to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar

**High Pressure** 

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

1

## Valves, Fittings and Tubing for Sour Gas Applications

» Pressures to 30,000 psi (2,070 bar)









MAXIMATOR has been designing and manufacturing high pressure equipment for more than thirty years and has a worldwide reputation for quality and reliability, backed by one of the best service organizations in the industry.

#### Oil & Gas Products feature:

- Rising stem design, both solid and 2piece configuration are available.
- All pressure-containing materials comply with the requirements of NACE MR0175.
- Annealed 316 L (1.4404) wetted parts and 17-4 PH Stem (or N05500 for one piece stem) for excellent corrosion resistance.
- Metal-to-metal seating achieves bubble-tight shut-off, longer stem and seat life, greater durability for repeated open and close cycles.
- PTFE and carbon packing with metal back-up rings offers reliable stem to body sealing.
- Safety weep holes for all pressure connections and packing area.
- Six different valve body patterns, with choice of vee or regulating type stem tip.

MAXIMATOR offers a complete line of high pressure valves, fittings, tubing, check valves and line filters for standard oil field service where H2S is present. All high pressure valves and fittings use the high pressure style connection.

Note: When selecting multiple items, the pressure rating would be that of the lowest rated component.



Index	Page:
Valves rated to 22,500 psi (1,550 bar)	2 – 3
Valves rated to 30,000 psi (2,070 bar)	4 – 5
Fittings	6 – 7
Check Valves	8
Line Filters	9
Sour Gas Adapters and Couplings	10 – 13
Tubing	14
Coned and Threaded Nipples	15

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High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

# High Pressure Valves for Sour Gas Applications

» Pressures to 22,500 psi (1,550 bar)

**Ordering Information** 

22V4H071-S0G

Typical catalog number:



### Sour Gas Valves

Maximator Sour Gas Valves are designed for oil and gas service where  $\rm H_2S$  is present. All pressure containing components are made from annealed 316 stainless steel material in compliance with NACE MR0175. These needle valves with metal to metal seats have a high level of safety and reliability under harsh operating conditions. These valves may be used both with gases and liquids.

Traceability is ensured through extensively documented data (batch number, maximum pressure, material number, type designation). All Sour Gas components are supplied with collars and glands unless otherwise specified.

22 V Valve Series	4H O.D. Tube Size	07 Stem Type	1 Body Pattern	SOG- Sour Gas
22 V	<b>4H</b> – 1/4"	<b>00</b> – One piece rotating Vee stem	1 – two-way straight	SOGWO-
	<b>6H</b> – 3/8"	01 – One piece rotating Regulating stem	2 – two-way angle	Sour Gas
	<b>9H</b> – 9/16"	<b>07</b> – non rotating Vee stem (on-off service)	<b>3</b> – three-way, two on pressure	without
		08 - non rotating Regulating stem	4 – three-way, one on pressure	Glands &
		(tapered tip for regulating and shut-off)	<b>5</b> – three-way, two-stem manifold	Collars
		80 – One piece Vee stem with replaceable seat		
		81 - One piece Regulating stem with		
		replaceable seat		

O.D. Si in. (mr		Connec- tion Type	Orifice Size in. (mm)	Rated Cv*	Pressure Rating @ R.T. psi (bar)**
1/4 (6	6.35)	4HF	0.094 <b>(2.3)</b>	0.12	22,500 <b>(1,550)</b>
3/8 (9	9.53)	6HF	0.125 <b>(3.2)</b>	0.23	22,500 <b>(1,550)</b>
9/16 <b>(1</b>	4.30)	9HF	0.125 <b>(3.2)</b>	0.33	22,500 <b>(1,550)</b>

Consult your MAXIMATOR representative for **repair kits** and valve bodies. Refer to the Tools and Installation section for proper maintenance procedures.

- \* Cv values shown are for 2-way straight pattern vee stem valves. For 2-way angle patterns, increase the Cv value by 50%.
- \*\* See page 2 in the Technical Section for Pressure/Temperature Rating Chart.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Valve Actuators

to 21,000 psi (1,500 bar)

