

**Penn Machine**  
Standard Abbreviations

1/25/2008

Arranged in Alphabetical Order	
WORD	ABBREVIATION
10,000 Class	10M
150 Class	150
3000 Class	3M
45 degree elbow	45
6000 Class	6M
90 degree elbow	90
9000 Class	9M
<b>A</b>	
A105 Hot Dip Galvanized	A105HDG
A105N Hot Dipped Galvanized	A105NHGDG
Adapter	ADPT
Amoco Pipe Plug w/groove	AMOCO PL
Annealed	ANN
ASME Spec Defines Dimensions*	B16.11
<b>B</b>	
Bevel Both Ends	BBE
Bevel End Nipple Outlet	BE NOL
Bevel x Plain	BXP
Bevel x Threaded	BXT
Blank	BL
Branch Tee	BRTEE
Brass to Brass	B/B
Brass to Steel	B/S
Brass to Steel Seat Union	B/S UN
Braze-on Outlet	BOL
British Standard Parallel Pipe	BSPP
British Standard Pipe Thread	BST
British Standard Taper Pipe	BSPT
Buttweld	BW
<b>C</b>	
Cap	CAP
Carbon Steel	A105
Carbon Steel Annealed	A105HT
Carbon Steel Normalized	A105N
Class 200 Socketweld	CL200 SW
Concentric Swage Nipple	CSWG
Countersunk Plug	CSPL
Couplet	CPLT
Couplet - Male SW x NPT	FCPLT
Couplet - Socketweld	COUP
Coupling	CPLG
Cross	CR
<b>D, E</b>	
Dielectric Union	DIEUN
Dielectric Union Tail Piece	DIEUNTL
Double Extra Heavy	XXH
Eccentric Reducer	ECRED
Eccentric Swage Nipple	ESWG
Elbow Outlet	EOL
Extra Heavy	XH
<b>F, G</b>	
Female Socketweld	FS
Female Socketweld OD Tube	FSODT
Female Threaded	FT
Female Union Elbow	FUNEL
Female Union Tee	FUNTEE
Flat	FL
Flush Bushing	FLBU
Forging	FRG
Galvanized	G
<b>H, I</b>	
Half Coupling	HFCP
Handlebar Union	HBRUN
Hex Bull Plug	HXBULL PL
Hex Bushing	HXBU
Hex Countersunk Plug	HXCSP

Arranged in Abbreviation Alphabetical Order	
ABBREVIATION	WORD
45	45 degree elbow
90	90 degree elbow
150	150 Class
10M	10,000 Class
3M	3000 Class
6M	6000 Class
9M	9000 Class
<b>A</b>	
A105	Carbon Steel
A105HDG	A105 Hot Dipped Galvanized
A105A	Carbon Steel Annealed
A105N	Carbon Steel Normalized
A105NHGDG	A105 Normalized Hot Dipped Galvanized
ADPT	Adapter
AMOCO PL	Amoco Pipe Plug w/groove
ANN	Annealed
<b>B</b>	
B/B	Brass to Brass
B/S	Brass to Steel
B/S UN	Brass to Steel Seat Union
B16.11	ASME Spec Defines Dimensions*
BBE	Bevel Both Ends
BE NOL	Bevel End Nipple Outlet
BL	Blank
BOL	Braze-on Outlet
BOSS	Welding Boss
BRTEE	Branch Tee
BSPP	British Standard Parallel Pipe
BSPT	British Standard Taper Pipe
BST	British Standard Pipe Thread
BXP	Bevel x Plain
BXT	Bevel x Threaded
<b>C</b>	
CAP	Cap
CL200 SW	Class 200 Socketweld
COUP	Couplet - Socketweld
CPLG	Coupling
CPLT	Couplet
CR	Cross
CSPL	Countersunk Plug
CSWG	Concentric Swage Nipple
<b>D, E</b>	
DIEUN	Dielectric Union
DIEUNTL	Dielectric Union Tail Piece
ECRED	Eccentric Reducer
ESWG	Eccentric Swage Nipple
EOL	Elbow Outlet
<b>F, G</b>	
FL	Flat
FLBU	Flush Bushing
FRG	Forging
FS	Female Socketweld
FSODT	Female Socketweld OD Tube
FT	Female Threaded
FUNEL	Female Union Elbow
FUNST TEE	NPT x Union Seat Tee
FUNTEE	Female Union Tee
G	Galvanized
<b>H, I</b>	
HBRUN	Handlebar Union
HFCP	Half Coupling
HX	Hexagon
HXBU	Hex Bushing
HXBULL PL	Hex Bull Plug
HXCSP	Hex Countersunk Plug
HXPL	Hex Head Plug

