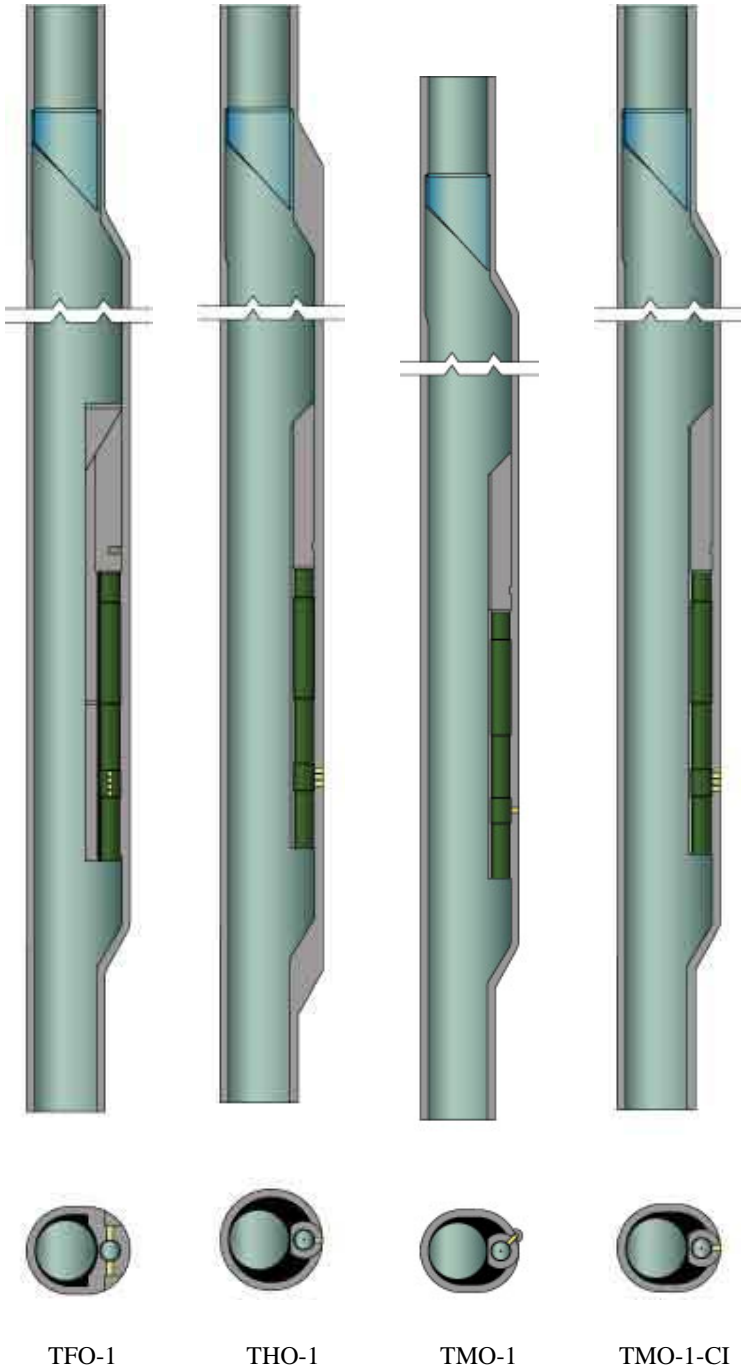


# Side Pocket Gas Lift Mandrels



Materials available for manufacture are AISI 4130, 13CR, S13CR, and 9CR-1MO steels. Tejas designed their side pocket mandrels for use with top mounted ring type latches or bottom collet style latches for 1" valves. Available with different porting configurations, the mandrels can handle a wide variety of configurations.



Tejas offers both side pocket and conventional mandrels. Side pocket mandrels are available in sizes from 2-3/8" to 4-1/2" tubing and they will work with industry standard 1" and 1-1/2" O. D. gas lift valves. Side pocket mandrels have a position orienting sleeve and tool guard to insure precise alignment of the kick-over tool with the pocket.

