

Glossary and Abbreviations

Abbreviations	Definition
ABS	Acrylonitrile Butadiene Styrene
ABW	Automatic butt weld
Adapt.	Adaptor
ACR	Air Conditioning Refrigeration Tubing
Adj.	Adjustable
AEX	Acid exhaust
AFF	Above Finished Floor (reference to dimensions)
Alum.	Aluminum
AR	Argon
ASH3	Arsine
AT	Analyzer Transmitter
ATC	Automatic Temperature Control
ATV	Atmospheric Vent
AV	Acid Vent
AW	Acid Waste
AWN	Acid waste neutralization
AWG	Air, Water and Gas
AWS	American Welding Society
AWWA	American Water Works Association
B&S	Bell & Spigot
B ₂ H ₆	Diborane
Bal.	Balance
BCF	Bead and Crevice Free
BCL ₃	Boron Trichloride
BD	Blow Down
BE	Beveled End
Bf.	Butterfly
BF ₃	Boron Trifluoride
BFP	Back Flow Preventer
BOD	Bottom of duct
BP	Back Pressure
BR	Bronze
BTU	British Thermal Unit
Bush.	Bushing
BW	Butt weld
C	Cup
C ₂ F ₆	Halocarbon 116 -- hexafluoroethane
C ₂ H ₂ F ₄	Halocarbon 134a -- 1,1,1,2-tetrafluoroethane
C ₂ H ₅ F ₅	Halocarbon 125 -- pentafluoroethane
C ₃ F ₈	Halocarbon 218 -- perfluoropropane
C ₄ F ₈	Halocarbon c-318 -- octafluorocyclobutane
CA	Compressed Air

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CDA	Clean Dry Air
CEX	Corrosive Exhaust
CF4	Halocarbon 14 -- Tetrafluoromethane
CFM	Cubic Feet Per Minute
CH2F2	Halocarbon 32 -- Difluoromethane
CH3F	Halocarbon 41 -- Methyl Fluoride
CH4	Methane
CHF3	Halocarbon 23 -- Trifluoromethane
CI	Cast Iron
CIP	Clean in Place
CK	Check
Cl.	Class
CL	Chlorinated Water
CL2	Chlorine Gas
Cntrl.	Control
CO	Carbon Monoxide
CO	Clean-Out
CO2	Carbon Dioxide
COAX	Coaxial Double Contained Tubing
Combo.	Combination
Comp.	Compression
Conc.	Concentric
Conn.	Connection
Corp.	Corporation
Corrug.	Corrugated
Coup.	Coupling
CPVC	Chlorinated Poly Vinyl Chloride
CRYO	Cryogenic
CS	Clean Steam (white steam)
CS	Carbon Steel
Ctr.	Center
CVMB	Chemical Valve Manifold Box
CW	Cold Water
Dbl.	Double
DF	Diesel Fuel
DF	Drinking Fountain
DH	Double Hub
DI	Deionized
DI	Ductile Iron
DI WTR	Deionized Water
Dia.	Diameter Inch
Diaphr.	Diaphragm

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Abbreviations	Definition
Diff.	Diffuser
Dir.	Direct
Disch.	Discharge
Dn.	Down
Drng.	Drainage
DVC	Dry Vacuum Cleaning
DWR	Chilled Drinking Water Recirculating
DWS	Chilled Drinking Water Supply
DWV	Drainage, Waste and Vent
Ecc.	Ecentric
ECW	Equipment Cooling Water
Elec.	Electric
Ell.	Elbow
EP	Electropolished
Exp.	Expansion
Ext.	External
F & T	Float & Thermostatic
FCAW	Flux Cored Arc Welding
FD	Floor Drain
FE	Flow Element
FEP	Type of Fluoropolymer Tubing and Fittings for a Wide Range of Uses.
Ferr.	Ferrule
FEX	Flammable Exhaust
Fig.	Figure
FIP	Female Iron Pipe
FIT	Flow Indicating Transmitter
Flex.	Flexible
Flg. Flgd.	Flange/ Flanged
FOR	Fuel Oil Return
FOS	Fuel Oil Supply
FOV	Fuel Oil Vent
FPT	Female Pipe Thread
FS	Floor Sink
FS	Flow Switch
ft.	Foot
FT	Flow Transmitter
Ftg.	Fitting
FV	Flush Valve
Ga.	Gage
gal.	Gallon
GEH4	Germane
GEX	General exhaust

