

Midco Part Number	WHAT	HOW	SCH	GRADE	SIZE
NIPPLE 'N'					
SNT414X3F	SS	THRD	S40	T4	1/4 X 3
N1X3F	CS	THRD	S40		1 X 3
NXH14X3F	CS	THRD	S80	XH	1/4 X 3
NSM1X3F	CS / SMLS	THRD	S40		1 X 3
NXHSM12X312F	CS / SMLS	THRD	S80	XH	1/4 X 3 1/2
NG1X3F	GAL	THRD	STD		1 X 3
PN1X3	PVC	THRD	S80		1 X 3
PNCPVC1X3	CPVC	THRD	S80		1 X 3



Midco Part Number	WHAT	HOW	SCH	GRADE	SIZE
TEE 'T'					
SST6T38F	SS	THRD	S40	T6	3/8
SST6TSW38F	SS	SW	S40	T6	3/8
SWS10T4T3F	SS	BW	S10	T4	3
SS3MT6LT12F	SS	THRD	3M	T6	0.5
SS3MT4LTSW112F	SS	THRD	3M	T4	1 1/2
MT2F	M / CS	THRD	STD		2
MXHT34F	M / CS	THRD	S80	XH	3/4
MGT1F	GAL	THRD	STD		1
CIT1F	CI / CS	THRD	STD		1
CIXHT2	CI / CS	THRD	S80	XH	2
FS3MT2F	FS	THRD	3M		2
FS3MTSW2F	FS	SW	3M		2
WT1F	CS	BW	STD		1
WXHT1F	CS	BW		XH	1
PVCS40T1	PVC	THRD	S40		1
PVCS40TSW1	PVC	SW	S40		1
CPVCS80T1	CPVC	THRD	S80		1
CPVCS80TSW1	CPVC	SW	S80		1



Midco Part Number	WHAT	HOW	SCH	GRADE	SIZE
CROSS 'CR'					
SST6CR14F	SS	THRD	S40	T6	1/4
SS3MT4LCR1F	SS	THRD	3M	T4	1
MCR1F	M / CS	THRD	STD		1
MXHCR1F	M / CS	THRD	S80	XH	1
CICR1	CI / CS	THRD	STD		1
FS3MCR1	FS	THRD	3M		1
FS3MCRSW1	FS	SW	3M		1
WCR1	CS	BW	STD		1
PVCS40CRSW1	PVC	SW	S40		1
CPVCS80CSW1	CPVC	SW	S80		1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
45					
SST4451F	SS	THRD	S40	T4	1
SST445SW1F	SS	SW	S40	T4	1
SWS10T4451F	SS	BW	S10	T4	1
SS3MT4L451F	SS	THRD	3M	T4	1
SS3MT4L45SW1F	SS	SW	3M	T4	1
M451F	M / CS	THRD	S40	STD	1
MXH451F	M / CS	THRD	S80	XH	1
MG451F	GAL	THRD	STD		1
CI451F	CI / CS	THRD	S40	STD	1
CIXH451	CI / CS	THRD	S80	XH	1
FS3M451F	FS	THRD	3M		1
FS3M45SW1F	FS	SW	3M		1
W451F	CS	BW	S40	STD	1
WXH451F	CS	BW	S80	XH	1
PVCS4045SW1	PVC	SW	S40		1
CPVCS80451	CPVC	THRD	S80		1
CPVCS8045SW1	CPVC	SW	S80		1

45 Deg. Elbow



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
90					
SST4901F	SS	THRD	S40	T4	1
SST490SW1F	SS	SW	S40	T4	1
SWS10T4901F	SS	BW	S10	T4	1
SS3MT4L901F	SS	THRD	3M	T4	1
SS3MT4L90SW1F	SS	SW	3M	T4	1
M901F	M / CS	THRD	S40	STD	1
MXH901F	M / CS	THRD	S80	XH	1
MG901F	GAL	THRD	STD		1
CI901F	CI / CS	THRD	S40	STD	1
CIXH901	CI / CS	THRD	S80	XH	1
FS3M901F	FS	THRD	3M		1
FS3M90SW1F	FS	SW	3M		1
W901F	CS	BW	S40	STD	1
WSR901 (SHORT RADIUS)	CS	BW	S40	STD	1
WXH901F	CS	BW	S80	XH	1
PVCS4090SW1	PVC	SW	S40		1
CPVCS80901	CPVC	THRD	S80		1
CPVCS8090SW1	CPVC	SW	S80		1

