General information clamps: Series

MINIFIX:
For compressed air pipes, cables, light weight return pipes, etc. standard supplied in polyprolylene for diameters 4 up to 15 mm single and double execution.

NORMAFIX:
Standard series for fixing pipes in middle weight systems, like: hydraulic, compressed air, cooling equipment etc. Standard supplied in polypropylene, polyamid, aluminium, for diameters 6 up to 54 mm in metric, inch and nominal bore dimensions.

TWINFIX:
Standard series for fixing 2 pipes with equal diameters in one clamp in middle weight systems. Standard supplied in polypropylene and polyamid for diameters 6 up to 42 mm in metric, inch and nominal bore dimensions.

HOSETWINFIX:
Standard series for fixing synthetic twinhose in one clamp. Standard supplied in polypropylene for 1/4" up to 1/2".

MAXIFIX:
Heavy weight series clamps for fixing of pipe systems in heavy circumstances (higher pressures and heavy mechanic loadings). Standard supplied in polypropylene, polyamid and aluminium, for diameters 6 up to 324 mm in metric, inch and nominal bore dimensions.

VIBRAFIX:
Polypropylene clamps provided with a rubber bushing in the standard series and the heavy weight series to eliminate excessive vibration in a pipe system. Standard supplied for diameters from 6 to 100 mm.

BIGFIX:
Super heavy weight pipe support from galvanized steel for pipes from 167 up to 800 mm.

TUBEFIX:
On request we supply: round steel "U" boltclamps with metric thread from M6 till M24 in steel zinc plated execution or in stainless steel. Delivery for pipe system from 1/2" till 24", next to this also available for tubular profile square 30 mm till 100 mm.

Kind of materials

HALVE CLAMPS:
Polypropylene (PP):
The polyproylene clamps can be used in pratically every general situation, however the clamp temperature is restricted to max. 90°C.

Polyamid (PAG):
The polyamid clamps are reinforced with glass fibre and can be used at higher ambient temperatures till max. 140°C. At the same time the material is self-extinguishing.

Aluminium (ALU):
The aluminium clamps can be used till a constant maximum temperature of 400°C! However, because of the hardness of the surface of the material you will have to take note that the clamping force, as well as the vibration absorption, is lower in the pipe construction than before mentioned synthetic material.

RUBBER BUSHING:
Synthetic rubber (SR):
The rubber bushings will be applied for the Vibrafix. Temperature resistant till max. 150°C. The hardness is Shore A60. By means of the flexible pipe assembling the vibration absorption is rather high by which the pipe work almost can be mounted soundless.

MOUNTING PARTS:
Steel (Fe 33):
All mounting parts are standard, like: welding plates, cover plates, mounting bolts, rails etc. manufactured from material Fe33, with a surface treatment. Welding and cover plates are yellow bicromated and the other parts are electro-zinc plated.

Stainless steel (AISI 316L):
Almost all parts, like: welding plates, cover plates, mounting bolts, rails etc. are supplied from stainless steel, material 1.4404 with very good welding properties. Therefore the resistance in combination with the synthetic clamps is very large.

Mounting instructions for pipe clamps

General:
To guarantee an optimal mounting of your pipe work you have to follow undermentioned instructions, taking note that you use the correct dimensions and the parts intended therefore.The clamp caps are equal, one set exists of two caps (the upper and the lowest cap are equal).

Clamp distance:
Clamps to be mounted with a maximum distance of 1500 mm, using couplings like cutting ring connections, flanges etc. (straight, square, T-pieces), we recommend a clamp before and after the couplings. After or before a bend in a pipe we recommend at least one clamp.

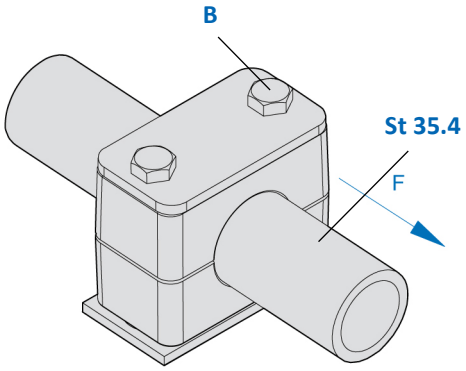
Fixing weld plates:
Weld plates (electric weld), push on the lowest cap, insert pipe, mount the upper cap and bolt unit together. To avoid damage to the plastic it is recommended that the plates be welded before plastic clamp mounting. Never weld with complete mounted clamps.

