

This document will soon  
proudly feature our new  
brand & design – Minebea Intec



**sartorius**  
mechatronics

## MP 58, MP 58T Stainless Steel Shear Beam Load Cell



**91 kg... 2,268 kg Type C3MR  
(200 lb... 5,000 lb)**

- Full stainless steel construction
- Compatible with other sources
- Approved according to OIML R60
- Ex-Version available (MP58/...E, MP58T/...E)
- Matched output
- High input impedance

### Applications

- Platform scales
- Tank & Hopper scales

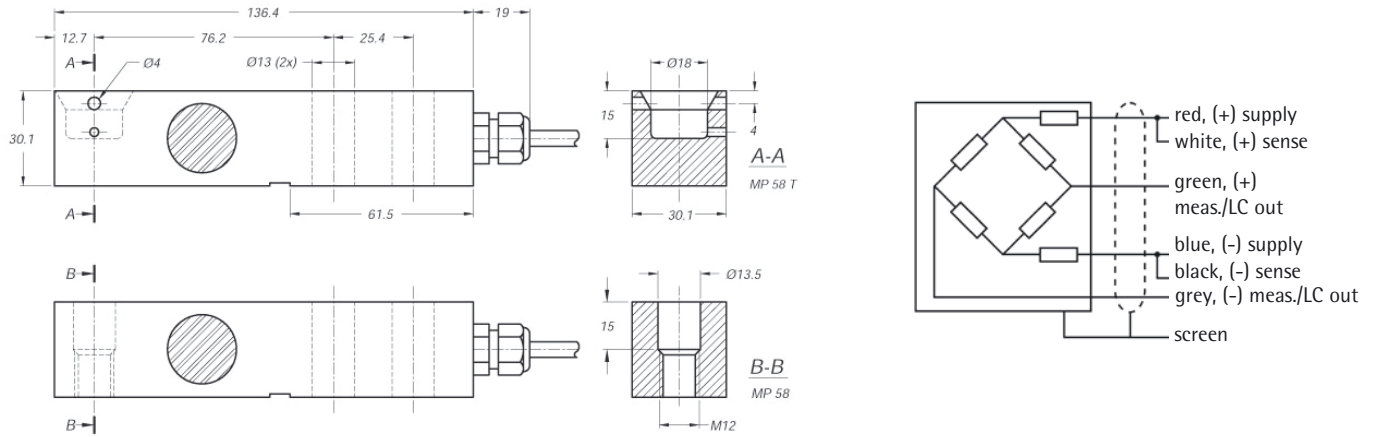
Technical Data		C3MR	
Accuracy class		0.02	% $E_{max}$
Maximum capacity	$E_{max}$	s. table	
Max. usable load	$E_u$	200	% $E_{max}$
Destructive load	$E_d$	> 300	% $E_{max}$
Minimum LC verification interval $v_{min} = E_{max}/Y$	Y	11,500	
Rated output	$C_n$	2.0	mV/V
Tolerance on rated output	$d_c$	≤ 0.1	% $C_n$
Zero output signal	$S_{min}$	≤ 5.0	% $C_n$
Creep, during 30 min.	$d_{cr}$	≤ 0.016	% $C_n$
Temperature effect on $S_{min}$	$TK_{S_{min}}$	≤ 0.011	% $C_n/10K$
Temperature effect on C	$TK_C$	≤ 0.010	% $C_n/10K$
Input impedance	$R_{iC}$	1,100 ± 50	Ω
Output impedance	$R_o$	1,000 ± 2	Ω
Insulation impedance	$R_{iS}$	> 5,000	MΩ
Recommended supply voltage	$B_u$	5... 15	V
Maximum supply voltage	$U_{max}$	15	V
Nominal ambient temperature range	$B_T$	-10 ... +40	°C
Usable ambient temperature range	$B_{Tu}$	-30 ... +70	°C

## Technical Data

## C3MR

Nominal deflection	$E_{max} = 91 \text{ kg}, 227 \text{ kg}, 454 \text{ kg}$	$\leq 0.25$	mm
	$E_{max} = 1,134 \text{ kg}$	$\leq 0.33$	mm
	$E_{max} = 2,268 \text{ kg}$	$\leq 0.56$	mm
Cable length		3	m
Environmental protection		IP 67	

The technical data given here serve only as a product description and must not be interpreted as guaranteed characteristics in the legal sense.



