



SPM® Flow Control Product Book

Version 1.0 (IR)

August 2013

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Reference Guide

Flow Control Products

Treating iron is produced for the following services:

- ✘ Standard service
- ✘ H₂S / sour gas service
- ✘ Low temperature service

Operating Temperature Ranges

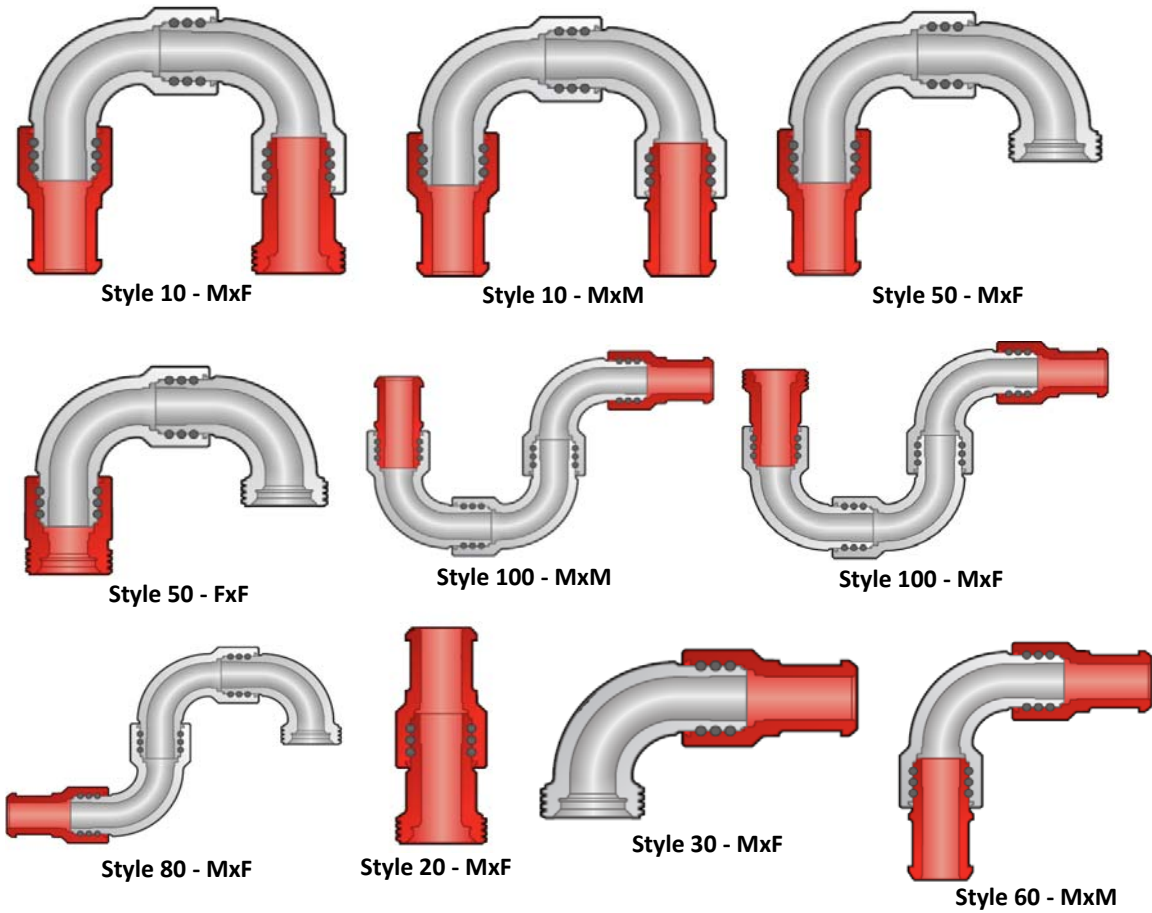
- ✘ Standard Temp: 0°C - 110°C
- ✘ Low Temp: -30°C - 110°C

Maximum Recommended Flow Rate: 42 feet/second

General Notes:

- ✘ Weir SPM recommends that you designate specific strings of iron for the following applications, and that the designated iron remain in that service application throughout the product's life.
- ✘ Every string of iron should be pressurized to its maximum planned working pressure prior to each use.
- ✘ Pressure seal line pipe threads are not recommended for pulsating service above 10,000 psi or where side loading or erosion is suspected. (integral or non-pressure seal threads are recommended.)
- ✘ Personnel must not be around pressure vessel products while pressure is present or being applied.
- ✘ Each string, as well as each component, must have regular intervals of maintenance and inspection for safe, proper performance.
- ✘ Never tighten or hammer wing unions when flow line is under pressure.
- ✘ Welding, brazing or heating on high pressure components is prohibited.
- ✘ General maintenance will extend the life of flow control products.
 - ✘ Grease plug valves and swivel joints after every job.
 - ✘ Replace seals to help prevent leaks and washouts of seal faces.
 - ✘ Clean all seal areas thoroughly.
 - ✘ Flush all products with water after each job.

Swivel Joints



2" 1502 Swivel Joints (Standard Service)

<u>Style</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
10	Hammer Union	MxF	Low Temp	Standard	2A17135
10	Hammer Union	MxF	Low Temp	Standard (Viton)	2A17135V
10	Hammer Union	MxM	Low Temp	Standard	2A17205
10	Safety Iron		Low Temp	Standard	2A17893
20	Hammer Union	MxF	Low Temp	Standard	2A17271
30	Hammer Union	MxF	Low Temp	Standard	2A17297
30	Hammer Union	MxF	Low Temp	Standard (Viton)	2A17297V
50	Hammer Union	MxF	Low Temp	Standard	2A17139
50	Hammer Union	MxF	Low Temp	Standard (Viton)	2A17139V
50	Hammer Union	FxF	Low Temp	Standard	2A17213
50	Hammer Union	3" 1502M x 2" 1502F	Low Temp	Standard	2A17327
60	Hammer Union	MxM	Low Temp	Standard	2A17293
60	Hammer Union	MxF	Low Temp	Standard	2A17494
80	Hammer Union	MxF	Low Temp	Standard	2A17289
100	Hammer Union	MxM	Low Temp	Standard	2A17274
100	Hammer Union	MxF	Low Temp	Standard	2A17272

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Swivel Joints (H2S Service)

*NSCWP 10,000 psi

<u>Style</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
10	Hammer Union	MxF	Low Temp	H2S	2A17171
10	Hammer Union	MxM	Low Temp	H2S	2A17277
20	Hammer Union	MxF	Low Temp	H2S	2A17282
30	Hammer Union	MxF	Low Temp	H2S	2A17298
50	Hammer Union	MxF	Low Temp	H2S	2A17170
50	Hammer Union	FxF	Low Temp	H2S	2A17279
100	Hammer Union	MxF	Low Temp	H2S	2A17285

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 Swivel Joints (Standard Service)

<u>Style</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
10	Hammer Union	MxF	Low Temp	Standard	2A17920
10	Hammer Union	MxM	Low Temp	Standard	2A28766
10	Safety Iron	SI x SI	Low Temp	Standard	2A17945
20	Hammer Union	MxF	Low Temp	Standard	2A17671
20	Safety Iron	SI x SI	Low Temp	Standard	2A29299
30	Hammer Union	MxF	Low Temp	Standard	2A17947
50	Hammer Union	MxF	Low Temp	Standard	2A17922
50	Hammer Union	FxF	Low Temp	Standard	2A17280
50	Mix	3" 1502F x 3" 15K SI	Low Temp	Standard	2A17943
50	Mix	3" 1502F x 4" 15K SI	Low Temp	Standard	2A17949
60	Hammer Union	MxM	Low Temp	Standard	2A17953
60	Hammer Union	MxF	Low Temp	Standard	2A17970
60	Safety Iron	SI x SI	Low Temp	Standard	2A17939
80	Hammer Union	MxF	Low Temp	Standard	2A17934
100	Hammer Union	MxM	Low Temp	Standard	2A17937
100	Hammer Union	MxF	Low Temp	Standard	2A17955
100	Safety Iron	SI x SI	Low Temp	Standard	2A17979

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 Swivel Joints (H2S Service)

*NSCWP 10,000 psi

<u>Style</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
10	Hammer Union	MxF	Low Temp	H2S	2A17276
10	Hammer Union	MxM	Low Temp	H2S	2A17278
50	Hammer Union	MxF	Low Temp	H2S	2A17281
100	Hammer Union	MxF	Low Temp	H2S	2A17286

*Note: Other parts or configurations may be available. Contact SPM.

4" 1002 Swivel Joints (Standard Service)

<u>Style</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
10	Hammer Union	MxF	Low Temp	Standard	2A17925
10	Hammer Union	MxM	Low Temp	Standard	2A17929
10	Safety Iron	SI x SI	Low Temp	Standard	2A29809
50	Hammer Union	MxF	Low Temp	Standard	2A17926

*Note: Other parts or configurations may be available. Contact SPM.

4" 1502 Swivel Joints (Standard Service)

<u>Style</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
10	Hammer Union	MxF	Low Temp	Standard	2A17765
10	Hammer Union	MxM	Low Temp	Standard	2A17737
10	Safety Iron	SI x SI	Low Temp	Standard	2A17894
50	Hammer Union	MxF	Low Temp	Standard	2A17567

**Note: Other parts or configurations may be available. Contact SPM.*

2" 1502 Swivel Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L17126
Parts Kit	Standard (Viton)	4L17126V
Parts Kit	H2S	4L17193
Ball Kit	Standard	4L17131
Ball Kit	H2S	4L17196
Ball Plug Kit	Standard	4L17136
Ball Plug Kit	H2S	4L17195
Seal Kit	Standard	4L17130
Seal Kit	H2S	4L17194

**Note: Other parts or configurations may be available. Contact SPM.*

3" 1502 Swivel Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L17660
Parts Kit	Standard (Viton)	2A33664
Parts Kit	H2S	4L17305
Ball Kit	Standard	4L17303
Ball Kit	H2S	4L17308
Ball Plug Kit	Standard	4L17136
Seal Kit	Standard	4L17265
Seal Kit	H2S	4L17307

**Note: Other parts or configurations may be available. Contact SPM.*

4" 602 Swivel Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L17267
Seal Kit	Standard	4L17268
Ball Plug Kit	Standard	4L17269

**Note: Other parts or configurations may be available. Contact SPM.*

4" 1002 Swivel Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L17721

**Note: Other parts or configurations may be available. Contact SPM.*

4" 1502 Swivel Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L17785

**Note: Other parts or configurations may be available. Contact SPM.*

Kit Definitions:

Parts Kit: elastomers, swivel balls, ball plugs, plug retainer rings, grease port screw

Ball Kit: swivel balls

Ball Plug Kit: ball plugs, plug retainer rings

Seal Kit: elastomers

Hose Loops

2" 1502 Hose Loops (Standard Service)

<u>Length</u>	<u>Style</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
8' 7"	C&C	Hammer Union	Low Temp	Standard	2A17581
9'6"	C&C	Hammer Union	Low Temp	Standard	2A17229

**Note: Other parts or configurations may be available. Contact SPM.*

2" 1502 Hose Loops (H2S Service)

**NSCWP 10,000 psi*

<u>Length</u>	<u>Style</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
9'6"	C&C	Hammer Union	Low Temp	H2S	2A17230

**Note: Other parts or configurations may be available. Contact SPM.*

3A20200 HOSE ASSY/C&C/3 X 12' LR/FS/15K

Check Valves

2" 1502 SD Clapper Check Valves (Standard Service)

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	2A29018
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	2A29024

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 SD Clapper Check Valves (H2S Service)

*NSCWP 10,000 psi

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	H2S	2A29022
MxF (Reverse Flow)	Hammer Union	Low Temp	H2S	2A29026

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 SD Clapper Check Valves (Standard Service)

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	2A28563
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	2A28931
Safety Iron	Safety Iron	Low Temp	Standard	2A28756

*Note: Other parts or configurations may be available. Contact SPM.

4" 1002 SD Clapper Check Valves (Standard Service)

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	2A28744
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	2A28949
Safety Iron	Safety Iron	Low Temp	Standard	2A28955

*Note: Other parts or configurations may be available. Contact SPM.

4" 1502 SD Clapper Check Valves (Standard Service)

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	2A28742
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	2A28945
Safety Iron	Safety Iron	Low Temp	Standard	2A28959

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 SD Clapper Check Valve Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	2A29092

*Note: Other parts or configurations may be available. Contact SPM.

2" chk vlv clapper kit -
old style-4L16449 (single)
new style- 2A26301 (double)

3" 1502 SD Clapper Check Valve Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	2A29477

*Note: Other parts or configurations may be available. Contact SPM.