Finishing:
The upper cap can be placed over the pipe and after that the cover plate can be mounted with the right bolts. ATTENTION! do not fasten the mounting bolts to tight, there has to be an opening between the two caps ! (see for this the given dimensions on the product pages)

Rail mounting:
Cut the rail on the desired length and fix the rail on a solid base. After this you have to put the rail nut into the rail (quarter turn) and mount the O-rings supplied with, so that they cannot move. On the rail nuts the lowest cap can be placed, further mounting as described under fixing weld plates.

Stacking mounting:
This is almost equal to fixing welding plates and rail mounting, however the way of mounting has to take place by layers, between every layer you have to use locking plates so that afterwards the entire construction is still dismountable.

Bolt tightening torques and maximum axial clamp force



NORMAFIX SERIE 3930

Se	*B*	*PP*		*PAG*		*ALU*	
	DIN 931	B Nm	*F* kN	B Nm	*F* kN	B Nm	*F* kN
1	M6	8	0,7	10	0,7	12	3,6
2		8	1,2	10	0,9	12	4,3
3		8	1,5	10	1	12	4,4
4		8	1,7	10	1,8	12	4,8
5		8	1,8	10	1,9	12	5,2
6		8	2	10	2,1	12	7,5
7		8	2,2	10	2,8	12	9
8		8	2,3	10	2,5		
9		8	2,4	10	2,5		

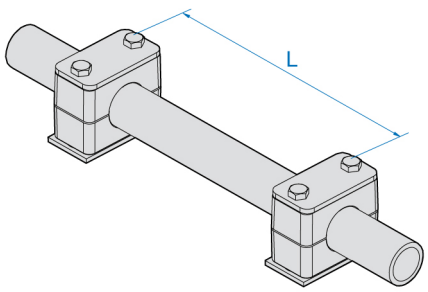
MAXIFIX SERIE 4930

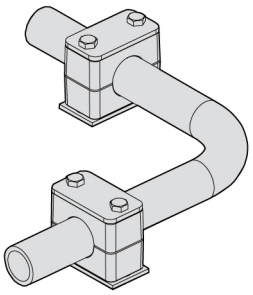
Se	*B*	*PP*		*PAG*		*ALU*	
	DIN 931	B Nm	*F* kN	B Nm	*F* kN	B Nm	*F* kN
1	M10	13	1,8	21	4,5	32	13
2	M10	13	3	21	4,7	32	16
3	M10	15	3,5	25	5,2	37	16,5
4	M12	30	8,5	40	9,5	55	30,5
5	M16	46	11,5	56	27	125	36,4
6	M20	80	15	155	25	225	71,7
7	M20	100	30	185	34	235	62,5
8	M30	190	41	360	50	500	86,7
9	M30	210	125	380	130	500	190,5

TWINFIX SERIE 3930

Se	*B*	*PP*		*PAG*	
	DIN 931	B Nm	*F* kN	B Nm	*F* kN
1	M6	6	1,1	6	1,1
2	M8	13	2,5	13	2,5
3	M8	13	2,1	13	2,1
4	M8	13	2,9	13	3,1
5	M8	9	2,2	9	2,7

