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Series 2090 force washer



- **Low profile**
- **Sealed to IP66**
- **Range from 10 to 200kN**
- **Metric or Imperial threads**

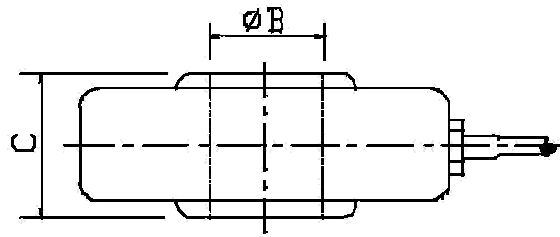
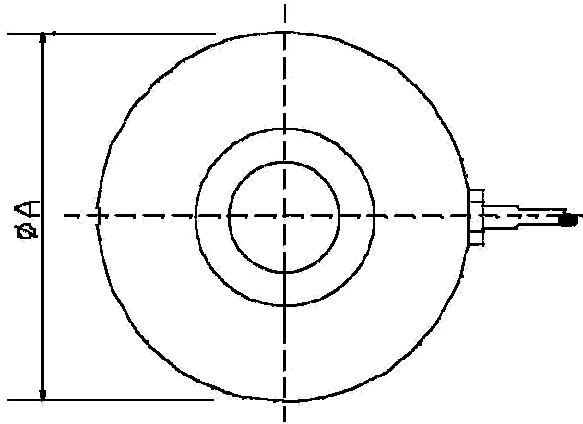
Description

A range of Annular load cells incorporating Active Loads proven strain gauge technology. Manufactured from Stainless steel and fully sealed the Series 2090 offers low deflection coupled with long term stability. Alternative ranges are available to suit specific customer requirements.

A full range of instrumentation and control packages from simple stand alone displays to complete turn key systems are available to support all Active Load sensors. Details and specifications available from our Sales office.

EXCELLENCE IN TRANSDUCER DESIGN

Dimensions



Specification Group..... SP5

ELECTRICAL		
Recommended Excitation	10	Vdc
Maximum Excitation	15	Vdc
Output at rated load	1	mVV
Zero balance	2	% of RL
Input impedance	750	+/-20
Output impedance	700	+/-2
Insulation	10 ⁹	
Compensated temp.	0 to 60	C
Safe temp. range	-20 to 80	C
MECHANICAL		
Safe Overload	150	% of RL
Ultimate Overload	300	% of RL
Deflection	<0.5	mm
Cable type	4-C	screened
Cable length	3	M
Sealing	IP66	

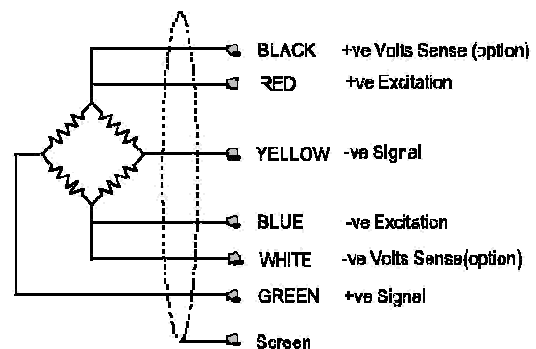
Table

RATING kN.	Bot. Size	A mm	B mm	C mm
10	M6	18	6.1	12
20	M8	22	8.1	12
40	M10	28	10.2	12
80	M12	38	12.2	15
100	M16	42	16.3	20
120	M24	50	24.3	25
160	M30	60	30.5	30
200	M36	75	36.5	30

Accuracy Class..... C3

ACCURACY		
Non linearity & hysteresis	0.50	%
Non repeatability	0.10	%
Zero return (after 30 minutes)	0.10	%
Temp. effect/10 C on zero	0.30	%
Temp. effect/10 C on span	0.10	%

Wiring



Note:

Maximum errors (+/-) are expressed as a percentage of rated load (when measured at 10Vdc excitation). The linearity and hysteresis is the maximum deviation from a straight line drawn between the no load and the rated load outputs for both increasing and decreasing loads. Accuracy classes apply when active range (live weight) is within 20 to 90% of rated load.

