



SYMBOL

DEFINITION

L	ANGLE
@	AT
⊕	CENTER LINE
□	STRUCTURAL SQUARE TUBING
[	CHANNEL
∅	DIAMETER
'	FEET
"	INCH(ES)
/	OR/PER
Ⓟ	PLATE
°	DEGREE
%	PERCENT
I	I - BEAM
* #	POUNDS/POUNDS PER SQUARE INCH *
R	THROUGH
R	APPROXIMATE/APPROXIMATELY
	SPRING
	SLOPE

C			IRANIAN PETROLEUM STANDARDS 		
B			NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION		
A			DATE	DRAWING No.	SHT/REV.
REV.	DESCRIPTION	DATE	LIST OF ABBREVIATIONS, MECHANICAL SECTION	IPS - D - ME - 300	33 / 33

ABBREVIATION

XH  
XS  
XXH  
XXS

DEFINITION

EXTRA HEAVY.  
EXTRA STRONG.  
DOUBLE EXTRA HEAVY.  
DOUBLE EXTRA STRONG.

ABBREVIATION

Yd.  
Yr.  
YS

DEFINITION

YARD.  
YEAR.  
YIELD STRENGTH.

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ABBREVIATION

DEFINITION

W	WEST/WIDTH/WIDE/WATER/WATT.
WB	WELDED BONNET.
* Wd.	WOOD.
WE	WELD END.
* Wei.	WEIGHT.
* WHSE	WARE HOUSE.
* WI	WROUGHT IRON.
* WL	WELDING LINE.
Wld.	WELD(ED).
WN	WELDING NECK/WELD NECK.
W/O	WITHOUT
WO	WRENCH OPERATED.
Wol.	WELDOLET.
WP	WORKING PRESSURE/WORKING POINT/WATER PROOF.
WPS	WELDING PROCEDURE SPEC.
* WR	WELD RECEPTACLE/WRENCH.
WT	WALL THICKNESS/WEIGHT. *

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ABBREVIATION

V  
 Vac.  
 Vap.  
 Var.  
 VC  
 \* VCP  
 \* VD  
 Vent.  
 Vert.  
 \* VI  
 VIB  
 \* VIT  
 VOL  
 \* VU

DEFINITION

VENT.  
 VACUUM.  
 VAPOR.  
 VARIABLE.  
 VENT CONNECTION/VITRIFIED CLAY.\*  
 VITRIFIED CLAY PIPE.  
 VERTICAL DOWN.  
 VENTILATE/VENTILATION.  
 VERTICAL.  
 VISUAL INSPECTION.  
 VIBRATION.  
 VITRIFIED/VITREOUS.  
 VOLUME.  
 VERTICAL UP.

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ABBREVIATION

UG  
 Un.  
 UNC  
 UNEF  
 UNF  
 Unif.  
 \* US  
 \* UWD

DEFINITION

UNDER GROUND.  
 UNION.  
 UNIFIED COARSE THREAD.  
 UNIFIED EXTRA FINE THREAD.  
 UNIFIED FINE THREAD.  
 UNIFORM.  
 UNDER SIDE/UTILITY STATION.  
 UNDERGROUND WRAPPED.

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ABBREVIATION

DEFINITION

* T	TRAP.
T & C	THREADED AND COUPLED.
T & G	TOUNG AND GROOVE.
* T TO T	TANGENT TO TANGENT.
Tan.	TANGENT.
TB	TEST BLIND.
TBE	THREADED BOTH ENDS.
TC	TEMPERATURE CONTROL/TEST CONNECTION/TEST CLOSED/THERMOCOUPLE*.
TCV	TEMPERATURE CONTROL VALVE.
TE	THREADED END.
Thrd.	THREADED.
Therm.	THERMAL.
Thk.	THICKNESS/THICK.
Thru.	THROUGH.
TI	TEMPERATURE INDICATOR.
TIC	TEMPERATURE INDICATOR CONTROL.
TIG	TUNGSTEN INERT GAS ARC WELDING.
Tk.	TANK.
TL	TANGENT LINE.
TLE	THREADED LARGE END.
* TO	TEST OPEN.
TOB	TOP OF BEAM.
TOC	TOP OF CONCRETE.
TOE	THREADED ONE END.
TOL	THREDOLET/TOLERANCE.
* TOP	TOP OF PIPE.
Tor.	TORISPHERICAL.
TP	TEST PRESSURE/TEST POINT.
TPI	THREAD PER INCH.
* Trly.	TROLLEY.
TSE	THREADED SMALL END.
Turb.	TURBINE.
* TURBGEN	TURBINE GENRATOR.
* Twr.	TOWER.
Typ.	TYPICAL/TYPE.