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Abbreviations	Definition
GMAW	Gas Metal Arc Welding
GMP	Good Manufacturing Practices
GPM	Gallons Per Minute
Grvd.	Grooved
Gskt.	Gasket
GT	Grease Trap
GTAW	Gas Tungsten Arc Welding
GV	Gasoline Vent
H ₂	Hydrogen
H ₂ SO ₄	Sulfuric acid
HBR	Hydrogen bromide
HCL	Hydrogen chloride or hydrochloric acid if liquid
HE	Helium
HEX	Heat exhaust
Hex.	Hexagon
HF	Hydrofluoric acid
HG	Gas-High Pressure
HN ₂	House Nitrogen (usually coming off of bulk storage tanks)
Hndl.	Handle
Horiz.	Horizontal
HP	Horse Power
HP	High Purity
UHP	Ultra High Purity
HPN ₂	High purity nitrogen (usually bottle gas dedicated to service)
HV	House Vacuum
HVAC	Heating Ventilating and Air Conditioning
HW	Hot Water
HWR	Hot Water Recalculating
HX	Heat Exchanger
Hyd.	Hydraulic
IE	Invert Elevation
IA	Instrument air
IBBM	Iron Body Bronze Mounted
ICW	Industrial Cold Water
IHW	Industrial Hot Water
ID	Inside Diameter
IHW	Industrial Hot Water
in.	Inch
Incr.	Increaser
Indic.	Indicator
Inv.	Invert
IPA	(Isopropyl alcohol) Solvent used in cleaning piping

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Abbreviations	Definition
IPS	Iron Pipe Size
IW	Industrial Waste
IWN	Industrial Waste Neutralization
Jnt.	Joint
LA	Laboratory Compressed Air
Lat.	Lateral
Lav.	Lavatory
lb. lbs.	Pound/ Pounds
Lb/Hr.	Pounds Per Hour
LE	Level Element
Liq.	Liquid
LIT	Level Indicating Transmitter
LO	Lubricating Oil
LOV	Lubricating Oil Vent
LOX	Liquid Oxygen
LS	Lawn Sprinkler Supply
LT	Level Transmitter
Lubr.	Lubricated
LV	Laboratory Vacuum
Lvl.	Level
MA	Medical Compressed Air
Man	Manual
MED GAS	Medical gases -- Vac, air, O2, N2O
MG	Gas-Medium Pressure
MI	Malleable Iron
MIP	Male Iron Pipe
MJ	Mechanical Joint
Moly.	Molybdenum
MPT	Male Pipe Thread
Mtd.	Mounted
Multi	Multiple
MV	Medical Vacuum
N	Nitrogen
N2	Nitrogen
N2O	Nitrous oxide
NC	Normally Closed
NE	Neon
Neo	Neoprene
NF3	Nitrogen Trifluoride
NG	Natural Gas
NH	No Hub
NH3	Ammonia

Glossary and Abbreviations

Abbreviations	Definition
NLG	Non-Leaded Gasoline
NO	Nitric Oxide
NO	Normally Open
NPT	National Pipe Thread
NPW	Non Potable Water
NRS	Non Rising Stem
O ₂	Oxygen
OD	Outside Diameter
OFA	Oil Free Air
Oper.	Operator or Operated
OW	Welding with Orbital Welding Machine
Orif.	Orifice
OS&Y	Outside Screw & Yoke
OX	Oxygen
PCW	Process Cooling Water
PD	Pumped Discharge Line
PE	Plain End
PEX	Cross-Linked Polyethylene
PFA	Type of fluoropolymer tubing and fittings for a wide range of uses
PFA / PTFE / FEP	Fluoropolymer tubing and fittings for a wide range of uses. Many Options available for different processes
PG	Premium Gasoline
PH ₃	Phosphine
PI	Pressure Indicator
PIG / WAD	Used to clean interior surface of piping, by blowing a saturated IPA non-particulate paper through the inside of tubing. Repeat process until WAD comes out clean
PIT	Pressure Indicating Transmitter
PIV	Post Indicator Valve
PJ	Push Joint
PN ₂	Pure Nitrogen (usually bottle gas dedicated to service)
PN ₂ / HPN ₂	High Purity Nitrogen (usually bottle gas dedicated to service)
Pneu.	Pneumatic
Pos.	Positive
PR & TRV	Pressure Relief & Temperature Relief Valve
Pres.	Pressure
PRV	Pressure Relief or Reducing Valve
PSI	Pounds Per Square Inch
PT	Pressure Transmitter
PTFE	Type of fluoropolymer tubing and fittings for a wide range of uses
PV / PVAC	Process Vacuum
PVC	Poly Vinyl Chloride
PVDF	Polyvinylidene Fluoride

