

Hammer Unions

Material

DINGLI unions are manufactured from steel forgings suing materials appropriate to specific pressure ratings.

End Connections

DINGLI unions are available in a choice of end connections. API line pipe threads are standard. Butt weld and socket weld ends can be provided.

Sour Service

Sour service is available and all H2S service parts of DINGLI unions conform to the latest NACE specifications.

Low Temperature Service

DINGLI unions can be supplied for low temperature applications with suitable impact value testing.

Interchangeability

All DINGLI union components of the same size and figure are WECO interchangeable.

All DINLGI union nuts have 3 hammer lugs.

Hammer Union Quick Reference Chart

Asse	mbly	Pi	ressure	Rating(PSI)		Nominal Pipe Size(inch.mm)											
Colour Key for Standard Service		Standard Sour Gas Service Service			1/8	11/47	11/23	207	21/20	385	478	588	68	877	10	12	
		Cold Working	Test	Cold Working	Test	25	32	40	50	65	80	100	125	150	200	250	300
Fig. N	o.																
50	-	500	750	NA	NA							1	1				
100	-	1'000	3'000	NA.	NA				1	1	1	1		1	1		
200	-	2'000	3'000	NA.	NA	4	4	1	1	1	1	1		1	4		
206	-	2'000	3'000	NA	NA.	1	1	4	1	1	4	1	4	1	V	1	4
207	-	2'000	3,000	NA.	NA				m		1	1		V			
211	-	2'000	3'000	NA.	NA		4	4	1	1	1	1					
400	-	2'500	3'750	2'500	3'750									V	1		1
400	-	4'000	6,000	4'000	6'000				1	1	V	1					
600	=	4'000	6'000	NA.	NA				1	1	1	1					
602	-	6,000	9'000	6'000	9,000	1		1	4	4	4	4	V				
1002	-	10'000	15'000	7'500	12'000	1	1	4	1	1	1	1	1			-	
1003	-	10'000	15'000	7'500	12'000				4		1	4	1				
1502	-	15'000	75'000	10'000	15'000	1			1		1	1					
2002	-	20'000	75'000	NA:	NA.				4		1	1					
2202	-	NA	NA	15'000	22'500				1		1	V					

Frac Subs/Hose Unions













FIG 50 UNION

500 PSI CWP



Recommended for air, Water, oil or gas service to 500 PSI NSCWP. Standard subs are threaded for API line pipe.

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
4"	6"	5 ^{1/8*}	12.5
5"	5"	5 ^{1/4*}	10.00

FIG 100 UNION

1'000 PSI CWP



Recommended for air, water, oil, or gas service to 1'000 PSI NSCWP. Standard subs are threaded for API line pipe and are WECO interchangeable. Also available with butt weld ends.

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
2"	3 ^{5/8} *	2 ^{29/32*}	2.38
21/2*	49/32"	2 ^{5/8} °	3.60
3"	5 ^{1/8*}	4"	6.36
4"	5 ^{3/4*}	411/16*	10.45
6"	6 ^{7/8*}	6 ^{7/8} "	20.20
8"	7 ^{5/16} "	713/16*	27.70

FIG 200 UNION

2'000 PSI CWP



Recommended for air, water, oil, or gas service to 2000 PSI NSCWP. A union of great utility meeting most requirements in the medium pressure ranges. Precision seating surfaces assure dependable pressure seal. Standard subs are threaded for API line pipe and are WECO interchangeable. Sizes of 2" and above also available with butt weld end connections.

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
1"	2 ^{19/32"}	2"	0.80
11/4	2 ^{25/32} "	2 ^{5/32} "	1.07
11/2"	2 ^{29/32} "	213/32*	1.07
2"	31/4"	2 ^{29/32*}	2.38
21/2*	41/4"	3 ^{5/8"}	4.50
3"	417/32"	41/4"	6.90
4"	415/16"	5"	9.14
6"	6 ^{25/32"}	61/2"	19.30
8"	7 ^{5/16} "	713/16*	29.10
10"	93/32"	91/16"	41.36

FIG 206 UNION

2'000 PSI CWP



*All weights are approximate NSCWP-Non Shock Cold Working Pressure Recommended for air, water, oil or gas service to 2'000 PSI NSCWP. A O ring is mounted on the plain sub to provide an additional seal. Subs and nuts of the Fig.206union are interchangeable with the Fig.200 Union. Standard subs are threaded for API line pipe. Sizes of 2" and above also available with butt weld ends Connections.

