HBS | Single Ended Beam Load Cell



Description

The HBS is a stainless steel Single ended beam type load cell. It is a type of compressive structure that is suitable for various use environments such as platform, hopper and tank size.

Features

- Pressure type
- SUS type
- fully welded structure
- Designed according to IP67

Option

- Ball type Accessory
- HBS-EXP/ Essential safety explosion certificate (Ex ia IIC T4) 10~500kgf
- OIML C3 Approved (OIML R60)

Application

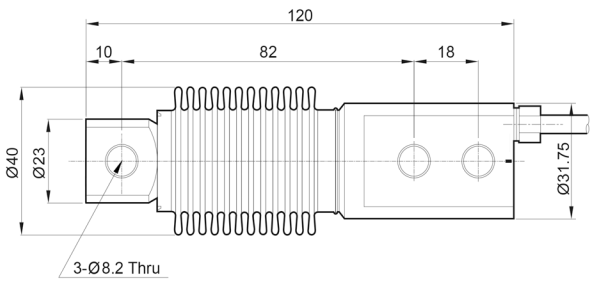
- Platform Scale
- Tank, Hopper Scale

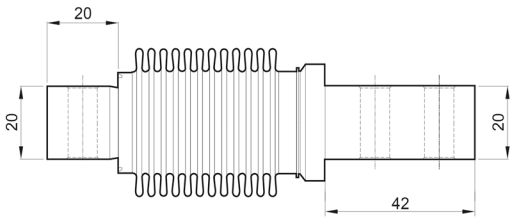
Specifications

Capacity(R.L.)		kgf	10, 20, 50, 100, 200, 250, 500, 1K, 2K	
Rated Output		mV / V	2.0 ± 0.005	
Zero Balance		mV / V	0.0 ± 0.02	
Accuracy Class		-	C3	-
Non-Linearity		% R.O.	≤ 0.02	≤ 0.03
Hysteresis		% R.O.	≤ 0.02	≤ 0.03
Combined Error		% R.O.	≤ 0.02	≤ 0.03
Repeatability		% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.		% R.O.	≤ 0.017	≤ 0.03
Return for 30min.		% R.O.	≤ 0.017	≤ 0.03
Resolution		-	≤ 1/5000	≤ 1/3000
Division		mV / V	0.0004	0.0067
Temperature Effect on	-Zero Value	%/10℃	≤ 0.014	≤ 0.028
	-Output Value	%/10℃	≤ 0.011	≤ 0.015
Excitation	-Recommended	V	10	
	-Maximum	V	15	
Resistance	-Input	Ω	400 ± 20	
	-Output	Ω	350 ± 3.5	
	-Insulation	MΩ	> 2000	
Compensated Temperature Range		℃	-10 to +40	
Operating Temperature Range		℃	-30 to +80	
Material & Plate		-	Stainless steel	
Cable Specification		-	Ø5.4 x 4P x 3m (Urethane)	
Safety Overload		% R.L.	150	

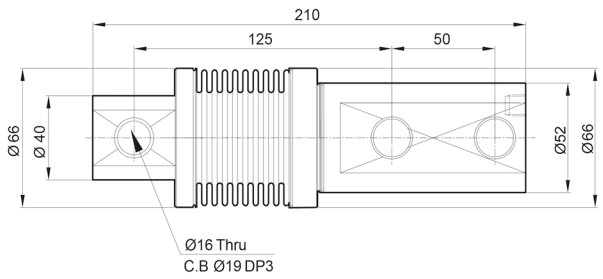
Dimensions

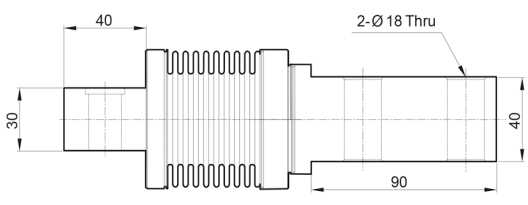
▶ HBS (10~500kgf)