→ 2A33150

4" 1002 & 4" 1502 SD Clapper Check Valve Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	2A29478

*Note: Other parts or configurations may be available. Contact SPM.

Top Load Check Valve (Non-SD Valve) Kits

<u>Kit Type</u>	<u>Size</u>	<u>Part Number</u>
Parts Kit	2" 1502	2A26301
Parts Kit (Viton)	2" 1502	2A26461
Parts Kit	3" 1502	2A29480
Parts Kit (Viton)	3" 1502	2A29481
Parts Kit	4" 1002 & 4" 1502	2A29482

*Note: Other parts or configurations may be available. Contact SPM.

Cast-Style Clapper Check Valve Kits

<u>Kit Type</u>	<u>Size</u>	<u>Part Number</u>
Parts Kit	2" 1502	4L16449
Parts Kit	3" 1502	4L20821
Parts Kit (Viton)	3" 1502	4L16451V
Parts Kit	4" 1002 / 602	4L21128
Parts Kit (Viton)	4" 1002 / 602	4L16454

*Note: Other parts or configurations may be available. Contact SPM.

Kit Definitions:

Parts Kit: clapper, pins, hanger, seal, backup ring

2" 1502 Dart Check Valves (C-Type - Standard Service)

<u>Flow Configuration</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	1A19662C
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	1A19660C

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Dart Check Valves (C-Type - Standard Service - Metal to Metal Seal)

<u>Flow Configuration</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	1A23085CLT
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	1A24137C

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Dart Check Valves (C-Type - H2S Service)

*NSCWP 10,000 psi

<u>Flow Configuration</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	H2S	1A19467C
MxF (Reverse Flow)	Hammer Union	Low Temp	H2S	1A19485C

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 Dart Check Valves (C-Type - Standard Service)

<u>Flow Configuration</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	Standard	1A19843C
MxF (Reverse Flow)	Hammer Union	Low Temp	Standard	1A19845C
Safety Iron	Safety Iron	Low Temp	Standard	2A27904

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 Dart Check Valves (C-Type - H2S Service)

*NSCWP 10,000 psi

<u>Flow Configuration</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
FxM (Standard Flow)	Hammer Union	Low Temp	H2S	1A19826C

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Dart Check Valve Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L20823C
Parts Kit	Standard (Viton)	4L20823CV
Parts Kit	H2S	4L20824C
Dart Kit	Standard	4L19959
Dart Kit	H2S	4L18824
Seal Kit	Standard	4L20828C
Seal Kit	H2S	4L20829C

**Note: Other parts or configurations may be available. Contact SPM.*

3" 1502 Dart Check Valve Kits

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	4L20825C
Parts Kit	H2S	4L20826C
Dart Kit	Standard	4L18821
Dart Kit	H2S	4L18818
Seal Kit	Standard	4L20830C
Seal Kit	H2S	4L20831C

**Note: Other parts or configurations may be available. Contact SPM.*

Kit Definitions:

Parts Kit: dart, seals, nut, spring, stop, screw, key

Dart Kit: dart, seals, spring, nut

Seal Kit: seals

Plug Valves**2x1 wrench 2P12258****1" x 2" Plug Valves - Standard Service**

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Manual	Low Temp	Standard	1A14483
Hammer Union	Manual	Low Temp	Standard (Acid)	1A25038
Hammer Union	Manual	Low Temp	Standard (Viton)	1A14483V
Hammer Union	Manual	Low Temp	Standard (Torture)	1A19748
Hammer Union	Hydraulic	Low Temp	Standard	1A14483HB
Hammer Union	Air	Low Temp	Standard	1A14483A
Hammer Union	Air	Low Temp	Standard (Viton)	1A14483AV
Hammer Union	No Actuator	Low Temp	Standard	1A20391
Hammer Union	No Actuator	Low Temp	Standard (Side Grease Ports)	1A25037
Safety Iron	Manual	Low Temp	Standard	2A27975

*Note: Other parts or configurations may be available. Contact SPM.

1" x 2" Plug Valves - H2S Service

*NSCWP 10,000 psi

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Manual	Low Temp	H2S	1A19777
Hammer Union	Hydraulic	Low Temp	H2S	1A19777HB
Hammer Union	No Actuator	Low Temp	H2S (Side Grease Ports)	1A25043

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Plug Valves - Standard Service

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Manual	Low Temp	Standard	1A14487
Hammer Union	Manual	Low Temp	Standard (Acid)	1A20211
Hammer Union	Manual	Low Temp	Standard (Viton)	2A26277
Hammer Union	Hydraulic	Low Temp	Standard	1A14487HB
Hammer Union	Air	Low Temp	Standard	1A14487A
Hammer Union	No Actuator	Low Temp	Standard	1A24017
Safety Iron	Manual	Low Temp	Standard	2A27973

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Plug Valves - H2S Service

*NSCWP 10,000 psi

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Manual	Low Temp	H2S	1A14492
Hammer Union	Manual	High Temp	H2S	2A26271

*Note: Other parts or configurations may be available. Contact SPM.

2" Light Weight Plug Valves - Standard Service

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Manual	Low Temp	Standard	2A29633

*Note: Other parts or configurations may be available. Contact SPM.

Threaded 2" Plug Valves - Standard Service

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
LPTL - 5,000 psi	Manual	Low Temp	Standard	1A12477
LPTL - 5,000 psi	Manual	Low Temp	Standard (Viton)	1A18231
LPTL - 10,000 psi	Manual	Low Temp	Standard	1A12478
LPTL - 15,000 psi	Manual	Low Temp	Standard	1A11742

*Note: Other parts or configurations may be available. Contact SPM.

GEAR= HANDWHEEL**3" 1502 Plug Valves - Standard Service**

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Manual	Low Temp	Standard	2A26611
Hammer Union	Gear	Low Temp	Standard	1A14496
Hammer Union	Gear	Low Temp	Standard (Viton)	1A14496V
Hammer Union	Gear - Low Profile	Low Temp	Standard	2A30297
Hammer Union	Hydraulic	Low Temp	Standard	1A14496H
Hammer Union	Hydraulic	Low Temp	Standard (Viton)	2A29316H
Hammer Union	Air	Low Temp	Standard	1A14496A
Hammer Union	No Actuator	Low Temp	Standard	1A18962
Hammer Union	No Actuator	Low Temp	Standard (Viton)	2A29315
Safety Iron	Manual	Low Temp	Standard	2A27943
Safety Iron	Gear	Low Temp	Standard	2A27942

**Note: Other parts or configurations may be available. Contact SPM.*

3" 1502 Plug Valves - H2S Service

**NSCWP 10,000 psi*

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Gear	Low Temp	H2S	1A19585
Hammer Union	Hydraulic	Low Temp	H2S	1A19585H
Hammer Union	No Actuator	Low Temp	H2S	1A20933

**Note: Other parts or configurations may be available. Contact SPM.*

4" 1002 Plug Valves - Standard Service

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Gear	Low Temp	Standard	2A25182
Hammer Union	Hydraulic	Low Temp	Standard	2A25182HB
Hammer Union	No Actuator	Low Temp	Standard	2A25154
Safety Iron	Gear	Low Temp	Standard	2A27872

**Note: Other parts or configurations may be available. Contact SPM.*

4" 1502 Plug Valves - Standard Service

<u>Connection Type</u>	<u>Actuation</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	Gear	Low Temp	Standard	2A25168
Hammer Union	Hydraulic	Low Temp	Standard	2A25168HB
Hammer Union	No Actuator	Low Temp	Standard	2A25167
Safety Iron	Gear	Low Temp	Standard	2A28135

**Note: Other parts or configurations may be available. Contact SPM.*

1" x 2" 1502 Plug Valve Kits & Parts

<u>Kit Type</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
Parts Kit	Standard		4L11769
Elastomer Kit	Standard		4L20947
Elastomer Kit	H2S	Acid Solvent	4L20949
Seal Kit	Standard		4L14203

**Note: Other parts or configurations may be available. Contact SPM.*

4L20164
 2-3P11692 SEG/
 SEAL/2 PV
 2-3P11693 SEAL/
 SEG/2 PV/BUN
 4L13694
 2- 3P11692 SEG/SEAL
 2- 3P11693 SEAL/SEG
 2- 4A11979
 SEAL&BKUP
 1-P11697 SEAL/
 OR37540013/2-240/
 BUNA N 90 DURO
 1- P11715 GSKT/RET/
 GREASE/1 SP150 PV
 1-P11698 GSKT/RET/
 GREASE/2 SP150 PV
 1- P10064 GREASE
 FTTNG/ 3/8-NPT
 1-P11699 NUT/
 HEX/1.13-12UN/
 LIGHT-THIN/
 2-3P20338 SEG/SIDE/2
 PV/PHENOLIC
 1-P12257 RNG/
 BKUP/37540013

2" INSERT = 3P11692

2" 1502 Plug Valve Kits & Parts

<u>Kit Type</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
Parts Kit	Standard		4L11982
Parts Kit	H2S		4L14522
Parts Kit	H2S	No Side Ports	4L20574
Elastomer Kit	Standard		4L20948
Elastomer Kit	H2S	Acid Solvent	4L20950
Seal Kit	Standard		4L13694
Seal Kit	Standard	Acid Solvent	4L16824
Seal Kit	H2S	No Side Ports	4L20575

**Note: Other parts or configurations may be available. Contact SPM.*

2" 1502 Lightweight Plug Valve Kits & Parts

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	2A30161
Seal Kit	Standard	2A30162

**Note: Other parts or configurations may be available. Contact SPM.*

3" INSERT = 2P27074

3" 1502 Plug Valve Kits & Parts

<u>Kit Type</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
Parts Kit (SD)	Standard		2A30675
Parts Kit (SD) - No Side Segments	Standard		2A34110
Elastomer Kit (SD)	Standard		2A30678
Seal Kit (SD)	Standard		2A30677

**Note: Other parts or configurations may be available. Contact SPM.*

4" 1002 Plug Valve Kits & Parts

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	2A26353

**Note: Other parts or configurations may be available. Contact SPM.*

4" 1502 Plug Valve Kits & Parts

<u>Kit Type</u>	<u>Service Type</u>	<u>Part Number</u>
Parts Kit	Standard	2A26354

**Note: Other parts or configurations may be available. Contact SPM.*

Misc. Plug Valve Parts

<u>Part</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
Grease Stick	Std Temp	Carton of 10	P13336
Grease Stick	Low Temp	Carton of 10	P13337
Grease Stick	Low Temp		P16832
Grease Fitting		3/8" NPT	P10064

**Note: Other parts or configurations may be available. Contact SPM.*

Kit Definitions:

Parts Kit: plug, seals, side segments, seal segments, grease fitting, backup ring

Seal Kit: seals, backup rings, grease fitting, seal segment

Elastomer Kit: seals, backup ring

3P14485 CAP/BDY/2-SP100&150/LT/4340

Relief Valves

2" Spring Relief Valves - Standard Service

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	2" LPTL F Outlet	Low Temp	Standard	2A18138
Hammer Union	2" 1502F Outlet	Low Temp	Standard	2A18192
Hammer Union	2" 1502F Outlet	Low Temp	Standard (Viton)	2A18192V
Hammer Union	2" 2002F Outlet	Low Temp	Standard	2A18796

*Note: Other parts or configurations may be available. Contact SPM.

2" Spring Relief Valves - H2S Service

*NSCWP 10,000 psi

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	2" 1502F Outlet	Low Temp	H2S	2A18544

*Note: Other parts or configurations may be available. Contact SPM.

3" Spring Relief Valves - Standard Service

<u>Connection Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Hammer Union	3" 1502F Outlet	Low Temp	Standard	2A22356
Safety Iron	Safety Iron	Low Temp	Standard	2A29371

*Note: Other parts or configurations may be available. Contact SPM.

3" Nitrogen Relief Valves - Standard Service

<u>Valve Type</u>	<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Nitrogen - Unloading	3" 1502F Outlet	Low Temp	Standard	1A23392
Nitrogen - Back Pressure	3" 1502F Outlet	Low Temp	Standard	1A23493LT

*Note: Other parts or configurations may be available. Contact SPM.

2" Spring Relief Valve Parts

<u>Type</u>	<u>Other</u>	<u>Part Number</u>
Parts Kit	Buna	4L20418
Ball, Seat and Seal Kit		4L18755
Seal Kit	Buna	4L20423

*Note: Other parts or configurations may be available. Contact SPM.

3" Spring Relief Valve Parts

<u>Type</u>	<u>Outlet/Branch Configuration</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
Parts Kit			Buna	4L22486
Gate, Nozzle & Seal Kit				4L22481
Seal Kit			Buna	4L22482
Body Assembly	3" 1502F Outlet	Standard	Vessel Tested	2A28817

*Note: Other parts or configurations may be available. Contact SPM.