Glossary and Abbreviations

Abbreviations	Definition
PW	Purified Water
RA	Unit used to measure surface roughness
RD	Roof Drain
Red.	Reducing
Reg.	Regulator
RG	Regular Gasoline
RL	Roof Leader
Rnd.	Round
RO	Reverse Osmosis
RS	Rising Stem
S	Soil
S	Sink
SAN	Sanitary
SAW	Submerged Arc Welding
SC	Steam condensate
Sch.	Schedule
Scrd.	Screwed
SCX	Scrubbed Exhaust
SD	Storm Drain, Rainwater Drain
SDR	Standard Dimensional Ratio
SF6	Sulfur Hexafluoride
Sfty.	Safety
SH	Shower
SH	Single Hub
SiCL4	Silicon tetrachloride
SiF4	Silicon tetrafluoride
SiH2CL2	Dichlorosilane
SiH4	Silane
SiHCL3	Trichlorosilane
SIP	Steam in Place
SJ	Slip-Joint
SLX	Solvent Exhaust
SMAW	Shielded Metal Arc Welding
SO	Slip On
Sol.	Solenoid
SOL	Sock O Let
SP	Automatic Fire Sprinkler
SPIG	Spigot
sq.	Square
SS	Sanitary Stack
SS	Stainless Steel

Glossary and Abbreviations

Abbreviations	Definition
SST	Stainless steel / stainless steel tubing. Usually 304l or 316l grade stainless
SSD	Sub-Soil Drain, Footing Drain
ST	Storm
St.	Street
Std Wt	Standard Weight
Stm.	Steam
Strnr.	Strainer
Suct.	Suction
SV	Surgical Vacuum
SV	Service Weight
SW	Soft Water
SW	Solvent waste
SW	Socket Weld
T	Thermometer
T&C	Threaded & Coupled
TE	Temperature Element
Temp. HW	Tempered Hot Water
Temp. HWR	Tempered Hot Water, Recirculation
TGP	Process Equipment / Tool Gas Panel
Thd.	Threaded
TOL	Thread O Let
TP	Trap Primer
Trav.	Traverse
Trp.	Trap
TRV	Temperature Relief Valve
TT	Temperature Transmitter
TW	Thermal Well
TX	Thermal Expansion
Typ.	Typical
UHP	Ultra high purity
UN2	Utility nitrogen (usually coming off of bulk storage tanks)
UN2 / HN2	Utility or house nitrogen usually coming off of bulk storage tanks
UPW	Ultra pure water
UR	Urinal
UTIL	Utility
V	Vacuum
V Vent	Vacuum Vent
VAV	Variable Air Volume
VCR	Mechanical joining method
Vert.	Vertical
Vib.	Vibration

Glossary and Abbreviations

Abbreviations	Definition
Vlv.	Valve
VMB	Valve manifold box. Usually contains multiple gas sticks
Vol.	Column
VTR	Vent Thru Roof
W	Waste
W/	With
W/O	Without
WC	Water Closet
WE	Weld End or Weight Element
WFI	Water for Injection
WH	Wall Hydrant
WN	Weld Neck
WO	Waste Oil
WOG	Water Oil Gas
WOL	Weld O Let
WOV	Waste Oil Vent
WP	Water - Potable
Wt	Weight
WT	Weight Transmitter
WVC	Wet Vacuum Cleaning
x	By
XE	Xenon
XH	Extra Heavy
XS	Extra Strong
XXH	Double Extra Heavy
Y	Wye
1-R	One Reduction
2-R	Two Reduction
3-R	Three Reduction
50/50	50/50 Solder Joint
95/5	95/5 Solder Joint