

HYGIENIC COMPRESSION LOAD CELL

COMPRESSION



- 17-4PH STAINLESS STEEL | 1.4542
- COMBINED ERROR $\leq \pm 0.1 \%$
- IP69K PROTECTION RATING
- CABLE SUITABLE FOR CONTACT WITH FOOD
- ADJUSTABLE HEIGHT
- HYGIENIC DEVICE RPSCQC AUTHORIZED BY 3-A SSI.



STAINLESS
STEEL
17-4PH | 1.4542





NOMINAL LOAD (FS)

kg	kN	NET WEIGHT (kg)	COMBINED ERROR	THREAD	UK CA		Rated Output (mV/V)
1 000	10	1.6	$\leq \pm 0.1 \%$	M12	•	•	2.0 $\pm 0.1 \%$
2 000	20	1.52	$\leq \pm 0.1 \%$	M12	•	•	2.0 $\pm 0.1 \%$
5 000	50	1.7	$\leq \pm 0.1 \%$	M16	•	•	2.0 $\pm 0.1 \%$
5 000	50	1.7	$\leq \pm 0.1 \%$	M20	•	•	2.0 $\pm 0.1 \%$
10 000	100	1.7	$\leq \pm 0.1 \%$	M24	•	•	2.0 $\pm 0.1 \%$
10 000	100	2.21	$\leq \pm 0.1 \%$	M30	•	•	2.0 $\pm 0.1 \%$
20 000	200	2.5	$\leq \pm 0.1 \%$	M36	•	•	2.0 $\pm 0.1 \%$



TECHNICAL DATA

PRECISION

Rated Output (C_n)	2.0 mV/V $\pm$ 0.1 % at FS
Zero Balance	< $\pm$ 1.0 %
Combined error	$\leq \pm$ 0.1 %FS
Non-linearity	$\leq \pm$ 0.071 %FS
Hysteresis	$\leq \pm$ 0.071 %FS
Creep	$\leq \pm$ 0.05 %FS (at 30 min FS)
Temperature coefficient on zero	0.005 %FS/ $^{\circ}$ C
Temperature coefficient on span	0.005 %FS/ $^{\circ}$ C
Compensated temperature range	-10...+50 $^{\circ}$ C
Operating temperature range	-20...+70 $^{\circ}$ C
Reference Temperature	23 $^{\circ}$ C

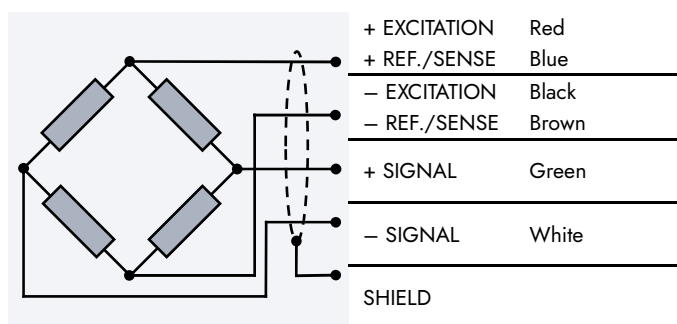
MECHANICAL PROPERTIES

Material	17-4PH STAINLESS STEEL 1.4542
Deflection at FN	$\sim$ 0.5 mm

ELECTRICAL PROPERTIES

Bridge configuration	Full Wheatstone bridge, 6-wire
Input resistance	350 $\pm$ 20 Ω
Output resistance	350 $\pm$ 5 Ω
Insulation resistance	$\geq$ 5 000 M Ω at 100 V
Recommended excitation voltage	5 - 15 V
Cable diameter	5.0 mm
Cable length	5 m: 1 000 kg, 2 000 kg, 5 000 kg, 10 000 kg (M24) 10 m: 10 000 kg (M30), 20 000 kg