**Ball Valves** 

Valve Pattern	Catalog	Stem	O.D. Tube	Orifice				Dimen	sions in	. (mm)					Valve	Block
	Number	Туре	in.	in. (mm)	A	В	C	D	E	F	Н		J	K	Panel Hole	ness
2-Way Straight																
H F -	22V4H001-S0G	Vee	1/4	0.094	4.96	2.01	1.50	0.22	0.37	1.38	2.95	1.12	2.01		1.00	1.02
	22V4H081-S0G	Reg	1/4	(2.3)	(126)	(51)	(38)	(5.6)	(9.5)	(35)	(75)	(28.5)	(51)		(25.4)	(25.9
6	22V6H001-S0G	Vee	3/8	0.125	4.96	2.01	1.50	0.22	0.37	1.38	2.95	1.12	2.01		1.00	1.02
11	22V6H081-S0G	Reg	3/0	(3.2)	(126)	(51)	(38)	(5.6)	(9.5)	(35)	(75)	(28.5)	(51)		(25.4)	(25.9
	22V9H001-S0G	Vee	9/16	0.125	5.00	2.44	1.56	0.22	0.37	1.38	2.95	1.12	2.64		1.00	1.54
J	22V9H001-S0G	Reg	3/10	(3.2)	(127)	(62)	(39.6)	(5.6)	(9.5)	(35)	(75)	(28.5)	(57)		(25.4)	(39.
2-Way Angle																
* H	22V4H002-S0G	Vee		0.094	4.96	2.01	1.12	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	22V4H082-S0G	Reg	1/4	(2.3)	(126)	(51)	(28.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
<u>c</u>	22V6H002-S0G	Vee		0.125	4.78	2.20	1.10	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	22V6H082-S0G	Reg	3/8	(3.2)	(121.5)	(56)	(28)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
	22V9H002-S0G	Vee	244	0.125	5.00	2.44	1.12	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
<del></del>	22V9H082-S0G	Reg	9/16	(3.2)	(127)	(62)	(28.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(57)		(25.4)	(39.
3-Way / 2 on Pressu	re															
u.	22V4H003-S0G	Vee		0.094	4.96	2.13	1.50	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
<u> </u>	22V4H083-S0G	Reg	1/4	(2.3)	(119.1)		(38)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.
<u></u>	22V6H003-S0G	Vee		0.125	5.08	2.50	1.50	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
1	22V6H083-S0G	Reg	3/8	(3.2)	(129)	(63.5)	(38)	(5.6)	<b>(9.5)</b>	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.
	22V9H003-S0G	Vee		0.125	5.45	2.87	1.56	0.22	0.37	1.38	2.95	1.32	2.64	1.12	1.00	1.54
<del>- ' - </del>	22V9H083-S0G	Reg	9/16	(3.2)	(138.5)		(39.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(67)	(28.5)	(25.4)	(39.
3-Way / 1 on Pressu	re	J														
	22V4H004-S0G	Voo		0.004	4.00	0.04	4 40	0.00	0.07	4.00	0.05	4.00	0.04		4.00	4.00
<del> </del>	22V4H004-S0G	Vee	1/4	0.094 <b>(2.3)</b>	4.96 <b>(126)</b>	2.01 <b>(51)</b>	1.12 <b>(28.5)</b>	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.00 <b>(25.4)</b>	2.01 <b>(51)</b>		1.00 <b>(25.4)</b>	1.02 <b>(25.</b>
6	22V4H064-S0G	Reg		. ,												
		Vee	3/8	0.125 (3.2)	4.76 <b>(121)</b>	2.20 <b>(56)</b>	1.12 ( <b>28.5</b> )	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.00 <b>(25.4)</b>	2.01 <b>(51)</b>		1.00 <b>(25.4)</b>	1.02 ( <b>25</b> .
	22V6H084-S0G 22V9H004-S0G	Reg		1 1	٠, ,		` '		` '		` '					
	22V9H004-S0G	Vee	9/16	0.125 (3.2)	5.00 <b>(127)</b>	2.44 <b>(62)</b>	1.12 <b>(28.5)</b>	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.32 ( <b>33.5</b> )	2.64 <b>(67)</b>		1.00 <b>(25.4)</b>	1.54 (39.
		Reg		(3.2)	(121)	(UZ)	(20.0)	(5.0)	(3.3)	(55)	(10)	(00.0)	(01)		(23.4)	(00.
3-Way / 2-Stem Mar																
F	22V4H005-S0G	Vee	1/4	0.094	8.23	3.07	1.54	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
	22V4H085-S0G	Reg		(2.3)	(209)	(78)	(39.1)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.
	22V6H005-S0G	Vee	3/8	0.125	8.39	3.25	1.61	0.22	0.37	1.38	2.95	1.00	2.01	1.12	1.00	1.02
	22V6H085-S0G	Reg		(3.2)	(213)	(82.5)	(40.9)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)	(28.5)	(25.4)	(25.
	22V9H005-S0G	Vee	9/16	0.125	8.90	3.74	1.88	0.22	0.37	1.38	2.95	1.32	2.64	1.12	1.00	1.54
17.	22V9H085-S0G	Reg		(3.2)	(226)	(95)	(47.8)	(5.6)	(9.5)	(35)	(75)	(33.5)	(67)	(28.5)	(25.4)	(39.
2-Way Angle / Repla	ceable Seat															
H F F	22V4H802-S0G	Vee	1/4	0.094	4.96	2.38	1.12	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	22V4H882-S0G	Reg	1/4	(2.3)	(126)			(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
	22V6H802-S0G	Vee	2/0	0.125	4.96	2.38	1.12	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	22V6H882-S0G	Reg	3/8	(3.2)	(126)	(60.5)	(28.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
* +	22V9H802-S0G	Vee	0/10	0.125	5.00	2.44	1.18	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
- <u> -</u>	22V9H882-SOG	Reg	9/16	(3.2)	(127)	(62)	(30)	(5.6)	(9.5)	(35)	(75)	(33.5)	(57)		(25.4)	(39.

G - Panel mounting screw thread size 10-24 UNC (screw included). All dimensions are for reference only and are subject to change.

All technical and dimensional information subject to change. All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.

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High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

# High Pressure Valves for Sour Gas Applications

» Pressures to 30,000 psi (2,070 bar)

**Ordering Information** 

30V4H071-S0G

Typical catalog number:



#### Sour Gas Valves

Maximator Sour Gas Valves are designed for oil and gas service where  $\rm H_2S$  is present. All pressure containing components are made from annealed 316 stainless steel material in compliance with NACE MR0175. These needle valves with metal to metal seats have a high level of safety and reliability under harsh operating conditions. These valves may be used both with gases and liquids.

Traceability is ensured through extensively documented data (batch number, maximum pressure, material number, type designation). All Sour Gas components are supplied with collars and glands unless otherwise specified.

30 V Valve Series	4H O.D. Tube Size	07 Stem Type	1 Body Pattern	SOG- Sour Gas
30 V	<b>4H</b> – 1/4"	<b>00</b> – One piece rotating Vee stem	1 – two-way straight	SOGWO-
	<b>6H</b> – 3/8"	01 – One piece rotating Regulating stem	2 – two-way angle	Sour Gas
	<b>9H</b> – 9/16"	<b>07</b> – non rotating Vee stem (on-off service)	<b>3</b> – three-way, two on pressure	without
		08 – non rotating Regulating stem	4 – three-way, one on pressure	Glands &
		(tapered tip for regulating and shut-off)	<b>5</b> – three-way, two-stem manifold	Collars
		<b>80</b> – One piece Vee stem with replaceable seat		
		81 - One piece Regulating stem with		
		replaceable seat		

O.D. Size in. (mm)	Connec- tion Type	Orifice Size in. (mm)	Rated Cv*	Pressure Rating @ R.T. psi (bar)**
1/4 (6.35)	4HF	0.062 <b>(1.6)</b>	0.08	30,000 <b>(2,070)</b>
3/8 <b>(9.53)</b>	6HF	0.062 <b>(1.6)</b>	0.09	30,000 <b>(2,070)</b>
9/16 <b>(14.30</b>	) 9HF	0.078 <b>(2.0)</b>	0.14	30,000 <b>(2,070)</b>

Consult your MAXIMATOR representative for **repair kits** and valve bodies. Refer to the Tools and Installation section for proper maintenance procedures.

- \* Cv values shown are for 2-way straight pattern vee stem valves. For 2-way angle patterns, increase the Cv value by 50%.
- \*\* See page 2 in the Technical Section for Pressure/Temperature Rating Chart.

