

GAS LIFT



A variety of product & expertise to support the life of your well cradle to the grave.

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1-877-369-8886

KAIZEN WELL SOLUTIONS OFFERS

Expert design recommendations & support

Full line of down hole equipment, In addition to conventional, side pocket & annular mandrels

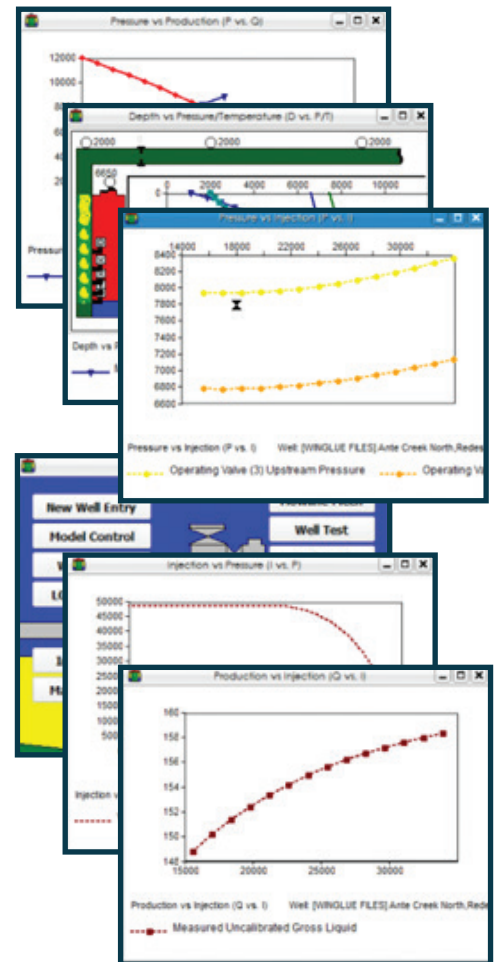
Sour or sweet applications

North American steel & manufacturing

WellTracer technology to help troubleshoot production issues

One-stop shop for downhole equipment and qualified installation technicians

WinGLUE Software for gas lift designs



BENEFITS OF GAS LIFT

Handles a variety of volume ranges

Low cost alternative to pumping

Effective in Deviated or Horizontal wells

Low environmental profile

Pumping units' greatest weakness is gas lifts' greatest strength - GAS!!

Life of well Installation

Operates well in high GLR wells

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SIDE POCKET MANDRELS TECHNICAL DATA