90 Deg. Elbow



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
STREET 90 '90ST'					
SST490ST1F	SS	THRD	S40	T4	1
SS3MT4L90ST18	SS	THRD	3M	T4	1/8
M90ST1F	M / CS	THRD	S40	STD	1
FS3M90ST1F	FS	THRD	3M		1

90 Deg. Street Elbow



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
COUPLING 'CP'					
SST4CP1F	SS	THRD	S40	T4	1
SST4CPSW1F	SS	SW	S40	T4	1
SS3MT4LCP1F	SS	THRD	3M	T4	1
SS3MT4LCPSW1F	SS	SW	3M	T4	1
MCP1F	M / CS	THRD	S40	STD	1
MXHCP1F	M / CS	THRD	S80	XH	1
MGCP1F	GAL	THRD	STD		1
CP1	CI / CS	THRD	S40	STD	1
CPXH1	CI / CS	THRD	S80	XH	1
FS3MCP1F	FS	THRD	3M		1
FS3MCPSW1F	FS	SW	3M		1
PVCS40CP1	PVC	THRD	S40		1
PVCS40CPSW1	PVC	SW	S40		1
CPVCS80CP1	CPVC	THRD	S80		1
CPVCS80CPSW1	CPVC	SW	S80		1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
HALF COUPLING 'CPH'					
SST4CPH1F	SS	THRD	S40	T4	1
SST4CPHSW1F	SS	SW	S40	T4	1
SS3MT4LCPH1F	SS	THRD	3M	T4	1
SS3MT4LCPHSW1F	SS	SW	3M	T4	1
CPH1	CI / CS	THRD	S40	STD	1
CPHXH12	CI / CS	THRD	S80	XH	1/2
FS3MCPH1	FS	THRD	3M		1
FS3MCPHSW1	FS	SW	3M		1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
CAP 'C'					
SST4C1F	SS	THRD	S40	T4	1
SWS10T4C1F	SS	BW	S10	T4	1
SS3MT4LC1F	SS	THRD	3M	T4	1
SS3MT4LCSW1F	SS	SW	3M	T4	1
MC1F	M / CS	THRD	S40	STD	1
MXHC1F	M / CS	THRD	S80	XH	1
MGC1F	GALV	THRD	S40	STD	1
CIC212F	CI / CS	THRD	S40	STD	2-1/2
FS3MC1F	FS	THRD	3M		1
FS3MCSW1F	FS	SW	3M		1
WC1F	CS	BW	S40	STD	1
WXHC2F	CS	BW	S80	XH	2
PVCS40C1	PVC	THRD	S40		1
PVCS40CSW1	PVC	SW	S40		1
CPVCS80C1	CPVC	THRD	S80		1
CPVCS80CSW1	CPVC	SW	S80		1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
REDUCER 'R'					
SST4R2X1F	SS	THRD	S40	T4	2 X 1
SWS10T4R2X1F	SS	BW	S10	T4	2 X 1
SS3MT4LR2X1F	SS	THRD	3M	T4	2 X 1
SS3MT4LR2X1F	SS	SW	3M	T4	2 X 1
MR2X1F	M / CS	THRD	S40	STD	2 X 1
MXHR2X1F	M / CS	THRD	S80	XH	2 X 1
MGR2X1F	GAL	THRD	STD		2 X 1
CIR2X1F	CI / CS	THRD	S40	STD	2 X 1
FS3MR2X1F	FS	THRD	3M		2 X 1
FS3MRSW2X1F	FS	SW	3M		2 X 1
WR2X1F	CS	BW	S40	STD	2 X 1
WXHR2X1F	CS	BW	S80	XH	2 X 1
PVCS40RSW2X112	PVC	SW	S40		2 X 112
CPVCS80R2X112	CPVC	THRD	S80		2 X 112
CPVCS80RSW2X112	CPVC	SW	S80		2 X 112

