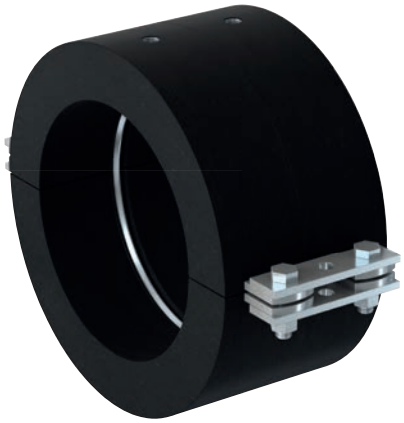
Refrigeration fixed point clamp FFRC

Fixed point pipe clamp with rigid foam insulation for absorbing pipe expansions in cold-running pipelines



Cold running media lines

Applications

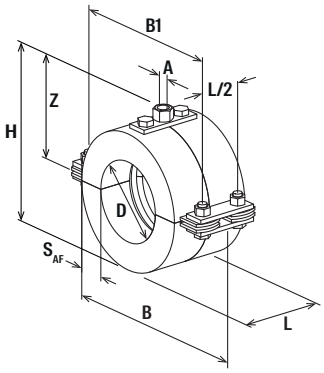
- Cooling lines
- Refrigeration lines
- Cold running media lines
- For use in dry interior areas.

Advantages

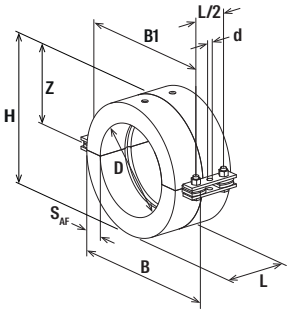
- The FFRC Refrigeration clamp made of closed PUR foam can be used with all common insulation materials.
- The design of the FFRC Refrigeration clamp with external screw holes and internal welding ring enables the support of high loads.
- The age-resistant material ensures consistent function of the FFRC.
- The included connecting plates with matching connection holes and threads reduce the assembly effort by providing an optimal fit.
- The FFRC Refrigeration fixed point clamp can be mounted on the fixed point saddles FFS-M or FFS-H as well as on the braced fixed points FFP.

Properties

- Material: closed-cell polyurethane foam, silicone-free, halogen-free
- Density: 250 kg/m³
- Heat conductivity: 0.045 W/(m*K)
- Fire behaviour: DIN 4102: Class B2
- Diffusion resistance: >1000 µ
- Compressive strength: 3,96 mPa at 23 °C
- Temperature range: -50 °C to +105 °C
- Material steel clamp: steel, electro zinc-plated
- Material welding ring: steel



FFRC with coupler (to 168,3)



FFRC without coupler (above 193,7)

6 Technical data

Item	Item no.	Size [in]	Clamping range D [mm]	Thread A	Hole-Ø d [mm]	Insulation thickness S_{AF} [mm]	Length of insulation material L [mm]	Width B [mm]	Width B1 [mm]	Height H [mm]	Height Z [mm]	Max. recom. static load (centr. tension) $Z_{z\,rec.}$ [kN]	Max. recom. axial load $F_{x\,rec.}$ [kN]	Installation torque (Bolt Connector Screws) $T_{inst.BC}$ [Nm]	Installation torque (Coupler) $T_{inst.Co}$ [Nm]	Sales unit [pcs]
FFRC 76.1	**567747**	2 1/2	76.1	M16	–	30	100	203	173	156	88	3.60	2.5	12	12	1
FFRC 88.9	**567748**	3	88.9	M16	–	30	100	211	181	169	94	4.30	3.0	12	12	1
FFRC 108	**567749**	–	108	M16	–	30	120	230	200	187	103	6.50	4.0	20	12	1
FFRC 114.3	**567750**	4	114.3	M16	–	40	120	274	238	212	116	6.90	4.0	20	20	1
FFRC 133	**567751**	–	133	M16	–	40	120	300	264	233	126	7.70	4.5	20	20	1
FFRC 139.7	**567752**	5	139.7	M16	–	40	120	264	300	236	128	8.10	4.5	20	20	1
FFRC 159	**567753**	–	159	M16	–	40	120	319	283	258	139	9.20	6.0	20	20	1
FFRC 168.3	**567754**	6	168.3	M16	–	40	120	328	292	272	146	9.70	6.0	20	20	1
FFRC 193.7	**567755**[1)]	–	193.7	–	17	60	200	439	399	340	170	23.00	9.0	45	45	1
FFRC 219.1	**567756**	8	219.1	–	17	60	200	439	399	340	170	23.00	9.0	45	–	1
FFRC 273	**567757**	10	273	–	17	60	200	493	453	393	197	28.00	12.0	45	–	1
FFRC 323.9	**567758**	12	323.9	–	17	60	200	544	504	448	224	32.80	15.0	45	–	1
FFRC 355.6	**567759**[1)]	14	355.6	–	17	60	200	576	536	477	239	36.00	17.0	45	–	1
FFRC 368	**567760**[1)]	–	368	–	17	60	240	588	548	492	246	46.30	17.0	45	–	1
FFRC 406.4	**567761**[1)]	16	406.4	–	17	60	240	646	596	530	265	50.40	19.0	45	–	1
FFRC 457	**567762**[1)]	18	457	–	17	60	240	697	647	578	289	57.10	19.0	45	–	1
FFRC 508	**567763**[1)]	20	508	–	17	60	240	748	698	635	318	62.40	20.0	45	–	1
FFRC 609	**567764**[1)]	24	609	–	17	60	280	848	798	731	366	89.20	25.0	45	–	1

[1)] Delivery time on request

Note on the required adhesive: 59389 fischer construction adhesive Multi MS white 290 ml; 503318 fischer construction adhesive Multi MS grey 290 ml
Note on loads: The loads apply to the FFRC without considering wether the associated fix point design is a braced fix point or fix point saddle. The component with the lower load specification determines the loads.