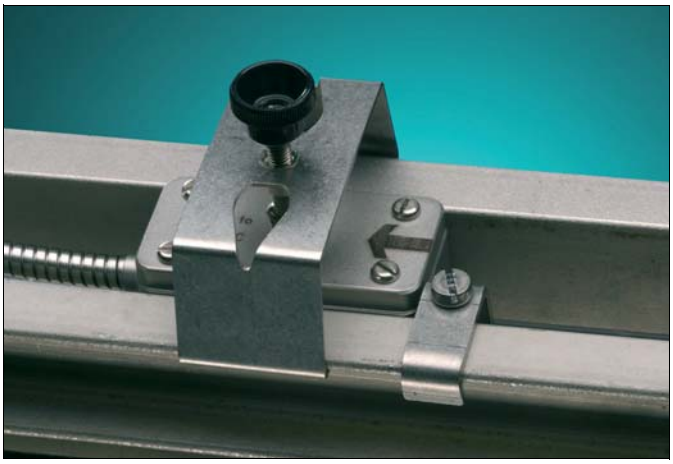
Variofix Mounting Fixture

Versatile and inexpensive

The Variofix mounting fixture provides a strong hold and ensures a continuous and constant pressure on the transducers. It is made of stainless steel and is therfore corrosion-proof and wear resistant. After the installation of the fixture, the transducers can be taken away from the pipe and mounted again without readjusting the transducer distance.

The standard components of the Variofix system make the adaptation of the fixture to a pipe of different diameter or to another transducer type easy and inexpensive.



M transducer in a Variofix rail, with distance clip

The following variations are available:

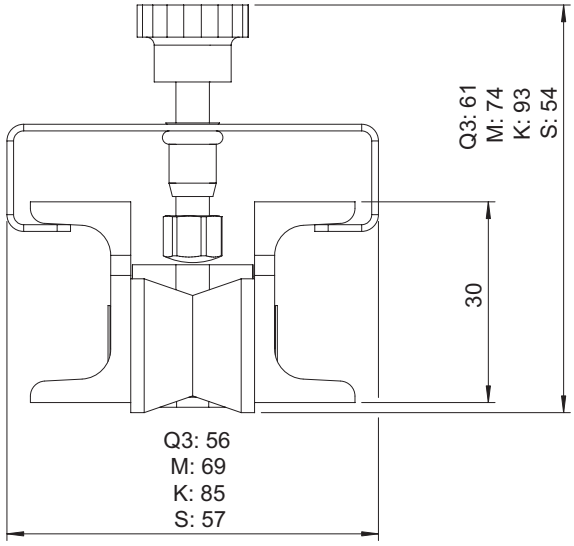
- Mounting fixture for Q transducers, to be fixed with bolts; only for pipes with Ø<31 mm
- Mounting fixture for M transducers, to be fixed with bolts; only for pipes with Ø<43 mm
- Mounting fixture for S transducers, to be fixed with bolts; only for pipes with Ø<27 mm
- Mounting fixture, to be fixed with tension straps and Oetiker clasps: only for pipes with Ø<200 mm
- Mounting fixture, to be fixed with Flexim tension straps and compensation clasps: only for pipes with Ø>150 mm

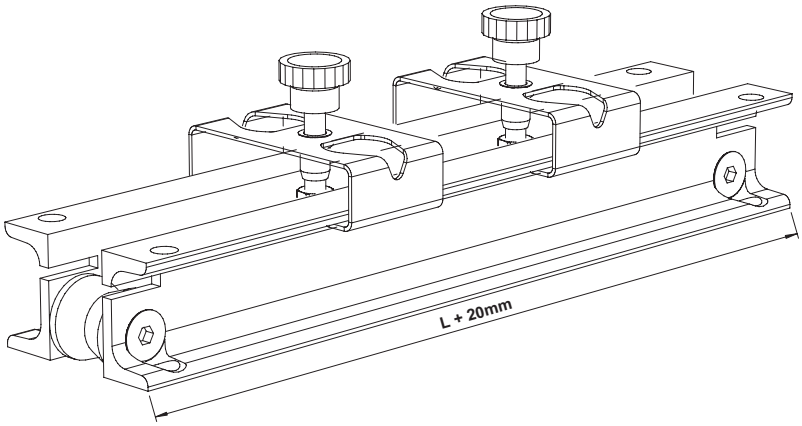
Q transducer in a Variofix rail fixed with bolts

Features

- The transducers can be mounted in diagonal mode as well as in reflection mode.
- The Variofix mounting fixtures can be fixed to the pipe with a shackle or with tension straps.
- The Flexim tension straps are equipped with compensating springs to ensure a continuous pressure on the transducers even in the case of strong temperature fluctuations.
- For large transducer distances or for measurement in diagonal mode, it is possible to mount the transducers on staggered rails (only with tension straps).