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## ABBREVIATION

## DEFINITION

Sq.	SQUARE.
SS	STAINLESS STEEL/SERVICE * SINK/SAFETY * SHOWER.
S/S	SUB STATION.
ST	STEAM TRAP/STEAM TRACE.
Sta.	STATION.
Std.	STANDARD.
Std./WT	STANDARD WEIGHT/STANDARD WALL TICKNESS.
STG	SMALL TANGUE AND GROOVE.
* Stife. Ring.	STIFFENING RING.
* Stl.	STEEL.
* Stlt.	STELLITE.
* Stm.	STEAM.
* Stnls.	STAINLESS.
* Str.	STRAINER/STRUCTURE.
* STWY	STAIR WAY.
* Suct.	SUCTION.
Supp.	SUPPORT.
SW	SOCKET WELD.
SWB	SEAL WELD BONNET.
Swg.	SWAGE.
SWP	STEAM WORKING PRESSURE.
Symm.	SYMMETRICAL.
Sys.	SYSTEM.

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ABBREVIATION

DEFINITION

S	SOUTH/SOLENOID.
SAF	SHUT ON AIR FAILURE.
San.	SANITARY.
SAW	SUBMERGED ARC WELDING.
SB	SPECTACLE. BLIND/SLIP BLIND./STUD BOLT/SCREWED BONNET.
* SC	SAMPLE CONNECTION/SCALE.
SCFM	STANDARD CUBIC FEET PER MINUTE.
Sch.	SCHEDULE(PIPE RATING).
Sched.	SCHEDULED(TABULATION).
Scr.	SCREW.
Scrd.	SCREWED.
* SE	STUB END.
Sec.	SECTION.
Ser.	SERIES.
Ser'l.	SERIAL.
Serv.	SERVICE.
Sh.	SHEET/SHOE.
* Shr.	SHOWER.
Sk.	SKETCH.
Slp.	SLOPE.
Sm.	SMALLER.
* SM & F	SMALL MALE & FEMALE.
SMAW	SHIELDED METAL - ARC WELDING.
Smls.	SEAMLESS.
SO	SLIP ON/STEAM * OUT/STRIPPER OUT.
Spec.	SPECIFICATION.
SPGR	SPECIFIC GRAVITY.
Sph.	SPHERE.
Sply.	SUPPLY.
* SPW	SPIRAL WOUND.

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## ABBREVIATION

## DEFINITION

R	RADIUS.
Rad.	RADIAL/RADIAN/RADIATOR.
* RCP	REINFORCED CONCRETE PIPE.
Red.	REDUCER/REDUCING.
Ref.	REFERENCE.
Ref. Col.	REFERENCE COLUMN.
Refr.	REFRACTORY.
Regen.	REGENERATOR.
Reinf.	REINFORCING/REINFORCE.
* Rem.	REMOVE.
Reqd.	REQUIRED.
Rev.	REVISION.
* Rever.	REVERSIBLE.
* REVSP	REVERSIBLE SPADE.
RF	RAISED FACE.
* RFSF	RAISED FACE SMOOTH FINISHED.
RH	RIGHT HAND.
RJ	RING JOINT.
RL	RANDOM LENGTH/RABBER LINED.
RMS	ROOT MEAN SQUARE.
* RO	RESTRICTION ORIFICE.
Rot.	ROTATION.
RPM	REVOLUTIONS PER MINUTE.
RT	RADIOGRAPH TEST.
RTD	RESISTANCE TEMPERATURE DETECTOR.
RTFE	REINFORCED TEFLON.
RTJ	RING TYPE JOINT.
Rtn.	RETURN.
* RTRP	REINFORCED THERMOSETTING RESIN PIPE - LINE.
* RWDP	RAIN WATER DOWN PIPE.

