

Engineered
vibration testing
solutions for
improved
product quality.

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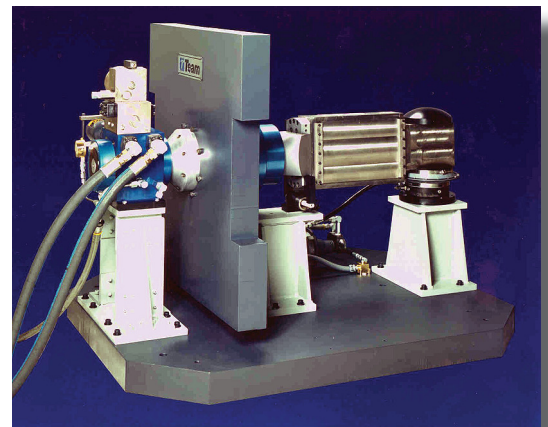
Rotary Actuator

The R-10 Rotary Actuators were designed for fatigue testing wherever high torque output with restricted rotational travel is required. The R-10 has a total rotational travel of 100 degrees (+/- 50 degrees).

One of the features of the R-10 is that it incorporates hydrostatic bearings that eliminate mechanical wear caused by side or thrust loads – thus ensuring longer life.

The R-10 Rotary Actuators have an output flange that is attached to the one-piece design rotor with a locking taper to ensure zero backlash whenever torque reversal occurs. The R-10 uses a “precision fit” vane type construction that does not depend on internal seals.

The R-10 is a heavy-duty, robust, fatigue rated actuator that finds many applications in the automotive industry such as testing couplings, dampers, driveshafts axles and material testing.



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.

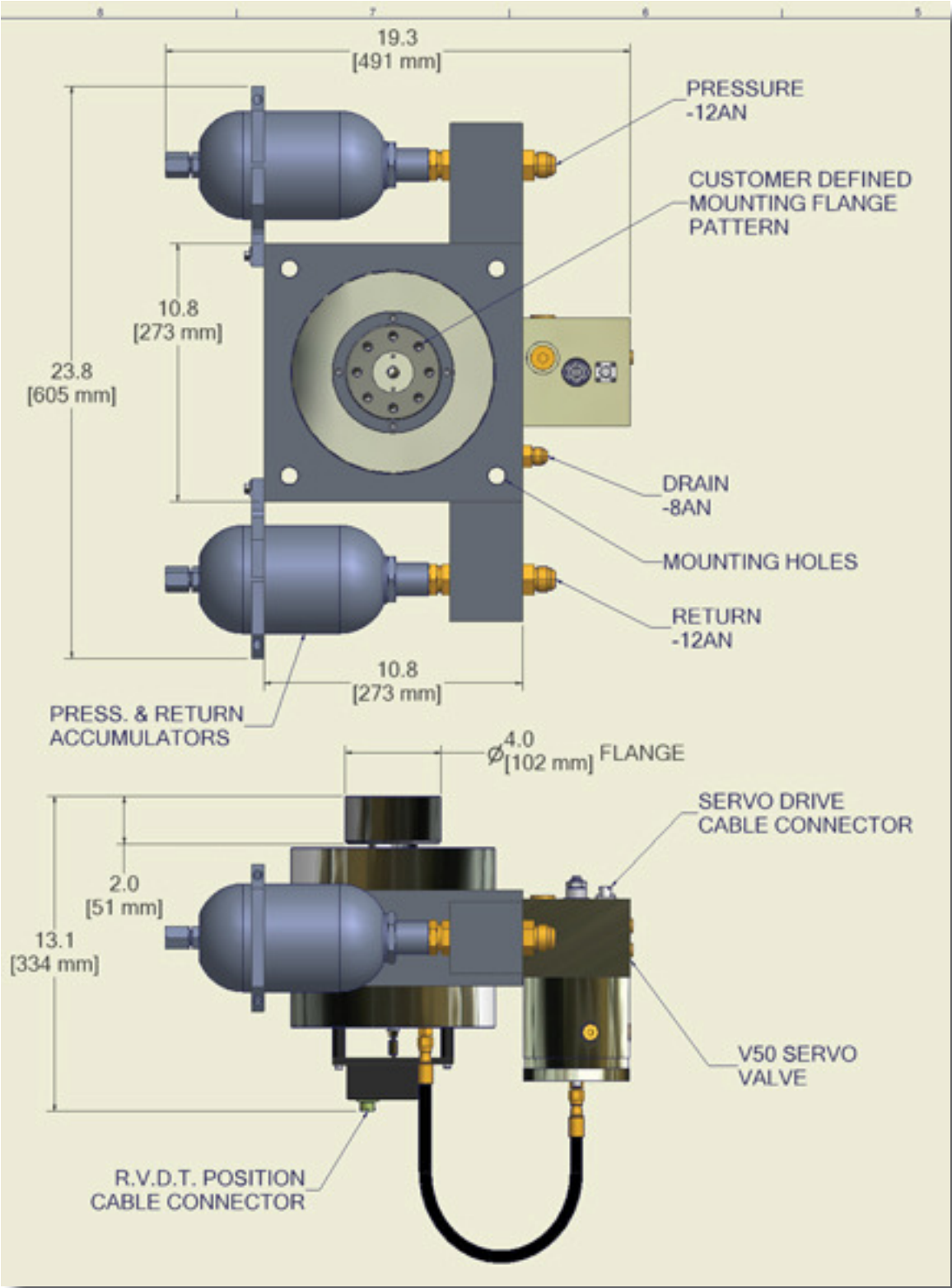
Features:

- 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

Specifications

R-10 Rotary Actuator	50	200	500	1000	2000
Torque Output – Static (lb-in)	7.5K	30K	75K	150K	300K
Torque Output – Dynamic (lb-in)	5K	20K	50K	100K	200K
Displacement (cu in/rad)	2.6	10.5	26	53	105
Side Load – S (max – lbs)	760	3040	5700	7600	9500
Thrust Load – T (max – lbs)	500	1200	3000	3500	4000
Rotational Inertia (lb-in²)	48	334	1275	4906	6420
Angular Travel (deg. +/- 50)	100	100	100	100	100
Weight (lbs)	128	300	650	1350	1610

200/R-10 Rotary Actuator





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