Reducing Coupling



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
ECCENTRIC REDUCER 'ER'					
WER3X1F	CS	BW	S40	STD	3 X 1
WXHER3X1F	CS	BW	S80	XH	3 X 1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
UNION					
SST4U1F	SS	THRD	S40	T4	1
SST4USW1F	SS	SW	S40	T4	1
SS3MT4LU1F	SS	THRD	3M	T4	1
SS3MT4LUSW1F	SS	SW	3M	T4	1
MU1F (Ground joint)	M / CS	THRD	S40	STD	1
MGU1F (Ground joint)	GAL	THRD	STD		1
MAARU1	M / CS	THRD	S80	300# AAR	1
FS3MU1F	FS	THRD	3M		1
FS3MUSW1F	FS	SW	3M		1
PVCS40U112	PVC	THRD	S40		1-1/2
PVCS40USW1	PVC	SW	S40		1
CPVCS80U1	CPVC	THRD	S80		1
CPVCS80USW1	CPVC	SW	S80		1

Union



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
PLUG 'PL'					
SST4PL1F	SS	THRD	S40	T4	1
SS3MT4LPL1F	SS	THRD	3M	T4	1
CIPL1F	CI / CS	THRD			1
FSPL1F	FS	THRD	3M		1
PVCS40PL1	PVC	THRD	S40		1
PVCS40PLSW1	PVC	SW	S40		1
CPVCS80PL1	CPVC	THRD	S80		1

Square Plug



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
BUSHING 'BU'					
	3M SW = INSERT				
SST4BU112X1F	SS	THRD	S40	T4	1-1/2 X 1
SS3MT4LBU112X114F	SS	THRD	3M	T4	1-1/2 X 1-1/4
SS3MT4LIN112X1F	SS	SW	3M	T4	1-1/2 X 1
MBU114X34F	M / CS	THRD	S40	STD	1-1/4 X 3/4
CIGBU112X12F	GAL	THRD	STD		1-1/2 X 1/2
CIBU112X12F	CI / CS	THRD	S40	STD	1-1/2 X 1/2
FSBU112X12F	FS	THRD	3M		1-1/2 X 1/2
FS3MIN112X12F	FS	SW	3M		1-1/2 X 1/2
PVCS40BU112X12F	PVC	THRD	S40		1-1/2 X 1/2
PVCS40BUSW112X12F	PVC	SW	S40		1-1/2 X 1/2
CPVCS80BU112X12F	CPVC	THRD	S80		1-1/2 X 1/2
CPVCS80BUSW112X12F	CPVC	SW	S80		1-1/2 X 1/2

Hex Bushing



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
O LET 'OL'					
	THREAD, SOCKET, WELD				
OLT4T12	SS	TOL	3M	T4	1/2
OLT4S12	SS	SOL	3M	T4	1/2
OLT4W12	SS	WOL	3M	T4	1/2
OLT12	FS	TOL	3M		1/2
OLS12	FS	SOL	3M		1/2
OLW12	FS	WOL	3M		1/2



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
STUB END					
SWS10T4SETA1F	SS	BW	S10	T4	1
SWS40T4SETA1F	SS	BW	S40	T4	1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
STUB END BACKERS					
WBUF1	DUCTILE IRON				1

Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
LAP JOINT					
WLJ1	CS				1



Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
ANGLE FACE RING 'AFR'					
SWS10T4AFR1	SS		S10	T4	1
SWS40T4AFR1	SS		S40	T4	1

Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
AFR BACKERS					
WAFRBUF1	CS				

Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
FLANGES					
SFT4LT1F	SS	THRD	150#	T4	1
SF30T4LT1F	SS	THRD	300#	T4	1
SFT4LSO1F	SS	SO	150#	T4	1
SF30T4LSO1F	SS	SO	300#	T4	1
SFT4LBL1F	SS	BL	150#	T4	1
SF30T4LBL1F	SS	BL	300#	T4	1
WFT1F	CS	THRD	150#	STD	1
WXHFT1F	CS	THRD	300#	XH	1
WSO1F	CS	SO	150#	STD	1
W30SO1F	CS	SO	300#	XH	1
WBL1F	CS	BL	150#	STD	1
W30BL1F	CS	BL	300#	XH	1
WWN1F	CS	WN	150#	STD	1
W30WN1F	CS	WN	300#	XH	1