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LIST OF ABBREVIATIONS,  
MECHANICAL SECTION

ABBREVIATION

- QC
- \* QCPLG
- \* QO
- Qty.

DEFINITION

- QUALITY CONTROL.
- QUICK COUPLING.
- QUICK OPENING.
- QUANTITY.

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ABBREVIATION

DEFINITION

PS	PIPE SUPPORT.
* PSB	PRESSURE SEAL BONNET.
PSE	PLAIN SMALL END.
PSI	POUNDS PER SQUARE INCH.
PSIA	POUNDS PER SQUARE INCH ABSOLUTE.
PSIG	POUNDS PER SQUARE INCH GAGE.
PSH	PRESSURE SWITCH HIGH.
PSHL	PRESSURE SWITCH HIGH & LOW.
PSL	PRESSURE SWITCH LOW.
PSV	PRESSURE SAFETY VALVE.
PT	PIPE TAP/POINT/PRESSURE TRANSMITTER.
* PU	PICK UP
PV	PRESSURE VESSEL.
PWHT	POST WELD HEAT TREATMENT.

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## ABBREVIATION

## DEFINITION

P	PROTECTION/PUMP/PERSONNEL.
P & ID	PIPING AND INSTRUMENTATION DIAGRAM.
Para.	PARAGRAPH.
PB	PUSH BUTTON/PRESSURE BLIND.
PBE	PLAIN BOTH ENDS.
PC	*PIECE(S)/PRESSURE CONTROL.
PCV	PRESSURE CONTROL VALVE.
* PD	PRESSURE DROP.
PE	PLAIN END.
Pg.	PAGE.
PL	* PROPERTY LINE/PLATE/PLAIN.
Plat.	PLATFORM.
PLE	PLAIN LARGE END.
* Plgd.	PLUGGED.
Plmb.	PLUMBING.
* PN	PRESSURE NORMAL.
POE	PLAIN ONE END.
Pos.	POSITIVE.
* PP	PRESSURE POINT(TEST CONNECTION).
PPM	PARTS PER MILLION.
PQR	PROCEDURE QUALIFICATION TEST RECORD.
Prefab.	PREFABRICATED.
Press.	PRESSURE.
* Prl.	PARALLEL.
* Prm.	PERMISSBLE.
Proc.	PROCESS.
Proj.	PROJECTION/PROJECT.
* Prop.	PROPERTY.

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## ABBREVIATION

\* O  
 \* Oa.  
 OAF  
 \* Oct.  
 OD  
 OET  
 \* OH  
 \* OP  
 Oper.  
 Opp.  
 Opt.  
 OR  
 Orient.  
 Orif.  
 OS  
 \* OS & Y  
 \* OSBL  
 Ovhd.

## DEFINITION

OIL.  
 OVERALL.  
 OPEN ON AIR FAILURE.  
 OCTAGON(AL).  
 OUTSIDE DIAMETER.  
 ONE END THREADED.  
 OPEN HOLE.  
 OIL PAINT.  
 OPERATED/OPERATING.  
 OPPOSITE.  
 OPTIONAL.  
 OUTSIDE RADIUS.  
 ORIENTATION.  
 ORIFICE.  
 OUTSIDE SCREW/OVER SIZE.  
 OUTSIDE SCREW AND YOKE.  
 OUTSIDE BATTERY LIMIT.  
 OVERHEAD.

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ABBREVIATION

DEFINITION


N	NORTH.
* Nat.	NATURAL.
* Natl.	NATIONAL
NB	NOMINAL BORE.
* NC	NATIONAL COARSE(THREAD)/NORMALLY CLOSED /NO COMMENT.
NDT	NONE DESTRUCTIVE TESTS.
* NF	NATIONAL FINE(THREAD)/NOT FURNISHED.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION.
Ni.	NICKEL.
* Nip.	NIPPLE.
* NO	NORMALLY OPEN.
No(s).	NUMBER(S).
Nom.	NOMINAL.
* Norm.	NORMAL.
* Noz.	NOZZLE.
* NP	NO PAINTING.
NPS	NOMINAL PIPE SIZE.
NPSH	NET POSITIVE SUCTION HEAD.
* NPTF	NATIONAL PIPE TAP FEMALE.
* NPTM	NATIONAL PIPE TAP MALE.
* NRS	NON - RISING STEM.
* NS	NEAR SIDE/NITROGEN SUPPLY.
NTS	NOT TO SCALE.