## Side Pocket Mandrel Specifications

MANDREL SERIES	ASSEMBLY NUMBER	VALVE O.D.	LATCHES	2-3/8"			2-7/8"		
MANDREL TYPE				MAJOR O.D.	MINOR O.D.	DRIFT DIA.	MAJOR O.D.	MINOR O.D.	DRIFT DIA.
TFO-1 TFO-1-EC TFO-1-E TFO-1-WF		1"	TBK-2 TBEK-2 COLLET	4.250	2.910	1.901	4.750	4.000	2.347
TFO-1-CI		1"	TBK-2 TBEK-2 COLLET	4.250	3.410	1.901	4.750	4.500	2.347
TMO-1 TMO-1-EC TMO-1-E TMO-1-WF			TBK-2 TBEK-2 COLLET	4.250	2.910	1.901	4.750	4.000	2.347
TMO-1-C1		1"	TBK-2 TBEK-2 COLLET	4.250	3.410	1.901	4.750	4.500	2.347
TM-1 TM-1-EC TM-1-E TM-1-WF		1"	TBK-2 TBEK-2 COLLET	4.250	2.910	1.901	4.750	4.000	2.347
TM-1-CI		1"	TBK-2 TBEK-2 COLLET	4.250	3.410	1.901	4.750	4.500	2.347
THO-1		1"	TBK-2 TBEK-2 COLLET	4.500	N/A	1.901	5.000	N/A	2.347
THO-1-CI		1"	TBK-2 TBEK-2 COLLET	5.000	N/A	1.901	5.500	N/A	2.347
TRSCO-1		1"	TBK-2 TBEK-2 COLLET	4.125	N/A	1.901	4.750	N/A	2.347
TRSCO-1-CI		1"	TBK-2 TBEK-2 COLLET	4.625	N/A	1.901	5.250	N/A	2.347
TUO-1		1"	TBK-2 TBEK-2 COLLET	3.850	N/A	1.901	4.500	N/A	2.347
TU2-1		1"	TBK-2 TBEK-2 COLLET	3.750	N/A	1.901	N/A	N/A	N/A

## Side Pocket Mandrel Specifications continued

MANDREL SERIES	ASSEMBLY NUMBER	VALVE O.D.	LATCHES	3-1/2			4-1/2		
MANDREL TYPE				MAJOR O.D.	MINOR O.D.	DRIFT DIA.	MAJOR O.D.	MINOR O.D.	DRIFT DIA.
TFO-1 TFO-1-EC TFO-1-E TFO-1-WF		1"	TBK-2 TBEK-2 COLLET	5.313	4.125	2.867	N/A	N/A	N/A
TFO-1-C1		1"	TBK-2 TBEK-2 COLLET	5.313	4.500	2.867	N/A	N/A	N/A
TMO-1 TMO-1-EC TMO-1-E TMO-1-WF			TBK-2 TBEK-2 COLLET	5.313	4.125	2.867	N/A	N/A	N/A
TMO-1-C1		1"	TBK-2 TBEK-2 COLLET	5.313	4.500	2.867	N/A	N/A	N/A
TM-1 TM-1-EC TM-1-E TM-1-WF		1"	TBK-2 TBEK-2 COLLET	5.313	4.125	2.867	N/A	N/A	N/A
TM-1-CI		1"	TBK-2 TBEK-2 COLLET	5.313	4.500	2.867	N/A	N/A	N/A
THO-1		1"	TBK-2 TBEK-2 COLLET	5.750	N/A	2.867	N/A	N/A	N/A
THO-1-CI		1"	TBK-2 TBEK-2 COLLET	6.250	N/A	2.867	N/A	N/A	N/A
TRSCO-1		1"	TBK-2 TBEK-2 COLLET	5.500	N/A	2.867	6.625	N/A	3.833
TRSCO-1-CI		1"	TBK-2 TBEK-2 COLLET	6.000	N/A	2.867	7.125	N/A	3.833
TUO-1		1"	TBK-2 TBEK-2 COLLET	N/A	N/A	N/A	6.005	N/A	3.833
TU2-1		1"	TBK-2 TBEK-2 COLLET	N/A	N/A	N/A	N/A	N/A	N/A

## Side Pocket Mandrel Specifications continued

MANDREL SERIES	ASSEMBLY NUMBER	VALVE O.D.	LATCHES	2-3/8"			2-7/8"		
				MAJOR O.D.	MINOR O.D.	DRIFT DIA.	MAJOR O.D.	MINOR O.D.	DRIFT DIA.
TFO-2 TFO-2-EC TFO-2-E TFO-2-WF		1-1/2"	RK RKP	4.750	4.000	1.901	5.500	4.593	2.347
TFO-2-C1		1-1/2"	RK RKP	4.750	4.500	1.901	5.500	5.093	2.347
TMO-2 TMO-2-EC TMO-2-E TMO-2-WF		1-1/2"	RK RKP	4.750	4.000	1.901	5.500	4.593	2.347
TMO-2-C1		1-1/2"	RK RKP	4.750	4.500	N/A	5.500	5.093	2.347
TM-2 TM-2-EC TM-2-E TM-2-WF		1-1/2"	RK RKP	4.750	4.000	N/A	5.500	4.593	2.347