Adapters and

to 22,500 psi (1,550 bar)

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Valve Actuators

to 21,000 psi (1,500 bar)

**Ball Valves** 

2-Way Straight  2-Way Angle	30V4H001-S0G 30V4H081-S0G 30V6H001-S0G 30V6H081-S0G 30V9H001-S0G 30V9H081-S0G	Vee Reg Vee Reg Vee Reg	Tube in. 1/4 3/8	0.062 (1.6)	4.67 (118.6)	2.13 ( <b>54.1</b> )	C 1.96	D	E	F	н	1	J	K	Panel Hole	Thick ness
2-Way Angle	30V4H081-S0G 30V6H001-S0G 30V6H081-S0G 30V9H001-S0G	Reg Vee Reg Vee		(1.6) 0.062	(118.6)		1.96									
2-Way Angle	30V4H081-S0G 30V6H001-S0G 30V6H081-S0G 30V9H001-S0G	Reg Vee Reg Vee		(1.6) 0.062	(118.6)		1.96									
2-Way Angle	30V6H001-SOG 30V6H081-SOG 30V9H001-SOG	Vee Reg Vee		0.062	, ,	(54.1)		0.22	0.37	1.38	2.95	1.32	2.01		1.00	1.02
2-Way Angle	30V6H081-SOG 30V9H001-SOG	Reg Vee	3/8		4.00	(0,	(43)	(5.6)	(9.5)	(35)	(75)	(33.5)	(51)		(25.4)	(25.9
2-Way Angle	30V9H001-S0G	Vee	0/0	/1 C\	4.80	2.24	1.96	0.22	0.37	1.38	2.95	1.32	2.01		1.00	1.02
2-Way Angle				(1.6)	(122)	(56.9)	(43)	(5.6)	(9.5)	(35)	(75)	(33.5)	(51)		(25.4)	(25.9
2-Way Angle	30V9H081-SOG	Reg	9/16	0.078	5.04	2.50	1.75	0.22	0.37	1.38	2.95	1.30	2.64		1.00	1.54
<del>-     </del>			0, 10	(2)	(128)	(63.5)	(44.5)	(5.6)	(9.5)	(35)	(75)	(33)	(57)		(25.4)	(39.
-																
	30V4H002-S0G	Vee		0.062	4.96	2.38	1.34	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
Company (IV)	30V4H082-S0G	Reg	1/4	(1.6)	(126)	(60.5)		(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
	30V6H002-S0G	Vee	0.70	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	30V6H082-S0G	Reg	3/8	(1.6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
	30V9H002-S0G	Vee	0/40	0.078	5.35	2.80	1.32	0.22	0.37	1.38	2.95	1.32	2.64		1.00	1.54
	30V9H082-S0G	Reg	9/16	(2)	(136)	(71.1)	(33.5)	(5.6)	(9.5)	(35)	(75)	(33.5)	(57)		(25.4)	(39.
3-Way / 2 on Pressure																
. н .	30V4H003-S0G	Vee		0.062	4.96	2.38	1.69	0.22	0.37	1.38	2.95	1.00	2.01	1.32	1.00	1.02
<del> </del>	30V4H083-S0G	Reg	1/4	(1.6)	(126)	( <b>60.5</b> )	(43)	( <b>5.6</b> )	(9.5)	(35)	( <b>75</b> )	(25.4)	(51)	(33.5)	<b>(25.4)</b>	(25.
	30V6H003-S0G	Vee		0.062	5.31	2.76	1.69	0.22	0.37	1.38	2.95	1.00	2.01	1.32	1.00	1.02
<	30V6H083-S0G	Reg	3/8	(1.6)	(134.9)		(43)	( <b>5.6</b> )	(9.5)	(35)	( <b>75</b> )	<b>(25.4)</b>	( <b>51</b> )	(33.5)	<b>(25.4)</b>	(25.
	30V9H003-S0G	Vee		0.078	5.71	3.15	1.75	0.22	0.37	1.38	2.95	1.32	2.64	1.30	1.00	1.54
L:3"	30V9H083-S0G	Reg	9/16	(2)	(145)	(80)	(44.5)	(5.6)	<b>(9.5)</b>	(35)	( <b>75</b> )	(33.5)	(67)	(33)	(25.4)	(39.
3-Way / 1 on Pressure																
	30V4H004-S0G	Vee		0.060	4.06	0.00	1 20	0.00	0.27	1 20	2.05	1.00	2.01		1.00	1.02
<del>   </del>	30V4H084-SOG	Reg	1/4	0.062 (1.6)	4.96 <b>(126)</b>	2.38 <b>(60.5)</b>	1.32 (33.5)	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.00 <b>(25.4)</b>	2.01 <b>(51)</b>		1.00 <b>(25.4)</b>	(25.9
	30V4H004-S0G	Vee		` '	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
<	30V6H084-S0G	Reg	3/8	0.062 <b>(1.6)</b>	(131)	(66.5)		( <b>5.6</b> )	(9.5)	(35)	2.95 <b>(75)</b>	(25.4)	( <b>51</b> )		(25.4)	(25.9
	30V9H004-S0G	Vee		٠, ,	5.35							` '				
LiT I	30V9H084-S0G	Reg	9/16	0.078 <b>(2)</b>	(136)	2.80 <b>(71.1)</b>	1.32 ( <b>33.5</b> )	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.32 ( <b>33.5</b> )	2.64 <b>(67)</b>		1.00 <b>(25.4)</b>	1.54 ( <b>39.</b>
3-Way / 2-Stem Manifold		rieg		(-)	(100)	()	(00.0)	(6.6)	(0.0)	(00)	(1-0)	(00.0)	(0.7)		(=0.1.)	(00.
		Vaa														
<del>,     •</del>	30V4H005-S0G	Vee	1/4	0.062 <b>(1.6)</b>	8.56 <b>(217.4)</b>	3.44 (87.4)	1.72 <b>(43.7)</b>	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.00 <b>(25.4)</b>	2.01 <b>(51)</b>	1.32 ( <b>33.5</b> )	1.00 <b>(25.4)</b>	1.02 <b>(25.</b>
	30V4H085-S0G	Reg														
	30V6H005-S0G	Vee	3/8	0.062 <b>(1.6)</b>	8.56	3.76 <b>(95.5)</b>	1.89 <b>(48)</b>	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.00 <b>(25.4)</b>	2.01 <b>(51)</b>	1.32 ( <b>33.5</b> )	1.00 <b>(25.4)</b>	1.02 <b>(25.</b>
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30V6H085-S0G	Reg													-	
	30V9H005-S0G 30V9H085-S0G	Vee	9/16	0.078 <b>(2)</b>	9.25 <b>(235)</b>	4.13 <b>(105)</b>	2.07 <b>(52.6)</b>	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.32 ( <b>33.5</b> )	2.64 <b>(67)</b>	1.30 ( <b>33</b> )	1.00 <b>(25.4)</b>	1.54 ( <b>39.</b>
2-Way Angle / Replaceat		Reg		(-)	(200)	(100)	(02.0)	(0.0)	(0.0)	(00)	(10)	(00.0)	(31)	(00)	(20.7)	(00.
	30V4H802-SOG	Vee	1/4	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
<u></u>	30V4H882-SOG	Reg		(1.6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
	30V6H802-SOG	Vee	3/8	0.062	5.16	2.62	1.32	0.22	0.37	1.38	2.95	1.00	2.01		1.00	1.02
	30V6H882-SOG	Reg		(1.6)	(131)	(66.5)	(33.5)	(5.6)	(9.5)	(35)	(75)	(25.4)	(51)		(25.4)	(25.
aps	30V9H802-S0G 30V9H882-S0G	Vee Reg	9/16	0.078 <b>(2)</b>	5.16 <b>(131)</b>	2.62	1.32 <b>(33.5)</b>	0.22 <b>(5.6)</b>	0.37 <b>(9.5)</b>	1.38 <b>(35)</b>	2.95 <b>(75)</b>	1.32 <b>(33.5)</b>	2.64 <b>(57)</b>		1.00 <b>(25.4)</b>	1.54 <b>(39.</b>

