : Polypropylene material Colour Blue NB: other colours on demand.											
Code PA : Polyamide material Colour Black .											
Code GM : Rubber TC8GPZ material Colour Black .											
Internal surface clamp body Knurled .											
NB Different diameters are available on demand.											
For Dimensions see pages 28-30. For materials characteristics see pages 31, 78 and 80.				TYPE 1-5			TYPE 1-5		TYPE 1-5		
Components description				# # - # #, # # - # #			P CF# XP CF#		PM CF# XPM CF#		#
Code PI.EFFE.CI. Clamp body	O.D. of Pipe/Tube/Hose			Code PI.EFFE.CI.	Outside diameter in mm	Material of clamp body	Single weld plate S1360 and AISI 316L Type	Type of thread	Multiple weld plate S1360 and AISI 316L Type	Type of thread	Number of clamps
	in mm	Nominal bore pipe in inch	in inch								
CF1	6			CF1	6	# #	P CF1 XP CF1	M6	PM CF1 XPM CF1	M6	5
	6,4		1/4"	CF1	6,4	# #					
	8		5/16"	CF1	8	# #					
	9,5		3/8"	CF1	9,5	# #					
	10	1/8"		CF1	10	# #					
	12			CF1	12	# #					
	12,7		1/2"	CF1	12,7	# #					
CF2	12,7		1/2"	CF2	12,7	# #	P CF2 XP CF2	M8	PM CF2 XPM CF2	M8	5
	13,5	1/4"		CF2	13,5	# #					
	14			CF2	14	# #					
	15			CF2	15	# #					
	16		5/8"	CF2	16	# #					
	17,2	3/8"		CF2	17,2	# #					
	18			CF2	18	# #					
CF3	19		3/4"	CF3	19	# #	P CF3 XP CF3	M8	PM CF3 XPM CF3	M8	5
	20			CF3	20	# #					
	21,3	1/2"		CF3	21,3	# #					
	22		7/8"	CF3	22	# #					
	23			CF3	23	# #					
	25			CF3	25	# #					
	25,4		1"	CF3	25,4	# #					
CF4	26			CF4	26	# #	P CF4 XP CF4	M8	PM CF4 XPM CF4	M8	5
	26,9	3/4"		CF4	26,9	# #					
	28			CF4	28	# #					
	30			CF4	30	# #					
CF5	32		1.1/4"	CF5	32	# #	P CF5 XP CF5	M8	PM CF5 XPM CF5	M8	5
	33,7	1"		CF5	33,7	# #					
	35			CF5	35	# #					
	38		1.1/2"	CF5	38	# #					
	40			CF5	40	# #					
	42	1.1/4"		CF5	42	# #					

Upper plate PS CF	Hexagon head bolt TE	Flat washer RP	Hexagon head bolt TER	High hexagon head bolt VA	Locking plate PB CF	Mounting rail BB	Rail nut with rubber ring DF+AG			
 TYPE 1-5	<i>EN ISO 4014 / 4017 for use with upper plate PS CF</i> 	<i>For use with hexagon head bolt TER</i> 	<i>EN ISO 4014 / 4017 for use with flat washer RP</i> 	<i>For overlapped clamps</i> 	<i>For overlapped clamps</i> 					
PS CF# XPS CF#	TE CF# XTE CF#	#	RP	TE CF# XTE CF#	#	VA CF# XVA CF#	#	PB CF # XPB CF #	BB XBB	DF - # XDF - #
Single weld plate S360 and AISI 316L Type	Hexagon head bolt Steel 8.8 and A4 Type	Type of thread	Flat washer S360 and A4	Hexagon head bolt Steel 8.8 and A4 Type	Type of thread	High hexagon head bolt S360 and AISI 316L Type	Type of thread	Locking plate S360 and AISI 316L Type	Mounting rail Steel DX51D and AISI 316L	Rail nut Steel C20 and AISI316L Type of thread
PS CF1 XPS CF1	TE CF1	M6x35	RP 6 XRP 6 for clamp CF1	TE CF1 XTE CF1	M6x30	VA CF1 XVA CF1	M6	PB CF1 XPB CF1	BB XBB Available heights 11, 14 and 30mm Available lengths 2m	DF CF1 XDF CF1
PS CF2 XPS CF2	TE CF2	M8x35	RP 8 XRP 8 for clamps CF2-CF5	TE CF2 XTE CF2	M8x30	VA CF2 XVA CF2	M8	PB XPB for clamps CF2-CF5		DF XDF for clamps CF2-CF5
PS CF3 XPS CF3	TE CF3	M8x45		TE CF3 XTE CF3	M8x40	VA CF3 XVA CF3	M8			
PS CF4 XPS CF4	TE CF4	M8x50		TE CF4 XTE CF4	M8x45	VA CF4 XVA CF4	M8			
PS CF5 XPS CF5	TE CF5	M8x60		TE CF5 XTE CF5	M8x55	VA CF5 XVA CF5	M8			