## Order information

Type	Order number	Type	Order number
MP 58/91kgC3MR	9408 258 07090	MP 58/91kgC3MRE	9408 658 07090
MP 58/227kgC3MR	9408 258 07120	MP 58/227kgC3MRE	9408 658 07120
MP 58/454kgC3MR	9408 258 07150	MP 58/454kgC3MRE	9408 658 07150
MP 58/1134kgC3MR	9408 258 07210	MP 58/1134kgC3MRE	9408 658 07210
MP 58/2268kgC3MR	9408 258 07220	MP 58/2268kgC3MRE	9408 658 07220
MP 58T/91kgC3MR	9408 258 17090	MP 58T/91kgC3MRE	9408 658 17090
MP 58T/227kgC3MR	9408 258 17120	MP 58T/227kgC3MRE	9408 658 17120
MP 58T/454kgC3MR	9408 258 17150	MP 58T/454kgC3MRE	9408 658 17150
MP 58T/1134kgC3MR	9408 258 17210	MP 58T/1134kgC3MRE	9408 658 17210
MP 58T/2268kgC3MR	9408 258 17220	MP 58T/2268kgC3MRE	9408 658 17220

## Certificate of conformity

### MP 58 (optional)

Ex-Zone 2, 22  
II 3G Ex nA II T6  
II 3D Ex tD A22 IP65 T85°C

### MP 58/..E

Ex-Zone 0, 1, 20, 21  
II 1G Ex ia IIC T6|T5 Ga  
II 1D Ex ia IIIC IP67 T100°C Da



## Accessories

### MP 80 | MP 90 – Cables and cable junction boxes

#### MP 80 Installation cable

- Temperature range: -40°C ... +90°C
- Material: TPE
- 6-wire cable

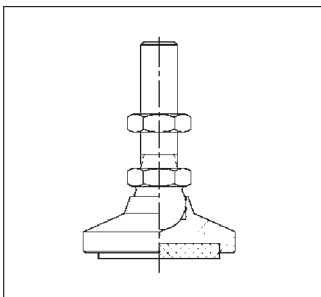
#### MP 90/04 Cable junction box

- Temperature range: -20°C ... +70°C
- Material: ABS
- Protection class: IP65

#### MP 90/06 Cable junction box

- Temperature range: -30°C ... +70°C
- Material: Polycarbonat
- Protection class: IP67

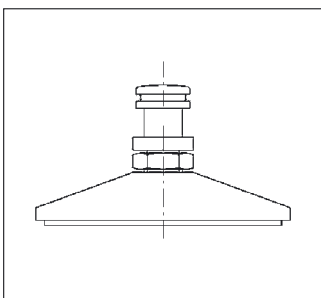
MP 80/31	Meteor installation cable 30 m	9408 800 80311
MP 80/51	Meteor installation cable 50 m	9408 800 80511
MP 80/12	Meteor installation cable 100 m	9408 800 80121
MP 80/32	Meteor installation cable 300 m	9408 800 80321
MP 80/80	Grounding cable	9408 800 80801
MP 90/04	Cable junction box for up to 4 load cells	9408 800 90041
MP 90/06	Cable junction box for up to 4 load cells (6-wire)	9408 800 90061



### Platform foot for MP 58 and MP 79

- Mounting solution for weighing platforms
- Height adjustable
  - N-version: 4 mm
  - S-version: 6 mm
- Temperature range: -20°C ... +65°C
- S-versions suitable for food industry
- Material:
  - N-version: mild steel, chromated
  - S-version: stainless steel 1.4301

