Installation Guide

Scope

This engineering guide provides the installation and application recommendations for the use of standard valve cores in all automotive and industrial applications.

Product Type

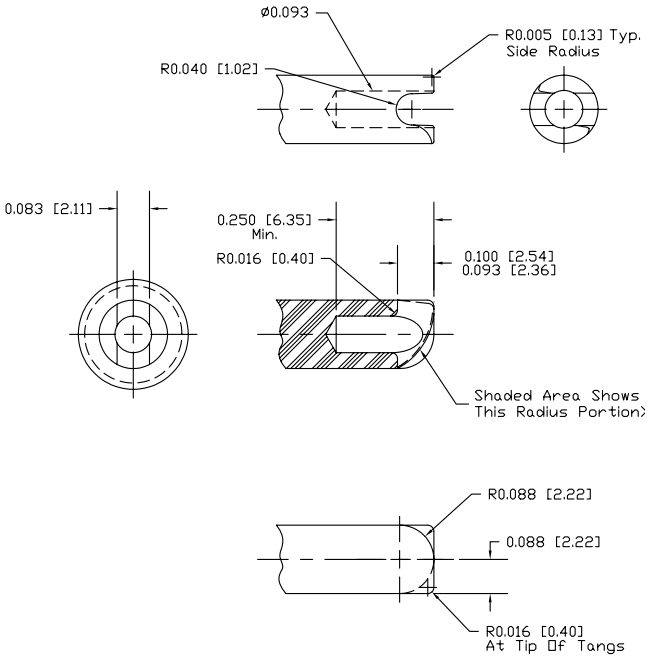
Standard valve cores are defined by ISO (International Standards Organization), TRA (Tire & Rim Association) and ARI (American Refrigeration Institute) for the application of valve cores in air, fluid and gas devices.

Installation Torque

The installation torque for standard cores per ISO is 3 – 5in. lbs. [0.34 – 0.57 Nm]. Breakaway torque is not an accurate way to verify the installation torque due to material, lubricants and other conditions that may exist.

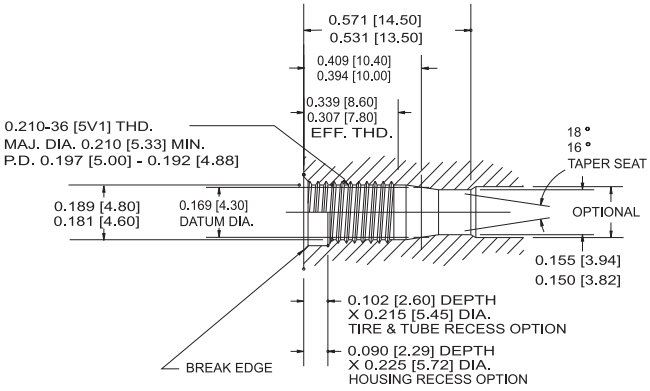
Torque Drivers

For automated assembly, it is recommended to use only drafted torque driver bits that are more forgiving, reducing the damage to the valve core and creating chips that may cause leaks in the final assembly. (Specifications shown below.)



Temperature Sensitive

It is not recommended to submit the Valve Core assembled into a Valve Body to accelerated temperatures above the normal operating temperatures such as brazing and oven curing for paints and other coating processes. Permanent damage to the seals may occur causing long term sealing problems.



Standard Core Drilling

Core chamber must conform to ISO 20562 and threads must be to ISO 4570/1

All Valve Bodies must conform to the TRA, ISO or ARI recommended standard core drilling to ensure proper seating of the Valve Core to meet the sealing and pin height requirements of the individual industry standards.

Cleanliness

Cleanliness for the Valve Cores and Body must be less than 0.015 grams per 100 parts after final assembly. Using improper torque drivers can cause contamination.

Surface Finish

The importance of a properly machined housing cannot be overemphasized. The surface finish of the taper seat must be smooth without any machining tool marks. The proper taper seat angle must also be met to ensure proper compression of the outer Valve Core sealing material.

Serviceability

No valve cores are to be reused under any circumstances after removal from the valve body. Always install a new valve core when servicing the system for air, fluid or gas applications.

WARNING: *This product can expose you to chemicals, including Lead which is known to the State of California to cause cancer or birth defects or other reproductive harm.*