



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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|------|-------------|------|---|--------------------|----------|------|
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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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| | | | | | SHT/REV. 31/33 |

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/RADIANT/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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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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|------|-------------|------|---|--------------------|----------|
| 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 | 14 / 33 |

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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|------|-------------|------|---|------|--------------------|
| C | | | IRANIAN PETROLEUM STANDARDS  | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | |
| A | | | | DATE | DRAWING No. |
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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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|------|-------------|------|---|------|--------------------|-----|------|
| C | | | IRANIAN PETROLEUM STANDARDS  | | | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | | | |
| A | | | | DATE | DRAWING No. | SHT | REV. |
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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). |
| ElI. | 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. |

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|------|-------------|------|---|--------------------|----------|
| C | | | IRANIAN PETROLEUM STANDARDS  | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | |
| A | | | DATE | DRAWING No. | SHT/REV. |
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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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|------|-------------|------|---|--------------------|----------|
| C | | | IRANIAN PETROLEUM STANDARDS  | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | |
| A | | | DATE | DRAWING No. | SHT/REV. |
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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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|------|-------------|------|---|------|--------------------|-----|------|
| C | | | IRANIAN PETROLEUM STANDARDS  NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | | | |
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| REV. | DESCRIPTION | DATE | LIST OF ABBREVIATIONS, MECHANICAL SECTION | DATE | DRAWING No. | SHT | REV. |
| | | | | | IPS - D - ME - 300 | 9 | 33 |

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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|------|-------------|------|---|------|--------------------|-----|------|
| C | | | IRANIAN PETROLEUM STANDARDS  | | | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | | | |
| A | | | | DATE | DRAWING No. | SHT | REV. |
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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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|------|-------------|------|---|--------------------|----------|
| C | | | IRANIAN PETROLEUM STANDARDS  | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | |
| A | | | DATE | DRAWING No. | SHT/REV. |
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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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| C | | | IRANIAN PETROLEUM STANDARDS  | | | |
| B | | | NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION | | | |
| A | | | DATE | DRAWING No. | SHT | REV. |
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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 ³ | CUBIC FOOT/CUBIC FEET. |
| ft ³ /h | CUBIC FEET PER HOUR |
| ft/min | FEET PER MINUTE. |
| ft/Sec. | FEET PER SECOND. |
| ft ³ /min | CUBIC FEET PER MINUTE. |
| ft ³ /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 ³ | CUBIC INCH. |
| KV | KILO VOLT. |
| KVA | KILO VOLT AMPERE. |
| KWh | KILO WATT HOUR. |
| yd ³ | 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. |

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| C | | | IRANIAN PETROLEUM STANDARDS  | | | | |
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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 ³ | 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 ³ /h | CUBIC METER PER HOUR. |
| min | MINUTE. |
| mm | MILLIMETER. |
| mm ² | SQUARE MILLIMETER. |
| N | NEWTON. |
| N/m | NEWTON PER METER. |
| N/mm ² | NEWTON PER SQUARE MILLIMETER. |
| Nm ³ /h | NOMINAL CUBIC METER PER HOUR. |
| Pa | PASCAL. |
| Rad | RADIAN. |
| s | SECOND. |
| t | TONNE. |
| V | VOLT. |

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| C | | | IRANIAN PETROLEUM STANDARDS  | | |
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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. |

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| C | | IRANIAN PETROLEUM STANDARDS | | | |
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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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