

Oil & Gas Product Guide

April 2019

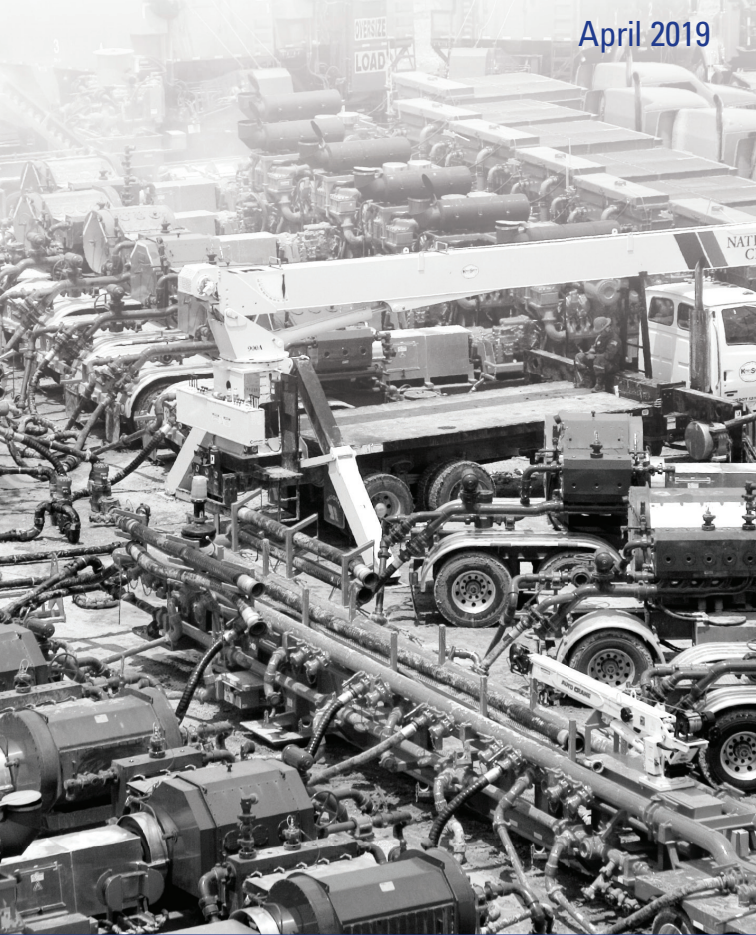


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About Kemper Valve and Fittings

In 1965, Kemper Valve and Fittings (KVF) started manufacturing and selling high-quality high pressure industrial pipe unions in the U.S. Years later, KVF expanded its product line to include oilfield hammer unions.

KVF's continued commitment to quality while being customer focused makes Kemper the largest domestic oilfield hammer union manufacturer today. KVF further expanded its U.S. designed and manufactured oilfield product line to include flowline products such as pup joints, swivel joints, plug valves, and relief "POP-OFF" valves.

To add customer value, KVF has continued to grow by designing and manufacturing manifold trailers with KVF designed and manufactured products. KVF also offers customers rebuild/recertification of any KVF or competitors' flow iron products, either on site or in one of the many Kemper facilities throughout the U.S.

Definitions & Requirements

ID – Inside Diameter
CWP – Cold Working Pressure
H2S – Sour Gas (SG) Operating Service
STD – Standard Operating Service
HD – Heavy Duty
API – American Petroleum Institute
LPT – Line Pipe Thread
LT – Low Torque
NSCW – NON Shock Cold Working Pressure. Kemper pressure tests all:
a) New Flow Iron to 1.5 Xs NSCW
b) Re-Certified/Rebuilt to 1.0 Xs NSCW
Domestic manufacturer of products

See API Composite List
<https://mycerts.api.org/Search/CompositeSearch>
 API 6A-1787
 API Q1 -2501
 ISO 2015-2636

DNV
D-5952 – Flow Line Fittings
and Long Radius Ell
D-5953 – Pup Joint Integral
and Crossovers
D-5955 – Swivel Joints
D-5961 – Pup Joint NPS





