

Application overview

Application - pipe clamps what for and how?

The service pipe systems, used by different trades, around buildings and industrial plants are all held in place with pipe clamps. The mostly used types of pipe materials are steel, stainless steel, copper, or plastic pipes all with different diameters.

Different types of pipe clamps are used for fixing various types and sizes of pipelines. They differ in the loads they take and, in different temperatures. All while abiding by different standards and certain regulations like fire protection or noise insulation.

Overview of the most important types of pipelines:



Energy and water supply



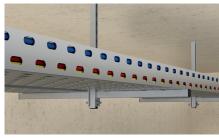
Gas pipeline and compressed air line



heating, cooling, drinking water and Sprinkler pipes



Ventilation ducts and pipes



Electronic installations (medium and low voltage)



Wastewater and rain water pipe



Refrigeration pipes



Air-conditioning pipes

Product overview The fischer pipe clamps assortment.

Pipe clamp FGRS

The one-piece hinged pipe clamp with floating single screw



6,0 8,0 11,0 13,0 15,0 17,0		
heavy-weight		
ndad inetallation	Franchic secure fixing fo	r nines un to 2" with threaded
	rods or stud screws	i pipes up to 2 - with threateu
	Load range: 0,8-0,9 kN	Clamping range: 8 mm to 63 mm
	Sound insulation insert:	
t	0 6,0 8,0 11,0 13,0 15,0 17,0 t heavy-weight anded installation insulation	t heavy-weight anded installation -installation insulation Load range: 0,8–0,9 kN

Pipe clamp FGRS Universal M8

The hinged pipe clamp with the convenient and secure quick-release fastener



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Pipe clamp FGRS Universal M8/M10

The hinged pipe clamp with the convenient and secure quick-release fastener



	im tensi 6 0,8 light	1,0 1,5	1,8 2	(1,3 kN) 2,5 3,0 mediu	'		6,0		11,0 avy-	<u> </u>		17,0	sound insulation tested	
- Rapid	-locking	necting r g mechai	nism w	ith crim	ped e					y ins	allat	on	Time-saving secure fixing threaded rods or stud so	ng for pipes up to 4" with crews
- Safety	/ lock to	r pipe ac	ljustme	ent with	out bu	rstin	g the	clar	np				Load range: 0,7–1,3 kN	Clamping range: 12 mm to 115 mm

Product overview The fischer pipe clamps assortment.

Pipe clamp FRS-L Universal

The two-screw pipe clamp with a rapid locking mechanism and combination connection nut



Maximum tensile load: 239 kg (2,4 kN) 1,8 | 2,5 | 3,0 | 4,0 | 5,0 | 6,0 | 8,0 | 11,0 | 13,0 | 15,0 | 17,0 0,4 0,6 0,8 1,0 1,5 medium weight heavy-weight



Fire resistance classification R120 according DIN EN 1363-1





German standard regulations for fire safety requirements for pipingsystems (11/2005) Minimum distance ≤50 mm



- Fire inspection report and sound insulation report guarantee independently tested function and safety
- Rapid-locking mechanism with crimped edges allows an easy installation - Safety lock for pipe adjustment without bursting the clamp
- Connecting nut with combination thread M8/M10 ensures fewer stock items
- Zinc plating:

zinc-plated steel, 5-9 µm

Easy and slight secure fixing for pipes with threaded rods or stud screws

Load range: 1,0-2,4 kN

Clamping range: 8 mm to 172 mm, gapless!

Sound insulation insert: EPDM; chlorine-free, silicone-free

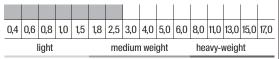
Note: The load specification of load types applies respectively to the largest size pipe clamps.