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
1"	219/32"	2"	0.80
11/4"	2 ^{25/32} "	25/32"	1.07
11/2"	2 ^{29/32} "	213/32*	1.07
2"	31/4"	2 ^{29/32*}	2.38
21/2"	41/4"	3 ^{5/8"}	4.50
3"	417/32"	41/4"	6.90
4"	415/16"	5"	9.10
6"	6 ^{25/32} "	61/2"	19.30
8"	7 ^{5/16*}	713/16*	29.10
10"	93/32"	91/16"	41.36

FIG 207 UNION

2'000 PSI CWP



Recommended for air, water, oil, or gas service to 2'000 PSI NSCWP. A blanking cap with O ring seal provides an efficient and dependable closure. The threaded sub is interchangeable with Fig. 200 threaded sub. Also available with butt weld ends.

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
3"	33/4"	2 ^{3/4"}	4.45
4"	4 ^{45/64*}	317/32*	7.38
6"	5 ^{37/64}	4 ^{27/32*}	17.10

FIG 400 UNION

4'000 PSI CWP



Recommended for air, water, oil, or gas service to 4'000 PSI NSCWP. Utilizes precision ball and cone seating surfaces for easy alignment and dependable pressure seal. Sizes over 4" are rated to 2'500 PSI NSCWP, Also available with a lip-type seal in 2" size only as Fig. 402.

SIZE	LEN	GTH	NUT	WEIGHT
	TATAL	CTR.BR.	RADIUS	Kg.
2"	51/4*	1/4"	39/16"	5.00
21/2"	63/16"	3/8"	4 1/4"	8.30
3"	6"	3/8"	41/4	8.75
4"	87/32"	3/8"	5"	14.50
6"	1 11/32*	3/8"	6 ^{5/8*}	28.80
8"	11 13/32*	3/8"	7 ^{5/8*}	42.70
12"	107/8	3/8"	101/4"	74.43

FIG 600 UNION

6'000 PSI CWP



Recommended for air, oil, gas or steam service to 6'000 PSI NSCWP. Rugged and fast 2 pitch acme thread makes this the quickest union to make-up or break out(only two turns). The threaded sub is fitted with a bronze seat insert for added effectiveness in pressure sealing.

SIZE	LEN	GTH	NUT	WEIGHT	
	TATAL	CTR.BR.	RADIUS	Kg.	
1"	39/16"	1/4"	25/32"	1.59	
11/2*	4 ^{7/8*}	1/4"	37/32"	4.30	
2"	6 ^{7/16*}	1/4"	33/4*	6.80	
21/2"	79/16"	3/8"	41/4*	9.10	
3"	811/16	3/8"	41/2*	13.18	
4"	101/16"	3/8"	51/4*	18.63	

FIG 602 UNION

6'000 PSI CWP



*All weights are approximate NSCWP-Non-Shock Cold Working Pressure

Recommended for air, water, oil, gas or mud service to 6'000 PSI NSCWP. This union has a replaceable lip-type seal ring which specifically designed to minimize fluid flow turbulence. Lip-type ring provides a pressure seal and protection for metal-to-metal seating surfaces. Smaller and lighter than Fig. 600 unions and are truck counting where size and weight are critical.