G - Panel mounting screw thread size 10-24 UNC (screw included). All dimensions are for reference only and are subject to change.

to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

**High Pressure** 

**Medium Pressure** 

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

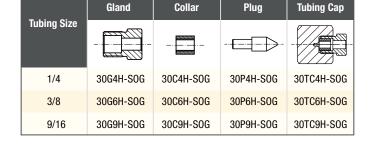
## High Pressure Fittings for Sour Gas Applications

» Pressures to 30,000 psi (2,070 bar)

### Sour Gas Fittings

Maximator Sour Gas Fittings are designed for oil and gas services where H<sub>2</sub>S is present. All pressure containing components are made from annealed 316 stainless steel material in compliance with NACE MR0175. All High Pressure fittings are supplied with collars and glands. Mounting holes are standard on all elbows, tees, and crosses.





### Connection Components

All high pressure fittings are supplied with glands and collars. Refer to the adjacent chart for ordering any of the connection components individually. When using the plug, the collar is not needed.

Fitting Pattern	Catalog Number	Connection Type	O.D. Tube	Orifice in.			Dimen	sions in. (r	nm)			Block Thick-
		, , , , , , , , , , , , , , , , , , ,	Size in.	(mm)	A	В	C	D	E	F	G	ness
Elbow												
A F	30L4H-SOG	4HF	1/4	0.094 <b>(2.3)</b>	0.89 <b>(22.6)</b>	1.02 <b>(25.9)</b>	1.54 <b>(39.1)</b>	0.63 <b>(16)</b>	0.46 <b>(11.7)</b>	0.65 <b>(16.5)</b>	0.22 <b>(5.6)</b>	1.02 <b>(25.9)</b>
C B B B B B B B B B B B B B B B B B B B	30L6H-S0G	6HF	3/8	0.125 ( <b>3.2)</b>	1.26 <b>(32)</b>	1.50 <b>(38.1)</b>	2.01 <b>(51)</b>	0.98 <b>(24.9)</b>	0.72 <b>(18.3)</b>	0.69 <b>(17.5)</b>	0.26 <b>(6.6)</b>	1.02 <b>(25.9)</b>
C	30L9H-S0G	9HF	9/16	0.188 <b>(4.8)</b>	1.89 <b>(48)</b>	1.89 <b>(48)</b>	2.64 <b>(67)</b>	1.10 <b>(28)</b>	0.83 <b>(21.1)</b>	0.94 <b>(23.9)</b>	0.33 <b>(8.4)</b>	1.54 <b>(39.1)</b>
Tee												
	30T4H-SOG	4HF	1/4	0.094 <b>(2.3)</b>	1.00 <b>(25.4)</b>	1.26 <b>(32)</b>	2.01 <b>(51)</b>	0.89 <b>(22.6)</b>	0.46 <b>(11.7)</b>	1.30 <b>(33)</b>	0.22 <b>(5.6)</b>	1.02 <b>(25.9)</b>
	30T6H-S0G	6HF	3/8	0.125 <b>(3.2)</b>	1.00 <b>(25.4)</b>	1.57 <b>(39.9)</b>	2.01 <b>(51)</b>	1.06 <b>(26.9)</b>	0.72 <b>(18.3)</b>	1.38 <b>(35)</b>	0.26 <b>(6.6)</b>	1.02 <b>(25.9)</b>
A	30T9H-S0G	9HF	9/16	0.188 <b>(4.8)</b>	1.32 <b>(33.5)</b>	2.13 <b>(54.1)</b>	2.64 <b>(67)</b>	1.38 <b>(35)</b>	0.83 <b>(21.1)</b>	1.89 <b>(48)</b>	0.33 <b>(8.4)</b>	1.54 <b>(39.1)</b>

See page 2 in the Technical Section for pressure/temperature rating chart. All dimensions are for reference only and are subject to change.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Valve Actuators

to 21,000 psi (1,500 bar)