PIPE CLAMPS - TWIN SERIES

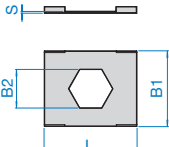
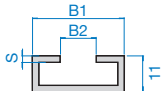
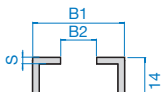
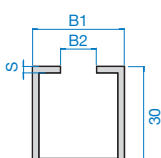
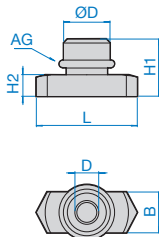
Dimensions

MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES				Clamp body (two clamp halves)					Single weld plate P CF						Multiple weld plate PM CF									
All components and accessories are available in: Carbon steel St360 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L: (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. NB The BB track is treated with zinc-plating SENDZIMIR. All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M. UNC thread: code UNC. For material characteristics see pages 31, 78 and 80.				 TYPE 1-5					 TYPE 1-5						 TYPE 1-5									
				Material PP-PA-GM code CF					Carbon steel St360 code P CF Stainless steel AISI 316L code XP CF						Carbon steel St360 code PM CF Stainless steel AISI 316L code XPM CF									
Code PI.EFFE.CI. Clamp body	O.D. of Pipe/Tube/Hose ØD1 / ØD2			L1	L2	H	S	Width	Code PI.EFFE.CI.	L	B	S	H	ØD	D	Code PI.EFFE.CI.	L1	L2	L3	B	S	H	ØD	CF1
	in mm	nominal bore pipe in inch	in inch																					
CF1	6			36	20	27	0,6	30	P CF1 XP CF1	37	30	3	6,5	12	M6	PM CF1 XPM CF1	196	40	18	30	3	6,5	12	M6
	6,4		1/4"																					
	8		5/16"																					
	9,5		3/8"																					
	10	1/8"																						
	12																							
	12,7		1/2"																					
CF2	12,7		1/2"	54	29	27	0,8	30	P CF2 XP CF2	55	30	5	6	14	M8	PM CF2 XPM CF2	288	58	28	30	5	6	14	M8
	13,5	1/4"																						
	14																							
	15																							
	16		5/8"																					
	17,2	3/8"																						
	18																							
CF3	19		3/4"	67	36	37	1	30	P CF3 XP CF3	70	30	5	6	14	M8	PM CF3 XPM CF3	358	72	35	30	5	6	14	M8
	20																							
	21,3	1/2"																						
	22		7/8"																					
	23																							
	25																							
	25,4		1"																					
CF4	26			81	45	42	1	30	P CF4 XP CF4	85	30	5	6	14	M8	PM CF4 XPM CF4	444	90	42	30	5	6	14	M8
	26,9	3/4"																						
	28																							
	30																							
CF5	32		1.1/4"	106	56	53	1,2	30	P CF5 XP CF5	110	30	5	6	14	M8	PM CF5 XPM CF5	558	112	55	30	5	6	14	M8
	33,7	1"																						
	35																							
	38		1.1/2"																					
	40																							
	42	1.1/4"																						