Pipe clamp FRS / FRS zl / FRS A2 / A4

The two-screw pipe clamp with combination connecting thread



Maximum tensile load: 250 kg (2,5 kN)





Fire resistance classification R120 according DIN EN 1363-1



- Fire inspection report and sound insulation report guarantee independently
- Two screws allow an easy adjustment to suit the outer pipe diameter
- Combination connecting nut with thread M8/M10
- Approvals are only valid for FRS and FRS zl

Galvanizing variants: zinc-plated steel, 5-9 µm

Additional zinc flake coating a2 or A4 stainless steel



Secure fixing for pipes with threaded rods or stud screws (also when there are fire protection requirements)

Minimum distance ≤ 50 mm

Load range: 1,0-2,5 kN

Clamping range: 12 mm to 168 mm

Sound insulation insert:

With or without insert, kind of insert (EPDM, silicone,)

Pipe clamp FRSM - metric / inch

The large pipe clamp with sound insulation insert for medium to heavy loads



Maximum tensile load / metric: 800 kg (8,0 kN)

		light				me	diun	ı wei	ght		he	avy-v	veigh	nt	
Maxi	mum	tens	ile lo	ad /	inch:	315	kg (3,	,15 kN	V)						
															<u> </u>
0,4	0,6	0,8	1,0	1,5	1,8	2,5	3,0	4,0	5,0	6,0	8,0	11,0	13,0	15,0	17,0
	light medium weight								he	avy-ı	veigh	nt			

1,8 | 2,5 | 3,0 | 4,0 | 5,0 | 6,0 | 8,0 | 11,0 | 13,0 | 15,0 | 17,0

- High tested loads guarantee safe and secure use
- Connecting nut metric for M10/M12, M12/M16 or M16
- Perforated pipe strip from diameter 124 mm metric
- Inch connecting nut ½

zinc-plated steel, 5-9 µm

Secure fixing of medium to heavy pipes with threaded rods or stud screws

Load range: 2,5-8,0 kN/m. 1.5-3.15 kN/inch. Clamping range: 19mm to 508mm/m. 14mm to 169 mm/inch.

Zinc plating:

Sound insulation insert:

With or without insert, kind of insert (EPDM, silicone,)

Note: The load specification of load types applies respectively to the largest size pipe clamps.

Product overview The fischer cold clamps assortment.

FRSK refrigeration clamp

The two-screw refrigeration pipe clamp with variable clamping range and rapid-locking-mechanism



Maxi	mum	tens	ile lo	ad: 3	844 k	g (3,	4 kN)										
0,4	0,6	0,8	1,0	1,5	1,8	2,5	3,0	4,0	5,0	6,0	8,0	11,0	13,0	15,0	17,0		
	I	ight				me	dium	ı wei	ght		he	avy-	weigl	nt			
– Var – Ra	pid-lo	ockin	g-me	echai	nism	for e	asy a	nd sa	afe in	stalla			to Ø 1	41,2 :	mm)	Installation of pipelines in air-conditioning technolog	•
- 60	nneci	lion r	iut w	ith co	ındın	nauo	n unre	au N	/18/ IVI	110						Load range: 0,05-3,44 kN	Clamping range: 10,5 mm to 219 mm
Galva Galva				1												Material: Polyurethanschaum (PIR), HFCKW, PBDE and Formald surface	80/120 kg/m³, FCKW, HFKW, dehyd-free, silicone-free

KFT refrigeration clamp

The two-screw refrigeration pipe clamp made of closed PLIR foam



Maximum tensile load: 700 kg (7,0 kN)		
0,4 0,6 0,8 1,0 1,5 1,8 2,5 3,0 4,0 5,0 6,0 8,0 11,0 13,0 15,0 17,0 light medium weight heavy-weight		
PUR clamp body enables the handling of high loads Glued soft foam inlay reduces the assembly effort	Installation of pipelines in air-conditioning technolog	•
– Connection nut with combi triple thread M8/M10/1/2"	Load range: 0,15–7,0 kN	Clamping range: 9,5 to 323,9 mm
Galvanisation: Galvanised, 5–9 µm	Material: Closed-cell polyurethane f silicone-free	oam (PUR), 250 kg/m³,

Note: The load specification of load types applies respectively to the largest size pipe clamps.

Compass Overview of the

Overview of the temperature range and load level.



Overview of load level			
Line types	Two-screw	Single screw clamps	Two-screw with rapid locking mechanism
Light	-	FGRS / FGRS Universal / FKS	-
Medium weight	FRS / FRSM inch	-	FRS-L Universal
Heavy weight	FRSM metric	-	-

Compass Which pipe clamp for which application?