3" Nitrogen Relief Valve Parts

<u>Type</u>	<u>Outlet/Branch Configuration</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
Parts Kit - Unloading		Standard		4L23547
Parts Kit - Back Pressure		Standard		4L24315
Body Assembly - Unloading	3" 1502F Outlet	Standard	Vessel Tested	2A28818
Body Assembly - Back Pressure	3" 1502F Outlet	Standard	Vessel Tested	2A28819

*Note: Other parts or configurations may be available. Contact SPM.

Kit Definitions (nitrogen):

Parts Kit (Unloading): wear sleeve, nozzle, cartridge, spider, sleeve, seals, backup ring

Parts Kit (Back Pressure): retainer spring, gate, spide, nozzle, seals, bushing, pins, spring

NPS Pipe**2" 1502 NPS Pipe**

Style	Length	Connection Type	Temperature	Service Type	Part Number
Non-Detachable	24"	Hammer Union	Low Temp	Standard	2A12519
Non-Detachable	36"	Hammer Union	Low Temp	Standard	2A12521
Non-Detachable	48"	Hammer Union	Low Temp	Standard	2A12525
Non-Detachable	60"	Hammer Union	Low Temp	Standard	2A12526
Non-Detachable	72"	Hammer Union	Low Temp	Standard	2A12527
Non-Detachable	96"	Hammer Union	Low Temp	Standard	2A12528
Non-Detachable	120"	Hammer Union	Low Temp	Standard	2A12530
Detachable - Shoulder	24"	Hammer Union	Low Temp	Standard	2A22811
Detachable - Shoulder	36"	Hammer Union	Low Temp	Standard	2A22766
Detachable - Shoulder	48"	Hammer Union	Low Temp	Standard	2A22812
Detachable - Shoulder	60"	Hammer Union	Low Temp	Standard	2A22813
Detachable - Shoulder	72"	Hammer Union	Low Temp	Standard	2A22814
Detachable - Shoulder	96"	Hammer Union	Low Temp	Standard	2A22815
Detachable - Shoulder	120"	Hammer Union	Low Temp	Standard	2A22816
Detachable - Plain	24"	Hammer Union	Low Temp	Standard	2A23281
Detachable - Plain	36"	Hammer Union	Low Temp	Standard	2A23384
Detachable - Plain	48"	Hammer Union	Low Temp	Standard	2A23282
Detachable - Plain	60"	Hammer Union	Low Temp	Standard	2A23385
Detachable - Plain	72"	Hammer Union	Low Temp	Standard	2A23283
Detachable - Plain	96"	Hammer Union	Low Temp	Standard	2A23390
Detachable - Plain	120"	Hammer Union	Low Temp	Standard	2A23284

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 NPS Pipe

Style	Length	Connection Type	End Configuration	Temperature	Service Type	Part Number
Non-Detachable	24"	Hammer Union		Low Temp	Standard	2A12554
Non-Detachable	36"	Hammer Union		Low Temp	Standard	2A12556
Non-Detachable	48"	Hammer Union		Low Temp	Standard	2A12559
Mix - Non-Detachable	48"	Mix	3" 15K SI x 3" 1502F	Low Temp	Standard	2A28038
Non-Detachable	60"	Hammer Union		Low Temp	Standard	2A12562
Non-Detachable	72"	Hammer Union		Low Temp	Standard	2A12563
Non-Detachable	96"	Hammer Union		Low Temp	Standard	2A12565
Non-Detachable	120"	Hammer Union		Low Temp	Standard	2A12568
Detachable - Shoulder	24"	Hammer Union		Low Temp	Standard	2A22820
Detachable - Shoulder	36"	Hammer Union		Low Temp	Standard	2A22768
Detachable - Shoulder	48"	Hammer Union		Low Temp	Standard	2A22821
Detachable - Shoulder	60"	Hammer Union		Low Temp	Standard	2A22822
Detachable - Shoulder	72"	Hammer Union		Low Temp	Standard	2A22823
Detachable - Shoulder	96"	Hammer Union		Low Temp	Standard	2A22824
Detachable - Shoulder	120"	Hammer Union		Low Temp	Standard	2A22825
Detachable - Plain	24"	Hammer Union		Low Temp	Standard	2A23268
Detachable - Plain	36"	Hammer Union		Low Temp	Standard	2A23627
Detachable - Plain	48"	Hammer Union		Low Temp	Standard	2A23269
Detachable - Plain	60"	Hammer Union		Low Temp	Standard	2A23628
Detachable - Plain	72"	Hammer Union		Low Temp	Standard	2A23285
Detachable - Plain	120"	Hammer Union		Low Temp	Standard	2A23270
N/A	48"	Safety Iron		Low Temp	Standard	2A27931
N/A	120"	Safety Iron		Low Temp	Standard	2A27939

*Note: Other parts or configurations may be available. Contact SPM.

4" 1002 NPS Pipe

<u>Style</u>	<u>Length</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Non-Detachable	24"	Hammer Union	Low Temp	Standard	2A28239
Non-Detachable	36"	Hammer Union	Low Temp	Standard	2A28240
Non-Detachable	48"	Hammer Union	Low Temp	Standard	2A28243
Non-Detachable	60"	Hammer Union	Low Temp	Standard	2A28245
Non-Detachable	72"	Hammer Union	Low Temp	Standard	2A28246
Non-Detachable	96"	Hammer Union	Low Temp	Standard	2A28251
Non-Detachable	120"	Hammer Union	Low Temp	Standard	2A28254
Detachable - Shoulder	24"	Hammer Union	Low Temp	Standard	2A28881
Detachable - Shoulder	36"	Hammer Union	Low Temp	Standard	2A28882
Detachable - Shoulder	48"	Hammer Union	Low Temp	Standard	2A28883
Detachable - Shoulder	72"	Hammer Union	Low Temp	Standard	2A28886
Detachable - Shoulder	96"	Hammer Union	Low Temp	Standard	2A28887
Detachable - Shoulder	120"	Hammer Union	Low Temp	Standard	2A28888
Detachable - Plain	24"	Hammer Union	Low Temp	Standard	2A29067
Detachable - Plain	36"	Hammer Union	Low Temp	Standard	2A29068
Detachable - Plain	48"	Hammer Union	Low Temp	Standard	2A29069
Detachable - Plain	60"	Hammer Union	Low Temp	Standard	2A29070
Detachable - Plain	72"	Hammer Union	Low Temp	Standard	2A29071
Detachable - Plain	96"	Hammer Union	Low Temp	Standard	2A29072
Detachable - Plain	120"	Hammer Union	Low Temp	Standard	2A29073
N/A	24"	Safety Iron	Low Temp	Standard	2A29648
N/A	36"	Safety Iron	Low Temp	Standard	2A29651
N/A	48"	Safety Iron	Low Temp	Standard	2A29653
N/A	60"	Safety Iron	Low Temp	Standard	2A29654
N/A	72"	Safety Iron	Low Temp	Standard	2A29656
N/A	96"	Safety Iron	Low Temp	Standard	2A29659
N/A	120"	Safety Iron	Low Temp	Standard	2A29660

*Note: Other parts or configurations may be available. Contact SPM.

Integral Pup Joints

2" 1502 Pup Joints - Standard Service

<u>Length</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>	
4'	48"	Hammer Union	Low Temp	Standard	2A19448
5'	60"	Hammer Union	Low Temp	Standard	2A20387
6'	72"	Hammer Union	Low Temp	Standard	2A19859
7'6"	90"	Hammer Union	Low Temp	Standard	2A19449
9'6"	114"	Hammer Union	Low Temp	Standard	2A19861
4'	48"	Safety Iron	Low Temp	Standard	2A27947

*Note: Other parts or configurations may be available. Contact SPM.

2" 1502 Pup Joints - H2S Service

*NSCWP 10,000 psi

<u>Length</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>	
4'	48"	Hammer Union	Low Temp	H2S	2A19453
5'	60"	Hammer Union	Low Temp	H2S	2A22081
6'	72"	Hammer Union	Low Temp	H2S	2A19856
7'6"	90"	Hammer Union	Low Temp	H2S	2A19454
9'6"	114"	Hammer Union	Low Temp	H2S	2A19858

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 Pup Joints - Standard Service

<u>Length</u>	<u>Connection Type</u>	<u>End Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>	
4'	48"	Hammer Union		Low Temp	Standard	2A20522
5'	60"	Hammer Union		Low Temp	Standard	2A24677
6'	72"	Hammer Union		Low Temp	Standard	2A20523
7'6"	90"	Hammer Union		Low Temp	Standard	2A20524
9'6"	114"	Hammer Union		Low Temp	Standard	2A20526
4'	48"	Mix	3" 15K SI x 3" 1502F	Low Temp	Standard	2A28216
4'	48"	Mix	3" 15K SI x 3" 1502M	Low Temp	Standard	2A28179
4'	48"	Safety Iron		Low Temp	Standard	2A27906
6'	72"	Mix	3" 15K SI x 3" 1502M	Low Temp	Standard	2A28181
6'	72"	Mix	3" 15K SI x 3" 1502F	Low Temp	Standard	2A28196

*Note: Other parts or configurations may be available. Contact SPM.

3" 1502 Pup Joints - H2S Service

*NSCWP 10,000 psi

<u>Length</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>	
4'	48"	Hammer Union	Low Temp	H2S	2A20527
5'	60"	Hammer Union	Low Temp	H2S	2A22596
6'	72"	Hammer Union	Low Temp	H2S	2A20528
9'6"	114"	Hammer Union	Low Temp	H2S	2A20531

*Note: Other parts or configurations may be available. Contact SPM.

2" FXF - 2P10026
2" MXM - 3L11571

3" FXF - 3P10109
3" MXM - 3L11574

Integral Crossovers

Short Crossovers (Under 24") - Standard Service

Outlet/Branch Configuration	Length	Other	Temperature	Service Type	Part Number
2" 1502F x 2" 1502F	7"		Low Temp	Standard	2P10026
2" 1502F x 3" 1502F	7"		Std Temp	Standard	3P10107
2" 1502F x 4" 1502F	7"		Std Temp	Standard	2P26413
2" 1502M x 2" 1502F	5.25"		Std Temp	Standard	3A22166
2" 1502M x 2" 1502F	6"		Low Temp	Standard	3A23131
2" 1502M x 2" 1502F	6.5"		Std Temp	Standard	3L13232
2" 1502M x 2" 1502F	7"		Std Temp	Standard	3L11579
2" 1502M x 2" 1502F	7"		Low Temp	Standard	3A22139
2" 1502M x 2" 1502F	8"		Std Temp	Standard	3A24829
2" 1502M x 2" 1502F	8.5"		Std Temp	Standard	3A23164
2" 1502M x 2" 1502F	10.03		Std Temp	Standard	3A21100
2" 1502M x 2" 1502F	10.03"		Low Temp	Standard	3A21306
2" 1502M x 2" 1502F	12"		Std Temp	Standard	3A21290
2" 1502M x 2" 1502F	13.5"		Low Temp	Standard	2A29643
2" 1502M x 2" 1502F	13.88"		Low Temp	Standard	3A20540
2" 1502M x 2" 1502F	14"		Std Temp	Standard	3A24833
2" 1502M x 2" 1502F	19.5"		Low Temp	Standard	2A29644
2" 1502M x 2" 1502F	20"		Std Temp	Standard	3A24746
2" 1502M x 2" 1502F	9"	.25" ID Choke	Low Temp	Standard	2A28868
2" 1502M x 2" 1502F	9"	.5" ID Choke	Low Temp	Standard	2A28869
2" 1502M x 2" 1502F	8.63"	Choke FC140	Low Temp	Standard	2A26132
2" 1502M x 2" 1502F	8.63"	Choke FC140	Low Temp	Standard	3A20638
2" 1502M x 2" 1502F	5.5"	Eccentric	Low Temp	Standard	2A28658
2" 1502M x 2" 1502F	5.88"	Eccentric	Low Temp	Standard	2A28659
2" 1502M x 2" 1502M	7"		Low Temp	Standard	3L11571
2" 1502M x 2" 1502M	8.06"		Low Temp	Standard	3A19564
2" 1502M x 2" 1502M	8.5"		Low Temp	Standard	2A28584
2" 1502M x 2" 1502M	9"		Std Temp	Standard	3A24742
2" 1502M x 2" 1502M	11"		Std Temp	Standard	3A18213
2" 1502M x 2" 1502M	11"		Low Temp	Standard	3A20981
2" 1502M x 2" 1502M	12"		Std Temp	Standard	3A21209
2" 1502M x 2" 1502M	12.38"		Std Temp	Standard	3A23676
2" 1502M x 2" 1502M	16.25"		Low Temp	Standard	2A28947
2" 1502M x 3" 1502F	7"		Std Temp	Standard	3L11582
2" 1502M x 3" 1502F	7"		Low Temp	Standard	3A20090
2" 1502M x 3" 1502F	7"		Std Temp	Standard (Viton)	3L13416
2" 1502M x 3" 1502M	7"		Low Temp	Standard	3A20088
2" 1502M x 3" 1502M	7"		Std Temp	Standard	3L11572
2" 1502M x 3" 602F	7"		Std Temp	Standard	3A22250
2" 1502M x 4" 1002F	7"		Std Temp	Standard	3L11588
2" 1502M x 4" 1002M	7"		Std Temp	Standard	3A24884
2" 1502M x 4" 1502F	7"		Std Temp	Standard	2A28858
2" 15K SI x 2" 1502F	5"		Std Temp	Standard	2A27798
2" 15K SI x 2" 1502M	6"		Std Temp	Standard	2A26880
2" 15K SI x 2" 1502M	6"		Std Temp	Standard	2A27797
2" 15K SI x 3" 1502F	5"		Std Temp	Standard	2A27799
2" 2002M x 2" 1502F	7"		Low Temp	Standard	3A21065
3" 1502F x 3" 1502F	7"		Std Temp	Standard	3P10109

