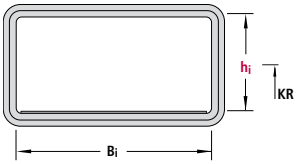
MOBIFLEX

Enclosed cable carrier with flexible metal helical tube

- Very well sealed design
- Ideal in case of hot metal chips
- Unsupported thanks to the inserted, pre-tensioned steel band



Type	h_i	B_k	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v_{max} in m/s	Travel acceleration a_{max} in m/s²	
MF 030.1	24	26	2.0	10	20	370
MF 050.1	24	45	3.0	10	20	370
MF 050.2	44	45	3.0	10	20	370
MF 080.1	40	80	3.5	10	18	370
MF 080.2	54	80	3.5	10	18	370
MF 080.3	78	80	3.5	10	18	370
MF 110.1	53	109	4.0	6	15	370
MF 110.2	73	109	4.0	6	15	370
MF 110.3	108	109	4.0	6	15	370
MF 170.1	72	170	5.0	6	12	370
MF 170.2	102	170	5.0	6	12	370
MF 170.3	167	170	5.0	6	12	370

Dimensions in mm

Inside heights
24 – 167

Inside widths
26 – 170

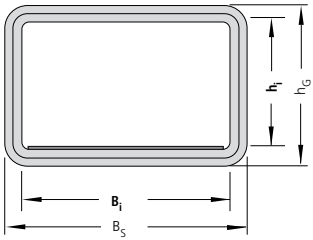
Types MF 030, 050, 080, 110, 170

Dimensions, intrinsic weight and bend radius

MOBIFLEX Type	B_S	B_i	h_G	h_i	Available bend radii KR				Weight G_S	Shortening L_{VK}
MF 030.1	30	26	30	24	80	–	–	–	1.2	45
MF 050.1	50	45	30	24	75	100	–	150	2.0	45
MF 050.2	50	45	50	44	110	150	–	200	2.5	80
MF 080.1	85	80	45	40	100	150	–	200	3.0	70
MF 080.2	85	80	60	54	150	200	–	250	3.5	95
MF 080.3	85	80	85	78	200	–	–	–	5.1	135
MF 110.1	115	109	60	53	150	200	–	250	4.8	95
MF 110.2	115	109	80	73	200	250	–	350	5.3	125
MF 110.3	115	109	115	108	300	–	–	–	6.6	180
MF 170.1	175	170	80	72	190	250	–	350	7.2	125
MF 170.2	175	170	110	102	250	300	–	400	8.2	175
MF 170.3	175	170	175	167	365	–	–	–	9.2	275

Dimensions in mm / Weight in kg/m

Stated bend radii = KR_{max}
Tolerances specified by manufacturer: -20 to -30 mm



Hose length (with loop):

$$L_{ES} \approx \frac{L_S}{2} + L_B$$

Bend length
$L_B = KR \cdot \pi + \text{Reserve (KR)}$

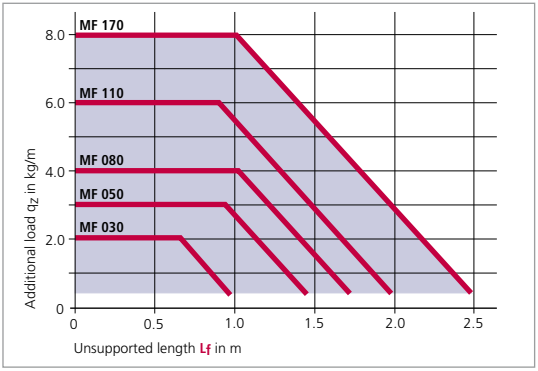
Stretched hose length:

$$L_{gestr.} = L_{ES} - L_{VK}$$

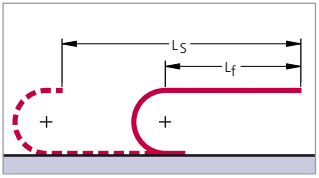
Hose shortening
$L_{VK} = h_G/2 \cdot \pi$