SIZE	LEN TATAL	GTH CTR.BR.	NUT RADIUS	WEIGHT Kg.	LENGTH BUTT.WELD SCH.80
1" 11/4" 11/2 2" 21/2" 3" 4"	3 ^{17/32"} 4 ^{29/32"} 4 ^{29/32"} 5 ^{1/4"} 6 ^{1/8"} 6 ^{1/4"} 8 ^{1/4"}	1/4" 1/4" 1/4" 1/4" 3/8" 3/8" 3/8"	2 ^{5/32} 3 ^{7/32} 3 ^{7/32} 3 ^{3/4} 4 ^{1/4} 4 ^{1/2} 5 ^{7/32}	1.59 4.54 4.10 5.90 8.20 10.45 15.00	317/32" 411/16" 411/16" 51/32" 51/8" 57/16" 61/16"

FIG 1002 UNION 10'000 PSI CWP



Recommended for air, water, oil, gas and mud service to 10'000 PSI NSCWP. This union has a replaceable lip-type seal ring which specifically designed to minimize fluid flow turbulence. The lip-type ring works similarly as in the Fig.602 union. These unions are for use on high pressure systems and trucks.

SIZE		GTH CTR.BR.	NUT RADIUS	WEIGHT Kg.	LENGTH BUTT.WELD SCH.80
1"	317/32"	1/4"	25/32*	1.59	317/32*
11/4"	4 ^{7/8*}	1/4"	37/32"	4.54	-
11/2	47/81	1/4"	37/32"	4.10	411/16
2"	51/4*	1/4"	33/4"	6.00	51/32"
21/2"	515/16"	3/8"	41/4*	7.95	51/8"
21/2°EU	61/8"	3/8"	41/4"	7.95	-
3"	61/4"	3/8"	41/2"	10.00	5 ^{3/8*}
4"	81/4"	3/8"	57/32"	17.95	511/16"
5"	-	-	61/4*	25.90	515/161

5" size rated at 7'500 PSI CWP and 12'000 PSI test, 5" unions for sour gas rated at 5'000 PSI CWP and 7'500 PSI test

FIG 1003 UNION

10'000 PSI CWP



Recommended for high pressure manifolding and drilling rig use where alignment of piping components is a problem. Recommended for air, water, oil, gas or mud service to 10'000 PSI NSCWP. This union has a ball seat that allows a total of 150(±7-1/20) angular adjustment. An O ring seal in addition to the metal-to-metal seat assures a pressure tight connection.

SIZE	LEN	GTH	NUT	WEIGHT	
	TATAL	CTR.BR.	RADIUS	Kg.	
2"	43/4"	700	31/2"	05.64	
3" LP THD	91/8"	3/8"	47/8*	20.45	
3" SCH 160	87/8"		4 ^{7/8}	21.60	
3" XX HVY	91/8"	-	47/8*	22.00	
4" LP THD	1015/16"	1/2"	6"	32.95	
4" SCH 160	1011/16		6"	34.54	
4" XXX HVY	1015/16"	3	6"	35.45	
5" SCH 160	109/16"		6"	33.63	
5" XX HVY	1015/16		6"	34.77	

5" size rated at 7'500 PSI CWP and 12'000 test. 5" unions for sour gas rated at 5'000 PSI CWP and 7'500 PSI test

FIG 1502 UNION

15'000 PSI CWP



Recommended for air, water, oil, gas and mud service to 15'000 PSI NSCWP. This union has a replaceable lip-type seal ring with specifically designed to minimize fluid flow turbulence. The lip-type ring also provides a pressure seal and protection for metal-to-metal seating surface and are recommended for manifold and truck mounting or other installations where high pressure in encountered.

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

Derates to 10'000 PSI WP for sour service

FIG 2002 UNION

20'000 PSI CWP



*All weights are approximat NSCWP-Non Shock Cold Working Pressure

Recommended for standard service to 20'000 PSI NSCWP. Available in butt weld end connections only. Available as Fig. 2202 for sour service(15'000 PSI WP).

SIZE	LENGTH	NUT RADIUS	WEIGHT Kg.
2"	7 ^{3/8"}	3 ^{23/32*}	10.45
3"	8 ^{5/8} "	6 ^{5/32*}	21.80
4"	81/2"	6"	34.50

Swivel Joints





Available in sizes 3/4" through 3" up to 15'000 PSI non-shock cold working pressure, DINGLI Swivel Joints offer the following features...