Service pipe systems for I	ight pipe cla	mps											
Pipe clamps	Heating	Cooling	Steam	Ventilation	Water	Rain water, waste water	Sprinkler	Gases and compressed air	Medical gases	Process lines	Electric cable pipe and ductwork for cables	Water and waste water treatment	Energy and water supply
FGRS Universal	•	-	_	-	•	-	-	•	•	•	-	•	•
FGRS	•	_	_	_	•	-	_	•	•	•	-	•	•
FKS	•	-	-	-	•	-	-	•	•	•	-	•	•
FUBD	-	-	-	-	-	-	-	-	-	-	•	-	-

Service pipe systems for	medium weig	jht pipe clan	ıps										
Pipe clamps	Heating	Coaling	Steam	Ventilation	Water	Rain water, waste water	Sprinkler	Gases and compressed air	Medical gases	Process lines	Electric cable pipe and ductwork for cables	Water and waste water treatment	Energy and water supply
FRS-L Universal	•	-	-	-	•	-	-	•	•	•	-	•	•
FRS Triple	•	-	-	-	•	-	-	•	•	•	-	•	•
FRS	•	-	-	-	•	•	-	•	•	•	-	•	•
FRSH	0	-	•	_	-	-	-	-	-	_	-	-	-
FRSN Triple	•	-	-	-	•	•	-	•	•	•	-	•	•
FRSN	•	-	-	-	•	•	_	•	•	•	0	•	•
FRSM zoll	•	-	-	-	•	•	-	•	•	•	-	•	•
FRS K	-	•	-	_	_	-	_	-	-	_	_	_	-
KFT	-	•	-	-	-	-	-	-	-	-	-	-	-
FRSP (FM)	-	-	-	-	-	-	•	-	-	-	-	-	-
FRSL (VdS)	-	-	-	-	-	-	•	-	-	-	-	-	-
LGS	_	_	_	•	_	_	_	_	_	_	_	_	_

o Possible • Recommended

Service pipe systems for	heavy weigh	t pipe clamp	s										
Pipe clamps	Heating	Cooling	Steam	Ventilation	Water	Rain water, waste water	Sprinkler	Gases and compressed air	Medical gases	Process lines	Electric cable pipe and ductwork for cables	Water and waste water treatment	Energy and water supply
FRSM metric	•	-	-	-	•	•	_	•	•	•	-	•	•

Note: While choosing the clamps, the load per clamp is required.

NEW.

Refrigeration pipe clamp FRSK.
The variable refrigeration
pipe clamp with flexible
clamping range and
rapid-locking-mechanism.

