

GLOSSARY

Term	Definition
Amplitude	Vertical height of the A-scan received signal, measured from base to peak or peak to peak
A-scan	Ultrasonic instrument display in which the received signal is displayed as a vertical height or "pip" from the horizontal-sweep time trace, while the horizontal distance between two signals represents the material distance for time of travel between the two conditions causing the signals
Back reflection	Signal received from the back surface of a surface test object
Bending strength ratio	BSR is a ratio of the section modulus of a rotary shouldered box at the point in the box where the pin ends when made up, to the section modulus of the rotary shouldered pin at the last engaged thread
Bevel diameter	Outer diameter of the contact face of the rotary shouldered connection
Bit sub	Sub, usually with two box connections, that is used to connect the bit to the drill stem
Box thread	Internal (female) threads of a rotary shouldered connection
Box connection/ Box end	Threaded connection on oilfield tubular goods (OCTG) that has internal (female) threads
Break-in	Procedure applied to newly manufactured threads to assure correct mating
Calibration system	Documented system of gauge calibration and control
Cold working	Plastic deformation of the thread roots of a rotary shouldered connection, of radii and of cylindrical sections at a temperature low enough to ensure or cause permanent strain of the metal.
Decarburization	Loss of carbon from the surface of a ferrous alloy as a result of heating in a medium that reacts with the carbon at the surface.
Depth prove-up	Act of grinding a narrow notch across a surface-breaking indication until the bottom of the indication is located and then measuring the depth of the indication with a depth gauge for comparison to acceptance criteria
Drift	Gauge used to check minimum internal diameter of drill stem components
Drill collar	Thick-walled pipe used to provide stiffness and concentration of mass at or near the bit
Drill pipe	Length of tube, usually steel, to which special threaded connections called tool joints are attached
First perfect thread	Thread furthest from the sealing face on a pin, or closest to the sealing face on a box, where both the crest and the root are fully formed
Full-depth thread	Thread in which the thread root lies on the minor cone of an external thread or on the major cone of an internal thread
Gas-tight	Capable of holding gas without leaking under the specified pressure for the specified length of time
Gauge point	Imaginary plane perpendicular to the thread axis in API rotary shouldered connections
H2S trim	All components, except external valve body, meeting the H2S service requirements of ISO 15156-2 and ISO 15156-3
Interchange stand-off	Stand-off between each member of a gauge set and a corresponding gauge next higher in the ranking scheme: grand master or regional master, reference master, working gauge
Kelly	Square or hexagonally shaped steel pipe connecting the swivel to the drill pipe that moves through the rotary table and transmits torque to the drill stem
Kelly saver sub	Short rotary sub that is made up onto the bottom of the kelly to protect the pin end of the kelly from wear during make-up and break-out operations
Lead	Distance parallel to the thread axis from a point on a thread turn and the corresponding point on the next turn, i.e. the axial displacement of a point following the helix one turn around the thread axis
Label	Dimensionless designation for the size and style of a rotary shouldered connection
Length of box thread	Length of threads in the box measured from the make-up shoulder to the intersection of the non-pressure flank and crest of the last thread with full thread depth

