

A close-up, black and white photograph of a metal component, likely a valve or flow control device. The component features a threaded section on the right side. The word "KEMPER" is stamped in large, bold letters on the left side of the component. The background is a textured, metallic surface.

SPM™ Oil & Gas

A Caterpillar Company

**Kemper™ Flow Control
Product Guide**

About SPM Oil & Gas

SPM™ Oil & Gas (SPM) provides superior products and service solutions to make our customers more efficient and lower total cost of ownership. More customers choose our SPM pressure pumping solutions than any other.

We provide SPM well service and stimulation pumps, SPM and Kemper flow control products, replacement expendable parts and supporting engineered repair services. SPM's Pressure Control solutions include Seaboard™ and KOP™ wellheads, API valves, frac trees, managed pressure drilling equipment including Mathena™ chokes, separators and containment equipment.

Globally, we deliver engineered mechanical and rotating equipment repairs and upgrades, oilfield and drilling equipment repair and certification, rapid prototyping or spare parts, robust asset management and field engineering services.

Definitions and 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

NSCWP—Non-Shock Cold Working Pressure

Kemper pressure tests all:

a) New Flow Iron to 1.5X NSCWP

b) Refurbished Iron to 1.0X NSCWP

See API Composite List

<https://mycerts.api.org/Search/CompositeSearch>

API 6A-1787

API Q1-2501

ISO 2015-2636

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Unions

Oilfield Hammer Unions—STD



Figure	NSCWP	Size
100	1,000 psi/68.9 bar	2", 2.5", 3", 4", 5", 6", 8"
200	2,000 psi/137.9 bar	1", 1.25", 1.5", 2", 2.5", 3", 4", 6", 8", 10"
206	2,000 psi/137.9 bar	1", 1.25", 1.5", 2", 2.5", 3", 4", 6", 8", 10"
207	2,000 psi/137.9 bar	3", 4", 6"
211	2,000 psi/137.9 bar	2", 3"
400	4,000 psi/275.8 bar	2", 3", 4"
	2,500 psi/172.4 bar	12"
602G	6,000 psi/413.7 bar	1", 1.5", 2"
1002	10,000 psi/689.5 bar	1", 2", 3", 4"
	7,500 psi/517.1 bar	5", 6"
1003	10,000 psi/689.5 bar	3"
	7,500 psi/517.1 bar	4", 5"
1502	15,000 psi/1034.2 bar	1", 1.5", 2", 3", 4", 5"

Unions

Hammerseal Unions—STD



NSCWP	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"

Seal-O-Grip—STD



NSCWP	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"

Flowline Integral Fittings

Cross



NSCWP			
Figure	STD	psi/bar	Size
1502	15,000	1034.2	2"
1502	15,000	1034.2	3"
1002	10,000	689.5	4"
1502	15,000	1034.2	4"

EII (90 degree)



NSCWP			
Figure	STD	psi/bar	Size
1502	15,000	1034.2	2"
1502	15,000	1034.2	3"
1002	10,000	689.5	4"
1502	15,000	1034.2	4"

EII (45 degree)



NSCWP			
Figure	STD	psi/bar	Size
1502	15,000	1034.2	2"
1502	15,000	1034.2	3"

Integral Flowline Laterals



NSCWP			
Figure	STD	psi/bar	Size
1502	15,000	1034.2	2"
1502	15,000	1034.2	3"
1002	10,000	689.5	4"
1502	15,000	1034.2	4"

Tees



NSCWP			
Figure	STD	psi/bar	Size
1502	15,000	1034.2	2"
1502	15,000	1034.2	3"
1002	10,000	689.5	4"
1502	15,000	1034.2	4"

Wye



NSCWP			
Figure	STD	psi/bar	Size
1502	15,000	1034.2	2"
1502	15,000	1034.2	3"