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ABBREVIATION

DEFINITION

M,m	MALE/MOMENT/MOTOR/METER
Mach.	MACHINE.
Maint.	MAINTENANCE.
* Manif.	MANIFOLD.
* Matl.	MATERIAL.
MAWP	MAXIMUM ALLOWABLE WORKING PRESSURE.
Max.	MAXIMUM.
* MB	MACHINE BOLT/MARSHALLING BOX.
MCC	MOTOR CONTROL CENTER.
Mech.	MECHANICAL.
Med.	MEDIUM.
Mfg.	MANUFACTURING.
Mfr.	MANUFACTURER.
* Mh.	MANHOLE.
* MI	MALLEABLE IRON.
MID	MIDDLE.
* MAG	METAL ARC WELDING.
Min.	MINIMUM/MINUTE.
Misc.	MISCELLANEOUS.
* MJ	MECHANICAL JOINT.
* Mk.	MARK.
* ML	MANUAL LOADING/MATCH LINE.
* MLS	MANUAL LOADING STATION.
MM	MILLIMETER.
* Mnl.	MANUAL.
MO	MOLYBDENUM/MOTOR OPERATED.
MOV	MOTOR OPERATED VALVE.
MP	MEDIUM PRESSURE.
* MPT	MALE PIPE THREAD/MAGNETIC PARTICLE TEST.
* MS	MILD STEEL.
MSYS	MINIMUM SPECIFIED YIELD STRESS.
* MT	MATERIAL TEST
MTO	MATERIAL TAKE OFF
* MW	MINERAL WOOL/MITER WELD/METAL WINDOW.


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ABBREVIATION

L  
 Lab.  
 LC  
 LG  
 \* Lgr.  
 LH  
 \* Lin.  
 Liq.  
 \* LJ  
 \* LL  
 \* LM & F  
 LO  
 \* LOA  
 Loc.  
 LP  
 LR  
 \* LS  
 \* LT & G  
 Lub.  
 \* Lvr.  
 \* LW  
 LWN

DEFINITION

LENGTH/LONG.  
 LABORATORY.  
 LOCK CLOSED/LEVEL CONTROL.  
 LENGTH/LONG/LEVEL GLASS.  
 LARGER.  
 LEFT HAND.  
 LINEAR.  
 LIQUID.  
 LAP JOINT.  
 LIVE LOAD.  
 LARGE MALE AND FEMALE.  
 LOCK OPEN.  
 LENGTH OVERALL.  
 LOCATE/LOCATION.  
 LOW PRESSURE/LOW POINT.  
 LONG RADIUS/LEVEL RECORDER.  
 LINE STOPE.  
 LARGE TONGUE AND GROOVE.  
 LUBRICATE/LUBRICANT.  
 LOUVER.  
 LAP WELD/LIGHT WEIGHT.  
 LONG WELDING NECK.

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ABBREVIATION

\* KCS  
Kg.  
Km.  
KSI

DEFINITION

KILLED CORBON STEEL.  
KILOGRAM.  
KILOMETER.  
1000 PSI

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ABBREVIATION

- JB
- \* Jct.
- \* Jt.

DEFINITION

- JUNCTION BOX.
- JUNCTION.
- JOINT.