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Lot	Pieces of steel, with the same nominal dimensions and from a single heat, which are subsequently heat-treated as part of the same continuous operation (or batch)
Low-stress steel stamps	Steel stamps that do not contain any sharp protrusions on the marking face
Lower kelly valve	Essentially full-opening valve installed immediately below the kelly, with outside diameter equal to the tool joint outside diameter, that can be closed to remove the kelly under pressure and can be stripped in the hole for snubbing operations
Make-up shoulder	Sealing shoulder on a rotary shouldered connection
Manufacturer	Firm, company or corporation that operates facilities capable of cutting the threads and is responsible for compliance with all the applicable provisions of this part of ISO 10424
Master gauge	Gauges used for calibration of other gauges. NOTE - These include reference master, regional master and grand master gauges.
Mating stand-off	Stand-off between the plug and ring members of a gauge set NOTE - Interchange stand-off is the stand-off between each member and a gauge higher in the ranking scheme.
Non-pressure flank - box	Thread flank closest to the make-up shoulder where no axial load is induced from make-up of the connection or from tensile load on the drill stem member
Non-pressure flank - pin	Thread flank farthest from the make-up shoulder where no axial load is induced from make-up of the connection or from tensile load on the drill stem member
Out-of-roundness	Difference between the maximum and minimum diameters of the bar or tube, measured in the same cross-section, and not including surface finish tolerances
Pin connection	Pin end threaded connection on oil country tubular goods with external (male) threads
Pin thread	External (male) threads of a rotary shouldered connection
Pitch	Axial distance between successive threads, which, in a single start thread, is equivalent to lead
Pitch cone	Imaginary cone whose diameter at any point is equal to the pitch diameter of the thread at the same point
Pitch diameter	Diameter at which the distance across the threads is equal to the distance between the threads
Process of quenching	Hardening of a ferrous alloy by austenitizing and then cooling rapidly enough so that some or all of the austenite transforms to martensite
Process of tempering	Reheating a quench-hardened or normalized ferrous alloy to a temperature below the transformation range and then cooling to soften and remove stress
Reference dimension	Dimension that is a result of two or more other dimensions
Rotary shouldered connection	Connection used on drill stem elements, which has coarse, tapered threads and sealing shoulders
Stand-off	Distance between faces of gauges, or gauge and product when mated
Stress-relief groove (feature)	Modification performed on rotary shouldered connections that removes a certain length of the unengaged threads of the pin or box. NOTE This process reduces the likelihood of fatigue cracking in the highly stressed area both for box and pin threads due to a reduction of stress concentration.
Sub	Short drill stem members with different rotary shouldered connections at each end for the purposes of joining unlike members of the drill stem
Swivel	Device at the top of the drill stem that permits simultaneous circulation and rotation
Taper	Increase in the diameter of the pitch cone with length NOTE The taper is expressed in millimetres per millimetre (inches per foot) of thread length.

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Tensile strength	Maximum tensile stress that a material is capable of sustaining that is calculated from the maximum load during a tensile test carried to rupture and the original cross-sectional area of the specimen
Tensile test	Mechanical test used to determine the behaviour of material under axial loading
Test pressure	Pressure above working pressure used to demonstrate structural integrity of a pressure vessel
Thread form	Thread profile in an axial plane for a length of one pitch
Thread height	Distance between the crest and root, normal to the axis of the thread
Tolerance	Amount of variation permitted
Tool joint	Heavy coupling element for drill pipe having coarse, tapered threads and sealing shoulders
Upperkelly valve	Valve immediately above the kelly that can be closed to confine pressures inside the drill stem
Working pressure	Pressure to which a particular piece of equipment is subjected during normal operation
Working temperature	Temperature to which a particular piece of equipment is subjected during normal operation
Full-hole style	FH style type and size of rotary-shouldered connection having thread form of V-040 or V-050
GOST Z style	Type and size of the rotary shouldered connection, covered by a Russian standard and having the V-038R, V-040 or V-050 thread form NOTE The number designation is the pin-base diameter, rounded to units of millimetres.
H90 style	Type and size of rotary shouldered connection having a 90° thread form
IF style	Type and size of the rotary shouldered connection having the V-038R thread form
Number style	NC style type and size of the rotary shouldered connection having the V-038R thread form NOTE The number in the connection number is the first two digits of the pitch diameter of the pin thread at the gauge point, expressed in units of 2,54 mm (0.1 in).
Open-hole style	OH style type and size of rotary shouldered connection having the V-076 thread form
PAC style	Type and size of rotary shouldered connection having the V-076 thread form
Regular style	REG style type and size of rotary shouldered connection having thread forms of V-040, V-050 or V-055
SL H90 style	Type and size of rotary shouldered connection having a 90° thread form and heavy truncation