MANDREL SERIES	ASSEMBLY NUMBER	VALVE O.D.	LATCHES	2-3/8"			2-7/8"		
				MAJOR O.D.	MINOR O.D.	DRIFT DIA.	MAJOR O.D.	MINOR O.D.	DRIFT DIA.
TFO-2 TFO-2-EC TFO-2-E TFO-2-WF		1-1/2"	RK RKP	4.750	4.000	1.901	5.500	4.593	2.347
TFO-2-C1		1-1/2"	RK RKP	4.750	4.500	1.901	5.500	5.093	2.347
TMO-2 TMO-2-EC TMO-2-E TMO-2-WF		1-1/2"	RK RKP	4.750	4.000	1.901	5.500	4.593	2.347
TMO-2-C1		1-1/2"	RK RKP	4.750	4.500	N/A	5.500	5.093	2.347
TM-2 TM-2-EC TM-2-E TM-2-WF		1-1/2"	RK RKP	4.750	4.000	N/A	5.500	4.593	2.347

### Side Pocket Mandrel Specifications continued

MANDREL SERIES	ASSEMBLY NUMBER	VALVE O.D.	LATCHES	5-1/2		
				MAJOR O.D.	MINOR O.D.	DRIFT DIA.
TFO-2 TFO-2-EC TFO-2-E TFO-2-WF		1-1/2"	RK RKP	8.015	6.875	4.653
TFO-2-C1		1-1/2"	RK RKP	8.015	7.375	4.653
TMO-2 TMO-2-EC TMO-2-E TMO-2-WF		1-1/2"	RK RKP	8.015	6.875	4.653
TMO-2-C1		1-1/2"	RK RKP	8.015	7.375	4.653
TM-2 TM-2-EC TM-2-E TM-2-WF		1-1/2"	RK RKP	8.015	6.875	4.653

### SIDE POCKET MANDREL TEST PRESSURES

Mandrel Series Type	Assembly Number	Tubing Size	Test Pressures				Mandrel Series Type	Assembly Number	Tubing Size	Test Pressures			
			Standard		Sour					Standard		Sour	
			Internal	External	Internal	External				Internal	External	Internal	External
TFO-1		2 3/8"	8000	6000	6000	4000	TFO-2		2 7/8"	7500	6000	6000	5000
TFO-1		2 7/8"	8000	6000	6000	4000	TFO-2		3 1/2"	8000	6000	6000	4000
TFO-1		3 1/2"	8000	6000	6000	4000	TFO-2		4 1/2"	8000	6000	6000	4000
TMO-1		2 3/8"	8000	6000	6000	4000	TMO-2		2 7/8"	7500	6000	6000	5000
TMO-1		2 7/8"	8000	6000	6000	4000	TMO-2		3 1/2"	8000	6000	6000	4000
TMO-1		3 1/2"	8000	6000	6000	4000	TMO-2		4 1/2"	8000	6000	6000	4000
TM-1		2 3/8"	8000	6000	6000	4000	TM-2		2 3/8"	7500	6000	6000	5000
TM-1		2 7/8"	8000	6000	6000	4000	TM-2		2 7/8"	8000	6000	6000	4000
TM-1		3 1/2"	8000	6000	6000	4000	TM-2		3 1/2"	8000	6000	6000	4000
THO-1		2 3/8"	13500	13500	12000	11000	THO-2		4 1/2"	12000	12000	10000	10000
THO-1		2 7/8"	13500	13500	12000	11000	THO-2-RA		4 1/2"	12000	12000	10000	10000
THO-1		3 1/2"	13500	13500	12000	11000							
TRSCO-1		2 3/8"	11500	11500	9500	9500	TMOR-2		2 7/8"	12500	12500	10000	10000
TRSCO-1		2 7/8"	11000	9000	9000	7500	TMOR-2		3 1/2"	12500	12500	10000	10000
TRSCO-1		3 1/2"	11000	9000	9000	8000	TMOR-2		4 1/2"	11500	11500	9200	9200
TRSCO-1		4 1/2"	12000	10000	9500	8500	TMOR-2		5 1/2"	11500	11500	9200	9200
TUO-1		2 3/8"	6000	3500	5000	3300	TFO-1-CI		2 3/8"	6000	6000	6000	4000
TUO-1		2 7/8"	9700	6300	7800	5500	TFO-1-CI		2 7/8"	6000	6000	6000	4000
TUO-1		4 1/2"	7400	5700			TFO-1-CI		3 1/2"	6000	6000	6000	4000
TU2-1		2 3/8"	6000	4750	5000	4000	TMO-1-CI		2 3/8"	6000	6000	6000	4000
TU2-1		2 3/8"	6000	4750	5000	4000	TMO-1-CI		2 7/8"	6000	6000	6000	4000
TMO-1-SC		2 7/8"	8000	6000	6000	4000	TMO-1-CI		3 1/2"	6000	6000	6000	4000

