









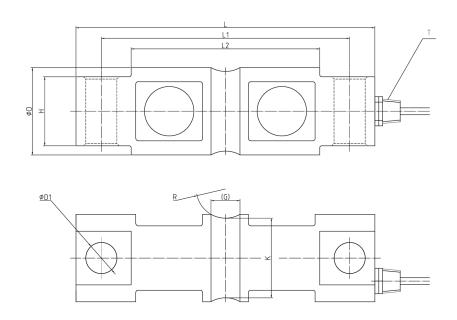
Main Features:

- Material: Alloy steel
- Rated Capacities: 10klb~250klb
- IP Rating: IP68
- Suitable for truck scale, heavy duty hopper scale and other electronic weighing devices.
- High precision by NTEP III L 10000, high reliability.

Product description:

DB903A is a double ended shear beam, both ends loaded, center supported via self-aligning ring groove structure, so that the force can be applied properly. This load cell is suitable for a wide range of truck scales, rail scales and process weighing equipment of tank, bin and hopper scale, etc. It is bolted at both ends.. Fully alloy steel construct, hermetically sealed, which ensure high seals performance of waterproof.

Dimensions (mm&inch):



Rated Capacity	L	L1	L2	ΦD	ØD1	Н	(G)	K	R	Т
lb/inches										
10K	8.12	6.88	5.24	1.70	0.66	1.12	0.62	1.48	0.50	1/4-18NPT
20K	8.12	6.88	5.24	1.95	0.66	1.12	0.84	1.48	0.50	1/4-18NPT
30K-75K	10.25	8.50	6.48	3.00	1.06	2.37	1.00	2.73	1.00	1/2-14NPT
100K	11.25	9.50	7.48	3.50	1.06	2.50	1.22	3.24	1.50	1/2-14NPT
150K	11.25	9.50	7.48	3.90	1.06	2.80	1.22	3.64	1.50	1/2-14NPT
250K	16.10	13.00	10.00	5.38	1.56	4.60	1.26	5.17	2.00	1/2-14NPT

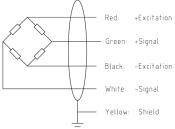


DB903A Double Beam Load Cell Specifications

Patameter		Units	Specifications					
Model No.			DB903A					
Rated capacity (Emax)		klb	10 / 20 / 30 / 50 / 75 / 100 / 150 / 250					
Accruacy class 1)2)			0.03%					
Min. dead load		lb	0					
Rated output		mV/V	3.0 ± 0.003					
Zero balance		% of E _{max}	±1					
Repeatability error		% of AL ³⁾	< ± 0.010					
Creep; 30 minute		% of AL	< ± 0.020					
Min. dead load output	t return (DR); 30 min	% of AL	< ± 0.020					
Tff+	Min. dead load output	% of E _{max} /°C	< ± 0.0014					
Temp. effect on	Rated output ²⁾	% of AL/°C	< ± 0.0012					
	Compensated		-10 to +40 [+14 to +104]					
Temperature range	Operating	°C(°F)	-40 to +65 [-40 to +149]					
	Safe storage		-40 to +80 [-40 to +176]					
Excitation voltage	Recommended	V/ AC/DC	5 ~ 15					
	Maximum	V AC/DC	15					
	Excitation	Ω	766 ± 10					
Ferminal resistance	Output	22	700 ± 3					
Insulation resistance @50VDC		ΜΩ	> 5000					
Breakdown voltage		V AC	> 500					
Seal type / IP rating			Hermetically welded / IP68					
Load limit Safe		% of E _{max}	140					
LOAU IIIIII	Ultimate	76 OI Lmax	200					
Material -	Spring element		Alloy steel nickel plated					
	Cable		Ф6; 4-wire; PVC					
Cable length		m	10-30klb 50-250klb					
			12.0 16.0					
Weight; approx		lb	10K-20K	30K-75K	100K	150K	250K	
		ID .	7	18	28	34	90	
Fatigue life		cycles @Emax	>1,000,000					
Deflection at Emax; approx		mm	<1.5					
Barometric pressure e	effect on Zero Output	Vmin/kPa			< 1.0			

Notes:

Cable Colour Code: (4-wire circuit)



Shield connected to load cell body

Interchangeable Products:

Manufacturer	Model
Vishay Revere transducers	5103
Vishay Celtron	CSB
Rice lake	RL70000

¹⁾Error due to the combined effect of non-linearity and hysteresis

 $^{^{2}}$ The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

³⁾ AL = Applied Load