

Rundown Fixtures – RDF



Adapters for Power Tool Testing

Like any other torque tool, power tools need to be tested. How they are tested has some significant differences than with other torque tools. The reason for the difference is that power tools move at faster rates of speed. It takes time to overcome inertia and get the fastener moving and it takes time to slow it down. Another difference is that power tools require filters to block out noise in the frequencies.

SR digital torque testers have ten resident filters to help improve accuracy of power tool testing.

Rundown Fixtures assist in testing the output of pulse, stall and clutch power tools. **Neither our testers nor our rundown fixtures are designed, engineered, or suited for impact tools. Testing impact tools on our equipment can damage the torque tester and immediately voids the warranty.** Testing pulse and clutch power tools are accomplished by allowing the tool to achieve rotational speed prior to torque measurement. The rundown fixtures all include components to emulate either a hard or medium joint, thus assuring greater test accuracy.

The Rundown Fixtures work with Sturtevant Richmond System 4, System 5, System 8®, and Torq-Tronics®. Both Torq-Tronics2 and the System8 digital torque testers have power tool testing filters built. Matching tool capacity, rundown fixture capacity, and the transducer capacity is the basis for creating accurate test results.

Power tools are generally accurate 10% to 100% of rated capacity. In selecting a run down fixture match tool capacity with the rundown fixture kit. *Example:* If you have a 150 Nm or even a 200 Nm power tool you would select the 204 Nm run down fixture. When repairing the run down fixture be sure to match the repair kit capacity to the power tool capacity.

RDF Repair Kits

Each Run Down Fixture Repair Kit is the complete parts replacement for your fixture. With the included parts you can create a test to evaluate medium and hard joints.

The kit includes the appropriate number of Bushings, Washers, Screws, Belleville Washers, Washers, and Power Bits for the corresponding fixture. Not all kits contain a power bit.

| | |
|---------|----------------|
| R816037 | Rep Kit 1 Nm |
| R816038 | Rep Kit 3 Nm |
| R816039 | Rep Kit 6 Nm |
| R816040 | Rep Kit 17 Nm |
| R816041 | Rep Kit 34 Nm |
| R816042 | Rep Kit 68 Nm |
| R816043 | Rep Kit 108 Nm |
| R816044 | Rep Kit 203 Nm |
| R816045 | Rep Kit 339 Nm |

Note: Each repair kit contains parts for 2-3 replacements.

When replacing parts in your Run Down Fixture be sure to replace ALL the parts and not just the part that may be worn out. In the long run the complete replacement approach saves time, headaches and ensures greater test accuracy.

RDF

| Model | Item No. | Torque Capacity | | | | Hex Drv inch | Sq Drv inch | Weight kg |
|------------|----------|-----------------|----------|----------|-----------|-----------------|----------------|--------------|
| | | lbf-in | lbf-ft | cN-m | N-m | | | |
| RDF 10 i | R10349 | 1 - 10 | – | 11 - 113 | 0.1 - 1.1 | 1/4 | – | n. a. |
| RDF 25 i | R10350 | 2.5 - 25 | – | 28 - 282 | 0.3 - 2.8 | 1/4 | – | n. a. |
| RDF 50 i | R10351 | 5 - 50 | – | 56 - 565 | 0.6 - 5.6 | 1/4 | – | n. a. |
| RDF 150 i | R10352 | 15 - 150 | – | – | 1.7 - 17 | 3/8 | – | n. a. |
| RDF 300 i | R10353 | 30 - 300 | – | – | 3.4 - 34 | 3/8 | – | n. a. |
| RDF 300 i | R10354 | 30 - 300 | – | – | 3.4 - 34 | – | 1/2 | n. a. |
| RDF 600 i | R10355 | 60 - 600 | 5 - 50 | – | 6.8 - 68 | – | 1/2 | n. a. |
| RDF 960 i | R10356 | 96 - 960 | 8 - 80 | – | 11 - 108 | – | 1/2 | n. a. |
| RDF 1800 i | R10357 | 180 - 1800 | 15 - 150 | – | 20 - 203 | – | 1/2 | n. a. |
| RDF 3000 i | R10358 | 300 - 3000 | 25 - 250 | – | 34 - 339 | – | 3/4 | n. a. |

Note: Each Repair Kit contains parts for 2-3 replacements.

