



The *Type R* was recently introduced in [ASTM D2240](#). The *Type R* directly addresses two significant issues:

- standardization of the presser foot configuration,
- harmonization with other standards, specifically ISO 7619.

Type R is a designation, rather than a true 'type'. The *Type R* designation specifies a presser foot diameter of 18 ± 0.5 mm (0.71 ± 0.02 in) in diameter, while the spring forces and indenter configurations of the 'parent type' (previously enumerated in ASTM D2240) remain unchanged.

Durometers of the same type (scale), having different presser foot configurations, will produce different test determinations on most materials, in many cases this is a noteworthy difference.

The specification of the presser foot configuration as *Type R* allows an industry-wide basis for direct comparison of durometer hardness determinations. This is important in that there are fewer variables introduced, which is especially significant between customer and supplier, as well as between laboratories.

The ASTM D2240 *Type R* designation, while allowing users to conform to the requirements of ISO 7619 and DIN 53505, is far more comprehensive. *Type R* requires the use of an operating stand and, while specifying the presser foot configuration, allows these parameters to be employed with *any* ASTM D2240 durometer type (scale), thus the 'parent' relationship of the existing types.



The *Type R* designation is expressed as Type xR, where 'x' is the D2240 parent type, and 'R' indicates conformance to the presser foot and operating stand requirements e.g., aR; dR; etc.

i It is important to note that while the ASTM D2240 *Type R* designation requires the use of an operating stand, a *Type R* durometer may be used as a hand-held instrument and comply with the parent ASTM D2240 specification, as well as those of ISO 7619, ISO 868 (types A & D), DIN 53505, and other methods.

The Rex® ASTM D2240 *Type R* modification allows incredible flexibility ... from day-to-day process controls, to strict compliance to the requirements of international QA/QC!

Rex® Durometer Type R Modification: Features

- May be ordered (as an option) with any new Rex® durometer type;
- Will retrofit most existing Rex® durometers (may require the return of the instrument);
- *Type R* compliant operating stands available for most Rex® durometers;
- May be used as a hand-held instrument and comply with the ASTM D2240 parent type.

[Please Submit a RFQ](#) (Request for Quotation) for current pricing and availability.