**Ball Valves** 

Fitting Pattern	Catalog	Connection	0.D.	Orifice			Dimen	sions in. (ı	nm)			Block
	Number	Туре	Tube Size in.	in. (mm)	A	В	С	D	E	F	G	Thick- ness
Cross												
· C STD	30X4H-S0G	4HF	1/4	0.094 <b>(2.3)</b>	1.00 <b>(25.4)</b>	1.26 <b>(32)</b>	2.01 <b>(51.1)</b>	0.63 <b>(16)</b>	0.46 <b>(11.7)</b>	1.30 <b>(33)</b>	0.22 <b>(5.6)</b>	1.02 <b>(25.9)</b>
	30X6H-S0G	6HF	3/8	0.125 <b>(3.2)</b>	1.00 <b>(25.4)</b>	2.13 <b>(54.1)</b>	2.01 <b>(51.1)</b>	1.06 <b>(27)</b>	0.72 <b>(18.3)</b>	1.38 <b>(35)</b>	0.26 <b>(6.6)</b>	1.02 <b>(25.9)</b>
C	30X9H-S0G	9HF	9/16	0.188 <b>(4.8)</b>	1.32 <b>(33.5)</b>	2.76 <b>(70.1)</b>	2.64 <b>(67)</b>	1.38 <b>(35)</b>	0.83 <b>(21.1)</b>	1.89 <b>(48)</b>	0.33 <b>(8.4)</b>	1.54 <b>(39.1)</b>
Straight Coupling / Union	Coupling											
- ш	30F4H-S0G 30UF4H-S0G	4HF	1/4	0.094 <b>(2.3)</b>	1.38 <b>(35)</b>	1.06 <b>(27)</b>			Straight Union C	Coupling		
A Straight	30F6H-S0G 30UF6H-S0G	6HF	3/8	0.125 (3.2)	1.77 <b>(45)</b>	1.06 <b>(27)</b>				Coupling		
A Union	30F9H-S0G 30UF9H-S0G	9HF	9/16	0.188 <b>(4.8)</b>	2.19 <b>(55.6)</b>	1.44 ( <b>36.6</b> )				Coupling		
Bulkhead Coupling												
E max.	30BF4H-S0G	4HF	1/4	0.094 <b>(2.3)</b>	1.89 <b>(48)</b>	1.06 <b>(27)</b>	1.06 <b>(27)</b>	0.94 <b>(23.9)</b>	0.16 <b>(4)</b>			
B - C	30BF6H-S0G	6HF	3/8	0.125 <b>(3.2)</b>	2.38 <b>(60.5)</b>	1.44 <b>(36.5)</b>	1.44 <b>(36.5)</b>	1.12 <b>(28.5)</b>	0.35 <b>(8.9)</b>			
A	30BF9H-S0G	9HF	9/16	0.188 <b>(4.8)</b>	2.76 <b>(70.1)</b>	1.63 <b>(41.3)</b>	1.63 <b>(41.3)</b>	1.43 <b>(36.3)</b>	0.67 <b>(17)</b>			

See page 2 in the Technical Section for pressure/temperature rating chart. All dimensions are for reference only and are subject to change.

High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar

**Medium Pressure** 

Valve Actuators

to 21,000 psi (1,500 bar)

**Ball Valves** 

### Check Valves for Sour Gas Applications

» Pressures to 30,000 psi (2,070 bar)

#### **O-Ring Check Valves**

Maximator o-ring check valves provide high quality directional flow control and bubble tight shut-off for liquids and gases. These check valves are not to be used as a relief device. The opening pressure of the O-Ring Check Valves is approx. 20 psi (1.5 bar).

#### » Materials:

Body, cover, poppet, cover gland: annealed 316 stainless steel Spring: Inconel X-750

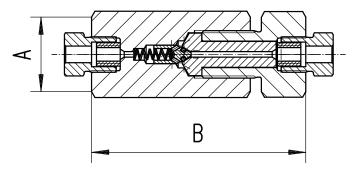
O-ring: FKM "A" [-4°F to 392°F (-20°C to 200°C)]

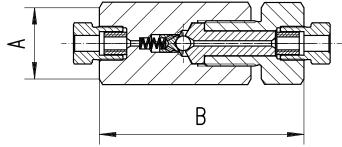
#### **Ball Check Valves**

Maximator ball check valves prevent reverse flow where bubble tight shut-off is not mandatory. These check valves are designed to operate to 660°F. These check valves are not to be used as a relief device. The opening pressure of the Ball Check Valves is approx. 20 psi (1.5 bar).

#### » Materials:

Body, cover, poppet, cover gland: annealed 316 series stainless steel Ball: annealed 316 series stainless steel Spring: Inconel X-750





Catalog Number	Connection	Pressure	Orifice	Rated (Cv)		ns in. (mm)
	Туре	Rating psi (bar)	in. (mm)		A (Hex.)	В
O-Ring Check Valve	9S					
300C4H-S0G	4HF	30,000 <b>(2,070)</b>	0.094 <b>(2.3)</b>	0.15	1.19 <b>(30.2)</b>	3.40 <b>(86.4)</b>
300C6H-SOG	6HF	30,000 <b>(2,070)</b>	0.125 <b>(3.2)</b>	0.28	1.19 <b>(30.2)</b>	3.81 <b>(96.8)</b>
300C9H-SOG	9HF	30,000 <b>(2,070)</b>	0.188 <b>(4.8)</b>	0.63	1.63 <b>(41.4)</b>	4.61 <b>(117.1)</b>
Ball Check Valves						
30BC4H-SOG	4HF	30,000 <b>(2,070)</b>	0.094 <b>(2.3)</b>	0.15	1.19 <b>(30.2)</b>	3.40 <b>(86.4)</b>
30BC6H-SOG	6HF	30,000 <b>(2,070)</b>	0.125 <b>(3.2)</b>	0.28	1.19 <b>(30.2)</b>	3.81 <b>(96.8)</b>
30BC9H-SOG	9HF	30,000 <b>(2,070)</b>	0.188 <b>(4.8)</b>	0.63	1.63 <b>(41.4)</b>	4.61 <b>(117.1)</b>

CAUTION: FREQUENT INSPECTIONS of O-Rings are necessary to ensure proper service of the check valve.

O-Rings have shown satisfactory service life in testing, however different service conditions may lead to variations in cycle and shelf life.

All dimensions are for reference only and subject to change.

High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar

Medium Pressure

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

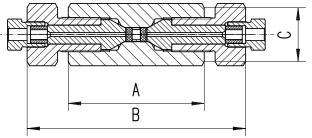
#### **Dual-Disc Line Filters**

Maximator dual-disc line fillters are used to filter process fluids in high pressure systems. This design helps remove the large particles first through a coarse primary disc, which then allows a secondary disc to provide a smaller micron filtration. These filter elements are designed to withstand pressure surges without cracking, flaking, or rupturing. Filter elements come standard in the following micron sizes: 5/8, 8/30, 30/56 (secondary/pr imary). Filters are rated for temperatures -60°F to 660°F (-50°C to 350°C). All line filters come with glands and collars.