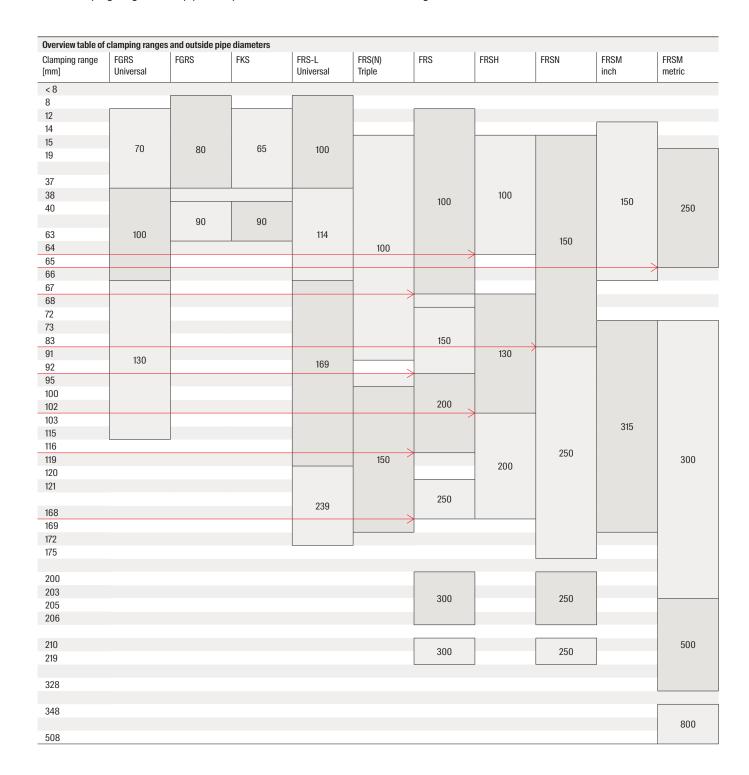


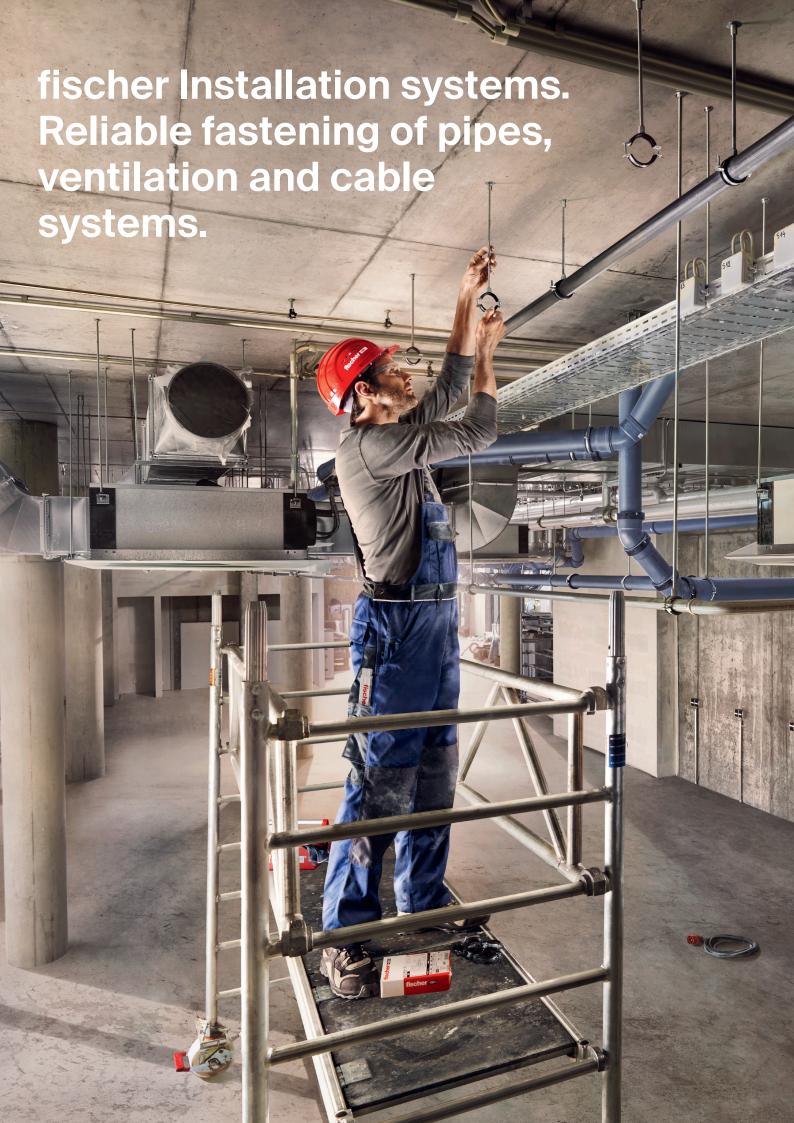
Loads

Note:

The stated load ranges are a guide and do not correspond with the exact clamping ranges of the pipe clamps.

These are available in the catalogue documents. Load details are in kg.





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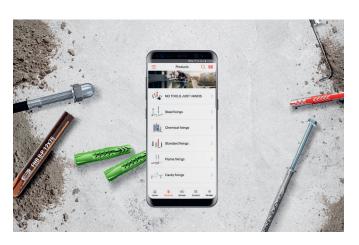
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fischerwerke GmbH & Co. KG Klaus-Fischer-Straße 1 · 72178 Waldachtal Germany T +49 7443 12 - 0 www.fischer-international.com · info@fischer.de