# FLC

## COMPRESSION LOAD CELL - FOR FOOT

LAUMAS®

### Capacity from 75 kg to 10000 kg



- 17-4 PH STAINLESS STEEL
- COMBINED ERROR ≤ ±0.07%
- IP67 PROTECTION RATING
- ADJUSTABLE HEIGHT

EXAMPLE OF INSTALLATION WITH STR AND SB2 SERIES FEET



| CAPACITY kg | THREAD | NET WEIGHT (kg) |
|---|---|---|
| 75 | M12x1.75 | 1.70 |
| 150 | M12x1.75 | 1.70 |
| 300 | M12x1.75 | 1.70 |
| 500 | M12x1.75 | 1.70 |
| 1000 | M12x1.75 | 1.40 |
| 2000 | M12x1.75 | 1.70 |
| 5000 | M20x2.5 | 1.80 |
| 10000 | M24x3 | 1.70 |

*Foot not included.*

## CERTIFICATIONS

UK CA Equivalent of the CE marking for the United Kingdom

| CERTIFICATIONS ON REQUEST |
|---|
| Calibration report |
| LAT Accredia calibration certificate ISO 376 or ASTM E74 for capacities from 1000 kg to 10000 kg |
| ATEX *(zone 2-22)* |

## COMPLEMENTARY ACCESSORIES



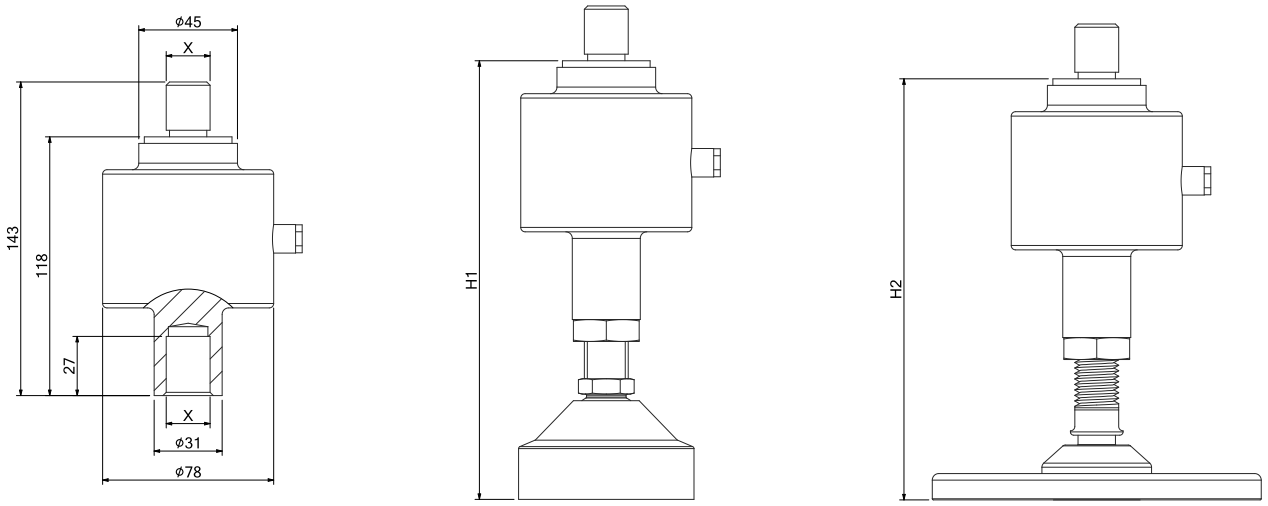
| DESCRIPTION | | MODEL |
|---|---|---|
| AISI 304 stainless steel plate for constraints against lateral forces and anti-tilt.<br>Only for SB2 series feet. | M12 | PPV |
| | M20 | PPV80 |

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### DIMENSIONS AND TECHNICAL SPECIFICATIONS




| CAPACITY | X | H1 (FLC+SB2) | H2 (FLC+STR) |
|---|---|---|---|
| 75 kg | M12x1.75 | 190÷200 mm | 182÷192 mm |
| 150 kg | M12x1.75 | | |
| 300 kg | M12x1.75 | | |
| 500 kg | M12x1.75 | | |
| 1000 kg | M12x1.75 | | |
| 2000 kg | M12x1.75 | | |
| 5000 kg | M20x2.5 | | |
| 10000 kg | M24x3 | - | |

For further information see the STR and SB2 data sheets

Installation notes:

- screw the foot all the way in;
- slightly unscrew the foot to adjust (maximum excursion: 10 mm);
- tighten the fixing nut.

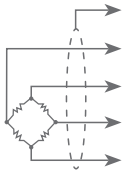
### TECHNICAL FEATURES

| | |
|---|---|
| Material | 17-4 PH stainless steel |
| Nominal load | 75 - 150 - 300 - 500 - 1000 - 2000 - 5000 - 10000 kg |
| Combined error | ≤±0.07% |
| Protection rating | IP67 |

| | | | |
|---|---|---|---|
| Rated output | 2.0 mV/V ±5% | Input resistance | 350 Ω ±20 |
| Temperature effect on zero | 0.002% °C | Output resistance | 350 Ω ±5 |
| Temperature effect on span | 0.002% °C | Zero balance | ±1% |
| Compensated temperature range | -10 °C / +50 °C | Insulation resistance | >5000 MΩ |
| Operating temperature range | -20 °C / +60°C | Safe overload (% of full scale) | 120% |
| Creep at nominal load in 30 minutes | 0.02% | Ultimate overload (% of full scale) | 200% |
| Max supply voltage without damage | 20 VDC | Deflection at nominal load | 0.1 mm |

### ELECTRICAL CONNECTIONS

| | |
|---|---|
| Cable length | 5 m (75-5000 kg); 10 m (10000 kg) |
| Cable diameter | 5 mm |
| Cores | 6 x 0.20 mm² |



| | |
|---|---|
| SHIELD | |
| + SIGNAL | GREEN |
| + EXCITATION<br>+ REF./SENSE | RED<br>BLUE |
| - SIGNAL | WHITE |
| - EXCITATION<br>- REF./SENSE | BLACK<br>YELLOW |

*The Company reserves the right to make changes to the technical data, drawings and images without notice.*


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ISO 9001
ISO 14001