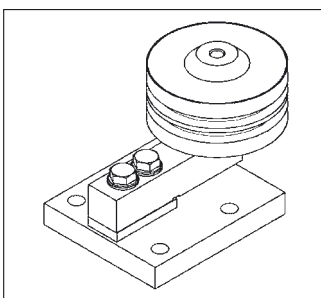
MP 91/00N	Platform foot for MP 58 and MP 79 up to 2,268 kg (M12)	9408 800 91001
MP 91/00S	Platform foot for MP 58 and MP 79 up to 2,268 kg, stainless steel (M12)	9408 800 91002



### Platform foot for MP 58T and MP 79T

- Mounting solution for weighing platforms
- Height adjustable 6 mm
- Temperature range: -20°C ... +65°C
- S-versions suitable for food industry
- Material: stainless steel 1.4301

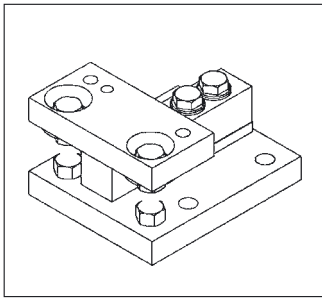
MP 91/10S	Platform foot for MP 58T and MP 79T up to 2,268 kg, stainless steel	9408 800 91102
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### MP 92 – Rubber Mounting Kit

- Simple mounting solution for tanks and hoppers
- Temperature range: -20°C ... +65°C
- Material: mild steel, chromated
- Permissible horizontal displacement: 2.5 mm

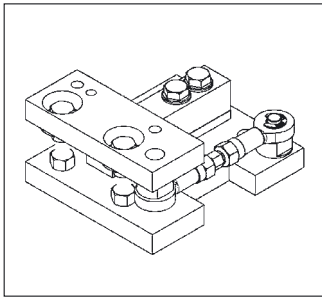
MP 92/00N	Mounting Kit with rubber element for MP 58 and MP 79 up to 2,268 kg (M12)	9408 800 92001
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### MP 93 – Mounting Kit

- Simple mounting solution for tanks and hoppers
- Dummy function
  - MP 93/x0: 12 KN
- lift-off protection
  - MP 93/x0: 30 KN
- Material: stainless steel 1.4301

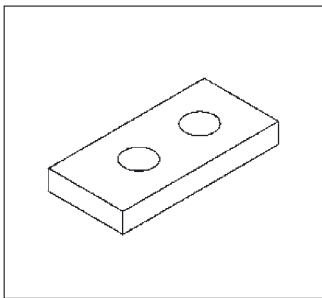
MP 93/00S	Mounting kit for MP 58 and MP 79 up to 2,268 kg, stainless steel	9408 800 93002
MP 93/10S	Mounting kit for MP 58T and MP 79T up to 2,268 kg, stainless steel	9408 800 93102



### MP 94 – Mounting Kit

- Simple mounting solution for tanks and hoppers with integrated constrainer with jack-up device (dummy function) and integrated lift-off protection
- Temperature range: -30 ... +80°C
- Dummy function
  - MP 94/10: 12 KN
- lift-off protection
  - MP 94/10: 30 KN
- Integrated Constrainer
  - MP 94/10: 5 KN
- Material
  - N-version: mild steel, chromated
  - S-version: stainless steel 1.4301

MP 94/10N	Mounting kit with constrainer for MP 58T and MP79T up to 2,268 kg	9408 800 94101
MP 94/10S	Mounting kit with constrainer for MP 58T and MP 79T up to 2,268 kg, stainless steel	9408 800 94102



### MP 98 – Spacer

- Spacer for MP 58(T) and MP 79(T)
- Material: 1.4021

MP 98/00N	Spacer for MP 58(T) and MP 79(T) up to 2,268 kg	9408 800 98001
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