- ➤ Hammer unions range in size: 1" to 12"
- ➤ Maximum working pressure of 15,000 PSI
- ➤ Complete traceability
- ➤ Manufactured from forged steel
- ➤ ASTM A-105 for a working pressure less than 6000PSI
- ➤ AISI 4130 for a working pressure greater than or equal to 6000PSI
- Available with charpy testing



ı			PRESSURE RATING (PSI)				NORMAL PIPE SIZE													<ul> <li>INDICATES REDUCED CWP DUE TO PIPE SIZE</li> </ul>
	FIGURE NUMBER	ASSEMBLY KEY	STANDARD SERVICE		SOUR SERVICE		(IN)	1	1 1/4	1½	2	21/2	3	4	5	6	8	10	12	OR OTHER DESIGN FACTORS:
ı	NOTIBER		COLD WORKING	TEST	COLD WORKING	TEST	(MM)	25	32	40	50	65	80	100	100	125	150	250	300	
ı	40		400	600	400	600					т									FIGURE 300
ı								-	-						-	-	-			2" THREADED CWP 2000/6000 PSI
ı	50		500	750	500	750									Т					2" BUTT-WELD CWP 6000 PSI
ı	100		1000	1500	1000	1500					T/W	т	T/W	T/W	T/W	T/W	T/W			FIGURE 400 STANDARD SERVICE
ı	200		2000	3000	2000	3000		т	т	T/W	T/W	т	T/W	T/W	T/W	T/W	T/W	T/W	П	6", 8" , 10", & 12" CWP 2500 / 5000 PSI
	201		2000	3000	2000	3000					Т								П	FIGURE 1002 STANDARD SERVICE
	206		2000	3000	2000	3000		т	т	T/W	T/W	т	T/W	T/W	T/W	T/W	T/W	T/W		5" THREADED CWP 5000 / 7500 PSI
	207		2000	3000	2000	3000							T/W	T/W		T/W			П	5"& 6" BUTT-WELD CWP 7500 / 11250 PSI
	211		2000	3000	2000	3000					т									FIGURE 1002 SOUR SERVICE
	300		2000	3000	N/A	N/A					•								П	<b>5"&amp; 6"</b> BUTT-WELD CWP 5000 / 7500 PSI
	301		3000	3000	N/A	N/A					т									FIGURE 1003 STANDARD SERVICE
	400		4000	6000	4000	6000					т		т	T/W		•	•	•	•	4"&5" BUTT-WELD CWP 7500 / 11250 PSI
	600		6000	9000	N/A	N/A					т									FIGURE 1003 SOUR SERVICE
	602		6000	9000	6000	9000		T/W		T/W	T/W		T/W	T/W					Н	4"&5" BUTT-WELD CWP 5000 / 7500 PSI
	1002		10000	15000	7500	11250		Т			T/W		T/W	T/W	•	•			П	TTHREADED
	1003		10000	15000	7500	11250							w	•	•				П	W BUTT-WELD  T/W THREADED & BUTT-WELD
	1004		10000	15000	7500	11250										w				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	1502		15000	22500	10000	15000		Т		т	T/W	Т	T/W	T/W	w	w			$\forall$	
	2202		N/A	N/A	15000	22500				$\vdash$	w		w				$\vdash$		H	
	_		-	-			-			-				-				-		

#### FIGURE 40

Recommended for air, water, oil or gas service to 400 PSI

6000 9000 6000 9000

Available in threaded

#### FIGURE 50

- Recommended for air, water, oil or gas service to 500 PSI
- Available in threaded
- Available in bronze, based on application

#### FIGURE 100

- Cold working pressure 1,000 PSI
- ▶ Low pressure union
- Manifold & general service

#### FIGURE 200

- Cold working pressure 2,000 PSI
- General purpose union
- Available in threaded & butt weld

#### FIGURE 206

- Cold working pressure 2,000 PSI
- O-Ring in metal sub sealing extends life
- Cup and cone provide "zero clearance against extrusion"
- Available in threaded & butt weld > All sizes available in sour service
- Available socketweld unions in 2", 3", 4", & 6"

# FIGURE 207

- Cold working pressure 2,000 PSI
- Manifold and blanking the end of line 'O' ring cap provides leak-free seal
- Connection cap can be tapped for pressure gauge or valve
- Available in threaded & butt weld

# FIGURE 300

- Cold working pressure 2,000 PSI or 6000PSI 'Flat Face' design facilitates straight breakout of connected
- components such as valve or fittings for repair or inspection
- Moderate vacuum service insulated unions available

# FIGURE 400

- > 2" to 4" sizes CWP is 4,000PSI
- ▶ 6" to 12" sizes CWP is 2,500PSI Mainly used for manifold pumping and mud pumping

#### FIGURE 602 ➤ Cold working pressure - 6,000 PSI

- ➤ Lip type elastomer seal protects metal-to-metal designed to
- reduce turbulence in the line Usage mainly in manifold and mud services
- Available with non-pressure thread sealing ends
- **FIGURE 1002**

# Cold working pressure - 10,000 PSI

- ▶ Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- ▶ 5" and 6" butt-weld are 7,500 PSI for standard service ▶ 5" and 6" butt-weld are 5,000 PSI for sour service
- **FIGURE 1003**

# Cold working pressure - 10,000 PSI

- Misaligning unions are used in high pressure applications where the lines are not aligned
- ➤ 5" is 7,500 PSI for standard service ▶ 5" is 5,000 PSI for sour service
- **FIGURE 1004**
- Cold working pressure 10,000 PSI

# ➤ Field replaceable lip type elastomer seal protects

- secondary metal-to-metal seal > Available in forged steel for butt weld connections
- ➤ Schedule XXH
- **FIGURE 1502**
- Cold working pressure 15,000 PSI ➤ Field replaceable lip type elastomer seal protects
- non-pressure thread sealing ends
- > Available in threaded, welded, butt weld and

secondary metal-to-metal seal

- **FIGURE 2202**
- ➤ Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- Used in sour gas services ➤ Meets Nace MR-01-75 standards

▶ Butt-weld Schedule XXH only

> Cold working pressure - 15,000 PSI