Load diagram

for unsupported length L_f depending on the additional load



Unsupported length L_f



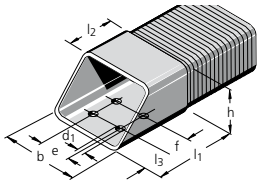
Example of ordering

Cable carrier				Connection
MF 170.1	. 250	-	980	FSFI/MQF
MOBIFLEX Type	Bend radius KR in mm		Conduit length L_{ES} in mm (without connection)	Connection Fixed point/ Driver

Types MF 030, 050, 080, 110, 170

Connection dimensions

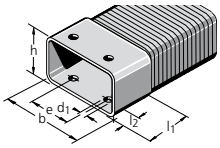
Diagonal flange connector – SF



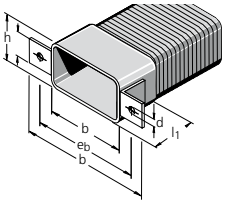
Type	b	h	e	f	d	l_1	l_2	l_3
MF 030.1	34	34	–	40	9	120	60	10
MF 050.1	54	34	20	40	9	120	60	10
MF 050.2	54	54	20	40	9	120	60	10
MF 080.1	90	50	50	40	9	120	60	10
MF 080.2	90	65	50	40	9	120	60	10
MF 080.3	90	90	50	40	9	120	60	10
MF 110.1	120	65	80	40	9	120	60	10
MF 110.2	120	85	80	40	9	120	60	10
MF 110.3	120	120	80	40	9	120	60	10
MF 170.1	180	85	140	40	9	120	60	10
MF 170.2	180	115	140	40	9	120	60	10
MF 170.3	180	180	140	40	9	120	60	10

Dimensions in mm

Standard connector bracket – ST



Cross flange connector bracket – QF

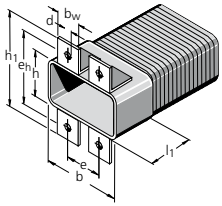


Type	b	h	e	e_b	e_h	d	l_1	l_2	b_w	b_1	h_1
MF 030.1	34	34	–	56	56	9	60	20	20	74	74
MF 050.1	54	34	20	76	56	9	60	20	20	94	74
MF 050.2	54	54	20	76	76	9	60	20	20	94	94
MF 080.1	89	49	50	111	71	9	75	20	20	129	89
MF 080.2	89	64	50	111	86	9	75	20	20	129	104
MF 080.3	89	89	50	111	111	9	75	20	20	129	129
MF 110.1	119	64	80	141	86	9	95	20	20	159	104
MF 110.2	119	84	80	141	106	9	95	20	20	159	124
MF 110.3	119	119	80	141	141	9	95	20	20	159	159
MF 170.1	179	84	140	201	106	9	95	20	20	219	124
MF 170.2	179	114	140	201	136	9	95	20	20	219	154
MF 170.3	179	179	140	201	201	9	95	20	20	219	219

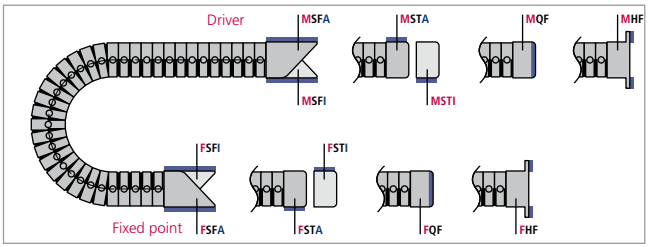
Dimensions in mm

Front flange connectors can be supplied in accordance with customer drawings.

High flange bracket – HF



Connection variants



The connectors SF, ST, QF and HF can be combined.

When ordering please specify the desired connection type (see ordering key on page 425).

Inside heights
24 – 167

Inside widths
26 – 170