- Minimum flow restriction
- Heavy duty hex head style ball loading plug
- Grease retainer ring (ensures clean ball race)
- Standard packing units (Operating temperature to 2250F)
- High temperature packing units (Operation temperature to 4500F)
- Superior hardened ball races ensure uniform surface hardness and depth for longer life under severe thrust and radial loading.

Standard Swivel Joints are provided with API line pipe threads.

Other end connections are available on request.

Available for standard and sour service.

All sizes are available in 8 styles, for 3600 rotation in 1, 2 or 3 planes.

Quick Reference Chart

					Stan	dard S	erv	ice	Sour Service							
MODEL	COLOR CODE	NSCWP	END CONNECTIONS			SIZE(inc	h)		SIZE(inch)							
WIODEL	COLOR CODE	NSCVVP	END CONNECTIONS	3/4	1-1/4	1-1/2	1	2	3	3/4	1-1/4	1-1/2	1	2	3	
Low Pressure	BLUE	1000	Female Line Pipe Threads					V	1							
High Pressure	OLIVE GREEN	6000	Fig. 602 Union											1	4	
	SILVER	6000	Female Line Pipe Threads	1	1	1	1	4	1							
	OLIVE GREEN	7500	Fig. 1002 Union													
Extra High Pressure	OLIVE GREEN	10000	Fig. 1502 Union											1	4	
Long Sweep	BLACK	10000	Female Line Pipe Threads					1	1					1	1	
	OLIVE GREEN	15000	Fig. 2202													
	RED	15000	Fig. 1502					V	1					1	4	
	LIGHT BLUE	20000	Fig. 2002					1	1							

Long Radius Swivel Joints

All models are made from closed die forged alloy steel body members.



STYLE NO.10 MxM Union Ends



STYLE NO.50 MxF Union Ends



STYLE NO.10 MxF Union Ends



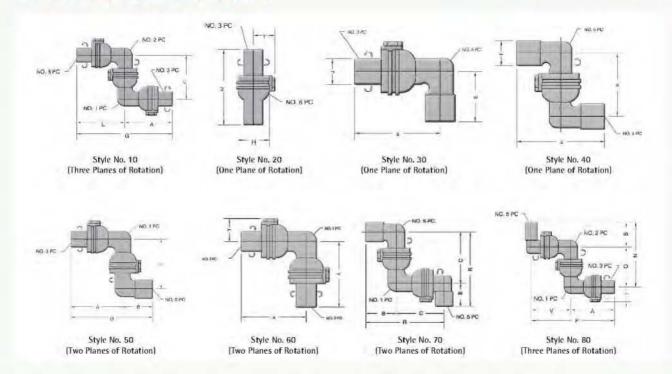
STYLE NO.10 Threaded Ends



STYLE NO.50 Threaded Ends

Swivel Joints

Short Radius Swivel Joints



SIZE	A	В	C	D	E	F	G	H	1	K	1	M	N	0	p	R	5	T	V
3/4",1"	4 ^{5/8}	223/32	4 ^{7/32}	711/32	57/16	13/4	91/4	27/16	13/4	47/32	45/8	53/16	615/16	47/32	827/32	615/16	4 ^{5/8}	17/8	47/32
11/4",11/2"	4 ^{23/32}	3 ^{3/16}	49/32	7 ^{29/32}	63/8	21/2	97/16	2 ^{7/8}	2 ^{3/II}	49/32	4 ^{23/32}	515/32	715/32	49/16	99/16	7 ^{15/32}	4 ^{23/32}	2 ^{1/8}	4 ^{27/32}
2"	5 ^{27/32}	41/32	5 ^{7/8}	9 ^{7/8}	81/16	31/8	125/16	41/8	35/16	5 ^{7/8}	615/32	6 ^{21/32}	101/32	6	1211/32	9 ^{29/32}	5 ^{27/32}	221/32	61/2
21/2"	71/8	47/8	711/16	12	93/4	4	141/4	41/2	33/4	713/16	71/8	81/4	129/16	711/15	1413/16	129/16	7 ^{1/8}	71/8	711/16
3"	85/8	45/8	715/16	131/4	91/4	45/16	181/16	513/16	41/2	83/4	97/16	91/8	129/16	715/16	173/8	129/16	97/16	97/16	83/4

Steel Hose Assemblies

High pressure cementing and circulating hoses incorporate swivel joints of forged steel with superior quality hardened ball races and high pressure type packing units.

