



O'DRILL★MCM

HOUSTON, TEXAS

The Choice is yours...

Engineered for High Performance



Available in all sizes & pressure ratings

- Hammer Unions
- Integral Pup Joints
- Integral Fittings
- Seal-O-Grip Unions
- Flexible / Hinged Lever Couplings



ISO
9001:2015
Certified

Heavy Duty

HAMMER UNIONS



Heavy Duty Hammer Unions

When Quality counts...!

FIG 100



**BLACK NUT
YELLOW SUBS**

**1000 PSI (69 bar) CWP
LOW PRESSURE**

- Available in 2" thru 8"
- Recommended for low Pressure
- Manifolds and general service

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
2"	3 ^{5/8"}	2 ^{29/32"}	2.38
2 ^{1/2"}	4 ^{9/32"}	3 ^{5/8"}	3.60
3"	5 ^{1/8"}	4"	6.36
4"	5 ^{3/4"}	4 ^{11/16"}	10.45
6"	6 ^{7/8"}	6 ^{7/8"}	20.20
8"	7 ^{5/16"}	7 ^{13/16"}	27.70

FIG 200



**BLUE NUT
GRAY SUBS**

**2000 PSI (69 bar) CWP
LOW TO MEDIUM PRESSURE**

- Available 1" thru 10" in threaded butt weld schedule 40 & 80
- Excellent for low pressure Rig Piping
- Medium Pressure air, water, oil, and gas service.

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
1"	2 ^{19/32"}	2"	0.80
1 ^{1/4"}	2 ^{25/32"}	2 ^{5/32"}	1.07
1 ^{1/2"}	2 ^{29/32"}	2 ^{13/32"}	1.07
2"	3 ^{1/4"}	2 ^{29/32"}	2.38
2 ^{1/2"}	4 ^{1/4"}	3 ^{5/8"}	4.50
3"	4 ^{17/32"}	4 ^{1/4"}	6.90
4"	4 ^{15/16"}	5"	9.14
6"	6 ^{25/32"}	6 ^{1/2"}	19.30
8"	7 ^{5/16"}	7 ^{13/16"}	29.10
10"	9 ^{3/32"}	9 ^{1/16"}	41.36

FIG 206



**BLUE NUT
GRAY SUBS**

**2000 PSI (138 bar) CWP
LOW TO MEDIUM PRESSURE**

- Available 1" thru 10" in threaded and butt weld schedule 40 and 80
- General purpose union
- O Ring in metal sub improves sealing and extends service life
- Cup and cone provide zero clearance against extrusion

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
1"	2 ^{19/32"}	2"	0.80
1 ^{1/4"}	2 ^{25/32"}	2 ^{5/32"}	1.07
1 ^{1/2"}	2 ^{29/32"}	2 ^{13/32"}	1.07
2"	3 ^{1/4"}	2 ^{29/32"}	2.38
2 ^{1/2"}	4 ^{1/4"}	3 ^{5/8"}	4.50
3"	4 ^{17/32"}	4 ^{1/4"}	6.90
4"	4 ^{15/16"}	5"	9.10
6"	6 ^{25/32"}	6 ^{1/2"}	19.30
8"	7 ^{5/16"}	7 ^{13/16"}	29.10
10"	9 ^{3/32"}	9 ^{1/16"}	41.36

FIG 400



**BLACK NUT
RED SUBS**

**4000 PSI (276 bar) CWP
MEDIUM PRESSURE**

- Available in 2" thru 12" sizes.
- Available in LPT threaded.