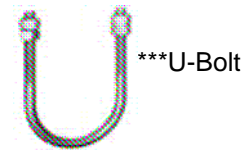


Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
PIPE	1 1/2 DOWN = P		2 & UP = ERW (CS)		
SPS10T4L1F	SS		S10	T4L	1
SPS40T4L1F	SS		S40	T4L	1
P112	CS	PE	S40	A53 B PE	1 1/2
PERW3F	CS	CS	S40	A53 B PE	3
PERW100DRL	CS	DOUBLE RANDOM (40')			10
P375ERW120DRL	CS	DOUBLE RANDOM (40')			12
PGTC1	GAL	T&C	S40		1
PTC1					1
PS40SM1BD	CS		S40	A106	1
PS80SM1BD	CS		S80	A106	1



- ****BD = Blue Diamond
- ****DRL = Double Random Length
- ****SRL = Single Random Length
- ****T&C = Thread & Coupled
- ****TOE = Thread One End
- ****PBE = Pipe Both End (Plain End)

Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
U BOLTS/CLEVIS HANGERS/RISER CLAMPS 'HGR'					
HGR137 2P	GALV	U BOLTS			2
HGR137 2	BLACK	U BOLTS			
HGR260		CLEVIS			
HGR261		RISER CLAMP			



***U-Bolt

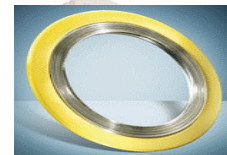


Clevis



**Riser Clamp

Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
GASKET 'GAS'					
GASFLEX1	FLEX		150#		1
GAS30FLEX1	FLEX		300#		1
GAS5500181	GARLOCK	5500	150#	1/8" THICK	1
GAS5500 1	GARLOCK	5500	150#	1/16" THICK	1
GAS305500 1	GARLOCK	5500	300#	1/16" THICK	1
GAS1	GARLOCK	2900	150#	1/16" THICK	1
GASTEFL1	TEFLON		150		1



Midco Part Number
GYROLOCK / HOKE 'GYR'

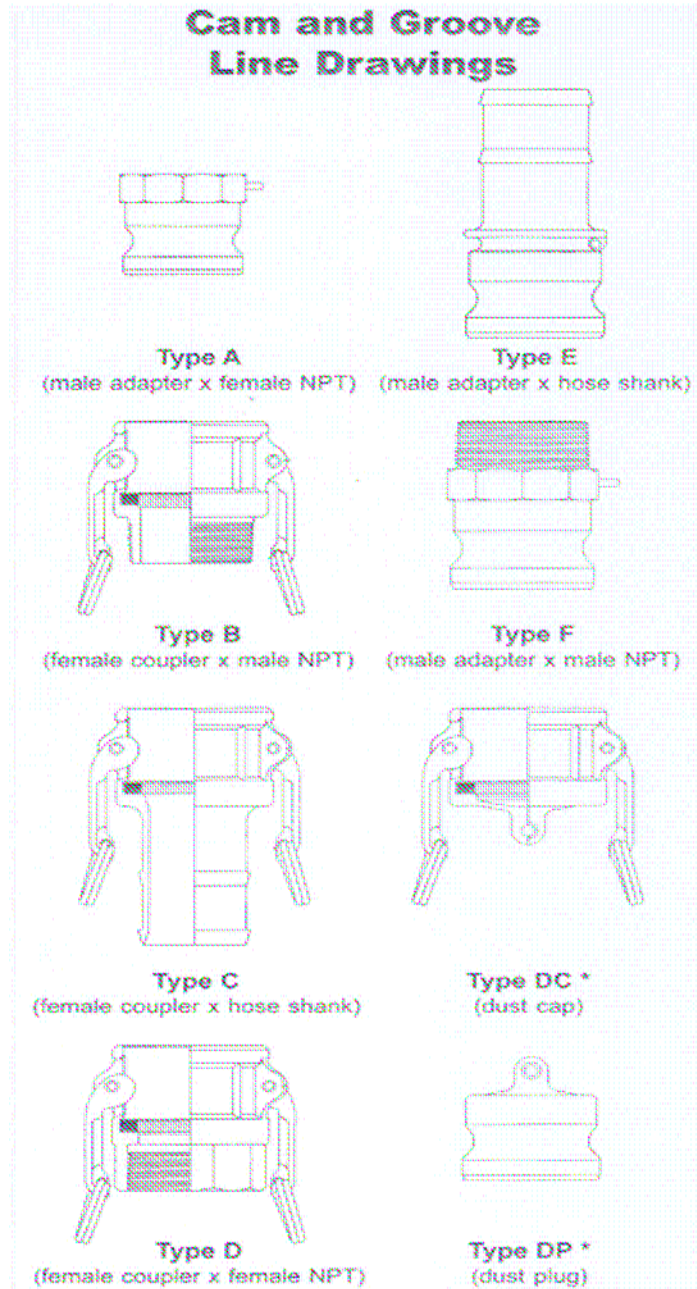
WHAT	HOW	TYPE	GRADE	SIZE
SS	CXM	STRAIGHT		1/4 X 1/4
SS	CXM	ELBOW		1/4 X 3/8
SS	CXC	UNION		1/4
SS		FERRULE SET		1/4
SS	CXCXC	UNION TEE		1/4

