

MODELS 1641/1648

Flange drive for use when short length is mandatory



FEATURES :

- Shortened drive length
- Extended speed range
- Minimal maintenance due to "bearings only" contact
- High overall performance accuracy

Safety Considerations: "It would be unsafe to operate Lebow® Torque Sensors and Load Cells beyond Static Overload or Ultimate Extrinsic Load Limits as defined in the Glossary of Terms or, when applicable, higher than maximum speed. When in doubt, consult the factory. Lebow® Products is not responsible for any property damage or personal injury which may result because of the misapplication of the Transducer."

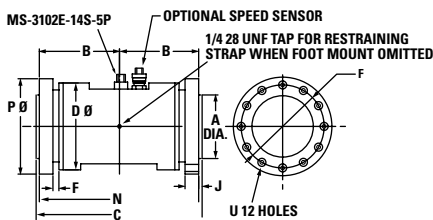
PERFORMANCE SPECS : 1641/1648

SPECIFICATIONS

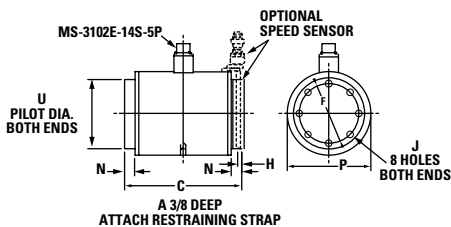
Actual performance average:

Nonlinearity:	0.026%
Hysteresis:	0.031%
Nonlinearity: of rated output	± 0.1%
Hysteresis: of rated output	± 0.1%
Output at rated capacity: millivolts per volt, nominal	2
Repeatability: of rated output	± 0.05%
Zero balance: of rated output	± 1.0%
Bridge resistance: ohms nominal	350
Temperature range, compensated: °F	+70 to +170
Temperature range, compensated: °C	+21 to +77
Temperature range, usable: °F	-20 to +200
Temperature range, usable: °C	-29 to +93
Temperature effect on output: of reading per °F	± 0.002%
Temperature effect on output: of reading per °C	± 0.0036%
Temperature effect on zero: of rated output per °F	± 0.002%
Temperature effect on zero: of rated output per °C	± 0.0036%
Excitation voltage, 10 VAC max. rms:	3.28 kHz optimum
Insulation resistance, bridge/case: megohms at 50 VDC	>5,000
Number of bridges	1

Higher accuracy versions available. Contact factory for details.



	1641 IN.	CM.
C	11.88	30.16
N	11.63	29.50
P	7.00	17.70
F	0.44	1.11
J	0.13	0.32
U	½-20	-
H	6.00	15.20
A	4.50	11.42
B	4.38	11.11
D	6.50	16.50
E	¼-28	-



	1648 IN.	CM.
C	6.38	16.19
N	0.56	1.43
P	5.00	12.70
F	3.63	9.20
J	⅜-24	-
U	4.25	10.79
H	0.38	0.95
A	10-32	-
B	-	-
D	-	-
E	-	-

SENSOR CHARACTERISTICS : 1641/1648

MODEL NUMBER	CAPACITY lb. in. N • m	MAX. SPEED RPM	PROTECTED FOR OVERLOADS TO lb. in. N • m	TORSIONAL STIFFNESS lb. in./rad. N • m/rad.	ROTATING INERTIA lb. in. sec. ² N • m/sec. ²	WEIGHT lbs. kg.
1648-2K*	2,000 225	8,000**	3,000 330	742,000 83,830	5.95 x 10 ⁻² 6.70 x 10 ⁻³	23 10.50
1648-5K*	5,000 565	8,000**	7,500 845	1,811,000 204,605	5.95 x 10 ⁻² 6.70 x 10 ⁻³	23 10.50
1648-10K*	10,000 1,130	8,000**	15,000 1,695	2,248,000 253,977	5.95 x 10 ⁻² 6.70 x 10 ⁻³	23 10.50
1648-20K*	20,000 2,250	8,000**	30,000 3,390	3,507,000 396,218	6.08 x 10 ⁻² 6.80 x 10 ⁻³	23 10.50
1641-20K*	20,000 2,250	6,000	60,000 6,750	6,050,000 683,524	0.49 5.60 x 10 ⁻²	85 38.50
1641-50K*	50,000 5,650	6,000	150,000 16,950	10,960,000 1,238,252	0.49 5.60 x 10 ⁻²	85 38.50
1641-100K*	100,000 11,300	6,000	200,000 22,600	16,850,000 1,903,699	0.49 5.60 x 10 ⁻²	85 38.50

*Prior to installation, consult user's Instruction Manual for maximum safe bending moments. **Optional speed rating of 10,000 RPM available.



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