#### » Materials:

Body, cover, cover gland: 316 series stainless steel

Element: 316 series stainless steel

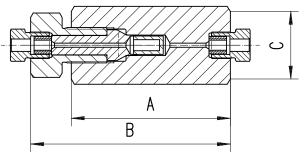


#### **Cup-Type Line Filters**

Maximator cup-type line filters are used when maximum filtration surface area and a single micron size element is preferred. This design increases the filter area as much as 6 times the area of the disc type filter, and will permit higher flow rates with a lower pressure drop, and longer intervals between element changes. Filter elements come standard in 5, 30, or 56 micron sizes and are easily replaced. Filters are rated for temperatures -60°F to 660°F (-50°C to 350°C). All line filters come with glands and collars.

#### » Materials:

Body, cover, cover gland: 316 series stainless steel Element: 316 series stainless steel



Catalog Number	Pressure	Orifice	Micron Size	Connection	Filter Element	Dime	nsions in. (m	ım)
	Rating psi (bar)	in. (mm)		Туре	Area in.² (mm)²	A	В	C (Hex.
Dual-Disc Line Filters								
30DF4H-5/8-S0G	20,000	0.004	5/8		0.07	0.00	4.0	1 10
30DF4H-8/30-S0G	30,000 ( <b>2,070</b> )	0.094	8/30	4HF	0.07 <b>(50)</b>	2.99 <b>(76)</b>	4.8 <b>(121,9)</b>	1.19 <b>(30.2)</b>
30DF4H-30/56-S0G	(2,070)	(2.3)	30/56		(30)	(76)	(121,9)	(30.2)
30DF6H-5/8-S0G	20,000	0.105	5/8		0.07	0.00	г оо	1.10
30DF6H-8/30-S0G	30,000	0.125 <b>(3.2)</b>	8/30	6HF	0.07	2.99	5.29 <b>(134.4)</b>	1.19 <b>(30.2)</b>
30DF6H-30/56-S0G	(2,070)		30/56		(50)	(76)	(134.4)	(30.2)
30DF9H-5/8-SOG	20,000	0.188	5/8		0.15	3.39	5.75	1.44
30DF9H-8/30-S0G	30,000 <b>(2,070)</b>	(4.8)	8/30	9HF	(95)	(86.1)	5.75 (146)	(36.6)
30DF9H-30/56-SOG	(2,070)	(4.0)	30/56		(93)	(00.1)	(140)	(30.0)
Cup-Type Line Filters								
30CF4H-5-S0G	20,000	0.094	5		0.82	3.39	4.25	1.44
30CF4H-30-S0G	30,000 ( <b>2,070</b> )	(2.3)	30	4HF	(530)	(86.1)	4.25 (108)	(36.6)
30CF4H-56-SOG	(2,070)	(2.3)	56		(330)	(00.1)	(100)	(30.0)
30CF6H-5-S0G	30,000	0.125	5		0.82	3.39	4.44	1.44
30CF6H-30-S0G	(2,070)	(3.2)	30	6HF	(530)	(86.1)	4.44 (112.8)	(36.6)
30CF6H-56-SOG	(2,070)	(3.2)	56		(330)	(00.1)	(112.0)	(30.0)
30CF9H-5-SOG	30,000	0.188	5		0.82	4.06	5.28	1.63
30CF9H-30-S0G	(2,070)	0.188 <b>(4.8)</b>	30	9HF	0.82 <b>(530)</b>	(103.1)	(134.1)	(41.3)
						(100.1)	(107.1)	(71.0)

It is recommended that all fluids entering a high pressure system be thoroughly cleaned.

Maximator filters are designed to remove small amounts of process particles. Pressure differential should not exceed 1000 psi across the filter elements. All dimensions for reference only and are subject to change.

All technical and dimensional information subject to change. All general Terms and Conditions of sale, including limitations of our liability, apply to all products and services sold.

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High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

Valve Actuators

to 21,000 psi (1,500 bar)

**Ball Valves** 

## Sour Gas Adapters and Couplings

### » Adapters (male to female)

#### Adapters (male to female)

Maximator sour gas adapters and couplings are designed to join a variety of pressure connections where  $\rm H_2S$  ist present. All adapters are made of annealed 316 stainless steel material that meets NACE MR0175 specification.

#### » Instructions:

Find the male connection you want on the adapter in the "A" column and the female connection of the adapter in the "B" column. At the intersection of the two columns is the appropriate catalog number.



Tube	Male Connection	on A   Maximum	Eon	Female Connection B nale High Pressure / 30,000 pasi (2,070	harl
Size in.	Туре	Pressure psi (bar)*	1/4" 4H	3/8" 6H	9/16" 9H
		psi (uai)	1/4 411	3/0 011	3/10 911
Male Hig	n				
1/4	4H	30,000 <b>(2,070)</b>		30A4H6H-S0G	30A4H9H-S0G
3/8	6H	30,000 <b>(2,070)</b>	30A6H4H-S0G		30A6H9H-S0G
9/16	9H	30,000 <b>(2,070)</b>	30A9H4H-S0G	30A9H6H-S0G	
Male Pip	e				
1/8	NPT	10,000 <b>(700)</b>	10A2P4H-SOG	10A2P6H-S0G	10A2P9H-S0G
1/4	NPT	10,000 <b>(700)</b>	10A4P4H-S0G	10A4P6H-S0G	10A4P9H-S0G
3/8	NPT	10,000 <b>(700)</b>	10A6P4H-SOG	10A6P6H-S0G	10A6P9H-S0G
1/2	NPT	10,000 <b>(700)</b>	10A8P4H-SOG	10A8P6H-S0G	10A8P9H-S0G
3/4	NPT	10,000 <b>(700)</b>	10A12P4H-SOG	10A12P6H-S0G	10A12P9H-SOG
1	NPT	10,000 <b>(700)</b>	10A16P4H-SOG	10A16P6H-SOG	10A16P9H-SOG
Male Brit	tish Standard P	ripe			
1/8	BSP	10,000 <b>(700)</b>	10A2B4H-SOG	10A2B6H-S0G	10A2B9H-S0G
1/4	BSP	10,000 <b>(700)</b>	10A4B4H-SOG	10A4B6H-SOG	10A4B9H-S0G
3/8	BSP	10,000 <b>(700)</b>	10A6B4H-SOG	10A6B6H-S0G	10A6B9H-S0G
1/2	BSP	10,000 <b>(700)</b>	10A8B4H-SOG	10A8B6H-SOG	10A8B9H-S0G
3/4	BSP	10,000 <b>(700)</b>	10A12B4H-S0G	10A12B6H-S0G	10A12B9H-SOG
1	BSP	10,000 <b>(700)</b>	10A16B4H-SOG	10A16B6H-S0G	10A16B9H-S0G

<sup>\*</sup> The pressure rating of any adapter is the value of the lowest rated connection in the fitting.