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ABBREVIATION

DEFINITION

I	I - BEAM.
* IAS	INSTRUMENT AIR SUPPLY.
* IB	IRON BODY.
* IBBM	IRON BODY BRONZE MOUNTED.
* IBBT	IRON BODY BRONZE TRIM.
* IC	INSULATION COLD.
ID	INSIDE DIAMETER/INSIDE DEPTH OF DISH.
* IH	INSULATION HOT.
In.	INCH(ES)
Incl.	INCLUDED/INCLUDING.
* Incr.	INCREASE.
* Incv.	INCLUSIVE.
Info.	INFORMATION.
* Ins.	INSPECTION.
Insl.	INSULATION/INSULATED.
Int.	INTERNAL/INTERIOR.
* Integ.	INTEGRAL.
* Interm.	INTERMEDIATE.
* Intmt.	INTERMITTENT.
Inv.	INVERT(ED).
* IP	IRON PIPE/INSULATION FOR PERSONNEL PROTECTION.
IPB	WIDE I - BEAM.
IPe	MEDIUM I - BEAM.
* IPS	IRON PIPE SIZE/IRANIAN PETROLEUM STANDARD.
* IR	INSIDE RADIUS.
* IS	INSIDE SCREW.
* IS & Y	INSIDE SCREW AND YOKE.
* ISBL	INSIDE BATTERY LIMIT.
Iso.	ISOMETRIC.

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ABBREVIATION

DEFINITION

H(h)	HEIGHT
HAZ	HEAT AFFECTED ZONE.
H & V	HEATING AND VENTILATING.
HC	HYDROCARBON/HOSE CONNECTOR.
HD	HEAD/HIGH DENSITY/HOLD DOWN/HEAVY DUTY.
* Hdw.	HARDWARE.
* HE	HEAT EXCHANGER/HORIZONTAL EAST.
* Hemi.	HEMISPHERICAL.
Hex.	HEXAGON/HEXAGONAL.
* Hgt.	HEIGHT.
* Hh.	HANDHOLE.
* HN	HORIZONTAL NORTH.
Horiz.	HORIZONTAL.
HP	HIGH POINT/HIGH PRESSURE/HORSE POWER.
* HPFS	HIGH POINT OF FINISHED SURFACE.
* HPP	HIGH PAVING POINT.
HR	HAND RAIL/HANGER ROD/HOSE REEL.
* HS	HORIZONTAL SOUTH/HANGER SPRING.
* HSB	HIGH STRENGTH BOLT.
* HT	HYDRAULIC TEST.
* Htr.	HEATER.
Hvy.	HEAVY.
HW	HORIZONTAL WEST/HOT WATER.
Hyd.	HYDRANT.
Hydr.	HYDRAULIC.
Hydro.	HYDROSTATIC.


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ABBREVIATION

- \* Ga
- Gal.
- Galvd.
- Gen.
- \* GI
- GMAW
- \* GO
- Gov.
- \* Gr.
- \* GRP
- \* Grtg.
- \* Gskt.
- GTAW

DEFINITION

- GAGE.
- GALLON.
- GALVANIZED.
- GENERAL/GENERATOR.
- GALVANIZED IRON.
- GAS METAL ARC WELDING.
- GEAR OPERATED.
- GOVERNOR.
- GRADE.
- GLASS REINFORCED PIPE.
- GRATING.
- GASKET.
- GAS TUNGSTEN ARC WELDING.

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ABBREVIATION

DEFINITION

F	FORCE
* F & D	FLANGED AND DISHED/FACED AND DRILLED
* F OF F	FACE OF FLANGE.
* F TO F	FACE TO FACE.
Fab.	FABRICATED/FABRICATOR.
FBW	FURNACE BUTT WELDED.
* FCAW	FLUX CORED ARC WELDING.
* Fdn.	FOUNDATION.
FE	FLANGED END/FLOW ELEMENT.
FF	FLAT FACE/FULL FACE/FLANGE FACE.
FFSF	FLAT FACE SMOOTH FINISH.
FH	FIRE HYDRANT/FIRE HOSE/FUME HOOD.
FHC	FIRE HOSE CABINET.
FHR	FIRE HOSE RACK.
Fig.	FIGURE.
Fin.	FINISH.
* Find.	FINISHED.
* FL	FRICTION LOAD/FLOOR/FLARE.
Flex.	FLEXIBLE.
Flg.	FLANGE.
Flgd.	FLANGED.
Fltr.	FILTER.
* FOB	FLAT ON BOTTOM.
* FPH	FIRE PROOF HYDRANT.
* FPRF	FIRE PROOF.
* FS	FIELD SUPPORT/FORGED STEEL/FLOW SHEET.
* FSS	FORGED STAINLESS STEEL.
* Ftg.	FITTING.
* Furn.	FURNISHED.
FW	FIELD WELD.