Oilfield Hammer Unions – STD

Figure	CWP	Size
50	500 PSI/34.5 bar	5"
100	1000 PSI/68.9 bar	2", 2.5", 3", 4", 5", 6", 8", 16"
101	1000 PSI/68.9 bar	5"
200	2000 PSI/137.9 bar	1", 1.25", 1.5", 2", 2.5", 3", 4", 5", 6", 8", 10"
201	2000 PSI/137.9 bar	2", 2.5", 3"
206	2000 PSI/137.9 bar	1", 1.25", 1.5", 2", 2.5", 3", 4", 5", 6", 8", 10"
207	2000 PSI/137.9 bar	3", 4", 6", 8"
211	2000 PSI/137.9 bar	2" & 3"
300	2000 PSI/137.9 bar	1" & 2"
400	4000 PSI/275.8 bar	2", 3", 4"
	2500 PSI/172.4 bar	5", 6", 12"
402	4000 PSI/275.8 bar	2"
600	6000 PSI/413.7 bar	1", 1.5", 2", 4"
602	6000 PSI/413.7 bar	1", 1.25", 1.5", 2", 3", 4", 5", 6"
G	6000 PSI/413.7 bar	1", 1.5", 2"
1002	10,000 PSI/689.5 bar	1", 1.25", 1.5", 2", 3", 4"
	7500 PSI/517.1 bar	5" & 6"
1003	10,000 PSI/689.5 bar	3"
	7500 PSI/517.1 bar	4", 5", 6"
1502	15,000 PSI/1034.2 bar	1", 1.5", 2", 3", 4", 5", 6"
2002	20,000 PSI/1379.0 bar	2"

Oilfield Hammer Unions – Sour Gas (H2S)

Figure	CWP	Size
406	4000 PSI/275.8 bar	3"
602	6000 PSI/413.7 bar	1", 1.25", 1.5", 2", 3", 4", 5"
1002	7500 PSI/517.1 bar	1", 1.25", 1.5", 2", 3", 4", 5", 6"
1003	5000 PSI/344.7 bar	4", 5", 6"
1502	10,000 PSI/689.5 bar	1", 1.5", 2", 3", 4", 5", 6"
2202	15,000 PSI/1034.2 bar	2", 4"



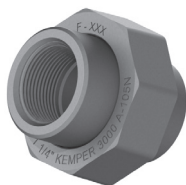
Hammerseal Unions - STD

CWP	Size
150 PSI/10.3 bar	3"
150 PSI/10.3 bar	4"
150 PSI/10.3 bar	6"
150 PSI/10.3 bar	8"
150 PSI/10.3 bar	10"
150 PSI/10.3 bar	12"
150 PSI/10.3 bar	14"
150 PSI/10.3 bar	16"
150 PSI/10.3 bar	18"
150 PSI/10.3 bar	20"



Seal-O-Grip - STD

CWP	Size
200 PSI/13.8 bar	4"
200 PSI/13.8 bar	6"
200 PSI/13.8 bar	8"
200 PSI/13.8 bar	10"
200 PSI/13.8 bar	12"
200 PSI/13.8 bar	14"
200 PSI/13.8 bar	16"



Industrial Unions - STD

CWP	Size
3000 PSI/206.8 bar	.25", .375", .5", .75", 1", 1.25", 1.5", 2", 3"

Available Association of American Railroad (AAR), High Speed, Lug Nut, Insulated, Socket Weld

Valves – NON Freeze (TANK)



Valves – NON Freeze (TANK) – STD

CWP	Size
150 PSI/10.3 bar	2"
150 PSI/10.3 bar	3"

Flowline Integral Fittings



Cross

Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
1502	15,000/1034.2	10,000/689.5	1"
1502	15,000/1034.2	10,000/689.5	1.5"
602	6000/413.7	6000/413.7	2"
1502	15,000/1034.2	10,000/689.5	2"
1502-M*	15,000/1034.2	10,000/689.5	2"
1502	15,000/1034.2	10,000/689.5	3"
602	6000/413.7	6000/413.7	4"
1002	10,000/689.5	7500/517.1	4"
1502	15,000/1034.2	10,000/689.5	4"

*M means offset



EII (90 degree)

Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
1502	15,000/1034.2	10,000/689.5	1"
1502	15,000/1034.2	10,000/689.5	1.5"
602	6000/413.7	6000/413.7	2"
1002	10,000/689.5	7500/517.1	2"
1502	15,000/1034.2	10,000/689.5	2"
602	6000/413.7	6000/413.7	3"
1002	10,000/689.5	7500/517.1	3"
1502	15,000/1034.2	10,000/689.5	3"
602	6000/413.7	6000/413.7	4"
1002	10,000/689.5	7500/517.1	4"
1502	15,000/1034.2	10,000/689.5	4"