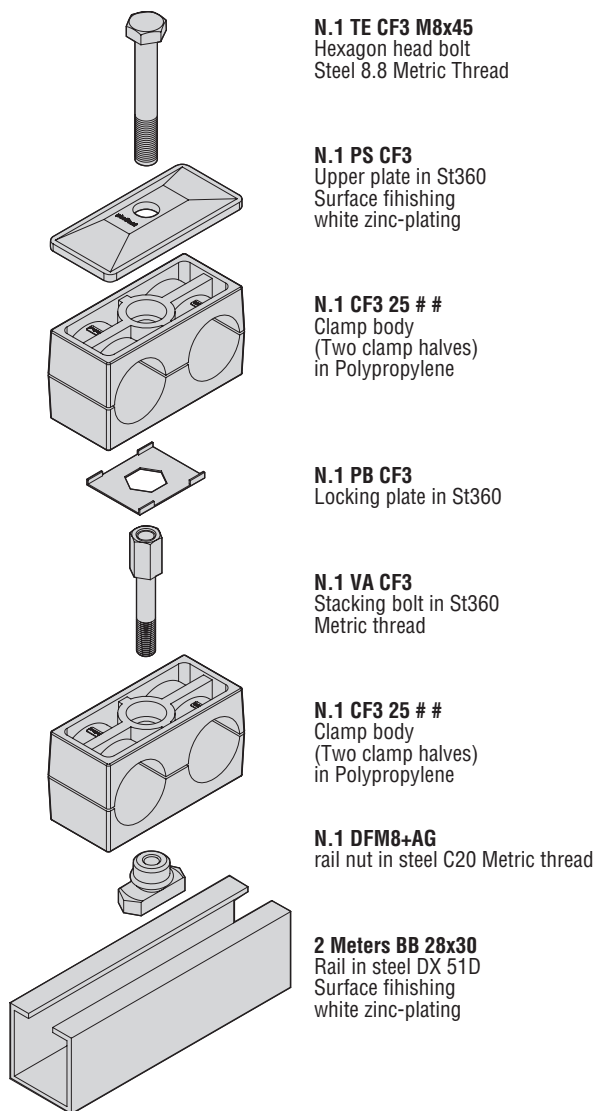
Upper plate PS CF						Hexagon head bolt TE		Flat washer RP				Hexagon head bolt TER		High hexagon head bolt VA					
 TYPE 1-5						EN ISO 4014 / 4017 for use with upper plate PS CF 		EN ISO 7089 for use with hexagon head bolt TER 				EN ISO 4014 / 4017 for use with flat washer RP 		For overlapped clamps 					
Carbon steel St360 code PS CF1 Stainless steel AISI 316L code XPS CF1						Steel 8.8 code TE Stainless st. A4 code XTE		Carbon steel St360 code RP Stainless steel A4 code XRP				Steel 8.8 code TER Stainless st. A4 c. XTER		St360 code VA Stainless st. AISI 316L code XVA					
Code PI.EFFE.CI.	L	B	H	S	ØD	Code PI.EFFE.CI.	DxL	Code PI.EFFE.CI.	ØD	ØD1	S	Code PI.EFFE.CI.	DxL	Code PI.EFFE.CI.	D	L1	L2	L3	CH
PS CF1 XPS CF1	34,5	30	7	3	7	TE CF1 XTE CF1	M6x35	RP CF1 XRP CF1	24	6,5	2	TER CF1 XTER CF1	M6x30	VA CF1 XVA CF1	M6	34	20	14	11
PS CF2 XPS CF2	52	30	7	3	9	TE CF2 XTE CF2	M8x35	RP CF2-5 XRP CF2-5	24	8,5	2	TER CF2 XTER CF2	M8x30	VA CF2 XVA CF2	M8	33	20	15	12
PS CF3 XPS CF3	64	30	7	3	9	TE CF3 XTE CF3	M8x45					TER CF3 XTER CF3	M8x40	VA CF3 XVA CF3	M8	44	29	15	12
PS CF4 XPS CF4	79	30	7	3	9	TE CF4 XTE CF4	M8x50					TER CF4 XTER CF4	M8x45	VA CF4 XVA CF4	M8	49	34	15	12
PS CF5 XPS CF5	102,5	30	7	3	9	TE CF5 XTE CF5	M8x60					TER CF5 XTER CF5	M8x55	VA CF5 XVA CF5	M8	61	46	15	12