3" 1502F x 3" 1502F	18.5"		Low Temp	Standard	2A29672
3" 1502M x 2" 1502F	5.62"		Std Temp	Standard	3L11580
3" 1502M x 2" 1502F	5.62"		Low Temp	Standard	3A20089
3" 1502M x 3" 1502F	7"		Std Temp	Standard	3L11583
3" 1502M x 3" 1502F	7"		Std Temp	Standard (Viton)	3L11583V
3" 1502M x 3" 1502F	8.27"		Std Temp	Standard	2A108286
3" 1502M x 3" 1502F	11"		Low Temp	Standard (Viton)	2A29289
3" 1502M x 3" 1502F	12"		Std Temp	Standard	2A24351
3" 1502M x 3" 1502F	14.44"		Low Temp	Standard (Viton)	2A29293
3" 1502M x 3" 1502F	14.87"		Low Temp	Standard	2A111936
3" 1502M x 3" 1502F	14.87"		Std Temp	Standard	2A28684
3" 1502M x 3" 1502F	14.87"		Low Temp	Standard	2A29041
3" 1502M x 3" 1502F	15.5"		Low Temp	Standard	2A33312
3" 1502M x 3" 1502F	16"		Std Temp	Standard	2A27056
3" 1502M x 3" 1502F	17"		Low Temp	Standard (Viton)	2A29295
3" 1502M x 3" 1502F	18"	4.5" OD	Std Temp	Standard	3A22436
3" 1502M x 3" 1502F	21"	4.5" OD	Std Temp	Standard	2A25469
3" 1502M x 3" 1502M	7"		Std Temp	Standard	3L11574
3" 1502M x 3" 1502M	7"		Low Temp	Standard	3A20576
3" 1502M x 3" 1502M	12"		Std Temp	Standard	3A22406
3" 1502M x 3" 1502M	15"		Std Temp	Standard	2A27514
3" 1502M x 3" 602F	7"		Std Temp	Standard	3A21282
3" 1502M x 4" 1002M	7"		Std Temp	Standard	3A22124
3" 1502M x 4" 1502F	7"		Low Temp	Standard	2A28957
3" 1502M x 4" 1502F	7"		Std Temp	Standard	3L12546
3" 1502M x 4" 1502F	7"		Std Temp	Standard	2A28735
3" 1502M x 4" 1502M	8"		Std Temp	Standard	3A20632
3" 15K SI x 2" 1502F	5"		Low Temp	Standard	2A27785
3" 15K SI x 2" 1502M	6"		Low Temp	Standard	2A27788
3" 15K SI x 3" 1502F	5"		Std Temp	Standard	2A27900
3" 15K SI x 3" 1502F	5"		Low Temp	Standard	2A27901LT
3" 15K SI x 3" 1502F	8.25"	1" ID Choke	Low Temp	Standard	2A29844
3" 15K SI x 3" 1502F	8.25"	1.19" ID Choke	Low Temp	Standard	2A29845
3" 15K SI x 3" 1502F	8.25"	1.38" ID Choke	Low Temp	Standard	2A29846
3" 15K SI x 3" 1502M	6"		Std Temp	Standard	2A27902
3" 15K SI x 3" 1502M	6"		Low Temp	Standard	2A27903LT
3" 15K SI x 3" 1502M	11"		Low Temp	Standard	2A29333
3" 15K SI x 3" 1502M	12"		Low Temp	Standard	2A32853
3" 15K SI x 3" 15K SI	7.25"		Low Temp	Standard	2A30274
3" 15K SI x 3" 15K SI	10.91"		Low Temp	Standard	2A30344
3" 15K SI x 3" 15K SI	11.13"		Low Temp	Standard	2A29467
3" 15K SI x 3" 15K SI	13.63"		Low Temp	Standard	2A29422
3" 15K SI x 3" 15K SI	13.63"		Std Temp	Standard	2A30511
3" 15K SI x 3" 15K SI	14.25"		Low Temp	Standard	2A30414
3" 15K SI x 3" 15K SI	14.72"		Low Temp	Standard	2A30416
3" 15K SI x 3" 15K SI	16.54"		Std Temp	Standard	2A32433
3" 15K SI x 3" 15K SI	16"	2.5" Bore	Low Temp	Standard	2A29130
3" 15K SI x 3" 15K SI	14.77"	2.5" ID	Low Temp	Standard	2A28814
3" 15K SI x 3" 15K SI	14.77"	2.5" ID	Std Temp	Standard	2A28850
3" 15K SI x 3" 15K SI	15.63"	2.5" ID	Std Temp	Standard	2A28639
3" 15K SI x 3" 15K SI	8"	2.5" ID	Low Temp	Standard	2A29680
3" 15K SI x 3" 15K SI	8.51"	2.75" ID	Low Temp	Standard	2A29301
3" 15K SI x 3" 15K SI	6.5"	3" ID	Std Temp	Standard	2A28725
3" 15K SI x 3" 15K SI	10.16"	Adjustable	Low Temp	Standard	2A28751
3" 15K SI x 3" 15K SI	14.75"	Adjustable	Low Temp	Standard	2A26719

3" 15K SI x 3" 15K SI	21"	Adjustable	Low Temp	Standard	2A33093
3" 15K SI x 4" 10K SI	5"		Low Temp	Standard	2A27792
3" 602M x 2" 1502F	5.63"		Std Temp	Standard	3L13573
3" 602M x 3" 602F	7"		Std Temp	Standard	3A22251
3" 602M x 4" 602F	7"		Std Temp	Standard	3A22253
4" 1002F x 3" 1502M	7"		Std Temp	Standard	3L11589
4" 1002F x 4" 1002F	7"		Std Temp	Standard	2P21017
4" 1002F x 4" 1502F	7"		Std Temp	Standard	2P27474
4" 1002M x 2" 1502F	7"		Std Temp	Standard	3A19457
4" 1002M x 3" 1502F	7"		Std Temp	Standard	3A20832
4" 1002M x 3" 1502F	7"		Std Temp	Standard	3A20498
4" 1002M x 4" 1002F	7"		Std Temp	Standard	3A20157
4" 1002M x 4" 1002F	19.69"		Std Temp	Standard	2A28856
4" 1002M x 4" 1002M	7"		Std Temp	Standard	3A19581
4" 1002M x 4" 1502F	8.13"		Std Temp	Standard	3A20443
4" 10K SI x 2" 1502F	3.75"		Low Temp	Standard	2A27790
4" 10K SI x 2" 1502F	6"		Low Temp	Standard	2A28158
4" 10K SI x 2" 1502M	7"		Std Temp	Standard	2A27795
4" 10K SI x 2" 1502M	7"		Low Temp	Standard	2A27791
4" 10K SI x 3" 1502F	5"		Low Temp	Standard	2A27786
4" 10K SI x 4" 1002F	5"		Std Temp	Standard	2A27977
4" 10K SI x 4" 1002F	20"		Low Temp	Standard	2A29189
4" 10K SI x 4" 1002M	7.25"		Std Temp	Standard	2A27979
4" 10K SI x 4" 1002M	7.25"		Low Temp	Standard	2A27980LT
4" 10K SI x 4" 1502M	7.75"		Std Temp	Standard	2A27794
4" 1502F x 3" 1502F	7"		Std Temp	Standard	2P25864
4" 1502F x 4" 1502F	7"		Low Temp	Standard	2A33139
4" 1502F x 4" 1502F	7"		Std Temp	Standard	2P26750
4" 1502M x 2" 1502F	7"		Std Temp	Standard	2A25235
4" 1502M x 4" 1002F	7"		Std Temp	Standard	3A19583
4" 1502M x 4" 1002F	8.13"		Std Temp	Standard	3A20445
4" 1502M x 4" 1002M	8"		Std Temp	Standard	2A22470
4" 1502M x 4" 1502F	7.5"		Low Temp	Standard	2A28702
4" 1502M x 4" 1502F	12"		Std Temp	Standard	2A30625
4" 1502M x 4" 1502F	16"		Low Temp	Standard	2A28861
4" 15K SI x 3" 1502F	6"		Low Temp	Standard	2A28138
4" 15K SI x 3" 1502F	6"		Low Temp	Standard	2A28156
4" 15K SI x 3" 1502M	8.5"		Low Temp	Standard	2A28136
4" 15K SI x 3" 15K SI	7"		Low Temp	Standard	2A27789
4" 15K SI x 4" 1002F	6"		Low Temp	Standard	2A28157
4" 15K SI x 4" 1002M	9.25"		Low Temp	Standard	2A28159
4" 15K SI x 4" 10K SI	7"		Low Temp	Standard	2A29687
4" 15K SI x 4" 1502M	8.5"		Low Temp	Standard	2A28139
4" 15K SI x 4" 15K SI	12"		Low Temp	Standard	2A28330
4" 15K SI x 4" 15K SI	14"		Low Temp	Standard	2A28165
4" 15K SI x 4" 15K SI	21"		Low Temp	Standard	2A30369
4" 15K SI x 4" 15K SI	15.75"	6.5" OD	Low Temp	Standard	2A28665

*Note: Other parts or configurations may be available. Contact SPM.

Short Crossovers (Under 24") - H2S Service

<u>Outlet/Branch Configuration</u>	<u>Length</u>	<u>Other</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
2" 1502F x 2" 1502F	7"		Low Temp	H2S	3P18499
2" 1502F x 3" 1502F	7"		Low Temp	H2S	3P19736
2" 1502M x 2" 1502F	5"		Low Temp	H2S	2A26273
2" 1502M x 2" 1502F	7"		Low Temp	H2S	3A19476

2" 1502M x 2" 1502F	10.03"		Low Temp	H2S	3A25059
2" 1502M x 2" 1502F	12"		Low Temp	H2S	3A20962
2" 1502M x 2" 1502M	7"		Low Temp	H2S	3A18501
2" 1502M x 2" 2202F	7"		Low Temp	H2S	3A19154
2" 1502M x 3" 1502F	7"		Low Temp	H2S	3A20095
2" 1502M x 3" 1502M	7"		Low Temp	H2S	3A20092
2" 2202M x 2" 1502F	7"		Low Temp	H2S	3A21037
2" 2202M x 3" 2202F	9"	1.78" ID	Low Temp	H2S	2A27174
3" 1502F x 3" 1502F	7"		Low Temp	H2S	3P19741
3" 1502M x 2" 1502F	5.62"		Low Temp	H2S	3A20093
3" 1502M x 3" 1502F	7"		Low Temp	H2S	3A21058
3" 1502M x 3" 1502M	7"		Low Temp	H2S	3A20091

*Note: Other parts or configurations may be available. Contact SPM.