Long Radius (LR) EII

Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
1502	15,000/1034.2	10,000/689.5	1"
602	6000/413.7	6000/413.7	1.5"
1002	10,000/689.5	7500/517.1	1.5"
1502	15,000/1034.2	10,000/689.5	1.5"
602	6000/413.7	6000/413.7	2"
1002	10,000/689.5	7500/517.1	2"
1502	15,000/1034.2	10,000/689.5	2"
602	6000/413.7	6000/413.7	3"
1002	10,000/689.5	7500/517.1	3"
1502	15,000/1034.2	10,000/689.5	3"
602	6000/413.7	6000/413.7	4"
1002	10,000/689.5	7500/517.1	4"
1502	15,000/1034.2	10,000/689.5	4"

EII (45 degree)



Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
602	6000/413.7	6000/413.7	2"
1002	10,000/689.5	7500/517.1	2"
1502	15,000/1034.2	10,000/689.5	2"
602	6000/413.7	6000/413.7	3"
1002	10,000/689.5	7500/517.1	3"
1502	15,000/1034.2	10,000/689.5	3"
602	6000/413.7	6000/413.7	4"
1002	10,000/689.5	7500/517.1	4"
1502	15,000/1034.2	10,000/689.5	4"

Flowline Integral Fittings



Integral Flowline Laterals

Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
602	6000/413.7	6000/413.7	2"
1002	10,000/689.5	7500/517.1	2"
1502	15,000/1034.2	10,000/689.5	2"
602	6000/413.7	6000/413.7	3"
1002	10,000/689.5	7500/517.1	3"
1502	15,000/1034.2	10,000/689.5	3"
602	6000/413.7	6000/413.7	4"
1002	10,000/689.5	7500/517.1	4"
1502	15,000/1034.2	10,000/689.5	4"

Flowline Integral Fittings



Tees

Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
1502	15,000/1034.2	10,000/689.5	1"
1502	15,000/1034.2	10,000/689.5	1.5"
602	6000/413.7	6000/413.7	2"
1002	10,000/689.5	7500/517.1	2"
1502	15,000/1034.2	10,000/689.5	2" *
602	6000/413.7	6000/413.7	3"
1002	10,000/689.5	7500/517.1	3"
1502	15,000/1034.2	10,000/689.5	3"
602	6000/413.7	6000/413.7	4"
1002	10,000/689.5	7500/517.1	4"
1502	15,000/1034.2	10,000/689.5	4"

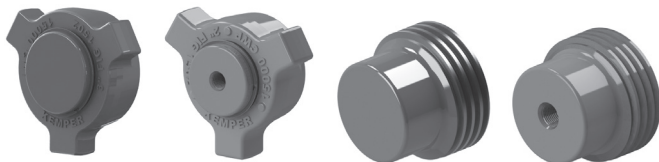
* 2" 1502 Offset tees are available upon request.



WYE

Figure	CWP		Size
	STD PSI/BAR	SG PSI/BAR	
602	6000/413.7	6000/413.7	2"
1002	10,000/689.5	7500/517.1	2"
1502	15,000/1034.2	10,000/689.5	2"
1502	15,000/1034.2	10,000/689.5	3"

Bulls, Crossovers, Swages



Flow Line Bull & Gage Plugs – STD

Figure	CWP	Size
50	500 PSI/34.5 bar	5"
100	1000 PSI/68.9 bar	2", 3", 4", 5", 6", 8", 16"
200	2000 PSI/137.9 bar	1", 1.5", 2", 2.5", 3", 4", 5", 6", 8", 10"
206		1.5", 2", 3", 4", 5", 6", 8", 10"
400	4000 PSI/275.8 bar	2", 3", 4"
	2500 PSI/172.4 bar	5", 12"
602	6000 PSI/413.7 bar	1", 2", 3", 4", 5", 6"
1002	10,000 PSI/689.5 bar	1", 1.5", 2", 3", 4"
	7500 PSI/517.1 bar	5", 6"
1003	10,000 PSI/689.5 bar	3", 4"
	7500 PSI/517.1 bar	5", 6"
1502	15,000 PSI/1034.2 bar	1", 1.5", 2", 3", 4", 5", 6"
2002	20,000 PSI/1379.0 bar	2"

Flow Line Bull & Gage Plugs – Sour Gas (H₂S)

Figure	CWP	Size
1002	7500 PSI/517.1 bar	3", 4"
	5000 PSI/344.7 bar	5", 6"
1502	10,000 PSI/689.5 bar	2", 3", 4", 5", 6"
2202	15,000 PSI/1034.2 bar	2"