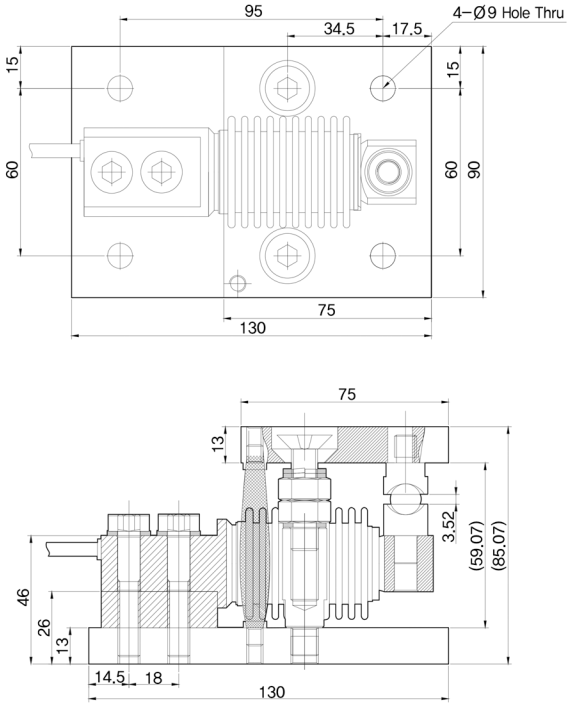
▶ HBS (1~2tf)





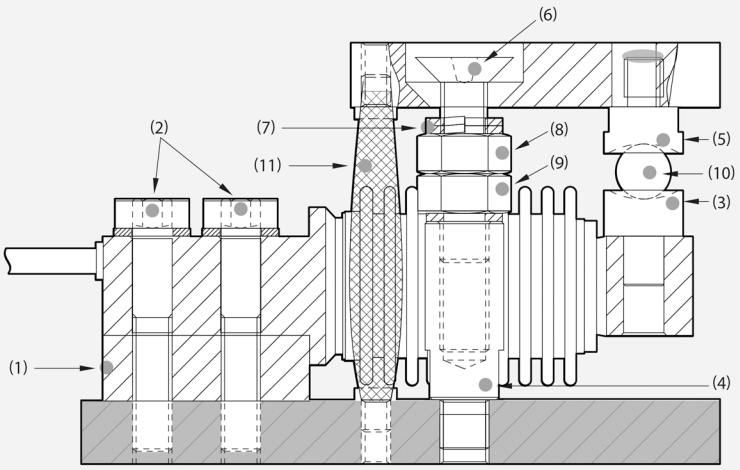
Accessory Dimensions

▶ HBS



Installation method

▶ HBS



NO.	
(1)	Spacer
(2)	six-piece wrench bolt & washer
(3)	Lower ball cup
(4)	Supporter
(5)	Upper ball cup
(6)	six-piece dish head wrench bolt
(7)	Washer
(8)	Hex nut
(9)	Hex nut(Thin)
(10)	Steel ball
(11)	By-pass strap

1. Attach the spacer (1) to the base plate, and then assemble the load cell (6-angle wrench bolt and washer (2)).
2. Assemble the lower ball cup (3) on the road cell.
3. After assembling the support (4) on the base plate, apply an anti-freeze solution.
4. After assembling the upper ball cup (5) on the upper plate, apply the anti-freeze solution.
5. Tighten the six-piece dish head wrench bolt (M10) (6) on the upper plate and then the M10 Washer (7) and the M10 Nut (8) (9).
6. Combine the six - side dish head wrench bolt (M10) (6) of the upper plate with the booster (4) of the base plate (approx. 10 mm/min_4 times).
7. Insert the ball (10) between the joined ball cup (3) (5).
8. Tighten the nut (9) so that it is fully secured to the support (4) and apply an anti-freeze solution.
9. Connect By-pass strap (11) to the upper plate and the base plate.
10. Lower the nut (8) and adjust it appropriately to obtain approval for the load.