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ABBREVIATION

DEFINITION

E	EAST.
* Ea.	EACH.
Ecc.	ECCENTRIC.
EF	ELECTRIC FURNACE.
* EFW	ELECTRIC FUSION WELD.
* EGW	ELECTRO GAS WELDING.
El.	ELEVATION(HEIGHT)
Elec.	ELECTRICAL.
* Elev.	ELEVATION (VIEW).
El.	ELBOW.
Ellip	ELLIPSODIAL.
Emer.	EMERGENCY.
Encl.	ENCLOSURE.
Eng.	ENGINE.
* EP	EXPLOSION PROOF.
Eq.	EQUAL.
Eqiv.	EQUIVALENT.
* Equip.	EQUIPMENT.
ERW	ELECTRIC RESISTANCE WELD.
* ESH	EMERGENCY SHOWER.
Est.	ESTIMATE.
* ESW	ELECTRO SLAG WELDING.
* EWF	EYEWASH FOUNTAIN.
Exh.	EXHAUST.
Exp.	EXPANSION.
Ext.	EXTERNAL/EXTENSION/EXTRA/EXTRACT.

C			IRANIAN PETROLEUM STANDARDS 		
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## ABBREVIATION

## DEFINITION

* D	DEPTH/DIAMETER.
* DA	DIRECTIONAL ANCHOR.
* DE	DRIVE END.
Def.	DEFLECTION.
Deg.	DEGREE.
Dept.	DEPARTMENT.
* Des.	DESIGN.
Desc.	DESCRIPTION.
* Des. Press.	DESIGN PRESSURE.
* Det.	DETAIL.
* DI	DUCTILE IRON.
Dia.	DIAMETER.
Diag.	DIAGONAL/DIAGRAM.
Diaph.	DIAPHRAGM.
Dim.	DIMENSION.
DIN	DEUTSCHE INDUSTRIE NORM(GERMAN STANDARD).
Disch.	DISCHARGE.
Distr.	DISTRIBUTOR.
* DL	DEAD LOAD.
* DMT	DESIGN METAL TEMPERATURE.
DN	DIAMETER NOMINAL/DOWN.
* DS	DATA SHEET/DUMMY SUPPORT.
* DT	DRILL & TAP
* DW	DUMMY WELD.
Dwg.	DRAWING.

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ABBREVIATION

DEFINITION

Conc.	CONCENTRIC / CONCRETE.
Conn.	CONNECTION.
Const.	CONSTANT / CONSTRUCTION.
Cont.	CONTINUE / CONTINUATION / CONTINUOUS.
Cont'd	CONTINUED.
* Contr.	CONTRACTOR.
* Coord.	COORDINATE.
* Cor.	CORNER.
* Corr.	CORRUGATED / CORROSION.
Cplg.	COUPLING.
Cr.	CHROMIUM.
CS	CARBON STEEL / COLD SPRING.
* CSK	COUNTER SINK.
* CST	CAST STEEL.
* Cstg.	CASTING.
Ctr.(s)	CENTER(S)
CW	CLOCKWISE / COOLING WATER / COLD WATER.
CWP	COLD WORKING PRESSURE.
Cyl.	CYLINDER.

