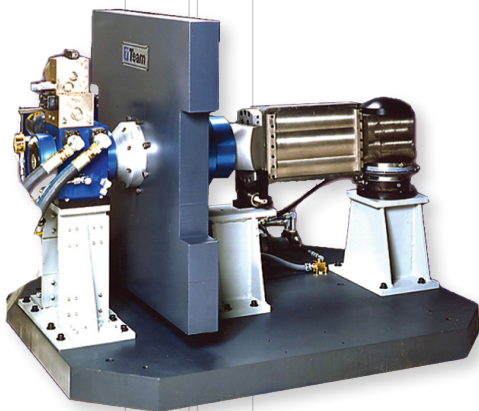
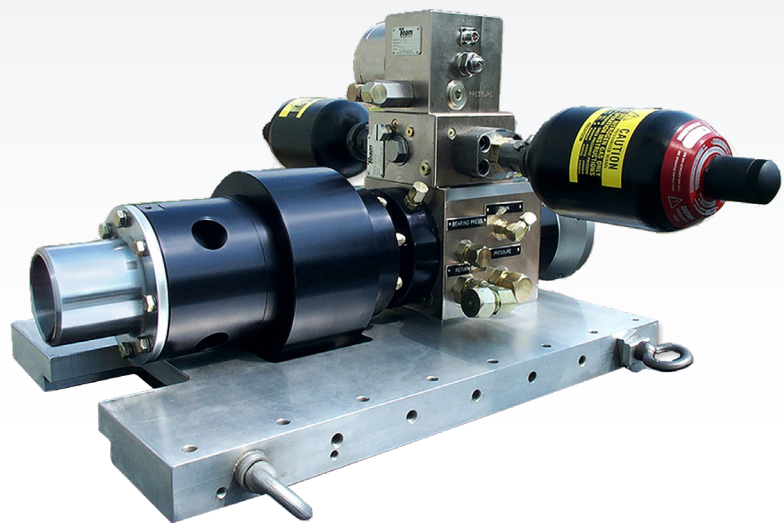


R-10 Rotary Actuators

Team's R-10 series Rotary Actuators' output flange is attached to the one-piece rotor with a locking taper ensuring zero backlash whenever torque reversal occurs. The R-10 also incorporates a "precision fit" vane type construction that does not depend on internal seals.

The Team R-10 rotary actuator is a heavy-duty, robust, fatigue rated actuator that finds many product applications in the automotive industry including coupling, damper, driveshaft axle and material testing.



Features:

- Dynamic Torque Output from 5,000 to 200,000 lb-in (564 – 22,596 N-m)
- Heavy duty – fatigue rated
- Zero backlash due to locking taper
- Hydrostatic bearings eliminate mechanical wear and ensure longer life
- Rotational travel 100 degrees (+/- 50 degrees)
- Integrated RVDT

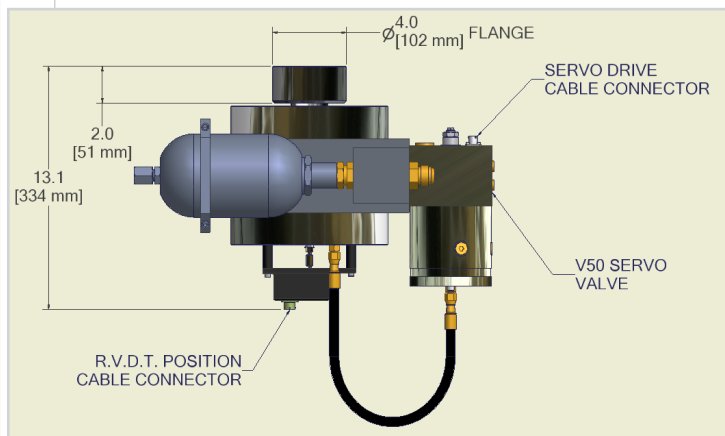
Applications:

- Automotive Testing Applications include fatigue testing of:
 - Axles
 - Driveshafts
 - Couplings
 - Dampers
 - Materials testing - fatigue
 - Any special applications where high torque output with restricted rotational travel is required.