1/8" = 2
1/4" = 4
3/8" = 6
1/2" = 8
5/8" = 10
3/4" = 12

Fittings	Part	Page		Part	Page
Union Elbow: LU		15			
Male Connector: CM		10	Male Run Tee: TMT		17
Male Thermocouple Connector: CMT		11	Male Branch Tee: TTM		17
Female Connector: CF		12	Female Run Tee: TFT		18
Union: U		14	Female Branch Tee: TTF		18
Reducing Union: RU		14	Union Tee: TTT		16
Reducer: R		22	Heat Exchanger Tee: XT		19
Male Adapter: AM		24	Union Cross: C		21
Female Adapter: AF		25	Cap: CP		20
Port Connector and Reducing Port Connector: PC		23	Plug: P		20
Bulkhead Adapter: BA		21	Tube Insert: TI		26
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Female Bulkhead Connector: BCF		13	Pre-setting Tool: PST		27
Bulkhead Union: BU		13	Fittings with O-ring Seals	Part	Page
Male Elbow: LM		15	O-ring Male Connector: COM		29
Female Elbow: LF		16	O-ring Straight Connector: COS		29

O-ring Straight Adapter: AOS		30	Female Connector with RT Ends: CF/EC		36
Fittings with Weld Ends	Part	Page	Male Adapter with RS Ends: AM/EA		35
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Fittings with BSP/ISO Threads	Part	Page	Rear Ferrule: FR		38
Male Connector with RP Ends: CM/EB		36	Screen: SCR		38
Male Connector with RS Ends: CM/EA		37	Safety Changer Ferrule Sets: SCF		39
Male Connector with RT Ends: CM/EC		37	Safety Changer Nut and Ferrule Sets: SCNF		39

Midco Part Number	WHAT	HOW	TYPE	GRADE	SIZE
CAMLOCKS 'PT'	(Available in Stainless, Polypropylene, Brass, & Aluminum)				
PT10ASS	TYPE A	SS			1
PT10BPP	TYPE B	PP			1
PT10CAL	TYPE C	ALUM			1
PT10DBR	TYPE D	BRASS			1
PT10ESS	TYPE E	SS			1
PT10FPP	TYPE F	PP			1
PT10VSS	DUST CAP	SS			1
PT10WSS	DUST PLUG	SS			1