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ABBREVIATION

DEFINITION

C TO C	CENTER TO CENTER
C TO E	CENTER TO END
C TO F	CENTER TO FACE.
C & W	COATED AND WRAPPED.
CA	CORROSION ALLOWANCE.
CAF	COMPRESSED ASBESTOS FIBER.
Calc.	CALCULATED/CALCULATION.
Cap.	CAPACITY.
* CAS	CAST ALLOY STEEL.
Cat.	CATALOG/CATALYST.
* CB	CATCH BASIN.
CCW	COUNTER CLOCKWISE.
* Cem.	CEMENT.
* Cer.	CERAMIC.
CFM	CUBIC FEET PER MINUTE.
* CFW	CONTINUOUS FILLET WELD.
CG	CENTER OF GRAVITY.
* CHOP	CHAIN OPERATED.
CI	CAST IRON.
Cir.	CIRCUMFERENTIAL.
Circ.	CIRCUMFERENCE.
* Ck.	CHECK.
CKD	CHECKED/COMPLETE KNOCKED DOWN.
* Ckrd. Pl.	CHECKERED PLATE.
* CL	CENTERLINE.
Cm.	CENTIMETER.
* CO	CHAIN OPERATED
* COD	CONTINUED ON DRAWING.
* COI	CONTINUED ON ISOMETRIC.
* Com.	COMPONENT.
Col.	COLUMN.
Comb.	COMBINATION.
Compr.	COMPRESSOR.

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ABBREVIATION

DEFINITION

* BA	BASE ANCHOR.
* B & B	BELL & BELL.
* B & F	BELL AND FLANGED.
B & S	BELL & SPIGOT. (API)
* B TO B	BACK TO BACK.
BARG	BAR GAUGE.
* BB	BOLTED BONNET.
* BBE	BEVELED BOTH END.
Bbl.	BARREL.
BC	BOLT CIRCLE/BRANCH CONNECTION/BOLTED COVER.
BE	BEVELED END.
* BEP	BOTH END PLAIN.
* BET	BOTH END THREADED/BETWEEN.
BF	BLIND FLANGE/BOTTOM FLAT.
* BFP	BACK FLOW PREVENTER.
* BH	BOLT HOLE.
* BHN	BRINELL HARDNESS NUMBER.
BL	BATTERY LIMIT/BOTTOM LINE.
Bld.	BLIND.
Bldg.	BUILDING.
* BLE	BEVELED LARGE END.
* Blvd.	BEVELED.
BM	BEAM/BENCH MARK/BENDING MOMENT.
BOE	BEVELED ONE END.
BOM	BILL OF MATERIAL.
BOP	BOTTOM OF PIPE.
Bot.	BOTTOM.
BPD	BARRELS PER DAY.
Br.	BRASS.
Brz.	BRONZE.
* BSE	BEVELED SMALL END.
* Bsmt.	BASEMENT.
* Bush.	BUSHING.
BW	BUTT WELD/BUTT WELDED.
BWG	BIRMINGHAM WIRE GAGE.

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ABBREVIATION

DEFINITION

* A	ANCHOR.
AARH	AVERAGE ARITHMETIC ROUGHNESS HEIGHT.
* AAV	AUTOMATIC AIR VENT.
Abbr.	ABBREVIATION.
* Abs	ABSOLUTE/ABSTRACT.
AC	AIR CLOSES/AIR CONDITION.
Acc.	ACCESSORY.
Accum.	ACCUMULATOR.
Adpt.	ADAPTER.
AG	ABOVE GROUND.
* AI	ALL IRON.
Alum.	ALUMINUM.
AO	AIR OPENS.
AOV	AIR OPERATED VALVE.
* AP	ANALIZER POINT.
Aprd.	APPROVED.
Approx.	APPROXIMATELY.
* AR	AIR TRAPS.
Arrgt.	ARRANGMENT.
AS	AIR SUPPLY.
Asb.	ASBESTOS.
Asph.	ASPHALT.
* Assy.	ASSEMBLY.
Atm.	ATMOSPHERE.
Auto.	AUTOMATIC/AUTOMOBIL.
Aux.	AUXILIARY.
Avg.	AVERAGE.
AVT	AUTOMATIC VENT TRAP.