SIZE	LENGTH		NUT RADIUS	WEIGHT Kg.
	TOTAL	CTR. BR.		
2"	5 ^{1/4"}	1 ^{1/4"}	3 ^{9/16"}	5.00
2 ^{1/2"}	6 ^{3/16"}	3/8"	4 ^{1/4"}	8.30
3"	6"	3/8"	4 ^{1/4"}	8.75
4"	8 ^{7/32"}	3/8"	5"	14.50
6"	11 ^{1/32"}	3/8"	6 ^{5/8"}	28.80
8"	11 ^{13/32"}	3/8"	7 ^{5/8"}	42.70
12"	10 ^{7/8"}	3/8"	10 ^{1/4"}	74.43

*Look and compare...
...we are your best choice!!!*

Call: 713 541-2020

FIG 602



**BLACK NUT
ORANGE SUBS**

6000 PSI (414 bar) CW PRESSURE

- Available in 1, 1 1/4, 2, 3, 4 & 5 inches in
- Lip type elastomer seal protects metal-metal seal and seal design reduces turbulence in the line.
- Used mainly in manifolds and mud services.

SIZE	LENGTH		NUT RADIUS	WEIGHT Kg.	LENGTH BUTT.WELD SCH.80
	TOTAL	CTR. BR.			
1"	3 ^{17/32"}	1/4"	2 ^{5/32"}	1.59	3 ^{17/32"}
1 1/4"	4 ^{29/32"}	1/4"	3 ^{7/32"}	4.54	4 ^{11/16"}
1 1/2"	4 ^{29/32"}	1/4"	3 ^{7/32"}	4.10	4 ^{11/16"}
2"	5 ^{1/4"}	1/4"	3 ^{3/4"}	5.90	5 ^{1/32"}
2 1/2"	6 ^{1/8"}	3/8"	4 ^{1/4"}	8.20	5 ^{1/8"}
3"	6 ^{1/4"}	3/8"	4 ^{1/2"}	10.45	5 ^{7/16"}
4"	8 ^{1/4"}	3/8"	5 ^{7/32"}	15.00	6 ^{1/16"}

FIG 1002



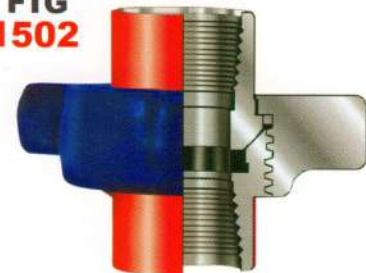
**RED NUT
BLUE SUBS**

10,000 PSI (690 bar) CW PRESSURE

- Available in 1" thru 4" - 10,000 psi.
- Designed for high pressure systems including truck mounted systems.
- Used primarily in cementing, fracturing & acidizing also used in high pressure systems.

SIZE	LENGTH		NUT RADIUS	WEIGHT Kg.	LENGTH BUTT.WELD SCH.80 XX HVY	
	TOTAL	CTR. BR.				
1"	3 ^{17/32"}	1/4"	2 ^{5/32"}	1.59	3 ^{17/32"}	-
1 1/4"	4 ^{7/8"}	1/4"	3 ^{7/32"}	4.54	-	-
1 1/2"	4 ^{7/8"}	1/4"	3 ^{7/32"}	4.10	4 ^{11/16"}	-
2"	5 ^{1/4"}	1/4"	3 ^{3/4"}	6.00	5 ^{1/32"}	-
2 1/2"	6 ^{1/8"}	3/8"	4 ^{1/4"}	7.95	5 ^{1/8"}	-
2 1/2" ^{EU}	5 ^{15/16"}	3/8"	4 ^{1/4"}	7.95	-	-
3"	6 ^{1/4"}	3/8"	4 ^{1/2"}	10.00	5 ^{3/8"}	5 ^{3/8"}
4"	8 ^{1/4"}	3/8"	5 ^{7/32"}	17.95	5 ^{11/16"}	-
5"	-	-	6 ^{1/4"}	25.90	5 ^{15/16"}	6 ^{1/8"}

FIG 1502



**BLUE NUT
RED SUBS**

15000 PSI (1,034 bar) CW PRESSURE

- Available in 1, 1 1/2, 2", 3" & 4" threaded, butt weld schedule 160 and XXH.
- Used mainly in choke and kill line, cementing, fracturing and testing.