ELECTRICAL CONNECTION

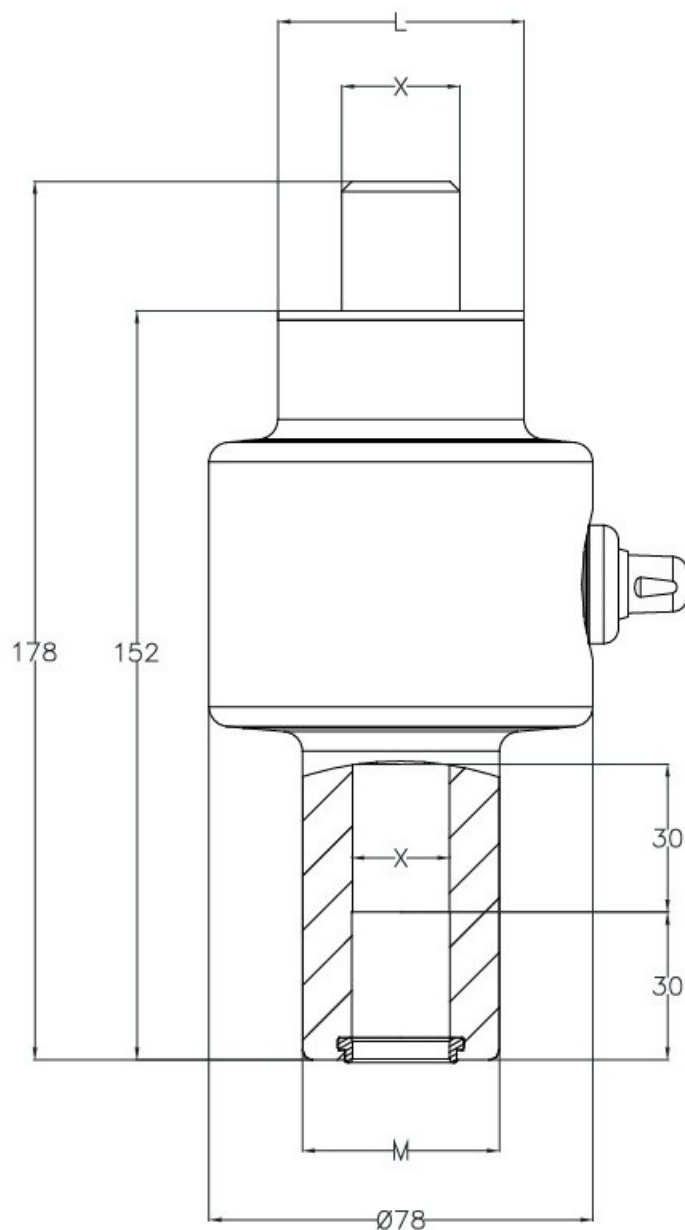


MECHANICAL LIMITS

Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. transverse load (side)	50 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	70 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.



DIMENSIONS (mm)



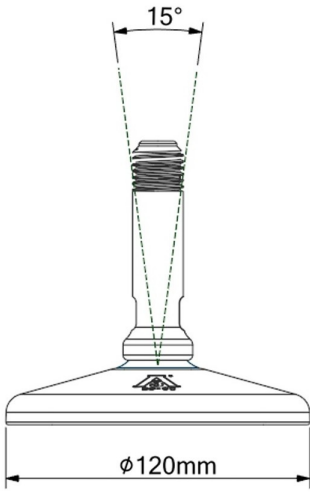
	X	L	M
L-FLC1000M12A3A	M12	24	40
L-FLC2000M12A3A	M12	24	40
L-FLC5000M16A3A	M16	30	40
L-FLC5000M20A3A	M20	35	40
L-FLC10000M24A3A	M24	50	40
L-FLC10000M30A3A	M30	50	50
L-FLC20000M36A3A	M36	50	50



COMPLIANCE AND CERTIFICATION

Protection Rating	IP69K
Compliance	CE, RoHS, REACH
Calibration	Factory-calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80
Certifications	 Equivalent of the CE marking for the United Kingdom
	 American standard that regulates the design, production and use of hygienic equipment
Certifications (on request)	 Calibration report
	 LAT Accredia calibration certificate ISO 376 or ASTM E74 for <u>capacities from 1000 kg to 10000 kg</u>
	 ATEX (zone 2-22)
	 ATEX/IECEx (zone 1-21)

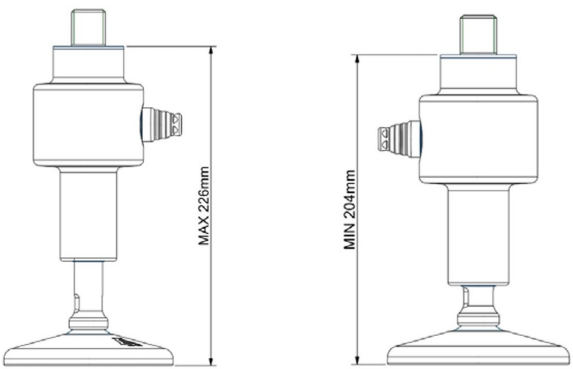
COMPLEMENTARY ACCESSORIES

	CODE	FOR LOAD CELLS		
Hygienic foot	L-FLC273793A	L-FLC1000M12A3A	 ANGULAR ADJUSTMENT	 EXAMPLE OF INSTALLATION ON HYGIENIC FOOT
	L-FLC273793A	L-FLC2000M12A3A		
	L-FLC273803A	L-FLC5000M16A3A		
	L-FLC273843A	L-FLC5000M20A3A		
	L-FLCD120M24503A	L-FLC10000M24A3A		
	L-FLCD120M30503A	L-FLC10000M30A3A		
	L-FLCD120M36503A	L-FLC20000M36A3A		

On request: hygienic foot with dowel fastening



LOAD CELL KIT+FOOT

CODE	FOR LOAD CELLS	HYGIENIC FOOT		
L-FLC1000M123A	L-FLC1000M12A3A	L-FLC273793A		
L-FLC2000M123A	L-FLC2000M12A3A	L-FLC273793A		
L-FLC5000M163A	L-FLC5000M16A3A	L-FLC273803A		
L-FLC5000M203A	L-FLC5000M20A3A	L-FLC273843A		
L-FLC10000M243A	L-FLC10000M24A3A	L-FLCD120M24503A		
L-FLC10000M303A	L-FLC10000M30A3A	L-FLCD120M30503A		
L-FLC20000M363A	L-FLC20000M36A3A	L-FLCD120M36503A		