Long Crossovers (Over 24") - Standard Service

<u>Outlet/Branch Configuration</u>	<u>Length</u>	<u>Other</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
2" 1502M x 2" 1502F	24"		Std Temp	Standard	3A20482
2" 1502M x 2" 1502F	24"		Low Temp	Standard	3A23824
2" 1502M x 2" 1502F	36"		Low Temp	Standard	3A23376
2" 1502M x 2" 1502F	38"		Std Temp	Standard	2A24948
2" 1502M x 2" 1502F	49.75"		Low Temp	Standard	2A29968
3" 1502F x 3" 1502F	34"		Low Temp	Standard	2A30125
3" 1502F x 3" 1502F	36"		Low Temp	Standard	2A29618
3" 1502F x 3" 1502F	42"		Std Temp	Standard	2A29465
3" 1502M x 3" 1502F	24"		Low Temp	Standard	2A29010
3" 1502M x 3" 1502F	24"		Std Temp	Standard	3A23472
3" 1502M x 3" 1502F	31.06"		Low Temp	Standard (Viton)	2A29291
3" 1502M x 3" 1502F	36"		Std Temp	Standard	2A25597
3" 1502M x 3" 1502F	36"		Low Temp	Standard	2A29011
3" 1502M x 3" 1502F	37.38"		Low Temp	Standard	2A29439
3" 1502M x 3" 1502F	38.63"		Std Temp	Standard	2A26384
3" 1502M x 3" 1502F	39"		Low Temp	Standard	2A29305
3" 1502M x 3" 1502F	40.88"		Low Temp	Standard	2A30582
3" 1502M x 3" 1502F	42"		Low Temp	Standard	2A30026
3" 1502M x 3" 1502F	43.41"		Std Temp	Standard	2A28542
3" 1502M x 3" 1502F	48"		Low Temp	Standard	2A34098
3" 1502M x 3" 1502F	51.88"		Low Temp	Standard	2A29484
3" 1502M x 3" 1502F	61.06"		Low Temp	Standard	2A29766
3" 1502M x 3" 1502F	62"		Low Temp	Standard	2A30583
3" 1502M x 3" 1502F	62"		Std Temp	Standard	2A28280
3" 1502M x 3" 1502F	64.25"		Std Temp	Standard	2A26385
3" 1502M x 3" 1502F	65"		Low Temp	Standard	2A33272
3" 1502M x 3" 1502F	65.14"		Std Temp	Standard	2A28805
3" 1502M x 3" 1502F	65.25"		Std Temp	Standard	2A27057
3" 1502M x 3" 1502F	65.25"		Low Temp	Standard	2A30584
3" 1502M x 3" 1502F	73.875"		Std Temp	Standard	2A30095
3" 1502M x 3" 1502F	74.33"		Std Temp	Standard	2A28738
3" 1502M x 3" 1502F	82.25"		Low Temp	Standard	2A28582
3" 1502M x 3" 1502F	24"	4.5" OD	Std Temp	Standard	3A23861
3" 15K SI x 3" 1502F	25"		Low Temp	Standard	2A30615
3" 15K SI x 3" 1502M	30"		Std Temp	Standard	2A30493
3" 15K SI x 3" 15K SI	24"		Low Temp	Standard	2A33092
3" 15K SI x 3" 15K SI	27.9"		Low Temp	Standard	2A33604
3" 15K SI x 3" 15K SI	30.15"		Low Temp	Standard	2A32432
3" 15K SI x 3" 15K SI	31.25"		Low Temp	Standard	2A28995
3" 15K SI x 3" 15K SI	37.11"		Low Temp	Standard	2A29505
3" 15K SI x 3" 15K SI	58.4"		Low Temp	Standard	2A29503
3" 15K SI x 3" 15K SI	73.25"		Low Temp	Standard	2A29437

3A23824

3" 15K SI x 3" 15K SI	75.88"		Low Temp	Standard	2A30418
3" 15K SI x 3" 15K SI	85.22"		Low Temp	Standard	2A30420
3" 15K SI x 3" 15K SI	48"	2.5" ID	Low Temp	Standard	2A29676
3" 15K SI x 3" 15K SI	54.68"	2.5" ID	Low Temp	Standard	2A28769LT
3" 15K SI x 3" 15K SI	48"	2.75" ID	Low Temp	Standard	2A29352
3" 15K SI x 3" 15K SI	54.56"	2.75" ID	Std Temp	Standard	2A29335
3" 15K SI x 3" 15K SI	120.44"	3" ID	Std Temp	Standard	2A28727
3" 15K SI x 3" 15K SI	36"	3" ID	Low Temp	Standard	2A32999
3" 15K SI x 3" 15K SI	97.25"	3" ID	Std Temp	Standard	2A28726
4" 1002M x 4" 1002F	24"		Std Temp	Standard	3A22497
4" 10K SI x 4" 1002F	32"		Low Temp	Standard	2A29091
4" 10K SI x 4" 10K SI	32"		Low Temp	Standard	2A28993
4" 1502M x 4" 1502F	120"		Low Temp	Standard	2A28706
4" 1502M x 4" 1502F	144"		Low Temp	Standard	2A28969
4" 1502M x 4" 1502F	24"		Low Temp	Standard	2A28375
4" 1502M x 4" 1502F	30"		Low Temp	Standard	2A29132
4" 1502M x 4" 1502F	36"		Low Temp	Standard	2A28704
4" 1502M x 4" 1502F	48"		Low Temp	Standard	2A28705
4" 1502M x 4" 1502F	60"		Low Temp	Standard	2A28709
4" 1502M x 4" 1502F	72"		Low Temp	Standard	2A28630
4" 1502M x 4" 1502F	84"		Std Temp	Standard	2A30623
4" 1502M x 4" 1502F	96"		Low Temp	Standard	2A29028
4" 15K SI x 4" 1502F	48"		Low Temp	Standard	2A29904
4" 15K SI x 4" 1502M	72"		Low Temp	Standard	2A28824
4" 15K SI x 4" 15K SI	102"		Low Temp	Standard	2A28901
4" 15K SI x 4" 15K SI	108"		Low Temp	Standard	2A28690
4" 15K SI x 4" 15K SI	111"		Low Temp	Standard	2A29298
4" 15K SI x 4" 15K SI	114"		Low Temp	Standard	2A29180
4" 15K SI x 4" 15K SI	120"		Low Temp	Standard	2A28902
4" 15K SI x 4" 15K SI	132"		Low Temp	Standard	2A29463
4" 15K SI x 4" 15K SI	24"		Low Temp	Standard	2A28167
4" 15K SI x 4" 15K SI	240"		Low Temp	Standard	2A30286
4" 15K SI x 4" 15K SI	26.8"		Low Temp	Standard	2A33168
4" 15K SI x 4" 15K SI	33"		Low Temp	Standard	2A30371
4" 15K SI x 4" 15K SI	36.5"		Low Temp	Standard	2A29003
4" 15K SI x 4" 15K SI	42"		Low Temp	Standard	2A30373
4" 15K SI x 4" 15K SI	48"		Low Temp	Standard	2A28831
4" 15K SI x 4" 15K SI	50.5"		Low Temp	Standard	2A33166
4" 15K SI x 4" 15K SI	60"		Low Temp	Standard	2A28873
4" 15K SI x 4" 15K SI	60.25"		Low Temp	Standard	2A29005
4" 15K SI x 4" 15K SI	66"		Low Temp	Standard	2A33170
4" 15K SI x 4" 15K SI	72"		Low Temp	Standard	2A28689
4" 15K SI x 4" 15K SI	74.25"		Low Temp	Standard	2A29730
4" 15K SI x 4" 15K SI	84"		Low Temp	Standard	2A28961
4" 15K SI x 4" 15K SI	88"		Low Temp	Standard	2A28985
4" 15K SI x 4" 15K SI	90"		Low Temp	Standard	2A29176
4" 15K SI x 4" 15K SI	96"		Low Temp	Standard	2A28900
4" 15K SI x 4" 15K SI	72.75"	6.5" OD	Low Temp	Standard	2A28666

*Note: Other parts or configurations may be available. Contact SPM.

Long Crossovers (Over 24") - H2S Service

<u>Outlet/Branch Configuration</u>	<u>Length</u>	<u>Other</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
2" 1502M x 2" 1502F	24"		Low Temp	H2S	3A22938
2" 1502M x 2" 1502F	36"		Low Temp	H2S	2A29967

**Note: Other parts or configurations may be available. Contact SPM.*

Laterals



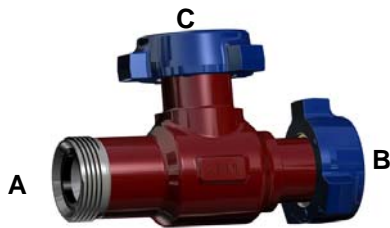
A Note: The outlet configuration as described below corresponds with the branch labels in this illustration.

45 Degree Laterals

<u>Outlet/Branch Configuration (A x B x C)</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard		3L11611
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	FC-140 Choke Cavity	2A11764
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	H2S		3A18498
2" 1502M x 2" 1502F x 2" 1502F	Low Temp	Standard		3L14032
2" 1502M x 2" 1502F x 2" 1502F	Low Temp	Standard	Rock Trap	2A13712
2" 1502M x 2" 1502F x 2" 1502F	Low Temp	H2S		2A21090
2" 1502M x 2" 1502F x 2" 1502F	Low Temp	Standard	Rock Trap	2A28531
2" 1502M x 2" 1502F x 2" 1502M	Low Temp	Standard		3A22184
3" 1502F x 3" 1502M x 2" 1502F	Low Temp	Standard	N2 Choke Cavity	3A21008
3" 1502F x 3" 1502M x 2" 1502F	Low Temp	Standard		3L11616
3" 1502F x 3" 1502M x 3" 1502F	Low Temp	Standard		3L11613
3" 1502F x 4" 1002M x 3" 1502F	Low Temp	Standard		3A20513
3" 1502M x 3" 1502F x 3" 1502F	Low Temp	Standard		3A20010
3" 1502M x 3" 1502F x 3" 1502M	Low Temp	Standard		3A16949
3" 1502M x 3" 1502F x 3" 1502F	Low Temp	Standard		3A24880
3" 1502M x 4" 1002F x 3" 1502M	Low Temp	Standard	Reduced Bore	2A29056
3" 1502M x 4" 1502F x 3" 1502M	Low Temp	Standard		2A28729
3" 15K SI x 3" 15K SI x 3" 15K SI	Low Temp	Standard		2A27834
4" 1002F x 4" 1002M x 3" 1502F	Low Temp	Standard		3A21270
4" 1002F x 4" 1002M x 4" 1002F	Low Temp	Standard		3L12998
4" 1002F x 4" 1002M x 4" 1002F	Low Temp	Standard		2A29143
4" 1002M x 4" 1002F x 4" 1002F	Low Temp	Standard		3L14670
4" 1002M x 4" 1002F x 4" 1002M	Low Temp	Standard		2A26157
4" 10K SI x 4" 10K SI x 3" 1502F	Low Temp	Standard		2A27831
4" 10K SI x 4" 10K SI x 3" 15K SI	Low Temp	Standard		2A27832
4" 1502F x 4" 1502M x 3" 1502F	Low Temp	Standard		2A26756
4" 1502F x 4" 1502M x 4" 1502F	Low Temp	Standard		2A21296
4" 1502F x 4" 1502M x 4" 15K SI	Low Temp	Standard		2A29444
4" 1502M x 4" 1502F x 3" 1502F	Low Temp	Standard		2A26759
4" 1502M x 4" 1502F x 3" 1502M	Low Temp	Standard		2A26754
4" 1502M x 4" 1502F x 4" 1502M	Low Temp	Standard		2A28733
4" 15K SI x 3" 1502M x 3" 1502M	Low Temp	Standard		2A28316
4" 15K SI x 4" 1502F x 3" 1502F	Low Temp	Standard		2A28663
4" 15K SI x 4" 15K SI x 3" 1502F	Low Temp	Standard	2.75" ID	2A29848
4" 15K SI x 4" 15K SI x 3" 15K SI	Low Temp	Standard		2A28162
4" 15K SI x 4" 15K SI x 3" 15K SI	Low Temp	Standard		2A29419
4" 15K SI x 4" 15K SI x 4" 15K SI	Low Temp	Standard		2A28635

*Note: Other parts or configurations may be available. Contact SPM.

Tees



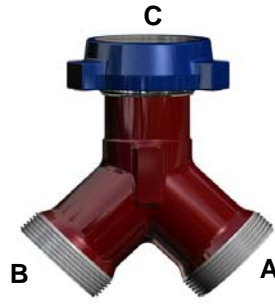
Note: The outlet configuration as described below corresponds with the branch labels in this illustration.