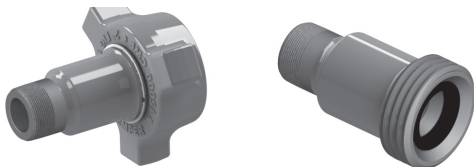
Hammer Union Crossovers – STD

Figure	CWP	Size
602	6000 PSI/413.7 bar	2"
1002	10,000 PSI/689.5 bar	3", 4"
1502	15,000 PSI/1034.2 bar	1", 1.5", 2", 3", 4"

Hammer Union Crossovers – Sour Gas (H₂S)

Figure	CWP	Size
602	6000 PSI/413.7 bar	2", 3", 4"
1002	7500 PSI/517.1 bar	3", 4", 5"
1502	10,000 PSI/689.5 bar	1", 2", 3", 4", 5"

Bulls, Crossovers, Swages

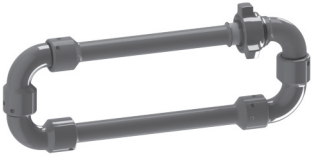


Hammer Union Swages – STD

Figure	CWP	Size
602	6000 PSI/413.7 bar	1.5", 2", 3", 4"
1002	10,000 PSI/689.5 bar	2", 3", 4", 6"
1502	10,000 PSI/689.5 bar	1", 1.5", 2", 3", 4"

Hammer Union Swages – Sour Gas (H2S)

Figure	CWP	Size
1502	10,000 PSI/689.5 bar	2", 3"

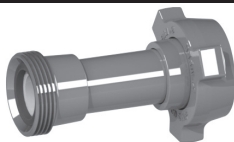


Hose Loops – STD

Figure	CWP	Size	Length
602	6000 PSI/413.7 bar	2"	6', 8', 10', 12'
	10,000 PSI/689.5 bar		
	15,000 PSI/1034.2 bar		
1002	6000 PSI/413.7 bar	2"	6', 8', 10', 12'
	10,000 PSI/689.5 bar		
	15,000 PSI/1034.2 bar		
1502	6000 PSI/413.7 bar	2"	6', 8', 10', 12'
	10,000 PSI/689.5 bar		
	15,000 PSI/1034.2 bar		
1502	15,000 PSI/1034.2 bar	3"	10', 12'

Hose Loops – Sour Gas (H2S)

Figure	CWP	Size	Length
1502	10,000 PSI/689.5 bar	2"	6', 8', 10', 12'



Pup Joints - Non-Pressure Seal (NPS) - STD

Figure	CWP	Size	ID
1502	15,000 PSI/1034.2 bar	1"	.82"
1502	15,000 PSI/1034.2 bar	1.5"	1.25"
1502	15,000 PSI/1034.2 bar	2"	1.67"
602	6000 PSI/413.7 bar	3"	2.43"
1002	10,000 PSI/689.5 bar	3"	2.43"
1502	15,000 PSI/1034.2 bar	3"	2.43"
602	6000 PSI/413.7 bar	4"	3.50"
1002	10,000 PSI/689.5 bar	4"	3.50"
1502	15,000 PSI/1034.2 bar	4"	3.50"



Pup Joints - Integral (IE) - STD

Figure	CWP	Size	ID
1502	15,000 PSI/1034.2 bar	1"	1.00"
1502	15,000 PSI/1034.2 bar	1.5"	1.30"
602	6000 PSI/413.7 bar	2"	1.75"
1002	10,000 PSI/689.5 bar	2"	1.75"
1502	15,000 PSI/1034.2 bar	2"	1.75"
602	6000 PSI/413.7 bar	3"	2.50"
1002	10,000 PSI/689.5 bar	3"	2.50"
1502	15,000 PSI/1034.2 bar	3"	2.50"
1502 HD	15,000 PSI/1034.2 bar	3"	2.75"
1002	10,000 PSI/689.5 bar	4"	3.75"
1502	15,000 PSI/1034.2 bar	4"	3.50"

Pup Joints - Integral (IE) - Sour Gas (H2S)

Figure	CWP	Size	ID
1502	10,000 PSI/689.5 bar	2"	1.75"
2202	15,000 PSI/1034.2 bar	2"	1.25"
1502	10,000 PSI/689.5 bar	3"	2.50"
1502	10,000 PSI/689.5 bar	4"	3.50"

ID = Inside Diameter

HD = Heavy Duty

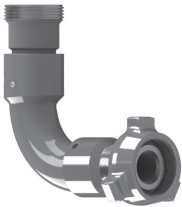
Various lengths available for standard and sour gas (H2S).