Flow Line Bull & Gage Plugs—STD

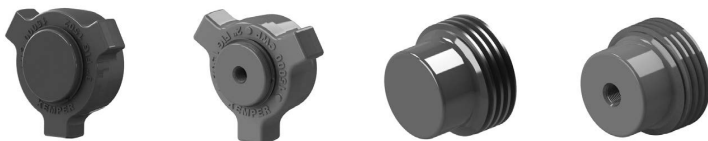


Figure	NSCWP	Size
200	2,000 psi/137.9 bar	4"
206		2", 4"
1002	10,000 psi/689.5 bar	3", 4"
	7,500 psi/517.1 bar	5"
1502	15,000 psi/1034.2 bar	2", 3", 4", 5"

Hammer Union Crossovers—STD



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

Blast Subs—STD



Figure	NSCWP	Size
1502	15,000 psi/1034.2 bar	2"
1502	15,000 psi/1034.2 bar	3"

Hammer Union Swages—STD



Figure	NSCWP	Size
1502	15,000 psi/1034.2 bar	2", 3"

Pup Joints

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



Figure	NSCWP	Size	ID
1502	15,000 psi/1034.2 bar	2"	1.67"
1502	15,000 psi/1034.2 bar	3"	2.43"
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	NSCWP	Size	ID
1502	15,000 psi/1034.2 bar	2"	1.75"
1502	15,000 psi/1034.2 bar	3"	2.50"
			2.75"
1502	15,000 psi/1034.2 bar	4"	3.75"

Valves

Check Valves—Swing Check Standard Flow or Reverse Flow



Figure	NSCWP	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	NSCWP	Size
Adjustable		
1502	15,000 psi/1034.2 bar	2", 3"
Positive		
1502	15,000 psi/1034.2 bar	2", 3"

Low Torque Plug Valves—STD



Figure	NSCWP	Size
1502	15,000 psi/1034.2 bar	1" x 2"
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"

Pressure Relief (POP-OFF) Valves—STD



Figure	NSCWP	Size
1502	15,000 psi/1034.2 bar	2"

Sales & Distribution Centers Contact Information

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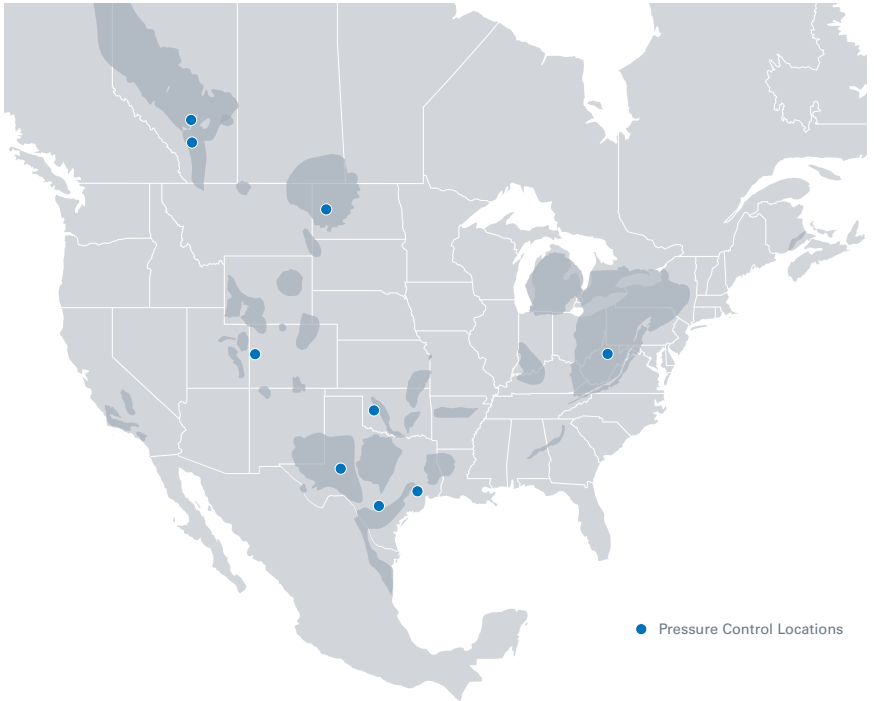
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