Midco Part Number	BRAND	KIND/VALVE	WHAT	HOW	TYPE	SIZE	POET PART NUMBER
VALVES							
VDS4421 1	DSI	SWING CHECK	FS	THRD	150#	1	2CG1 1"
VCR147XU3	CRANE	SWING CHECK	CS	FLG	150#	3	2CG2 3"
VDS4411 1	DSI	SWING CHECK	FS	SW	150#	1	2CG3 1"
VHYT0103G6AFX3	HY-GRADE	CHECK VALVE	CS	WAFER	150#	3	2CS2W 3"
VDS4221 1	DSI	GLOBE	CS	THRD	800#	1	2GL1 1"
VDS1231 1 / VCR143XU	DSI / CRANE	GLOBE	CS	FLG	150#	1	2GL2 1"
VDS4211 2	DSI	GLOBE	CS	SW	800#	2	2GL3 2"
VDS4121 1	DSI	GATE	FS	THRD	800#	1	2GT1 1"
VCR47XUF2	CRANE	GATE	CS	FLG	150#	2	2GT2 2"
VDS4111 1	DSI	GATE	CS	SW	300#	1	2GT3 1"
STRTIYS81CS1	TITAN	Y-STRAINER	CS	THRD	600#	1	2YS1 1"
STRTIYS61CS2	TITAN	Y-STRAINER	CS	FLG	150#	2	2YS2 2"
STRTIYS82CS2	TITAN	Y-STRAINER	CS	SW	600#	2	2YS3 2"
VDS4321 1	DSI	PISTON CHECK	CS	THRD	800#	1	2CL1 1"
VDS4311 1	DSI	PISTON CHECK	CS	SW	800#	1	2CL3 1"
VNJ815L113600TT3	JAMESBURY	BUTTERFLY	SS	LUG	150#	3	3BF2L 3"
VABZ402102 180	ABZ	BUTTERFLY	SS	LUG	150#	18	3BF2L 18"
VSH50M76 12	SHARPE	BV - 2 PIECE	SS	THRD	1000#	1/2	3BV1 1/2"
VSH53036SW12	SHARPE	BV - 3 PIECE	SS	SW	1000#	1/2	3BV3 1/2"
VSH20276 1	SHARPE	SWING CHECK	SS	THRD	200#	1	3CG1 1"
VSH25116 3	SHARPE	SWING CHECK	SS	FLG	150#	3	3CG2 3"
VSH20276SW1	SHARPE	SWING CHECK	SS	SW	200#	1	3CG3 1"
VDU8369 1	DURABLA	CHECK VALVE	SS	THRD	800#	1	3CL1 1"
VDU8369SW1	DURABLA	CHECK VALVE	SS	SW	800#	1	3CL3 1"
VHYT0103G6FFX3	HY-GRADE	CHECK VALVE	SS	WAFER	150#	3	3CS2W 3"
VHYST0112G6FNX120	HY-GRADE	CHECK VALVE	SS	WAFER	150#	12	3CS2WD 12"
VHYT0304G6FFX4	HY-GRADE	CHECK VALVE	SS	WAFER	300#	4	3CS2W300 4"
VAP76500 2	APPOLLO	DEADMAN	SS	THRD	1500#	2	3DMV1 2"
VSH40276 1	SHARPE	GLOBE	SS	THRD	150#	1	3GL1 1"
VSH40276SW1	SHARPE	GLOBE	SS	SW	150#	1	3GL3 1"
VSH30276 12	SHARPE	GATE	SS	THRD	200#	1/2	3GT1 1/2"
STRTIYS81SS12	TITAN	Y-STRAINER	SS	THRD	600#	1/2	3YS1 1/2"
STRTIYS82SS1	TITAN	Y-STRAINER	SS	SW	150#	1	3YS3 1"
VNIF918B3	NIBCO	CHECK VALVE	CI	FLG	125#	3	4CG2 3"
VRESR1430 1	RESUN	PLUG VALVE	CI	THRD	200#	1	4PL1 1"
VRESR1431 3	RESUN	PLUG VALVE	CI	FLG	200#	3	4PL2 3"
STRTIYS58CI4	TITAN	Y-STRAINER	CI	FLG	125#	4	4YS2 4"
VMAN1318 1	MARSH	NEDDLE VALVE	SS	THRD		1	3NV1 1"
VSH1011TTE14	SHARPE	BV - 2 PIECE	BRONZE	THRD	600#	1/4	
VSH53036 12	SHARPE	BV - 3 PIECE	SS	THRD	1000#	1/2	