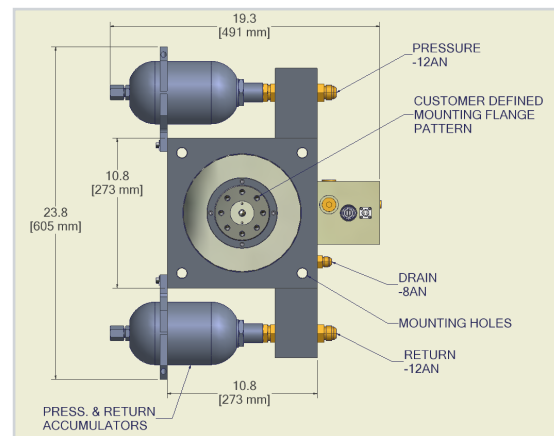
Specifications

R-10 Series Rotary Actuator	50	200	500	1000	2000
Torque Output – Static lb-in (N-m)	7.5K (847)	30K (3389)	75K (8473)	150K (16947)	300K (33895)
Torque Output – Dynamic lb-in (N-m)	5K (564)	20K (2259)	50K (5649)	100K (11298)	200K (22596)
Displacement in ³ /Rad (cm ³ /Rad)	2.6 (42)	10.5 (172)	26 (426)	53 (868)	105 (1720)
Side Load - S lbf (kN)	760 (3.38)	3040 (13.52)	5700 (25.85)	7600 (33.80)	9500 (42.25)
Thrust Load – T lbf (kN)	500 (2.22)	1200 (5.33)	3000 (13.34)	3500 (15.56)	4000 (17.79)
Rotational Inertia lb-in ² (kg-cm ²)	48 (140)	334 (977)	1275 (3731)	4906 (14357)	6420 (18787)
Angular Travel (deg. +/- 50)	100	100	100	100	100
Weight lbs (kg)	128 (58)	300 (136)	650 (294)	1350 (612)	1610 (730)

200/R-10 Rotary Actuator



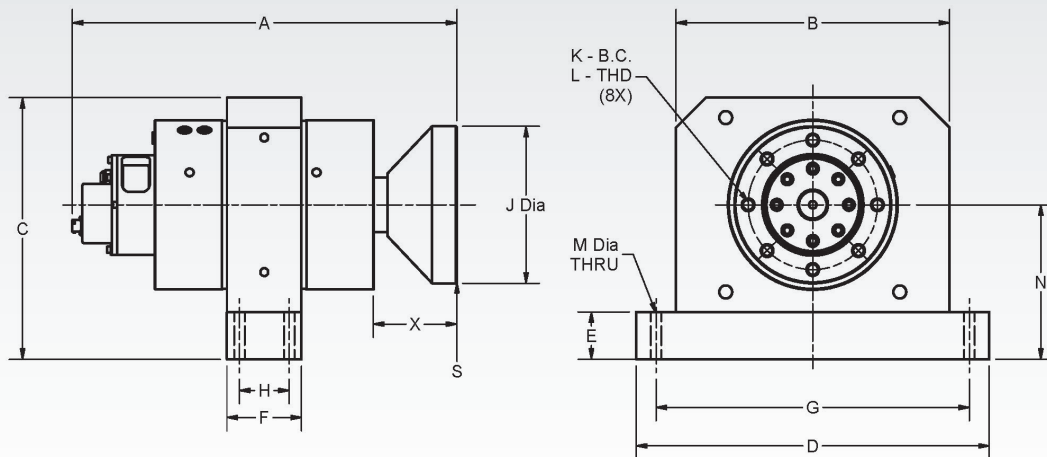
ELEVATION



PLAN



200/R-10 Rotary Actuator



Specifications

Model	A	B	C	D*	E*	F*	G*	H*	J	K	L	M*	N	X
50	13.80	8.50	9.50	11.50	1.00	3.00	10.00	2.00	5.00	4.25	3/8-16	0.44	5.25	3.25
200	18.00	10.80	13.12	14.75	2.38	3.75	12.75	2.50	7.88	8.50	5/8-11	0.66	7.75	4.25
500	26.40	13.00	14.50	17.00	1.50	5.25	15.00	3.75	9.75	8.00	3/4-16	0.68	7.98	6.75
1000	30.60	15.20	15.60	19.20	1.40	6.00	17.25	4.00	14.00	8.00	3/4-10	1.06	9.00	7.80
2000	33.00	18.00	20.00	22.50	2.00	7.00	20.50	4.00	14.00	10.00	1-14	1.06	11.00	8.20
3000	36.00	20.00	23.00	25.80	2.90	7.80	23.25	4.00	14.00	11.00	1-14	1.06	12.80	8.75

*Can be modified to meet customer requirements.





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