



VALVE MODIFICATION SERVICES

ISO 9001:2015 CERTIFIED

## SERVICES

**GEAR OPERATORS** - Size Unlimited

**TESTING CAPABILITIES**

- API 598 - 1/2" - 2" FORGED
- API 598 - 2" - 24" RAISED FACE ENDS
- API 6D DURATIONS
- MSS SP-61

**PACKING & GASKET CHANGES**

**TRIM CHANGES** (Up to 24")

- STELLITE - HF, 316SS, A-20, HASTELLOY C

**BOLT CHANGES**

**ACID SHIELDS**

**CHAIN LOCKING DEVICES**

**TESTING EXTENDED BODY MODIFICATIONS**

- PIPE NIPPLES, BUTTWELD, ME/MNPT  
USING FORGED COMPONENTS

**CRYOGENIC MODIFICATION** - FORGED & CAST

**END CONNECTION MODIFICATIONS**

- BW SCHEDULE CHANGES
- RF TO BW
- RTJ TO RF
- SOCKETWELDING
- WELD ON FLANGES & NIPPLES
- MPE or IREB

**NON-DESTRUCTIVE EXAMINATIONS**

- RADIOGRAPHY
- LIQUID PENETRANT
- MAGNETIC PARTICLE
- ULTRA SONIC

## OUR SHOP



[www.valvemods.com](http://www.valvemods.com)  
[sales@valvemods.com](mailto:sales@valvemods.com)  
(832) 762-4820



connect with us

@valvemods



## Conversion Table

## Trim Material

	INCHES	MILLIMETERS
1/64	.0156	.3969
1/32	.0313	.7938
3/64	.0469	1.1906
1/16	.0625	1.5875
5/64	.0781	1.9844
3/32	.0938	2.3813
7/64	.1094	2.7781
1/8	.1250	3.1750
9/64	.1406	3.5719
5/32	.1563	3.9688
11/64	.1719	4.3656
3/16	.1875	4.7625
13/64	.2031	5.1594
7/32	.2188	5.5563
15/64	.2344	5.9531
1/4	.2500	6.3500
17/64	.2656	6.7469
9/32	.2813	7.1438
19/64	.2969	7.5406
5/16	.3125	7.9375
21/64	.3281	8.3344
11/32	.3438	8.7313
23/64	.3594	9.1281
3/8	.3750	9.5250
25/64	.3906	9.9219
13/32	.4063	10.3188
27/64	.4219	10.7156
7/16	.4375	11.1125
29/64	.4531	11.5094
15/32	.4688	11.9063
31/64	.4844	12.3031
1/2	.5000	12.7000

	INCHES	MILLIMETERS
33/64	.5156	13.0969
17/32	.5313	13.4938
35/64	.5469	13.8906
9/16	.5625	14.2875
37/64	.5781	14.6844
19/32	.5938	15.0813
39/64	.6094	15.4781
5/8	.6250	15.8750
41/64	.6406	16.2719
21/32	.6563	16.6688
43/64	.6719	17.0656
11/16	.6875	17.4625
45/64	.7031	17.8594
23/32	.7188	18.2563
47/64	.7344	18.6531
3/4	.7500	19.0500
49/64	.7656	19.4469
25/32	.7813	19.8438
51/64	.7969	20.2406
13/16	.8125	20.6375
53/64	.8281	21.0344
27/32	.8438	21.4313
55/64	.8594	21.8281
7/8	.8750	22.2250
57/64	.8906	22.6219
29/32	.9063	23.0188
59/64	.9219	23.4156
15/16	.9375	23.8125
61/64	.9531	24.2094
31/32	.9688	24.6063
63/64	.9844	25.0031
1	1.0000	25.4000

#	MATERIAL	SEAT	DISC	BACKSEAT	STEM
1	410	410	410	410	410
2	304	304	304	304	304
3	F310	310	310	310	310
4	H410	H410	H410	410	410
5	HF	STELLITE	STELLITE	410	410
5A	HF	Ni-Cr	Ni-Cr	410	410
6	410+Cu-Ni	Cu-Ni	410	410	410
7	410+H410	H410	H410	410	410
8	410+HF	STELLITE	410	410	410
8A	410+HF	Ni-Cr	410	410	410
9	MONEL	MONEL	MONEL	MONEL	MONEL
10	316	316	316	316	316
11	MONEL+HF	STELLITE	MONEL	MONEL	MONEL
12	316+HF	STELLITE	316	316	316
13	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20
14	ALLOY 20+HF	STELLITE	ALLOY 20	ALLOY20	ALLOY20
15	304+HF	STELLITE	STELLITE	304	304
16	316+HF	STELLITE	STELLITE	316	316
17	347+HF	STELLITE	STELLITE	347	347
18	ALLOY+HF	STELLITE	STELLITE	ALLOY 20	ALLOY 20

## Standards & Specifications

American Petroleum Institute	
API 594	CHECK VALVES: FLANGED, LUG, WAFER, AND BUTT-WELDING.
API 598	VALVE INSPECTION AND TESTING.
API 599	METAL PLUG VALVES-FLANGED THREADED AND WELDING ENDS.
API 600	BOLTED BONNET STEEL GATE VALVES FOR PETROLEUM AND NATURAL GAS INDUSTRIES. MODIFIED.
API 602	COMPACT STEEL GATE VALVES-FLANGED, THREADED, WELDING, AND EXTENDED-BODY END.
API 603	CORROSION-RESISTANT, BOLTED BONNET GATE VALVES - FLANGED AND BUTT-WELDING ENDS.
API 607	FIRE TEST FOR SOFT-SEATED QUARTER TURN VALVES.
API 608	METAL BALL VALVES-FLANGED AND BUTT-WELDING ENDS.
API 609	BUTTERFLY VALVES: DOUBLE FLANGED, LUG- AND WAFER-TYPE.
API 622	TYPE TESTING OF PROCESS VALVES PACKING FOR FUGITIVE EMISSIONS.
API 6D	SPECIFICATIONS FOR PIPELINE VALVES.
API 6FA	SPECIFICATIONS FOR FIRE TEST VALVES
American Society for Mechanical Engineers	
ASME B16.10	FACE-TO-FACE AND END-TO-END DIMENSIONS OF VALVES.
ASME B16.11	FORGED FITTINGS, SOCKET-WELDINGS AND THREADED.
ASME B16.25	BUTTWELDING ENDS.
ASME B16.32	VALVES - FLANGED, THREADED AND WELDING END.
ASME B16.47	LARGE DIAMETER STEEL FLANGES NPS 26 TO NPS 60.
ASME B16.5	PIPE FLANGES AND FLANGED FITTINGS NPS 1/2 TO NPS 24.
ASME B31.1	POWER PIPING AND PROCESS PIPING.
ASME B31.3	PROCESS PIPING.
National Association of Corrosion Engineers	
MR0103	MATERIALS RESISTANT TO SULFIDE STRESS CRACKING IN CORROSIVE PETROLEUM REFINING. (DOWN STREAM).
MR0175	SULFIDE STRESS CRACKING RESISTANT METALLIC MATERIALS FOR OILFIELD EQUIPMENT. (UP STREAM).
MR0175/ISO15156	MATERIALS FOR USE IN H <sub>2</sub> S - CONTAINING ENVIRONMENTS IN OIL AND GAS PRODUCTION.
<a href="http://www.valvemods.com">www.valvemods.com</a>	



[www.valvemods.com](http://www.valvemods.com)  
[sales@valvemods.com](mailto:sales@valvemods.com)  
 (832) 762-4820

ISO 9001:2015 CERTIFIED