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WORD	ABBREVIATION
Hex Head Plug	HXPL
Hexagon	HX
Insert	INS
Insert Welding Outlet	IOL
Inside Diameter	ID
<b>J, K, L</b>	
Lateral	LAT
Lateral Outlet	LOL
Locknut	LCKNUT
Long Neck Hex Pipe Plug	LNHXPL
<b>M</b>	
Male Part Threaded	MTD
Male Socketweld	MS
Male Threaded	MT
Male Union Elbow	MUNEL
Male x Female	MXF
<b>N</b>	
National Pipe Thread	NPT
Newport News Insert	NNINS
Normalized	N
Normalized & Tempered	NT
NPT x Union Seat Tee	FUNST TEE
<b>O</b>	
O Ring	ORNG
O Ring Union	ORNGUN
Orifice Plate Tabbed	ORFPLTABD
Orifice Plate	ORFPL
Orifice Union - Tabbed Plate	ORUN TABD
Orifice Union - Untabbed	ORUN
Outside Diameter	OD
<b>P, Q</b>	
Pickeled	PKL
Plain x Bevel	PXB
Plain End Nipple Outlet	PE NOL
Plain Both Ends	PBE
Plain x Threaded	PXT
Quenched & Tempered	QT
<b>R</b>	
Radiographic Plug	RADGPH PL
Raised Face	RF
Reducer Coupling	RED
Round	RD
Round Head Bull Plug	RDBULL PL
<b>S</b>	
Schedule 10	S10
Schedule 100	S100
Schedule 120	S120
Schedule 140	S140
Schedule 160	S160
Schedule 20	S20
Schedule 30	S30
Schedule 40	S40
Schedule 5	S5
Schedule 60	S60
Schedule 80	S80
Seamless Nipple	SNPL
Socketweld	SW
Socketweld Outlet	SOL
Socketweld x Threaded	SXT
Special	SP
Square	SQ
Square Countersunk Plug	SQCSPL
Square Head Plug	SQPL
Standard	STD
Street 45 Elbow	ST45
Street Tee	STTEE

Arranged in Abbreviation Alphabetical Order	
ABBREVIATION	WORD
ID	Inside Diameter
IOL	Insert Welding Outlet
INS	Insert
<b>J, K, L</b>	
KLM	Tube Types K, L or M
LAT	Lateral
LCKNUT	Locknut
LNHXPL	Long Neck Hex Pipe Plug
LOL	Lateral Outlet
<b>M</b>	
MS	Male Socketweld
MT	Male Threaded
MTD	Male Part Threaded
MUNEL	Male Union Elbow
MXF	Male x Female
<b>N</b>	
NNINS	Newport News Insert
NPT	National Pipe Thread
N	Normalized
NT	Normalized & Tempered
<b>O</b>	
OD	Outside Diameter
OR UNTD	Union TD Piece w/ O-Ring Groove
OR UNTL	Union Tail Piece Flat for O-Ring
ORFPL	Orifice Plate
ORFPLTABD	Orifice Plate Tabbed
ORNG	O Ring
ORNGUN	O Ring Union
ORUN	Orifice Union - Untabbed
ORUN TABD	Orifice Union - Tabbed Plate
<b>P, Q</b>	
PBE	Plain Both Ends
PE NOL	Plain End Nipple Outlet
PKL	Pickeled
PXB	Plain x Bevel
PXT	Plain x Threaded
QT	Quenched & Tempered
<b>R</b>	
RADGPH PL	Radiographic Plug
RD	Round
RDBULL PL	Round Head Bull Plug
RDPL	Round Head Plug
RED	Reducer Coupling
RF	Raised Face
<b>S</b>	
S10	Schedule 10
S100	Schedule 100
S120	Schedule 120
S140	Schedule 140
S160	Schedule 160
S20	Schedule 20
S30	Schedule 30
S40	Schedule 40
S5	Schedule 5
S60	Schedule 60
S80	Schedule 80
SNPL	Seamless Nipple
SOL	Socketweld Outlet
SP	Special
SQ	Square
SQCSPL	Square Countersunk Plug
SQPL	Square Head Plug
ST45	Street 45 Elbow
STD	Standard
STEE	Street Tee
STEL	Street Elbow

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Arranged in Alphabetical Order	
WORD	ABBREVIATION
Street Elbow	STEL
<b>T</b>	
Tee	TEE
Threaded	TD
Threaded Outlet	TOL
Threaded x Bevel	TXB
Thread One End	TOE
Threaded x Socketweld	TXS
Thread Both Ends	TBE
Thread End Nipple Outlet	TD NOL
Tube Types K, L or M	KLM
<b>U, V</b>	
UNF Thread	UNFTD
Union	UN
Union Nut	UNNUT
Union Tail Piece	UNTL
Union Tail Piece Flat for O-Ring	OR UNTL
Union TD Piece w/ O-Ring Groove	OR UNTD
Union Thread Piece (Seat)	UNTD
Vessel Coupling	VCPLG
<b>W, X, Y, Z</b>	
Welding Outlet	WOL
Welded Nipple	WNPL
Welding Boss	BOSS
Welding Spud	WLDSP

Arranged in Abbreviation Alphabetical Order	
ABBREVIATION	WORD
SW	Socketweld
SXT	Socketweld x Threaded
<b>T</b>	
TBE	Thread Both Ends
TD	Threaded
TD NOL	Thread End Nipple Outlet
TEE	Tee
TOL	Threaded Outlet
TXB	Threaded x Bevel
TOE	Thread One End
TXS	Threaded x Socketweld
<b>U, V</b>	
UN	Union
UNFTD	UNF Thread
UNNUT	Union Nut
UNTD	Union Thread Piece (Seat)
UNTL	Union Tail Piece
VCPLG	Vessel Coupling
<b>W, X, Y, Z</b>	
WLDSP	Welding Spud
WNPL	Welded Nipple
WOL	Welding Outlet
WOL	Buttweld Outlet
XH	Extra Heavy
XXH	Double Extra Heavy