<u>Outlet/Branch Configuration (A x B x C)</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
2" 1502F x 2" 1502F x 2" 1502F	Low Temp	Standard		2A13794
2" 1502F x 2" 1502F x 2" 1502F	Low Temp	H2S		2P16900
2" 1502F x 2" 1502F x 2" 1502M	Low Temp	Standard		3L13150
2" 1502F x 2" 1502F x 2" 1502M	Low Temp	H2S		2A16897
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	H2S		2A16768
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard		3L11592
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard (Viton)		3L13302
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	Choke - Non Ported	2A26278
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	H2S	Choke - Non Ported	2A26283
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	Choke - AE F-562-C Port (L)	2A26280
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	Choke - AE F-562-C Port (R)	2A26281
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	H2S	Choke - AE F-562-C Port (L)	2A26285
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	H2S	Choke - AE F-562-C Port (R)	2A26286
2" 1502F x 2" 1502M x 2" 1502M	Low Temp	Standard		3L13230
2" 1502F x 2" 1502M x 2" 1502M	Low Temp	Standard (Viton)		3L14509
2" 1502F x 2" 1502M x 2" 1502M	Low Temp	H2S		2A16770
2" 1502F x 2" 1502M x 4" 1002F	Low Temp	Standard		3A22198
2" 1502F x 3" 1502F x 3" 1502M	Low Temp	Standard		2A28803
2" 1502F x 3" 1502M x 2" 1502F	Low Temp	Standard		3A22199
2" 1502F x 2" 1502M x 2" 1502F x 2" 1502F Gauge	Low Temp	Standard	Gauge Tee	2A25993
2" 1502F x 2" 1502M x 2" 1502F x 2" 1502F Gauge	Low Temp	Standard	Gauge Tee	2A13402
2" 1502F x 2" 1502M x 2" 1502F x 2" 1502F Gauge	Low Temp	Standard (Viton)	Gauge Tee	2A13402V
2" 1502M x 2" 1502M x 2" 1502F	Low Temp	Standard		3L13229
2" 1502M x 2" 1502M x 2" 1502F	Low Temp	H2S		2A16769
2" 1502M x 2" 1502M x 2" 1502M	Low Temp	H2S		3L11598
2" 1502M x 2" 1502F x 2" 1502M x 2" 1502F Gauge	Low Temp	Standard	Gauge Tee	2A25992
2" 1502M x 2" 1502F x 2" 1502F x 2" 1502F Gauge	Low Temp	Standard (Viton)	Gauge Tee	2A20150V
2" 15K SI x 2" 15K SI x 2" 15K SI	Low Temp	Standard		2A27813
2" 2202F x 2" 2202F x 2" 2202M	Low Temp	H2S		3A22204
2" 2202F x 2" 2202M x 2" 2202F	Low Temp	H2S		3A22205
3" 1502F x 2" 1502M x 2" 1502M	Low Temp	Standard		3A22189
3" 1502F x 3" 1502F x 3" 1502F	Low Temp	Standard		3L16472
3" 1502F x 3" 1502F x 3" 1502M	Low Temp	Standard		3L13151
3" 1502F x 3" 1502M x 2" 1502F	Low Temp	Standard		3L11593
3" 1502F x 3" 1502M x 2" 1502M	Low Temp	Standard		3A23126
3" 1502F x 3" 1502M x 2" 1502M	Low Temp	H2S		3A22335
3" 1502F x 3" 1502M x 3" 1502F	Low Temp	Standard		3L11594
3" 1502F x 3" 1502M x 3" 1502F	Low Temp	Standard (Viton)		3L13300
3" 1502F x 3" 1502M x 3" 1502F	Low Temp	H2S		2A18096
3" 1502F x 3" 1502M x 3" 1502M	Low Temp	Standard		3L19916
3" 1502F x 3" 1502M x 3" 1502M	Low Temp	Standard (Viton)		3L19916V
3" 1502F x 3" 1502M x 3" 1502M	Low Temp	H2S		3L16702
3" 1502F x 2" 1502M x 3" 1502F x 2" 1502F Gauge	Low Temp	Standard	Gauge Tee	2A14458
3" 1502F x 3" 1502M x 2" 1502F x 2" 1502F Gauge	Low Temp	Standard	Gauge Tee	2A24985
3" 1502F x 3" 1502M x 3" 1502F x 2" 1502F	Low Temp	Standard		2A29288
3" 1502M x 2" 1502F x 3" 1502F	Low Temp	Standard		3A22188
3" 1502M x 3" 1502M x 2" 1502F	Low Temp	Standard		3A24879
3" 1502M x 3" 1502M x 3" 1502F	Low Temp	Standard		2A25417
3" 1502M x 3" 1502M x 3" 1502M	Low Temp	Standard		3L11599
3" 1502M x 3" 1502M x 3" 1502M	Low Temp	H2S		3L16704
3" 1502M x 3" 1502F x 3" 1502M x 2" 1502F Gauge	Low Temp	Standard	Gauge Tee	2A29204
3" 15K SI x 3" 15K SI x 2" 1502F	Low Temp	Standard		2A27997
3" 15K SI x 3" 15K SI x 2" 1502F	Low Temp	Standard	3" ID	2A29717
3" 15K SI x 3" 15K SI x 3" 1502F	Low Temp	Standard		2A27998
3" 15K SI x 3" 15K SI x 3" 1502F	Low Temp	Standard		2A28745
3" 15K SI x 3" 15K SI x 3" 15K SI	Low Temp	Standard		2A27809

3" 15K SI x 3" 15K SI x 3" 15K SI	Low Temp	Standard	2.75" ID	2A29339
3" 15K SI x 3" 15K SI x 3" 15K SI	Low Temp	Standard	3" ID	2A29714
3" 15K SI x 4" 15K SI x 4" 15K SI	Low Temp	Standard		2A29164
4" 1002F x 4" 1002F x 4" 1002M	Low Temp	Standard		2A28894
4" 1002F x 4" 1002M x 2" 1502F	Low Temp	Standard	3.88" ID	2A27060
4" 1002F x 4" 1002M x 2" 1502F	Low Temp	Standard	4" ID	2A29147
4" 1002F x 4" 1002M x 2" 1502M	Low Temp	Standard		2A29491
4" 1002F x 4" 1002M x 3" 1502F	Low Temp	Standard		3L12827
4" 1002F x 4" 1002M x 4" 1002F	Low Temp	Standard		3L12826
4" 1002F x 4" 1002M x 4" 1002M	Low Temp	Standard		2A28544
4" 1002M x 4" 1002F x 2" 1502F	Low Temp	Standard		3A19580
4" 1002M x 4" 1002F x 3" 15K SI	Low Temp	Standard		2A28964
4" 10K SI x 4" 10K SI x 2" 1502F	Low Temp	Standard		2A28001
4" 10K SI x 4" 10K SI x 2" 15K SI	Low Temp	Standard		2A27816
4" 10K SI x 4" 10K SI x 3" 1502F	Low Temp	Standard		2A28002
4" 10K SI x 4" 10K SI x 4" 10K SI	Low Temp	Standard		2A27810
4" 1502F x 4" 1502F x 4" 1502M	Low Temp	Standard		2A25855
4" 1502F x 4" 1502M x 2" 1502F	Low Temp	Standard		2A26065
4" 1502F x 4" 1502M x 2" 1502M	Low Temp	Standard		2A26467
4" 1502F x 4" 1502M x 3" 1502F	Low Temp	Standard		2A25853
4" 1502F x 4" 1502M x 3" 1502F	Low Temp	Standard (Viton)		2A25853V
4" 1502F x 4" 1502M x 3" 15K SI	Low Temp	Standard		2A28481
4" 1502F x 4" 1502M x 4" 1502F	Low Temp	Standard		2A25990
4" 1502F x 4" 1502M x 4" 1502M	Low Temp	Standard		2A24928
4" 1502M x 4" 1502F x 3" 1502M	Low Temp	Standard		2A27345
4" 1502M x 4" 1502M x 4" 1502F	Low Temp	Standard		2A29970
4" 15K SI x 4" 15K SI x 2" 15K SI	Low Temp	Standard		2A29366
4" 15K SI x 4" 15K SI x 3" 1502F	Low Temp	Standard		2A28004
4" 15K SI x 4" 15K SI x 3" 1502M	Low Temp	Standard		2A28667
4" 15K SI x 4" 15K SI x 3" 15K SI	Low Temp	Standard		2A27811
4" 15K SI x 4" 15K SI x 3" 15K SI	Low Temp	Standard	3" ID	2A29415
4" 15K SI x 4" 15K SI x 4" 15K SI	Low Temp	Standard		2A28140

*Note: Other parts or configurations may be available. Contact SPM.

Wyes

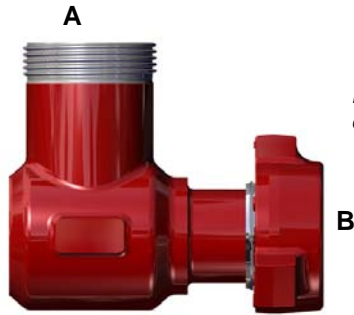


Note: The outlet configuration as described below corresponds with the brach labels in this illustration.

Outlet/Branch Configuration (A x B x C)	Temperature	Service Type	Part Number
2" 1502F x 2" 1502F x 2" 1502M	Low Temp	Standard	3L13139
2" 1502F x 2" 1502F x 2" 1502M	Low Temp	H2S	3A20226
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	2A29185
2" 1502F x 2" 1502M x 2" 1502M	Low Temp	Standard	3A22926
2" 1502M x 2" 1502M x 2" 1502F	Low Temp	Standard	3L13143
2" 1502M x 2" 1502M x 2" 1502F	Low Temp	H2S	3A21102
3" 1502F x 3" 1502F x 3" 1502M	Low Temp	Standard	2L14419
3" 1502F x 3" 1502F x 3" 1502M	Low Temp	Standard	2L14419V
3" 1502F x 3" 1502F x 3" 1502M	Low Temp	H2S	3A21104
3" 1502M x 2" 1502F x 2" 1502F	Low Temp	Standard	2A25558
3" 1502M x 3" 1502M x 3" 1502F	Low Temp	Standard	3L13144
4" 1002F x 4" 1002F x 4" 1002M	Low Temp	Standard	3L13141
4" 1002M x 4" 1002F x 4" 1002F	Low Temp	Standard	2A29145
4" 1002M x 4" 1002M x 4" 1002F	Low Temp	Standard	3L13146
4" 1502M x 4" 1502M x 4" 1502F	Low Temp	Standard	2A25857

**Note: Other parts or configurations may be available. Contact SPM.*

Ells

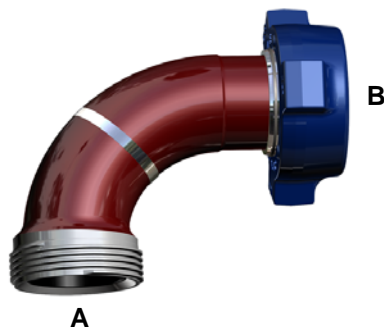


Note: The outlet configuration as described below corresponds with the brach labels in this illustration.

Ells

<u>Outlet/Branch Configuration (A x B)</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Type</u>	<u>Part Number</u>
2" 1502F x 2" 1502M	Low Temp	Standard	Standard	3L13234
2" 1502F x 2" 1502M	Low Temp	H2S	Standard	3A20075
2" 1502F x 2" 1502M	Low Temp	Standard	Target	2A25338
2" 1502F x 2" 1502M	Low Temp	H2S	Target	2A25339
2" 1502F x 2" 1502M	Low Temp	Standard	Cushion	2A25522
2" 1502F x 2" 1502M	Low Temp	Standard (Viton)	Cushion	2A26314
2" 1502F x 2" 1502M	Low Temp	H2S	Cushion	2A26659
2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	Gauge	3L14451
2" 1502M x 2" 1502F	Low Temp	Standard	45 Degree	3A20075
2" 1502M x 2" 1502F	Low Temp	Standard	45 Degree	3A20075
2" 1502M x 2" 1502M	Low Temp	Standard	Standard	3L14476
2" 1502M x 2" 1502M	Low Temp	H2S	Standard	2A21069
2" 15K SI x 2" 15K SI	Low Temp	Standard	Standard	2A27837
3" 1502F x 3" 1502M	Low Temp	Standard	Standard	3L14591
3" 1502F x 3" 1502M	Low Temp	Standard	Target	2A26012
3" 1502M x 3" 1502F	Low Temp	Standard	45 Degree	1A24627
3" 1502M x 3" 1502F	Low Temp	H2S	Standard	2A19202
3" 1502M x 3" 1502F	Low Temp	Standard	Target	2A26013
3" 1502M x 3" 1502M	Low Temp	Standard	Standard	3L14996
3" 15K SI x 2" 15K SI	Low Temp	Standard	Standard	2A28724
3" 15K SI x 3" 15K SI	Low Temp	Standard	Standard	2A27838
3" 15K SI x 3" 15K SI	Low Temp	Standard	45 Degree	2A28750
4" 1002F x 4" 1002M	Low Temp	Standard	Standard	3L14430
4" 1502F x 4" 1502M	Low Temp	Standard	Standard	2A27100
4" 15K SI x 4" 15K SI	Low Temp	Standard	Standard	2A28155

*Note: Other parts or configurations may be available. Contact SPM.