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## MISCELLANEOUS UNITS

### ABBREVIATION

### DEFINITION

bbbl	BARREL.
bbbl/d	BARREL PER DAY.
bbbl/h	BARREL PER HOUR.
Btu	BRITISH THERMAL UNIT
Btu/h	BRITISH THERMAL UNIT PER HOUR.
CP	CENTI POISE.
°F	DEGREE FAHRENHEIT.
ft	FOOT/FEET
ft <sup>3</sup>	CUBIC FOOT/CUBIC FEET.
ft <sup>3</sup> /h	CUBIC FEET PER HOUR
ft/min	FEET PER MINUTE.
ft/Sec.	FEET PER SECOND.
ft <sup>3</sup> /min	CUBIC FEET PER MINUTE.
ft <sup>3</sup> /Sec.	CUBIC FEET PER SECOND.
gal/h	GALLONS PER HOUR.
gaL/min	GALLONS PER MINUTE.
HP	HIGH POINT/HIGH PRESSURE.
hp	HORSE POWER.
Hz	HERTZ.
IMP	IMPERIAL (BRITISH UNIT)
in(es)	INCH(ES)
in <sup>3</sup>	CUBIC INCH.
KV	KILO VOLT.
KVA	KILO VOLT AMPERE.
KWh	KILO WATT HOUR.
yd <sup>3</sup>	CUBIC YARD.
lb(s)	POUND(S)
lbf	POUND FORCE.
Oz	OUNCE.
Psi	POUNDS PER SQUARE INCH.
Psia	POUND PER SQUARE INCH ABSOLUTE.
Psig	POUNDS PER SQUARE INCH GAGE (GAUGE).
rpm	REVOLUTIONS PER MINUTE.
rps	REVOLUTIONS PER SECOND.
Scf/h	STANDARD CUBIC FEET PER HOUR.
Scf/min	STANDARD CUBIC FEET PER MINUTE.

C			<b>IRANIAN PETROLEUM STANDARDS</b> 				
B			NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION				
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## SI - UNIT

### ABBREVIATION

### DEFINITION

at	TECHNICAL ATMOSPHERE.
atm	STANDARD ATMOSPHERE.
bar	Bar.
° C	DEGREE CELSIUS.
cm	CENTIMETER.
d	DAY.
g	GRAM.
h	HOUR.
J	JOULE.
K	KELVIN.
Kg	KILOGRAM.
Kg/m <sup>3</sup>	KILOGRAM PER CUBIC METER.
Kg/s	KILOGRAM PER SECOND.
Kgf	KILOGRAM FORCE.
Kgf.m	KILOGRAM - FORCE METER.
Kgf.m/s	KILOGRAM - FORCE METER PER SECOND.
Kj/s	KILOJOULE PER SECOND.
Km	KILOMETER
KN	KILO NEWTON
KW	KILOWATT.
L	LITER.
m	METER.
m <sup>3</sup> /h	CUBIC METER PER HOUR.
min	MINUTE.
mm	MILLIMETER.
mm <sup>2</sup>	SQUARE MILLIMETER.
N	NEWTON.
N/m	NEWTON PER METER.
N/mm <sup>2</sup>	NEWTON PER SQUARE MILLIMETER.
Nm <sup>3</sup> /h	NOMINAL CUBIC METER PER HOUR.
Pa	PASCAL.
Rad	RADIAN.
s	SECOND.
t	TONNE.
V	VOLT.

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## REFERENCE STANDARDS

### ABBREVIATION

### DEFINITION

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE.
API	AMERICAN PETROLEUM INSTITUTE.
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
ASNT	AMERICAN SOCIETY OF NONDESTRUCTIVE TESTING.
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS.
AWS	AMERICAN WELDING SOCIETY.
AWWA	AMERICAN WATER WORKS ASSOCIATION.
EJMA	EXPANSION JOINT MANUFACTURERS ASSOCIATION.
IPS	IRANIAN PETROLEUM STANDARDS.
ISA	INSTRUMENT SOCIETY OF AMERICA.
MSS	MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY.
NACE	NATIONAL ASSOCIATION OF CORROSION ENGINEERS.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION.
PFI	PIPE FABRICATION INSTITUTE.
PPI	PLASTIC PIPE INSTITUTE.
SI	SYSTEM INTERNATIONAL.
TEMA	TUBULAR EXCHANGER MANUFACTURERS ASSOCIATION
UBC	UNIFORM BUILDING CODE.

C		<b>IRANIAN PETROLEUM STANDARDS</b>			
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NOTE:

THE USE OF ABBREVIATIONS AND DEFINITIONS MARKED WITH STAR (\*) SHALL BE AVOIDED AS FAR AS POSSIBLE.

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# LIST OF ABBREVIATIONS, MECHANICAL SECTION

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