Dimensions (in mm)



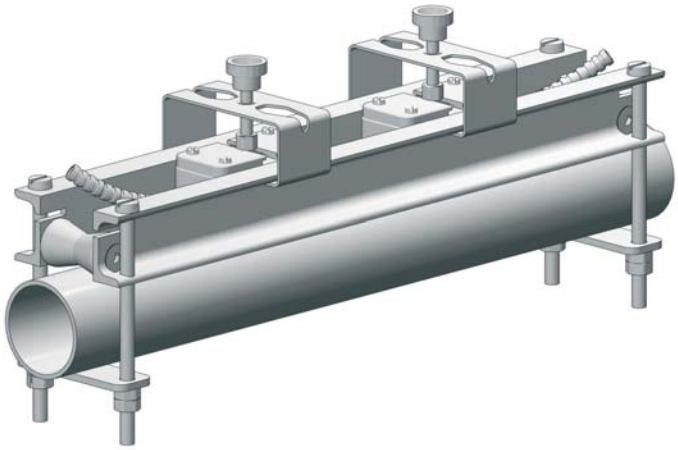


Fixation

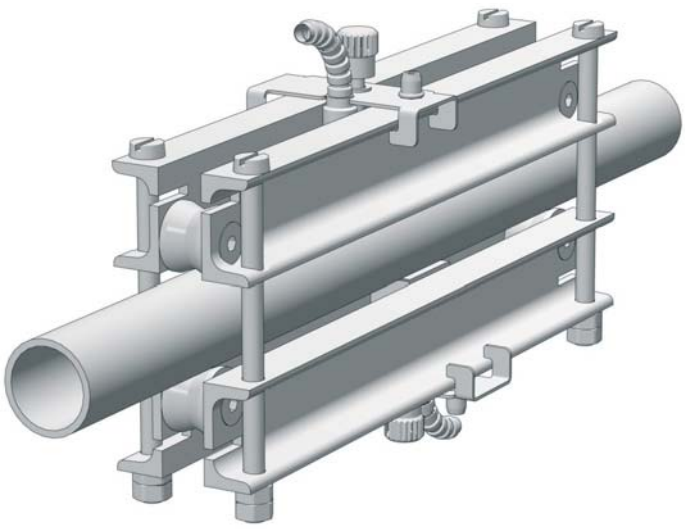
with FLEXIM straps

with Oetiker straps

with bolts, measurement in reflection mode



with bolts, measurement in diagonal mode



Product Code

Type	Type of transducer	Measuring mode	Rail lenght	Fixation	Description
VFX-					Variofix mounting fixture for permanent installation
	S-				For S2 transducers (spacer roll W=13,8mm)
	Q-				For Q2 and Q3 transducers (spacer roll W=18,5mm)
	M-				For M2, M3 and M4 transducers (spacer roll W=31,0mm)
	K-				For K2 and K3 transducers (spacer roll W=47,5mm)
	K4-				For K4 transducers (spacer roll W=50,5mm)
		R-			For transducer mounting in one rail (reflection mode) *: when using S transducers on pipes with Ø < 10 mm, measurement is only possible in diagonal mode.
		D-			For transducer mounting in two separate rails (reflection or diagonal mode)
			S-		Small (lenght of the rail =200mm) In reflection mode with Q transd. :Transd. distance[a] <20mm ($Ø_{equi}$ =50mm[b]) with S transd.: Transd. distance[a]<130mm ($Ø_{equi}$ =100mm[b])
			M-		Medium (lenght of the rail =300mm) In reflection mode with M transd.:Transd. distance[a] <120mm ($Ø_{equi}$ =200mm[b]) with Q transd.:Transd. distance[a] <120mm ($Ø_{equi}$ =169mm[b])
			L-		Large (lenght of the rail =500 mm) In reflection mode with M transd.: Transd. distance[a] <320mm ($Ø_{equi}$ =475mm[b]) with Q transd.: Transd. distance[a] <320mm ($Ø_{equi}$ =425mm[b]) with K transd.: Transd. distance[a] <227mm ($Ø_{equi}$ =450mm[b])
				NN	Fixation on the pipe with bolts (M6), incl. counterpart with through bores for mounting in reflection mode with Q transducers only for pipes with Ø<31mm with M transducers only for pipes with Ø<43mm with S transducers only for pipes with Ø<27mm The use of the K transducers doesn't make sense here.
				NO	Fixation of one Variofix rail with tension straps for pipes with Ø<200mm (2 Oetiker clasps, 10m strap)
				OO	Fixation of 2 staggered rails with tension straps (pipe Ø<200mm), for diagonal mode measurement (4 Oetiker clasps, 10m strap)
				NF	Fixation of one Variofix rail with FLEXIM tension straps for pipes with Ø>150mm (2 FLEXIM clasps, 2 compensation springs, 10m strap)
				FF	Fixation of 2 staggered rails with tension straps (pipe Ø>150mm) for diagonal mode measurement (4 FLEXIM clasps, 4 compensation springs, 10m strap
				NS	Fixation per welding on the pipe
VFX-					

a : The transducer distance for your application can be calculated with the software FluxFlow.

b : $Ø_{equi}$ = equivalent diameter = outer diameter at which under standard conditions the given transducer distance is recommended (Medium = water, pipe wall thickness = 5 mm, T = 20°C, sound path = 2)

Example:

VFX-Q-DM-NN: Variofix fixture for mounting Q transducers in diagonal mode, rail length = 300 mm, fixation with bolts

VFX-Q-RL-NO: Variofix fixture for mounting Q transducers in reflection mode, rail length = 500 mm, fixation with tension straps (Oetiker clasps)

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