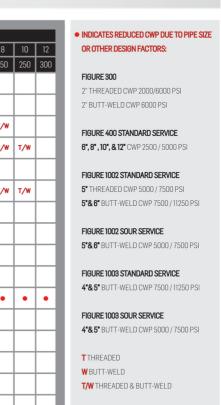


- ➤ Hammer unions range in size: 1" to 12"
- ➤ Maximum working pressure of 15,000 PSI
- Complete traceability
- ➤ Manufactured from forged steel
- ➤ ASTM A-105 for a working pressure less than 6000PSI
- ➤ AISI 4130 for a working pressure greater than or equal to 6000PSI
- ➤ Available with charpy testing



-	ASSEMBLY KEY	I KLOSOKE KATINO (I SI)				NONFIAL FIFE SIZE												- INDIO/TIEOTREDOCEDOTTI DOE	
FIGURE NUMBER		STANDAR	D SERVICE	SOUR SERVICE		(IN)	1	14	1½	2	2½	3	4	5	6	8	10	12	OR OTHER DESIGN FACTORS:
		COLD WORKING	TEST	COLD WORKING	TEST	(MM)	25	32	40	50	65	80	100	100	125	150	250	300	
40		400	600	400	600					т									FIGURE 300
_						-	-		-	-			-						2" THREADED CWP 2000/6000 F
50		500	750	500	750									Т					2" BUTT-WELD CWP 6000 PSI
100		1000	1500	1000	1500					T/W	т	T/W	T/W	T/W	T/W	T/W			FIGURE 400 STANDARD SERVICE
200		2000	3000	2000	3000		т	т	T/W	T/W	т	T/W	T/W	T/W	T/W	T/W	T/W		6", 8" , 10", & 12" CWP 2500 / 5000
201		2000	3000	2000	3000					т									
_					2000														FIGURE 1002 STANDARD SERVICE
206		2000	3000	2000	3000		Т	T	T/W	T/W	Т	T/W	T/W	T/W	T/W	T/W	T/W		5" THREADED CWP 5000 / 7500 5"& 6" BUTT-WELD CWP 7500 / 1
207		2000	3000	2000	3000							T/W	T/W		T/W				5 & 6 BOTT-WELD CWP 1300/1
211	**********	2000	3000	2000	3000					т									FIGURE 1002 SOUR SERVICE
300		2000	3000	N/A	N/A					•									5"& 6" BUTT-WELD CWP 5000 / 7
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 / 1
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						4"& 5" BUTT-WELD CWP 5000 /
						-	<u> </u>		1/"	1/"		H	H						TTHREADED
1002		10000	15000	7500	11250		Т			T/W		T/W	T/W	•	•				W BUTT-WELD
1003		10000	15000	7500	11250							w	•	•					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				
2202		N/A	N/A	15000	22500					w		w							
AG		6000	9000	6000	9000					T									



#### FIGURE 40

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

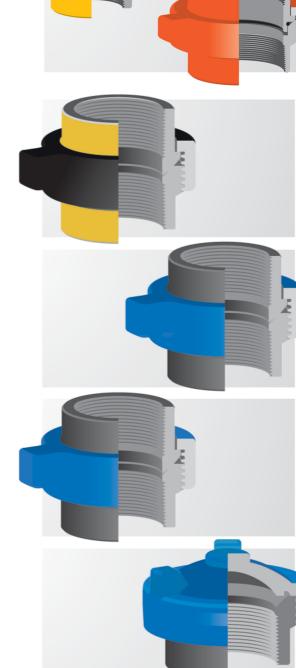
# Cold working pressure - 10,000 PSI

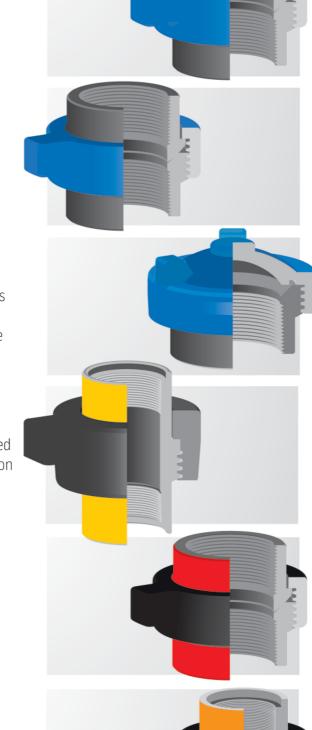
- Misaligning unions are used in high pressure applications where the lines are not aligned
- ▶ 5" is 7.500 PSI for standard service ➤ 5" is 5,000 PSI for sour service
- **FIGURE 1004** Cold working pressure - 10,000 PSI
- secondary metal-to-metal seal ➤ Available in forged steel for butt weld connections
- ➤ Schedule XXH

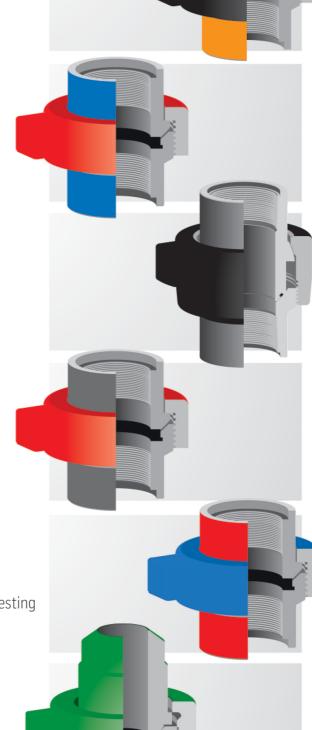
▶ Field replaceable lip type elastomer seal protects

- **FIGURE 1502**

- Cold working pressure 15,000 PSI ➤ Field replaceable lip type elastomer seal protects
- secondary metal-to-metal seal ➤ Used mainly in choke / kill lines, cementing, fracturing / testing
- > Available in threaded, welded, butt weld and non-pressure thread sealing ends
- **FIGURE 2202**
- Cold working pressure 15,000 PSI ➤ Field replaceable lip type elastomer seal protects
- secondary metal-to-metal seal Used in sour gas services
- ➤ Meets Nace MR-01-75 standards







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