Note: All Maximator adapters come standard in the "one-piece" design style. Adapters with the two piece design are avaiable by adding a suffix -2P after the part numbers listed above. Both designs are identical in length, and are interchangeable with each other.

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Valve Actuators

to 21,000 psi (1,500 bar)

**Ball Valves** 

Tube Size	Male Connection   Connection   Type	on A Maximum Pressure							
in.	"	psi (bar)*	1/8" NPT   1/4" NPT   3/8" NPT   1/2" NPT   3/4" NPT   1						
Male High	1								
1/4	4H	30,000 <b>(2,070)</b>	10A4H2P-S0G	10A4H4P-SOG	10A4H6P-SOG	10A4H8P-SOG	10A4H12P-S0G	10A4H16P-SOG	
3/8	6H	30,000 <b>(2,070)</b>	10A6H2P-SOG	10A6H4P-SOG	10A6H6P-SOG	10A6H8P-S0G	10A6H12P-S0G	10A6H16P-SOG	
9/16	9Н	30,000 <b>(2,070)</b>	10A9H2P-SOG	10A9H4P-SOG	10A9H6P-S0G	10A9H8P-SOG	10A9H12P-SOG	10A9H16P-SOG	

Tube Size	Male Connection Connection Type	on A Maximum Pressure	Female Connection B Female British Standard Pipe / 10,000 psi (700 bar)								
in.	.,,,,,	psi (bar)*	1/8" BSP	1/8" BSP   1/4" BSP   3/8" BSP   1/2" BSP   3/4" BSP							
Male High	1										
1/4	4H	30,000 <b>(2,070)</b>	10A4H2B-S0G	10A4H4B-S0G	10A4H6B-S0G	10A4H8B-S0G	10A4H12B-S0G	10A4H16B-S0G			
3/8	6H	30,000 <b>(2,070)</b>	10A6H2B-S0G	10A6H4B-S0G	10A6H6B-S0G	10A6H8B-S0G	10A6H12B-S0G	10A6H16B-S0G			
9/16	9H	30,000 <b>(2,070)</b>	10A6H2B-S0G	10A6H4B-S0G	10A6H6B-S0G	10A6H8B-S0G	10A6H12B-S0G	10A6H16B-S0G			

<sup>\*</sup> The pressure rating of any adapter is the value of the lowest rated connection in the fitting.

High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

# Sour Gas Adapters and Couplings

## » Couplings (female to female)

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Maximator sour gas adapters and couplings are designed to join a variety of pressure connections where  $\rm H_2S$  ist present. All adapters are made of annealed 316 stainless steel material that meets NACE MR0175 specification.



Tube Size	emale Connect Connection Type	ion A Maximum Pressure	Female Connection B Female High Pressure / 30,000 pasi (2,070 bar)				
in.	.,,,,	psi (bar)*	1/4" 4H	3/8" 6H	9/16" 9H		
Female H	igh						
1/4	4H	30,000 <b>(2,070)</b>	30F4H-S0G	30F4H6H-S0G	30F4H9H-S0G		
3/8	6H	30,000 <b>(2,070)</b>		30F6H-SOG	30F6H9H-S0G		
9/16	9H	30,000 <b>(2,070)</b>			30F9H-SOG		

Tube Size	emale Connect Connection Type	ion A Maximum Pressure	Female Connection B Female Pipe / 10,000 psi (700 bar)							
in.	1,100	psi (bar)*	1/8" NPT	1/8" NPT   1/4" NPT   3/8" NPT   1/2" NPT   3/4" NPT						
Female H	igh									
1/4	4H	30,000 <b>(2,070)</b>	10F4H2P-S0G	10F4H4P-S0G	10F4H6P-S0G	10F4H8P-S0G	10F4H12P-S0G	10F4H16P-SOG		
3/8	6H	30,000 <b>(2,070)</b>	10F6H2P-S0G	10F6H4P-S0G	10F6H6P-S0G	10F6H8P-S0G	10F6H12P-S0G	10F6H16P-S0G		
9/16	9Н	30,000 <b>(2,070)</b>	10F9H2P-S0G	10F9H4P-S0G	10F9H6P-S0G	10F9H8P-S0G	10F9H12P-S0G	10F9H16P-S0G		

Tube Size	emale Connect Connection Type	ion A Maximum Pressure	Female Connection B Female British Standard Pipe / 10,000 psi (700 bar)							
in.	1,750	psi (bar)*	1/8" BSP	1/8" BSP   1/4" BSP   3/8" BSP   1/2" BSP   3/4"						
Female H	igh									
1/4	4H	30,000 <b>(2,070)</b>	10F4H2B-S0G	10F4H4B-S0G	10F4H6B-S0G	10F4H8B-S0G	10F4H12B-S0G	10F4H16B-S0G		
3/8	6H	30,000 <b>(2,070)</b>	10F6H2B-S0G	10F6H4B-S0G	10F6H6B-S0G	10F6H8B-S0G	10F6H12B-S0G	10F6H16B-S0G		
9/16	9H	30,000 <b>(2,070)</b>	10F9H2B-S0G	10F9H4B-S0G	10F9H6B-S0G	10F9H8B-S0G	10F9H12B-S0G	10F9H16B-S0G		

<sup>\*</sup> The pressure rating of any adapter is the value of the lowest rated connection in the fitting.

**Adapters and** 

to 22,500 psi (1,550 bar)

**High Pressure** to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

### Adapters (male to male)

Maximator male to male adapters allow the joining of two different sizes and / or type of tube or pipe female connections.