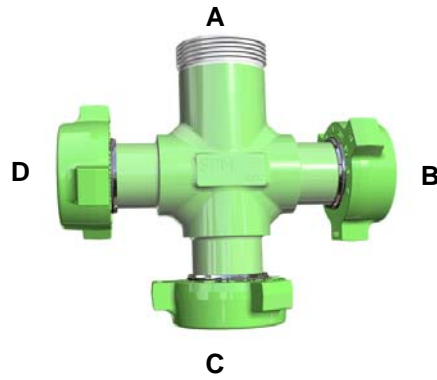


Long Radius Ells

<u>Outlet/Branch Configuration (A x B)</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
2" 1502F x 2" 1502M	Low Temp	Standard	3A20534
2" 1502F x 2" 1502M	Low Temp	H2S	3A20535

*Note: Other parts or configurations may be available. Contact SPM.

Crosses



Standard Crosses

<u>Outlet/Branch Configuration (A x B x C x D)</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
2" 1502F x 2" 1502F x 2" 1502F x 2" 1502F	Low Temp	Standard	2P10775
2" 1502F x 2" 1502F x 2" 1502M x 2" 1502F	Low Temp	Standard	3L11607
2" 1502F x 2" 1502F x 2" 1502M x 2" 1502F	Low Temp	H2S	3A20544
2" 1502F x 2" 1502M x 2" 1502M x 2" 1502F	Low Temp	Standard	3L11603
2" 1502F x 2" 1502M x 2" 1502M x 2" 1502M	Low Temp	Standard	1A19904
2" 1502F x 2" 1502M x 2" 1502M x 2" 1502M	Low Temp	H2S	2A21081
2" 1502M x 2" 1502M x 2" 1502M x 2" 1502M	Low Temp	Standard	2A22907
3" 1502F x 2" 1502F x 3" 1502M x 2" 1502F	Low Temp	Standard	3A19910
3" 1502F x 2" 1502M x 3" 1502M x 2" 1502F	Low Temp	Standard	3A22178
3" 1502F x 3" 1502F x 3" 1502F x 3" 1502F	Low Temp	Standard	2P25055
3" 1502F x 3" 1502F x 3" 1502M x 3" 1502F	Low Temp	Standard	3L11608
3" 1502F x 3" 1502F x 3" 1502M x 3" 1502F	Low Temp	H2S	2A21085
3" 1502F x 3" 1502M x 3" 1502M x 3" 1502F	Low Temp	Standard	3L11605
3" 1502M x 3" 1502M x 3" 1502M x 3" 1502M	Low Temp	Standard	3L14320
3" 15K SI x 3" 15K SI x 3" 15K SI x 2" 1502F	Low Temp	Standard	2A29497
4" 1002F x 2" 1502F x 4" 1002M x 2" 1502F	Low Temp	Standard	3A20837
4" 1002F x 3" 1502F x 4" 1002M x 3" 1502F	Low Temp	Standard	3A20835
4" 1002F x 4" 1002F x 4" 1002F x 4" 1002F	Low Temp	Standard	2A26958
4" 1002F x 4" 1002M x 4" 1002M x 4" 1002F	Low Temp	Standard	3A22179
4" 1002M x 4" 1002F x 4" 1002F x 4" 1002F	Low Temp	Standard	3A24047
4" 1002M x 4" 1002F x 4" 1002F x 4" 1002F	Low Temp	Standard	3L12838
4" 15K SI x 4" 15K SI (Short) x 4" 15K SI x 4" 15K SI (Short)	Low Temp	Standard	2P32585

*Note: Other parts or configurations may be available. Contact SPM.

Gauge Crosses

<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
3" 1502F x 2" 1502F x 3" 1502M x 2" 1502F x 2" 1502F	Low Temp	Standard		3A19678
3" 1502F x 3" 1502F x 3" 1502M x 2" 1502F	Low Temp	Standard		3A20012
4" 1002F x 2" 1502F x 4" 1002M x 2" 1502F x 2" 1502F	Low Temp	Standard		3A20583
4" 1002F x 3" 1502F x 4" 1002M x 3" 1502F x 2" 1502F	Low Temp	Standard		2A27283
4" 1002F x 3" 1502F x 4" 1002M x 3" 1502F x 2" 1502F	Low Temp	Standard	3.88" ID	2A27534
4" 1002F x 4" 1002F x 4" 1002M x 4" 1002F x 2" 1502F	Low Temp	Standard		3L14450

*Note: Other parts or configurations may be available. Contact SPM.

Bull Plugs = BLIND**2" Bull Plugs**

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Other</u>	<u>Temperature</u>	<u>Part Number</u>
15K SI	Safety Iron			Std Temp	2A28653
15K SI	Safety Iron		Clamp Not Included	Std Temp	2P26671
Fig 1502	Hammer Union	Male		Low Temp	3A20349
Fig 1502	Hammer Union	Male		Std Temp	3A12737
Fig 1502	Hammer Union	Male	Lifting Assembly	Std Temp	3A22113
Fig 1502	Hammer Union	Male	Wingnut Not Included	Std Temp	3P10141
Fig 1502	Hammer Union	Female		Std Temp	3P10149
Fig 1502	Hammer Union	Female	Lifting Assembly	Std Temp	3A22429
Fig 1502	Hammer Union	Female	Lifting (Bull Plug Only)	Std Temp	3P10511
Fig 1502	Hammer Union	Male		Std Temp	3A20314
Fig 1502	Hammer Union	Male	Wingnut Not Included	Low Temp	3P13261
Fig 206	Hammer Union	Male		Std Temp	2A29736
Fig 206	Hammer Union	Male	Wingnut Not Included	Std Temp	3P13927

*Note: Other parts or configurations may be available. Contact SPM.

3" Bull Plugs

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Other</u>	<u>Temperature</u>	<u>Part Number</u>
15K SI	Safety Iron			Std Temp	2A28654
Fig 1502	Hammer Union	Male		Low Temp	3A20681
Fig 1502	Hammer Union	Male		Std Temp	3A12738
Fig 1502	Hammer Union	Male	Wingnut Not Included	Std Temp	3P10142
Fig 1502	Hammer Union	Male	Lifting Assembly	Std Temp	3A22130
Fig 1502	Hammer Union	Female		Std Temp	3P10151
Fig 1502	Hammer Union	Female	Lifting Assembly	Std Temp	2A27024
Fig 1502	Hammer Union	Female	Lifting (Bull Plug Only)	Std Temp	3P10513
Fig 1502	Hammer Union	Male		Low Temp	3A20316
Fig 206	Hammer Union	Male		Std Temp	2A28193
Fig 206	Hammer Union	Male	Wingnut Not Included	Std Temp	2P25269
Fig 602	Hammer Union	Male		Std Temp	3A21280

*Note: Other parts or configurations may be available. Contact SPM.

4" Bull Plugs

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Other</u>	<u>Temperature</u>	<u>Part Number</u>
10K SI	Safety Iron		Clamp Not Included	Std Temp	2P26663
15K SI	Safety Iron			Low Temp	2A29036
15K SI	Safety Iron		Clamp Not Included	Low Temp	2P29035
15K SI	Safety Iron			Std Temp	2A28636
15K SI	Safety Iron		Clamp Not Included	Std Temp	2P27106
Fig 1002	Hammer Union	Male		Std Temp	3A12742
Fig 1002	Hammer Union	Male	Wingnut Not Included	Std Temp	3P12743
Fig 1002	Hammer Union	Male	Lifting Assembly	Std Temp	3A22120
Fig 1002	Hammer Union	Female		Std Temp	3P10995
Fig 1502	Hammer Union	Male		Low Temp	2A33142
Fig 1502	Hammer Union	Male	Wingnut Not Included	Low Temp	2P33134
Fig 1502	Hammer Union	Male		Std Temp	3A20967
Fig 1502	Hammer Union	Male	Wingnut Not Included	Std Temp	2P16725
Fig 1502	Hammer Union	Female		Std Temp	2P22454
Fig 100	Hammer Union	Male		Std Temp	3A22441
Fig 200/206/207	Hammer Union	Female	Western Pump Style	Std Temp	3P18008
Fig 206	Hammer Union	Male		Std Temp	2A28194
Fig 206	Hammer Union	Male	Wingnut Not Included	Std Temp	3P24161
Fig 206	Hammer Union	Male	Retainer Ring Groove	Std Temp	2A28795

*Note: Other parts or configurations may be available. Contact SPM.

Other Bull Plugs

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Other</u>	<u>Temperature</u>	<u>Part Number</u>
1" Fig 200	Hammer Union	Male	Wingnut Not Included	Std Temp	3P20705
6" Fig 206	Hammer Union	Female		Std Temp	2P19156
8" Fig 206	Hammer Union	Male		Std Temp	2A33004

*Note: Other parts or configurations may be available. Contact SPM.

2" Gauge Plugs  1/2" NPT (HOLE)

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Fig 1502	Hammer Union	Male	Low Temp	Standard	3A21291
Fig 1502	Hammer Union	Male	Std Temp	Standard	3A20058
Fig 1502	Hammer Union	Male (No Wing Nut)	Std Temp	Standard	3P10145
Fig 1502	Hammer Union	Male	Low Temp	H2S	3A21152
Fig 1502	Hammer Union	Male	Std Temp	Standard	3A22077
Fig 1502	Hammer Union	Male	Std Temp	Standard	3A22713
Fig 1502	Hammer Union	Male	Std Temp	Standard	3A24692
Fig 1502	Hammer Union	Female	Std Temp	Standard	3P10519
Fig 1502	Hammer Union	Female	Low Temp	H2S	3P20241

*Note: Other parts or configurations may be available. Contact SPM.

3" Gauge Plugs

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Fig 1502	Hammer Union	Male	Low Temp	Standard	3A21316
Fig 1502	Hammer Union	Male	Std Temp	Standard	3A22214
Fig 1502	Hammer Union	Male	Std Temp	Standard	3A22716
Fig 1502	No Hammer Union	Female	Std Temp	Standard	3P10520
Fig 1502	No Hammer Union	Female	Std Temp	Standard	3P23318

*Note: Other parts or configurations may be available. Contact SPM.

4" Gauge Plugs

<u>Connection Rating</u>	<u>Connection Type</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Fig 1002	Hammer Union	Male	Std Temp	Standard	3A22722

*Note: Other parts or configurations may be available. Contact SPM.

Swages

Swages

<u>Outlet/Branch Configuration</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Other</u>	<u>Part Number</u>
2" 1502 x 2.00 LPTL	Std Temp	Standard	With Flats	2P24925
2" 1502F x 1.5 LPT	Std Temp	Standard		3P13408
2" 1502F x 2.00 LPTL	Std Temp	Standard		3P10286
2" 1502F x 2.00 LPTL	Std Temp	Standard		3P20227
2" 1502F x 2.38 EUE	Std Temp	Standard		3P10288
2" 1502F x 2.38 EUE	Std Temp	Standard	With Flats	2P24926
2" 1502F x 2.88 EUE	Std Temp	Standard		3P10290
2" 1502F x 3.00 LPT	Std Temp	Standard		3P10362
2" 1502F x 3.5 8EUE	Std Temp	Standard		3P11955
2" 1502M x 1.5 LPT	Std Temp	Standard		3A22220
2" 1502M x 2" ~ 11 1/2" V LPT Long	Std Temp	Standard		3L11548
2" 1502M x 2.38 8EUE	Std Temp	Standard		3L11549
2" 1502M x 2.88 8EUE	Std Temp	Standard		3L11550
2" 1502M x 3.5 8EUE	Std Temp	Standard		3A19530
2" 1502M x 4" 8V LPT	Std Temp	Standard		3L11560
3" 1502F x 2 LPTL	Std Temp	Standard	With Flats	2P29694
3" 1502F x 2 LPTL	Std Temp	Standard		3P10292
3" 1502F x 2.38 8RD EUE	Std Temp	Standard		3P10294
3" 1502F x 2.88 8RD EUE	Std Temp	Standard	7" Length With Flats	2P27279
3" 1502F x 2.88 8RD EUE	Std Temp	Standard	7" Length	3P10296
3" 1502F x 3.5 10R	Std Temp	Standard		3P16589
3" 1502F x 3.5 8RD EUE	Std Temp	Standard		3P10032
3" 1502F x 5.5 8SCT	Std Temp	Standard		3P12302
3" 1502M x 2.00 LPT	Std Temp	Standard		3L11551
3" 1502M x 2.00 LPTL	Std Temp	Standard		3P10293
3" 1502M x 2.38 8RD	Std Temp	Standard		3L11552
3" 1502M x 2.38 8RD EUE	Std Temp	Standard		3P10295
3" 1502M x 2.88 8RD	Std Temp	Standard		3L11553
3" 1502M x 3" 8V LPT	Std Temp	Standard		3L11559
3" 1502M x 5.5 8RD SCT	Std Temp	Standard		3A22239
4" 1002F x 4.50-8SCT	Std Temp	Standard	3.88" ID	2P27054
4" 1002M x 2.38 8RD	Std Temp	Standard		3A22242
4" 1002M x 2.88 8RD	Std Temp	Standard		3A22243
4" 1002M x 4.5 8RD SCT	Std Temp	Standard		3A20222
4" 1002M x 5.5 8RD SCT	Std Temp	Standard		3A22246

*Note: Other parts or configurations may be available. Contact SPM.