PIPE CLAMPS - TWIN SERIES

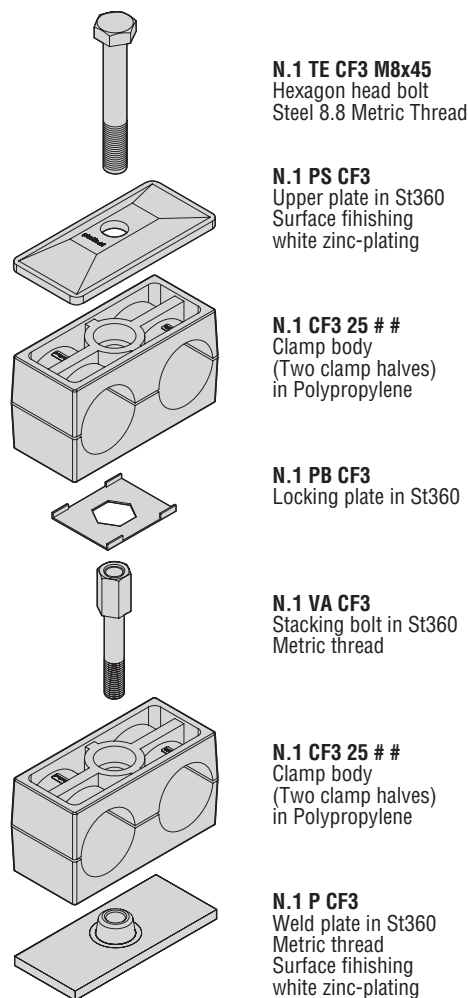
Dimensions

Locking plate PB					Mounting rail BB				Rail nut with rubber ring DF+AG							
<i>For overlapped clamps</i> 					 BB 11  BB 14  BB 30											
Carbon steel St360 code PB Stainless steel AISI 316L code XPB					Steel DX51D code BB Stainless steel AISI 316L code XBB				Steel C20 code DF Stainless steel AISI 316L code XDF							
Code Pl.EFFE.Ci.	L	B1	B2	S	Code Pl.EFFE.Ci.	B1	B2	S	Code Pl.EFFE.Ci.	L	B	H1	H2	ØD	D	AG
PB CF1 XPB CF1	27	22	11,2	0,5	BB XBB	28	11	2	DF CF1 XDF CF1	25,5	10,4	14,5	5,5	11,8	M6	10x2
PB CF XPB CF to clamps CF2-CF5	27	22	12,2	0,5					DF CF XDF CF to clamps CF2-CF5	25,5	10,4	13,5	5	13,8	M8	

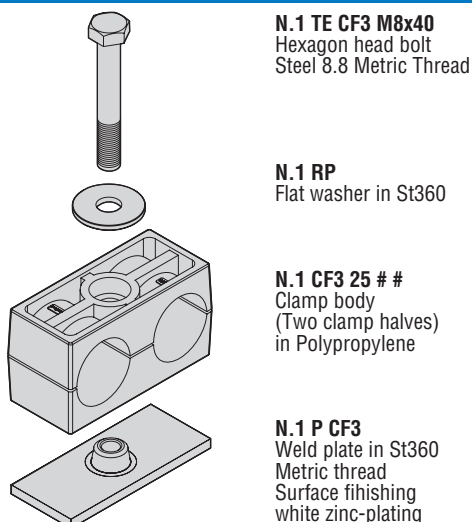
Mounting Example of complete stacked clamp CF3 in Polypropylene for pipe with outside diameter of 25mm, mounting rail nut.