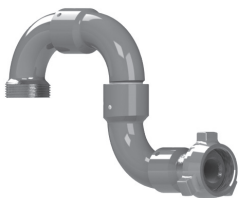
Swivel Joints

Swivel Joints – STD

Style	Figure	CWP	Size
10 	1502	15,000 PSI/1034.2 bar	1"
	1502	15,000 PSI/1034.2 bar	1.5"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	1002	10,000 PSI/689.5 bar	2"
	602	6000 PSI/413.7 bar	3"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	602	6000 PSI/413.7 bar	4"
	1002	10,000 PSI/689.5 bar	4"
	1502	15,000 PSI/1034.2 bar	4"
20 	1502	15,000 PSI/1034.2 bar	1"
	1502	15,000 PSI/1034.2 bar	1.5"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	602	6000 PSI/413.7 bar	3"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	602	6000 PSI/413.7 bar	4"
	1002	10,000 PSI/689.5 bar	4"
	1502	15,000 PSI/1034.2 bar	4"
30 	1502	15,000 PSI/1034.2 bar	1"
	1502	15,000 PSI/1034.2 bar	1.5"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	602	6000 PSI/413.7 bar	3"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	602	6000 PSI/413.7 bar	4"
	1002	10,000 PSI/689.5 bar	4"
	1502	15,000 PSI/1034.2 bar	4"
50 	1502	15,000 PSI/1034.2 bar	1"
	1502	15,000 PSI/1034.2 bar	1.5"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	2002	15,000 PSI/1034.2 bar	2"
	602	6000 PSI/413.7 bar	3"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	602	6000 PSI/413.7 bar	4"
	1002	10,000 PSI/689.5 bar	4"
	1502	15,000 PSI/1034.2 bar	4"

Swivel Joints - STD cont.

Style	Figure	CWP	Size
 60	1502	15,000 PSI/1034.2 bar	1"
	1502	15,000 PSI/1034.2 bar	1.5"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	602	6000 PSI/413.7 bar	3"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	1002	10,000 PSI/689.5 bar	4"
	1502	15,000 PSI/1034.2 bar	4"
 80	1502	15,000 PSI/1034.2 bar	1"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	602	6000 PSI/413.7 bar	3"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	602	6000 PSI/413.7 bar	4"
	1002	10,000 PSI/689.5 bar	4"
	1502	15,000 PSI/1034.2 bar	4"
 100	1502	15,000 PSI/1034.2 bar	1"
	1002	10,000 PSI/689.5 bar	2"
	1502	15,000 PSI/1034.2 bar	2"
	1002	10,000 PSI/689.5 bar	3"
	1502	15,000 PSI/1034.2 bar	3"
	1502	15,000 PSI/1034.2 bar	4"



Swivel Joints – Sour Gas (H₂S)

Style	Figure	CWP	Size
10	1502	10,000 PSI/689.5 bar	2"
	2202	15,000 PSI/1034.2 bar	2"
	1502	10,000 PSI/689.5 bar	3"
20	1502	10,000 PSI/689.5 bar	2"
	1502	10,000 PSI/689.5 bar	3"
30	1502	10,000 PSI/689.5 bar	2"
	2202	15,000 PSI/1034.2 bar	2"
	1502	10,000 PSI/689.5 bar	3"
50	1502	10,000 PSI/689.5 bar	2"
	2202	15,000 PSI/1034.2 bar	2"
	602	6000 PSI/413.7 bar	3"
	1502	10,000 PSI/689.5 bar	3"
60	1502	10,000 PSI/689.5 bar	2"
	1502	10,000 PSI/689.5 bar	3"
80	1502	10,000 PSI/689.5 bar	2"
100	1502	10,000 PSI/689.5 bar	2"
	1502	10,000 PSI/689.5 bar	3"

Swivel Joints – Code Silver

Swivel Joints – Code Silver – STD (LPT connections only)

Style	CWP	Size
10	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
20	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
30	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
40	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
50	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
60	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
70	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"
80	6000 PSI/413.7 bar	.75"
		1"
		1.25"
		1.5"
		2"



Manifold Trailers – Standard Ordering Options

High Pressure Side

- 1502 or 1002
- 2", 3", 3" HD (1502 only), to 4" Pump Port Connections
- Optional LT Plug Valves, Swing Checks available
- 90° or 45° Lateral available
- 2", 3", 3" (HD), or 4" Discharge to Well
- 8-16 Ports available
- 42-53 Foot lengths available

Low Pressure Side

- Available in Multiple Pipe Sizes and Connection Configurations
- Contact your Kemper Sales Representative for Options

"Design to Order" Options not listed above are available.