Wing Union Components

Wing Nut

<u>Size</u>	<u>Fig. Rating</u>	<u>Style</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
1"	602	Standard	Low Temp	Standard	2P12043
1"	1002		Low Temp	Standard	2P12087
1"	1502		Low Temp	Standard	3P11520
1"	1502		Low Temp	H2S	3P16550
1 1/2"	602	NPS	Low Temp	Standard	3P12047
1 1/2"	1002		Low Temp	Standard	3P12091
1 1/2"	1502		Low Temp	Standard	3P11452
2"	200/206		Low Temp	Standard	3P12004
2"	402		Low Temp	Standard	2P12857
2"	602	Standard	Low Temp	Standard	2P12051
2"	1002		Low Temp	Standard	2P12095
2"	1502		Low Temp	Standard	3P10228
2"	1502		Low Temp	H2S	2P13710
2"	2002		Low Temp	Standard	2P14202
2"	2202		Low Temp	H2S	2P14714
3"	200/206		Low Temp	Standard	2P12009
3"	602	Standard	Low Temp	Standard	2P12055
3"	602	Detachable	Low Temp	Standard	2P12074
3"	602	Detachable	Low Temp	H2S	2P16530
3"	1002	Standard	Low Temp	Standard	3P10245
3"	1002	Standard	Low Temp	H2S	2P14954
3"	1502		Low Temp	Standard	2P10257
3"	1502		Low Temp	H2S	2P14370
3"	2002		Low Temp	Standard	2P19422
3"	2202		Low Temp	H2S	2P19342
4"	100		Low Temp	Standard	2P12168
4"	200/206		Low Temp	Standard	2P11765
4"	602		Low Temp	Standard	2P10274
4"	602	Detachable	Low Temp	Standard	2P10276
4"	602	Detachable	Low Temp	H2S	2P16531
4"	1002	Detachable	Low Temp	Standard	2P10963
4"	1002	Standard	Low Temp	Standard	2P10965
4"	1502		Low Temp	Standard	2P11729
6"	100		Low Temp	Standard	2P14238
6"	206		Low Temp	Standard	2P14250
8"	100		Low Temp	Standard	2P14242
8"	206		Low Temp	Standard	2P14255
10"	206		Low Temp	Standard	2P14260

*Note: Other parts or configurations may be available. Contact SPM.

SEGMENT=INSERT
 SEAL RING=UNION SEAL
 RET SEG=DAWG

Misc. Union Components RET RING= SPIRAL RING OR SNAP RING

Type	Size	Pressure Rating	Style	Service Type	Part Number
Blanking Cap	3"	207	With Chain Keeper	Standard	3A23442
Blanking Cap	3"	207	SCH 40	Standard	2P11996
Blanking Cap	4"	207	With Chain Keeper	Standard	3A18587
Blanking Cap	4"	207		Standard	2P11684
Blanking Cap	4"	207	.25 NPT	Standard	2P23813
Retainer Ring	1 1/2"	1502		Standard	P11945
Retainer Ring	2"	1502		Standard	P10232
Retainer Ring	3"	602/1002/1502		Standard	P10261
Retainer Ring	4"	1502		Standard	P12439
Retainer Segment	1 1/2"	1502		Standard	3P11460
Retainer Segment	2"	1502		Standard	3P10231
Retainer Segment	3"	602/1002/1502		Standard	3P10260
Retainer Segment	3"	602/1002/1502		H2S	3P16534
Retainer Segment	4"	602/1002		Standard	3P10277
Retainer Segment	4"	602/1002		H2S	3P16535
Retainer Segment	4"	1502		Standard	3P16929
Retainer Segment	6"	206		Standard	P29058
Seal Ring	1"	1502	Pressure Seal & NPS	Standard	3P11635
Seal Ring	1"	602/1002/1502		Standard	3P14975
Seal Ring	1"	602/1002/1502	Pressure Seal - Viton	Standard	3P16484
Seal Ring	1 1/2"	1502	Pressure Seal & NPS	Standard	3P11451
Seal Ring	1 1/2"	602/1002/1502		Standard	3P12283
Seal Ring	2"	1502	Pressure Seal	Standard	4P10229
Seal Ring	2"	1502	Pressure Seal - Viton	Standard	4P13258
Seal Ring	2"	1502/2002	Pressure Seal Anti-Extrusion	Standard	4P22391
Seal Ring	2"	1502/2002	Anti-Extrusion HNBR	Standard	2P27527
Seal Ring	2"	2202	Viton	Standard	3P14833
Seal Ring	3"	1502	Pressure Seal	Standard	4P10258
Seal Ring	3"	1502	Pressure Seal - Viton	Standard	4P13259
Seal Ring	3"	1502/2002	Pressure Seal Anti-Extrusion	Standard	2P30108
Seal Ring	3"	1502/2002	Anti-Extrusion Nitrile	Standard	2P30108
Seal Ring	3"	1502/2002	Anti-Extrusion - Viton	Standard	4P22395
Seal Ring	3"	1502/2002	Anti-Extrusion HNBR	Standard	4P28399
Seal Ring	4"	602/1002	Pressure Seal	Standard	4P10275
Seal Ring	4"	1502	Pressure Seal Anti-Extrusion	Standard	4P22397
Seal Ring	4"	1502	Pressure Seal - Viton	Standard	4P13260

*Note: Other parts or configurations may be available. Contact SPM.

Item Description

4A12977 KIT/2-1502 DET NUT/SEGM
 4A14794 KIT/2-2202 DET NUT/SEGM
 4A14791 KIT/2-2002 DET NUT/SEGM
 4A16548 KIT/3-1002 DET NUT/SEGM
 4A16924 KIT/4-1502 DET NUT/SEGMENTS
 4A14828 KIT/NUT/3-1002
 4A14830 KIT/NUT/3-1502

Safety Iron Component Parts

2" 15K Safety Iron

<u>Type</u>	<u>Style</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Clamp & Seal Kits	Buna	Low Temp	Standard	2A25919
Seal Kit	Buna	Low Temp		2A26024
Seal Kit	Viton	Low Temp	Standard	2A28031
Soft Seal	Buna	Low Temp		2P28294

**Note: Other parts or configurations may be available. Contact SPM.*

3" 15K Safety Iron

<u>Type</u>	<u>Style</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Clamp & Seal Kits	Buna	Low Temp	Standard	2A25917
Seal Kit	Buna	Low Temp	Standard	2A26026
Soft Seal	Buna	Low Temp	Standard	2P28292

**Note: Other parts or configurations may be available. Contact SPM.*

4" 10K Safety Iron

<u>Type</u>	<u>Style</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Clamp & Seal Kits	Buna	Low Temp	Standard	2A25927
Seal Kit	Buna	Low Temp	Standard	2A26028
Soft Seal	Buna	Low Temp	Standard	2P27767

**Note: Other parts or configurations may be available. Contact SPM.*

4" 15K Safety Iron

<u>Type</u>	<u>Style</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Clamp & Seal Kits	Buna	Low Temp	Standard	2A25402
Seal Kit	Buna	Low Temp	Standard	2A26029
Soft Seal	Buna	Low Temp	Standard	2P28291
Hard Seal Ring		Low Temp	Standard	2P24735

**Note: Other parts or configurations may be available. Contact SPM.*

Kit Definitions:

Clamp & Seal Kits: clamp assembly, hard seal ring, soft seals

Seal Kit: hard seal ring, soft seals

Ball Injectors

Ball Injector Assemblies

<u>Type</u>	<u>Size</u>	<u>Fig. Rating</u>	<u>End Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Ball Size</u>	<u>Part Number</u>
Remote Actuated - Electric	3"	1502	Male x Female	Std Temp	Standard	0.88 - 1.00 Diameter	2A28467
Manual Actuated	3"	1502	Male x Female	Std Temp	Standard	0.88 - 1.00 Diameter	2A27422
Manual Actuated	3"	1502	Male x Female	Low Temp	Standard	0.88 - 1.00 Diameter	2A29763
Manual Actuated	3"	1502	Male	Std Temp	Standard	0.88 - 1.00 Diameter	2A28452

*Note: Other parts or configurations may be available. Contact SPM.

Ball Injector Parts

<u>Type</u>	<u>Size</u>	<u>Part Number</u>
Parts Kit	3"	4L18114
Screw Assembly	1.00"	2A24251
Screw Assembly	.88"	2A14848
Screw Assembly	.63"	2A14844

*Note: Other parts or configurations may be available. Contact SPM.

Kits Definition:

Parts Kit: screw, seals, bearing, snap rings, pins, backup ring

Butterfly Valves

Butterfly Valve Assemblies

<u>Size</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
3"	Std Temp	Standard	2A25203
4"	Std Temp	Standard	2A25200
5"	Std Temp	Standard	2A25206
6"	Std Temp	Standard	2A25208
8"	Std Temp	Standard	2A25209
10"	Std Temp	Standard	2A25508
12"	Std Temp	Standard	2A25201

*Note: Other parts or configurations may be available. Contact SPM.

Choke Valves

Choke Valves

<u>Type</u>	<u>End Type</u>	<u>Style</u>	<u>Connection Type</u>	<u>Temperature</u>	<u>Service Type</u>	<u>Part Number</u>
Adjustable	2" 1502F x 2" 1502M	0.75 Seat	Hammer Union	Low Temp	Standard	2A18156-0.75
Adjustable	2" 1502F x 2" 1502M	0.75 Seat	Hammer Union	Low Temp	H2S	2A19461-0.75
Adjustable	2" 1502M x 2" 1502F	0.75 Seat	Hammer Union	Low Temp	Standard	2A18158-0.75
Adjustable	2" 1502F x 2" 1502F	0.75 Seat	Hammer Union	Low Temp	Standard	2A18159-0.75
Adjustable	2" 1502F x 2" 1502M	1.00 Seat	Hammer Union	Low Temp	Standard	2A18156-1.00
Adjustable	2" 1502F x 2" 1502M	1.00 Seat	Hammer Union	Low Temp	H2S	2A19461-1.00
Adjustable	2" 1502M x 2" 1502M	1.00 Seat	Hammer Union	Low Temp	Standard	2A18157-1.00
Adjustable	2" 1502M x 2" 1502F	1.00 Seat	Hammer Union	Low Temp	Standard	2A18158-1.00
Adjustable	3" 1502F x 3" 1502M	2.00 Seat	Hammer Union	Low Temp	Standard	2A21253
Adjustable	3" 1502F x 3" 1502M	2.00 Seat	Hammer Union	Low Temp	H2S	2A23122
Positive	2" 1502M x 2" 1502F	w/o Bean	Hammer Union	Low Temp	Standard	2A18160
Positive	2" 1502M x 2" 1502F	0.75 Seat	Hammer Union	Low Temp	Standard	2A18160-0.75
Positive	2" 15K SI x 2" 15K SI	w/o Bean	Safety Iron	Low Temp	Standard	2A27968
Positive	2" 1502M x 2" 1502F	w/o Bean	Hammer Union	Low Temp	H2S	2A22016

*Note: Other parts or configurations may be available. Contact SPM.

Safety Lifting Clamps

Clamps

<u>Type</u>	<u>Part Number</u>
4.06" - 6.63" OD	2A29636
5" - 5.5" OD	2A29637

**Note: Other parts or configurations may be available. Contact SPM.*

Safety Hammers

CAGE = PUD HEAD

Assemblies & Spares

<u>Type</u>	<u>Size</u>	<u>Cage Fig. Rating</u>	<u>Part Number</u>
Complete Assembly	2"	1502	2A26689
Complete Assembly	3"	1502	2A26699
Complete Assembly	4"	200 & 206	2A26886
Complete Assembly	4"	602 & 1002	2A26709
Pneumatic Hammer			2A26730
Hammer Tool			2P27058
Cage	2"	1502	2P26690
Cage	3"	200 / 206	2P26887
Cage	3"	1502	2P26700
Cage	4"	1002	2P26710

**Note: Other parts or configurations may be available. Contact SPM.*