Tube Size	Male Connection Connection Type	on A Maximum Pressure	Ma	Male Connection B le High Pressure / 30,000 pasi (2,070 b	2,070 bar)			
in.	1,400	psi (bar)*	1/4" 4H	1/4" 4H 3/8" 6H				
Female H	igh							
1/4	4H	30,000 <b>(2,070)</b>	30M4H-SOG	30M4H6H-SOG	30M4H9H-SOG			
3/8	6H	30,000 <b>(2,070)</b>		30M6H-S0G	30M6H9H-SOG			
9/16	9H	30,000 <b>(2,070)</b>			30M9H-SOG			

Tube Size	Male Connection Connection Type	on A Maximum Pressure	Male Connection B Male Pipe / 10,000 psi (700 bar)							
in.	1,750	psi (bar)*	1/8" NPT	1/8" NPT   1/4" NPT   3/8" NPT   1/2" NPT   3/4" NPT						
Female H	igh									
1/4	4H	30,000 <b>(2,070)</b>	10M4H2P-SOG	10M4H4P-SOG	10M4H6P-SOG	10M4H8P-SOG	10M4H12P-S0G	10M4H16P-SOG		
3/8	6H	30,000 <b>(2,070)</b>	10M6H2P-S0G	10M6H4P-SOG	10M6H6P-S0G	10M6H8P-SOG	10M6H12P-S0G	10M6H16P-S0G		
9/16	9H	30,000 <b>(2,070)</b>	10M9H2P-S0G	10M9H4P-SOG	10M9H6P-S0G	10M9H8P-SOG	10M9H12P-S0G	10M9H16P-S0G		

Tube Size	Male Connection Connection Type	on A Maximum Pressure	Male Connection B  Male British Standard Pipe / 10,000 psi (700 bar)							
in.	,,,,	psi (bar)*	1/8" BSP	1" BSP						
Female H	igh									
1/4	4H	30,000 <b>(2,070)</b>	10M4H2B-S0G	10M4H4B-S0G	10M4H6B-S0G	10M4H8B-S0G	10M4H12B-S0G	10M4H16B-S0G		
3/8	6H	30,000 <b>(2,070)</b>	10M6H2B-S0G	10M6H4B-S0G	10M6H6B-S0G	10M6H8B-S0G	10M6H12B-S0G	10M6H16B-S0G		
9/16	9H	30,000 <b>(2,070)</b>	10M9H2B-S0G	10M9H4B-S0G	10M9H6B-S0G	10M9H8B-S0G	10M9H12B-S0G	10M9H16B-S0G		

<sup>\*</sup> The pressure rating of any adapter is the value of the lowest rated connection in the fitting.

High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

**Medium Pressure** 

Valve Actuators

**Ball Valves** to 21,000 psi (1,500 bar)

## High Pressure Tubing for Sour Gas Applications

» Pressures to 30,000 psi (2,070 bar)

### Sour Gas Tubing

Maximator Sour Gas Tubing is designed for oil and gas services where  $\rm H_2S$  is present. All tubing is seamless annealed 316 stainless steel material in compliance with NACE MR0175. This tubing is made under strict manufacturing and quality control standards and inspections, with dimensional tolerances to match the requirements of the high pressure coned and threaded connections.



#### **Tubing Tolerances**

Normal Tubing Size in. (mm)	Tolerance O.D in. (mm)
1/4 <b>(6.35)</b>	0.248 / 0.243 <b>(6.299 / 6.172)</b>
3/8 <b>(9.53)</b>	0.370 / 0.365 <b>(9.398 / 9.271)</b>
9/16 <b>(14.29)</b>	0.557 / 0.552 <b>(14.147 / 14.021)</b>

Catalog Number	Tube	Fits	Tube Size	in. (mm)		Working Pressure psi (bar)					
	Material	Connection Type	0.D.	I.D.	-325°F to 100°F (-198°C to 37°C)	200°F (93°C)	400°F (204°C)	600°F (315°C)	800°F (426°C)		
30TU4H-316-S0G	316SS	4HF	1/4 <b>(6.35)</b>	0.083 <b>(2.11)</b>	30,000 <b>(2,070)</b>	27,000 <b>(1,850)</b>	24,900 <b>(1,700)</b>	22,800 <b>(1,600)</b>	21,600 <b>(1,500)</b>		
30TU6H-316-SOG	316SS	6HF	3/8 <b>(9.53)</b>	0.125 <b>(3.20)</b>	30,000 <b>(2,070)</b>	27,000 <b>(1,850)</b>	24,900 <b>(1,700)</b>	22,800 <b>(1,600)</b>	21,600 <b>(1,500)</b>		
30TU9H-316-SOG	316SS	9HF	9/16 <b>(14.29)</b>	0.188 <b>(4.77)</b>	30,000 <b>(2,070)</b>	27,000 <b>(1,850)</b>	24,900 <b>(1,700)</b>	22,800 <b>(1,600)</b>	21,600 <b>(1,500)</b>		

All dimensions for reference only and are subject of change.

High Pressure to 65,000 psi (4,500 bar)

Ultra High Pressure to 152,000 psi (10,500 bar)

Medium Pressure

**Valve Actuators** 

**Ball Valves** to 21,000 psi (1,500 bar)

### Coned and threaded nipples

Maximator offers a line of coned and threaded ultra high pressure tube nipples in a variety of lengths for all standard tube sizes.

The coned and threaded ultra high pressure tube nipples are available in 316 stainless steel. See chart below for ordering information.

Special length coned and threaded nipples are available upon request. Consult Maximator for availability and price.



	Catalog Numbers are 316 Stainless Steel material  Length in. (mm)									Working Pressure
2.75" (69.85)	3" (76.2)	4" (101.6)	6" (152.4)	8" (203.2)	10" (254)	12" (304.8)	nection Type	0.D.		at 100°F psi (mm)
30N4H-2.75- 316-S0G	30N4H-3- 316-SOG	30N4H-4- 316-S0G	30N4H-6- 316-S0G	30N4H-8- 316-S0G	30N4H-10- 316-S0G	30N4H-12- 316-SOG	4HF	1/4	0.083 ( <b>2.11)</b>	30,000 <b>(2,070)</b>
	30N6H-3- 316-SOG	30N6H-4- 316-S0G	30N6H-6- 316-S0G	30N6H-8- 316-S0G	30N6H-10- 316-S0G	30N6H-12- 316-S0G	6HF	3/8	0.125 <b>(3.17)</b>	30,000 <b>(2,070)</b>
		30N9H-4- 316-S0G	30N9H-6- 316-S0G	30N9H-8- 316-S0G	30N9H-10- 316-SOG	30N9H-12- 316-SOG	9HF	9/16	0.188 <b>(4.77)</b>	30,000 <b>(2,070)</b>

Standard nipples are not supplied with glands and collars, see Fittings on page 6 for these components. See adjacent Tubing page 14, for pressure/temperature rating chart.

All dimensions are for reference only and subject to change.