5 Valve
2 – Adj Choke

Dual Choke Manifolds – STD

Figure	CWP	Size	Choke Valve Types	No. of Plug Valves (LT)
1502	15,000 PSI/1034.2 bar	2", 3"	2 ADJ	4, 5, 9, 10
1502	15,000 PSI/1034.2 bar	2", 3"	1 ADJ, 1 POS	4, 5, 9, 10

Dual Choke Manifolds – SG (H2S)

Figure	CWP	Size	Choke Valve Types	# of Plug Valves (LT)
1502	10,000 PSI/689.5 bar	2"	2 ADJ	4, 5, 6, 9
1502	10,000 PSI/689.5 bar	2"	1 ADJ, 1 POS	4, 5, 6, 9

Adj = Adjustable

Pos = Positive



5 Valve

Ground Manifolds – STD

Figure	CWP	Size	# of Plug Valves (LT)
1502	15,000 PSI/1034.2 bar	2", 3"	4, 5, 9, 10
1002	10,000 PSI/689.5 bar	4"	None

Ground Manifolds – SG (H2S)

Figure	CWP	Size	# of Plug Valves (LT)
1502	10,000 PSI/689.5 bar	2"	7



Trash collectors and other manifold configurations available.
Consult manufacturer.



Blast Subs – STD

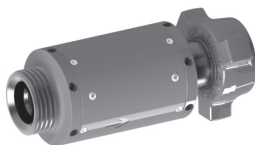
Figure	CWP	Size
1502	15,000 PSI/1034.2 bar	2"
1502	15,000 PSI/1034.2 bar	3"

Different lengths exist – consult factory

Blast Subs – Sour Gas (H₂S)

Figure	CWP	Size
1502	10,000 PSI/689.5 bar	2"
1502	10,000 PSI/689.5 bar	3"

Different lengths exist – consult factory



Check Valves – Dart Standard Flow or Reverse Flow

Figure	CWP	Size
1502	15,000 PSI/1034.2 bar	1"
1502	15,000 PSI/1034.2 bar	1.5"
1502	15,000 PSI/1034.2 bar	2"
1002	10,000 PSI/689.5 bar	2"
1502	15,000 PSI/1034.2 bar	3"



Check Valves – Swing Check Standard Flow or Reverse Flow

Figure	CWP	Size
1502	15,000 PSI/1034.2 bar	2"
1502	15,000 PSI/1034.2 bar	3"
1002	10,000 PSI/689.5 bar	4"
1502	15,000 PSI/1034.2 bar	4"



Choke Valves – STD

Figure	CWP	Size
Adjustable		
1502	15,000 PSI/1034.2 bar	2"
		3"
Positive		
1502	15,000 PSI/1034.2 bar	2"
		3"

Choke Valves – Sour Gas (H₂S)

Figure	CWP	Size
Adjustable		
1502	10,000 PSI/689.5 bar	2"
Positive		
1502	10,000 PSI/689.5 bar	2"



Low Torque Plug Valves – STD

Figure	CWP	Size
1502	15,000 PSI/1034.2 bar	1"
1502	15,000 PSI/1034.2 bar	1.5"
1502	15,000 PSI/1034.2 bar	1" x 2"
1502	15,000 PSI/1034.2 bar	2"
1002	10,000 PSI/689.5 bar	3"
1502	15,000 PSI/1034.2 bar	
1002	10,000 PSI/689.5 bar	4"
1502	15,000 PSI/1034.2 bar	

Low Torque Plug Valves – Sour Gas (H₂S)

Figure	CWP	Size
1502	10,000 PSI/689.5 bar	1"
1502	10,000 PSI/689.5 bar	1" x 2"
1502	10,000 PSI/689.5 bar	2"
1502	10,000 PSI/689.5 bar	3"



Pressure Relief (POP-OFF) Valves - STD

Figure	CWP	Size
1502	15,000 PSI/1034.2 bar	2"
2002	20,000 PSI/1379.0 bar	2"



Pressure Relief Rupture Disk Valves - STD

Figure	CWP	Size
1502	15,000 PSI/1034.2 bar	2"

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