SIZE	LENGTH		NUT RADIUS	WEIGHT Kg.	LENGTH BUTT.WELD XX HVY
	TOTAL	CTR. BR.			
1"	4 ^{3/8"}	1/4"	2 ^{3/4"}	3.82	-
2"	7"	1/4"	4"	9.54	6 ^{1/4"}
3"	7 ^{5/8"}	3/8"	4 ^{13/16"}	14.1	5 ^{1/4"}
4"	8 ^{1/2"}	1/2"	6 ^{1/16"}	34.0	-

APPLICATIONS CHART

Chart for Hammer Union selection by figure numbers, color key, pressure rating (PSI) and nominal pipe size application

Figure Number	Assembly Color Key Standard Service	Pressure Rating (PSI)				Nominal Pipe Size											
		Standard Service		Sour Gas Service		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
		Cold Working	Test	Cold Working	Test	25	32	40	50	65	80	100	125	150	200	250	300
100		1,000	1,500	n/a	n/a				•	•	•	•		•	•		
200		2,000	3,000	n/a	n/a	•	•	•	•	•	•	•					
206		2,000	3,000	n/a	n/a	•	•	•	•	•	•	•		•	•	•	
207		2,000	3,000	n/a	n/a						•	•		•	•	•	
300		2,000	3,000	n/a	n/a	•			•	•	•	•					
400		2,500	3,750	2,500	3,750								•	•	•	•	•
400		4,000	6,000	4,000	6,000				•	•	•	•					
600		6,000	9,000	n/a	n/a	•		•	•	•	•	•					
602		6,000	9,000	6,000	9,000	•	•	•	•	•	•	•					
1002		10,000	15,000	7,500	11,250	•	•	•	•	•	•	•	•	•			
1003		10,000	15,000	7,500	11,250				•	•	•	•					
1502		15,000	22,500	10,000	15,000	•		•	•	•	•	•					
2202		n/a	n/a	15,000	22,500				•	•	•	•					



O'DRILL★MCM



Pup Joints



O'Drill MCM offers a complete selection of pup joints up to 15,000 PSI in standard service and up to 10,000 PSI in sour gas service. These Pup Joints are available in 1" through 4" sizes with threaded or non-pressure seal threads in lengths up to 20 feet.

O'Drill MCM Integral Pup Joints are available in 2" and 3" sizes up to 15 feet. Please consult us for specific weights and dimensions.

Whether your service requirements run from economical water lines to the most severe abrasive service, you can count on running them through O'Drill MCM pup joints.

We sell for... Less!

1" 1502 INTEGRAL PUP JOINT 22,500TP

PART NO.	LENGTH	WT.
CPJ-I-1011502	1 ft. long	11
CPJ-I-1021502	2 ft. long	13
CPJ-I-1031502	3 ft. long	16
CPJ-I-1041502	4 ft. long	19
CPJ-I-1051502	5 ft. long	22
CPJ-I-1061502	6 ft. long	25
CPJ-I-1071502	7 ft. long	27
CPJ-I-1081502	8 ft. long	30
CPJ-I-1101502	10 ft. long	35
CPJ-I-1121502	12 ft. long	40
CPJ-I-1151502	15 ft. long	48
CPJ-I-1201502	20 ft. long	54

2" 1502 INTEGRAL PUP JOINT 22,500TP

PART NO.	LENGTH	WT.
CPJ-I-2011502	1 ft. long	23
CPJ-I-2021502	2 ft. long	30
CPJ-I-2031502	3 ft. long	37
CPJ-I-2041502	4 ft. long	44
CPJ-I-2051502	5 ft. long	52
CPJ-I-2061502	6 ft. long	59
CPJ-I-2071502	7 ft. long	66
CPJ-I-2081502	8 ft. long	74
CPJ-I-2101502	10 ft. long	88
CPJ-I-2121502	12 ft. long	102
CPJ-I-2151502	15 ft. long	122
CPJ-I-2201502	20 ft. long	157