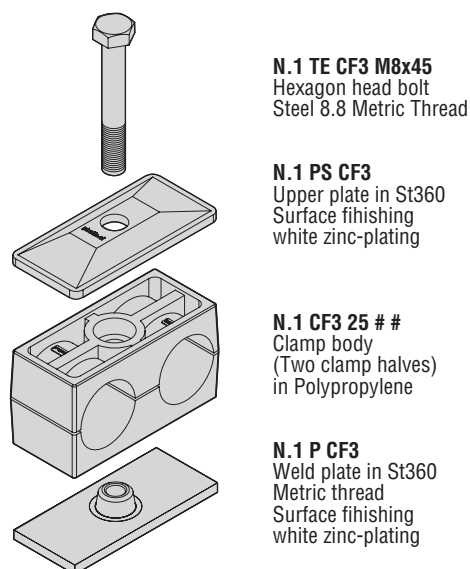
Mounting Example of complete stacked clamp CF3 in Polypropylene for pipe with outside diameter of 25mm, with single weld plate and upper plate.



Mounting Example of complete clamp CF3 in Polypropylene for pipe with outside diameter of 25mm with single weld plate and flat washer.



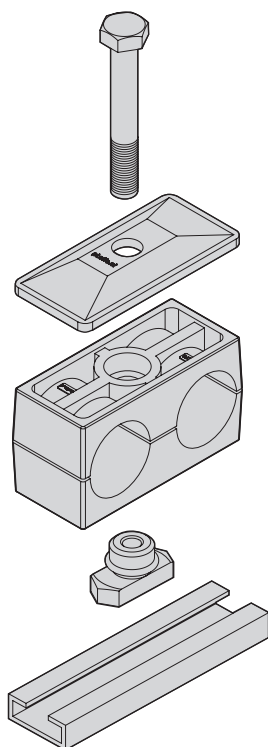
Mounting Example of complete clamp CF3 in Polypropylene for pipe with outside diameter of 25mm with single weld plate and upper plate.



PIPE CLAMPS - TWIN SERIES

Mounting Example

Mounting Example of complete stacked clamp CF3 in Polyamide for pipe with outside diameter of 25mm, mounting rail nut.



N.1 TE CF3 M8x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CF3
Upper plate in St360
Surface finishing
white zinc-plating

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polyamide

N.1 DFM8+AG
Rail nut in steel C20 Metric thread

2 Meters BB 28x11
Rail in steel DX 51D
Surface finishing
white zinc-plating

NOTES

: Material clamp body

PP: Polypropylene

PA: Polyamide

A: Aluminium

GM: Rubber

Material ring AG: Rubber NBR

MECHANICAL CHARACTERISTICS

Hardness shore: 70 A (ASTM D 2240)

Density: g/cm³ 1.25 (ASTM D 792)

Tensile strength: MPa 14.3 (ASTM D 412 C)

Elongation at break: % 390

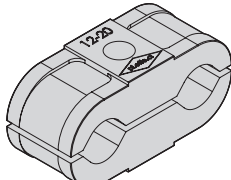
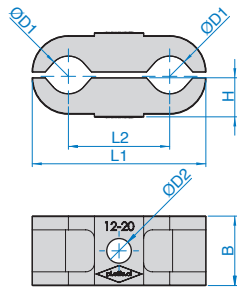
Tear strength: N/mm 49 (ASTM D 624 B)

THERMAL CHARACTERISTICS

Operating temperature range: -30°C to +120°C

PIPE CLAMPS - ALUMINIUM TWIN SERIES

Order Codes and Dimensions

PIPE CLAMP MATERIAL		Clamp body (two clamp halves)						Hexagon head bolt TE		
Code AL : Aluminium material Colour Aluminium .		  AL CF						EN ISO 4014 / 4017 		
Internal surface clamp body smooth.										
For material characteristics, see page 78.										
Component description		Aluminium twin series clamp, for the fixing of hard and flexible hoses, from 12 to 20mm.		Clamp's design allow them to be used in different applications, for example mobile hydraulic applications.				Steel 8.8 code TE Stainless st. Aisi 316L code XTE		
Code PLEFFE.CI. Clamp body	Outside diameter pipe in mm	Order example		L1	L2	B	ØD1	ØD1	H	Mounting hexagon head bolt M8
AL CF	da 12 to 20	AL CF 12-20		60	35	24	from 12 to 20	8,5	13,5	from M8x35 to M8x45