Pup Joints

Available with integral, welded or NPST union end connections from 10'000 to 15'000 PSI NSCWP for standard and sour service.





One wing union and two style 50 or style 10 swivel joints with threaded ends.



One wing union and one each style 50 and style 10 swivel joints with integral wing union ends.



Four wing unions and two style 50 or style 10 swivel joints with integral wing union ends

Other products

DINGLI also supply manufactures Flange to Wing Adapters, Wing to Wing Adapters, Flanged Tees and Crosses and Assortment other products having usage in varied oilfield applications.









Integral Fitting Specifications

Nom.Size In.		1	1.5		2			3		4			
Figure No.		1502	1502	602	1502	2002	602	1502	2002	602	1002	1502	
CWP(PSI)		15'000	15'000	6'000	15'000	20'000	6'000	15'000	20'000	6′000	10'000	15'00	
Longsweep Elbow	FxM Wt.(kg)			10	12.6		24.5	22.9		40.4	40.4		
1	FxM Wt.(kg)			12.4	14.7		45.6	46.3	100				
Elbows	MxM Wt.(kg)			16.3	18.5		52.2	54.9					
1	FxF Wt.(kg)			8.2	10.9		38.1	39.5					
	FxFxF Wt.(kg)	13.2	15.4	12	13.2	14.5	50.8	51.7	99.8	44.9	45.8	90.7	
Tees	FxFxM Wt.(kg)	14.4	18	14.2	17	19	56.2	58	115	51.7	52.6	106	
ices .	FxMxF Wt.(kg)	14.4	18	14.2	17	19	56.2	58	115	51.7	52.6	106	
	FxMxM Wt.(kg)	15.9	21.1	16.3	20.9	23.6	61.7	64.4	129	57.6	59	122	

Nom. Size In.		1	1.5		2			3			4	
Figure No.		1502	1502	602	1502	2002	602	1502	2002	602	1002	1502
CWP(PSI)		15'000	15'000	6'000	15'000	20'000	6'000	15'000	20'000	6'000	10'000	15'000
	MxMxF Wt.(kg)	15.9	21.1	16.3	20.9	23.6	61.7	64.4	129	57.6	59	122
Tees	MxMxM Wt.(kg)	17.2	23.6	18.6	24.7	28.1	67.1	70.8	144	64	64.9	137
Longsweep Elbow	MxM Wt.(kg)			12.2	34 15.4		30	29,5		46.3	46.3	
	FxFxFxF Wt.(kg)		31.8	26.3	26.8		71.2	61.7		65.3	65.5	
Secretar	FxFxMxF Wt.(kg)		35	28.1	30		76.2	80.7		71.2	71.2	
Crosses	FxFxMxM Wt.(kg)		37.6	30.4	33.1		81.6	83		77.1	77.1	
	FxMxMxF Wt.(kg)		37.6	30.4	33.1		81.6	83		77.1	77.1	37.6
Crosses	FxMxMxM Wt.(kg)		40.4	32.7	36.3		87.1	89.4		83	83	
	MxMxMxM Wt.(kg)		142.6	35	39.5		92.1	95.7		89,4	89.4	
	MxFxF Wt.(kg)	26.3	27.9	21.5	24.3			40.1		53.1	78.9	141
Laterals	FxFxF Wt.(kg)	25.4						40.9				
Wyes	MxFxF Wt.(kg)		20	12.7	12.2	12.7						

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