3" 1502 INTEGRAL PUP JOINT 22,500TP

PART NO.	LENGTH	WT.
CPJ-I-3011502	1 ft. long	44
CPJ-I-3021502	2 ft. long	59
CPJ-I-3031502	3 ft. long	75
CPJ-I-3041502	4 ft. long	91
CPJ-I-3051502	5 ft. long	106
CPJ-I-3061502	6 ft. long	122
CPJ-I-3071502	7 ft. long	137
CPJ-I-3081502	8 ft. long	153
CPJ-I-3101502	10 ft. long	184
CPJ-I-3121502	12 ft. long	216
CPJ-I-3151502	15 ft. long	262
CPJ-I-3201502	20 ft. long	341

4" 1002 INTEGRAL PUP JOINT 15,000TP

PART NO.	LENGTH	WT.
CPJ-I-4011002	1 ft. long	54
CPJ-I-4021002	2 ft. long	78
CPJ-I-4031002	3 ft. long	100
CPJ-I-4041002	4 ft. long	124
CPJ-I-4051002	5 ft. long	147
CPJ-I-4061002	6 ft. long	170
CPJ-I-4071002	7 ft. long	193
CPJ-I-4081002	8 ft. long	216
CPJ-I-4101002	10 ft. long	262
CPJ-I-4121002	12 ft. long	308
CPJ-I-4151002	15 ft. long	377
CPJ-I-4201002	20 ft. long	492

Hinged Lever Coupling



Nominal Size	Pipe O.D.	Max Working Pressure (psi)	A	B	Deflection Degrees*	Weight (Lbs)
1"	1.315	300	2.40	3.75	2° - 45'	0.9
1.25"	1.660	300	2.76	4.00	2° - 1 0'	1.1
1.5"	1.900	300	2.95	4.65	1° - 45'	2.2
2"	2.375	300	3.39	4.76	1° - 31'	2.4
2.5"	2.875	300	3.62	5.91	1° - 15'	3.1
3"	3.500	300	4.69	6.42	1° - 2'	4.0

Nominal Size	Pipe O.D.	Max Working Pressure (psi)	A	B	Deflection Degrees*	Weight (Lbs)
4"	6.625	300	6.50	8.07	1° - 36'	5.9
5"	8.516	300	7.44	9.96	1° - 18'	10.8
6"	8.625	300	8.39	10.94	1° - 7'	12.8
8"	10.750	300	10.95	14.02	0° - 51'	20.5
10"	12.539	300	13.50	17.80	0° - 40'	28.0
12"	12.750	300	15.35	19.45	0° - 34'	62.0

* The listed deflection degrees are for standard roll-grooved pipe. Figures for standard cut-grooved pipe may be doubled.

Flexible Coupling



Nominal Size	Pipe O.D.	Max Working Pressure (psi)	A	B	Bolt Size	Weight (Lbs)
2"	2.375	1000	3.50	5.24	1/3 x 3	2.6
2.5"	2.875	1000	4.00	6.50	1/3 x 3	2.9
3"	3.500	1000	4.88	6.73	1/3 x 3	3.3
4"	4.500	1000	6.18	8.38	5/8 x 3 1/2	4.6
5"	5.500	1000	7.32	9.50	5/8 x 3 1/2	6.8

Nominal Size	Pipe O.D.	Max Working Pressure (psi)	A	B	Bolt Size	Weight (Lbs)
6"	6.625	1000	8.24	11.38	3/4 x 4 3/4	8.1
8"	8.625	800	10.86	14.00	7/8 x 5 1/2	14.5
10"	10.750	800	13.50	16.73	1 x 6 1/2	22.4
12"	12.750	800	15.35	18.39	1 x 6 1/2	26.4



Corporate Office

165,000 sq. ft. of modern manufacturing facility on 10.5 acres

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