Distance between clamps





Type	REF.	Se	○	L
		1	6÷13,25	0,9 m
		2	6÷13,25	1,0 m
		3	14÷18	1,2 m
Normafix	3900 / 3930	4	20÷25,4	1,5 m
Twinfix	3930	5	28÷32	1,5 m
Vibrafix	5900	6	32÷45	2,2 m
Superfix	6900	7	45÷54	2,7 m
		8	57,2÷76,1	3,2 m
		9	88,9÷102	4,0 m
		1	6÷20	1,0 m
		2	20÷30	1,5 m
		3	30÷45	2,2 m
		4	38÷50	2,2 m
		4	53÷70	3,0 m
Maxifix	4930	5	65÷73	3,0 m
Vibrafix	5930	5	80÷90	3,5 m
		6	100÷121	4,5 m
		7	133÷168	5,0 m
		8	168÷219	6,0 m
		9	219÷324	6,7 m
		1	166÷220	6,0 m
		2	221÷275	6,7 m
		3	276÷325	7,0 m
		4	326÷370	7,2 m
Bigfix	8900	5	371÷425	7,8 m
		6	426÷480	8,0 m
		7	481÷550	8,5 m
		8	551÷630	9,0 m
		9	631÷715	10,0 m
		10	716÷800	12,0 m

Material properties

		Testmethode Methode de test Test method	PP	PAG	ALU	SR
Mechanische eigenschappen Caractéristiques mécaniques Mechanical properties	A	DIN 53452	43 N/mm²	230 N/mm²	70 N/mm²	
	B	DIN 53453	11 KJ/m²	40 KJ/m²		
	C	ASTM D 695	12000 N/mm²	160 N/mm²	HB 500 ÷ 600 N/mm²	
	D	DIN 53452	1400 N/mm²	9000 N/mm²	68000 ÷ 78000 N/mm²	
	E	DIN 53455	35 N/mm²	160 N/mm²	170÷220 N/mm²	
Thermische eigenschappen Caractéristiques thermiques Thermal properties	F	UL 94	HB	VO		
	G	DIN 53461	98 °C	260 °C		
	H		-30/+90 °C	-40/+140 °C	+400 °C	-40/+150 °C
	I	DIN 52612	0,2 W.K.$^{-1}$m^{-1}	0,2 W.K.$^{-1}$m^{-1}	0,2 ÷ 0,4 $\frac{Cal}{cm \times s \times °C}$	
	J	ASTMD696	1,8x10^{-4} K^{-1}	2-3x10^{-5} K^{-1}	2,37x10^{-5}/°C	
Elektrische eigenschappen Caractéristiques electriques Electrical properties	K	DIN 53482	10^{18} Ohm x cm.	10^{15} Ohm x cm.		
	L	DIN 53480	KA3C-KB>660 KC>660	KA3b-KB450-KC450		
Chemische eigenschappen Caractéristiques chimiques Chemical properties	M		□	□	x	□
	N		■	■	■	■
	O		■	■	□	□
	P		■	■	x	■

A
Buigspanningsgrens
Limite de flexion
Flexural strength

B
Kerfslagvastheid
Résistance aux heurts
Impact strenght

C
Drukvastheid
Résistance à la compression
Compressive strenght

D
Doorbuiging E-modules
Module dynamique d'élasticité
Flexural E-modulus

E
Trekvastheid
Résistance à la traction
Tensile strenght

F
Brandbaarheid
Comportement à la chaleur
Flammability

G
Buigingstemperatuur onder druk
Température de fléchissement
Deflection temp. under load

H
Max. temperatuur continu
Température d'utilisation
Max. continual temperature

I
Warmtegeleidingscoëfficiënt
Conductibilité thermique
Heat conduction

J
Warmte uitzettingscoëfficiënt
Coefficient de dilatation thermique
Coefficient of linear thermal exp.

K
Doorgangsweerstand
Résistance spécifique
Specific resistance

L
Kruipstroomsterkte
Résistance aux dispersions élèctriques
Tracking resistance

M
Zwakke zuren - Logen
Acides affaiblis - Solution alcaline
Weak acids - Alkaline solution

N
Benzine - Minerale oliën
Essence - Huiles minérales
Benzine - Mineral oils

O
Alcohol - Andere oliën
Alcool - Autres huiles
Alcohol - Other oils

P
Zeewater
Eau de mer
Sea water

■
Goed bestendig
Très bonne résistance
Good resistance

□
Beperkt bestendig
Résistance limitée
Limited resistance

x
Niet bestendig
Mauvaise résistance
Non resistant