Tubing Size		Mandrel Pocket I.D.		Mandrel Body Design	Mandrel Series		Major O.D.		Minor O.D.		Drift		Rated Test Pressures								Latch Type	Kickover Tool						
													Standard Service				Sour Service											
													Internal Test		External Test		Internal Test		External Test				psi		bars		psi	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	psi	bars	psi	bars	psi	bars	psi	bars											
2.375	60.3	1.000	25.4	Oval	SPMO-1.0M	1-110121-X0-XXX	4.250	108	2.910	73.9	1.901	48.3	8,000	551.5	6,000	413.7	6,000	413.7	4,000	275.8								
					SPM-1.0M	1-111121-X0-XXX													5,000	344.7								
					SPMO-1.0F	1-110111-X0-XXX													4,000	275.8								
					SPMO-1.0M-CI	1-110125-X0-XXX													5,000	344.7								
					SPMO-1.0F-CI	1-110115-X0-XXX													4,000	275.8								
					SPMO-1.0R	1-110251-X0-XXX													4,125	104.8								
		1.500	38.1	Oval	SPMO-1.0R	1-110271-X0-XXX	4,500	114.3	N/A	N/A	11,500	792.9	11,500	792.9	9,500	655.0	9,500	655.0	4,000	275.8								
					SPMO-1.0R	1-110221-X0-XXX	3,850	97.8			13,500	930.2	13,500	930.2	12,000	827.4	11,000	758.4										
					SPM-1.0R	1-111211-X0-XXX	3,750	95.3			6,000	413.7	3,600	248.2	5,000	344.7	3,300	227.5										
					SPM-1.0R	1-111211-X0-XXX	3,750	95.3			6,000	413.7	4,750	327.5	5,000	344.7	4,000	275.8										
					SPM-1.5M	1-211121-X0-XXX	4,750	120.7			8,000	551.5	6,000	413.7	6,000	413.7	4,000	275.8										
					SPMO-1.5M	1-210121-X0-XXX	4,750	120.7			8,000	551.5	6,000	413.7	6,000	413.7	4,000	275.8										
2.875	73.0	1.000	25.4	Oval	SPMO-1.0M	1-120121-X0-XXX	4.750	120.7	4.000	101.6	2.347	59.6	8,000	551.5	6,000	413.7	6,000	413.7	4,000	275.8								
					SPM-1.0M	1-121121-X0-XXX													5,000	344.7								
					SPMO-1.0F	1-120111-X0-XXX													4,000	275.8								
					SPMO-1.0M-CI	1-120125-X0-XXX													4,500	114.3	5,000	344.7						
					SPMO-1.0F-CI	1-120115-X0-XXX													4,500	114.3	5,000	344.7						
					SPMO-1.0R	1-120261-X0-XXX													5,000	127.0	13,500	930.8	13,500	930.8	12,000	827.4	11,000	758.4
					SPMO-1.0R	1-120251-X0-XXX													4,750	120.7	11,000	758.4	9,000	620.5	9,000	620.5	7,500	517.1
					SPMO-1.0R-CI	1-120255-X0-XXX													5,250	133.4	11,000	758.4	9,000	620.5	9,000	620.5	7,500	517.1
					SPMO-1.0R	1-120231-X0-XXX													4,500	114.3	9,700	668.8	6,300	434.4	7,800	537.8	5,500	379.2
		1.500	38.1	Oval	SPMO-1.5M	1-220121-X0-XXX	5.500	139.7	4.593	116.7	8,000	551.5	6,000	413.7	6,000	413.7	4,000	275.8										
					SPM-1.5M	1-221121-X0-XXX					7,500	517.1	5,000	344.7														
					SPMO-1.5M-WF	1-220124-X0-XXX					7,500	517.1	5,000	344.7														
					SPMO-1.5F	1-220111-X0-XXX					7,500	517.1	5,000	344.7														
					SPMO-1.5F-WF	1-220114-X0-XXX					7,500	517.1	5,000	344.7														
					SPMO-1.5R	1-220251-X0-XXX					5,500	139.7	N/A	N/A	11,500	792.9	9,500	655.0	9,500	655.0	8,000	551.5						

CONVENTIONAL MANDRELS TECHNICAL DATA

CM-1.0		
Valve Size	2.375" O.D.	2.875" O.D.
1.0"	2" Nominal	2.5" Nominal
API EUE	A - 3.783	A - 4.335
	B - 3.706	B - 4.231
	C - 2.251	C - 2.501
	D - 3.063	D - 3.668
	E - 2.910	E - 3.460
API NUE	A - 3.689	A - 4.251
	B - 3.586	B - 4.119
	C - 2.251	C - 2.501
	D - 2.875	D - 3.500
	E - 2.670	E - 3.235

CM-1.5			
Valve Size	2.375" O.D.	2.875" O.D.	3.500" O.D.
1.5"	2" Nominal	2.5" Nominal	3" Nominal
API EUE	A - 4.283	A - 4.835	A - 5.562
	B - 4.206	B - 4.731	B - 5.427
	C - 2.751	C - 3.001	C - 3.313
	D - 3.063	D - 3.668	D - 4.500
	E - 2.910	E - 3.460	E - 4.230
API NUE	A - 4.189	A - 4.751	A - 5.262
	B - 4.086	B - 4.619	B - 5.152
	C - 2.751	C - 3.001	C - 3.313
	D - 2.875	D - 3.500	D - 4.250
	E - 2.670	E - 3.235	E - 4.030

- A - Lug to Collar
- B - Lug to Collar - Special Clearance
- C - Lug to Center Line of Tubing
- D - Collar Diameter
- E - Collar Diameter - Special Clearance



Additional specifications available. Please contact Kaizen Well Solutions for more details.