

Hydraulic Fittings—37 Degree Flare

1. SCOPE

1.1 This standard specifies the general characteristics, application, and preferred parts of hydraulic fittings that utilize a 37 degree flared sealing element. The fittings are compatible with tubing assemblies and hose ends that have the same flare. These fittings may have one end with tapered pipe threads or straight threads with O-ring. They are suitable for use in all New Holland hydraulic and hydrostatic systems and are preferred due to a superior cost/performance relationship and extensive availability.

1.2 This specification may involve hazardous materials, procedures, and apparatus. This specification does not address the health and safety problems associated with its application or use. It is the specification user's responsibility to follow appropriate health or safety practices and determine the application or regulatory limitations prior to use.

2. APPLICATION

This specification was released to define fittings acceptable for New Holland hydraulic and hydrostatic systems.

3. RELATED SPECIFICATIONS

86523752 (FNHA-1-D-170.00)—O-Rings for Hydraulic Fittings
 86505922 (FNHA-3-A-005.00)—Assignment of Standard Part Numbers
 82001509 (FNHA-3-A-100.00)—Hydraulic Cleanliness

86508305 (FNHA-2-H-500.00)—Zinc Electroplating on Ferrous Surfaces
 86508306 (FNHA-2-H-501.00)—Zinc Phosphate Conversion Coating on Ferrous Surfaces
 SAE J514—Hydraulic Tube Fittings
 SAE J846—Coding Systems for identification of Fluid Conductors and Connectors
 SAE J1065—Pressure Ratings for Hydraulic Tubing and Fittings

4. REQUIREMENTS

4.1 MATERIAL

Fitting material should be carbon steel forgings or bar stock equivalent to AISI/SAE 12L14 and capable of performing to the requirements of this standard, hardness of Rockwell B85 $\pm$ B15.

4.2 FINISH

All fittings must be plated zinc dichromate (Zn Cr) 86508316 (FNHA-2-H-500.25) per standard 86508305 (FNHA-2-H-500.00). Washers and locknuts on fittings may be coated phosphate and oil 86508340 (FNHA-2-H-501.02) per standard 86508306 (FNHA-2-H-501.00).

4.3 CLEANLINESS

All fittings must meet standard 82001509 (FNH-3-A-100.00) Class A for hydraulic component cleanliness. The amount of abrasive particles to be limited to no more than 50 mg/ft² (538 mg/m²), no single particle over 0.040" (1020 microns), and a maximum of 40 particles/ft² (430 particles/m²) over 0.010" (250 microns).

					NAME	STD HYD-FITTINGS 37D FLR		
ALL	P	BJF	119263	30AUG02		ENGINEERING SPECIFICATION		
ALL	N	BJF	118965	16JUL02				
ALL	M	BJF	117881	19MAR02				
ALL	L	BJF	117333	25JAN02				
ALL	K	BJF	115653	28FEB01				
ALL	J	BJF	115468	19JAN01	THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF NEW HOLLAND N. V. AND/OR ITS SUBSIDIARIES. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.	FRAME 1 OF 44		
FRAME NO.	REV.	BY	ECN NO.	DATE		PART NUMBER		
APP.	DRAWN	JPC	5/95					
KHH 2/96	CHECKED							

Fittings must be free from visual contaminants, all hanging burrs, sharp edges, loose scale, and slivers which might be dislodged in usage, and any other defects that might affect the function of the parts. Each end of the fittings must be covered with a plastic plug or cap to exclude contamination and also protect the flared sealing surface from nicks and scratches detrimental to performance.

4.4 THREADS

Straight threads are Unified standard Class 2A external and Class 2B internal threads. External Class 2A threads which are plated or coated may exceed 2A diameters but shall not exceed maximum 3A diameters.

Pipe threads must conform to Dryseal American Standard Taper Pipe Thread (NPTF). The length of full form external thread must not be shorter than the NPTF L2 length plus one pitch.

4.5 BORE DIAMETER

The required drilled bore diameters for the different types of ends are listed in Chart 1. These bore diameters always apply to flare ends but not always to pipe thread or O-ring ends. Most straight fittings have a constant bore diameter equal to the bore of the flare end unless the fitting has a pipe thread or O-ring end smaller than the flare end, then the bore is stepped with diameters at each end matching the respective table values. Shaped fittings (tees and elbows) usually have leg bore diameters matching the respective table values. Consult the supplier for actual fitting bore details.

Drill tolerances are as follows:

bore diameter 0.0135 to 0.246 in., ± 0.003
 bore diameter 0.250 to 0.500 in., ± 0.004
 bore diameter 0.516 to 0.750 in., ± 0.005
 bore diameter 0.765 to 1.000 in., $+0.007, -0.005$
 bore diameter 1.013 to 1.500 in., $+0.008, -0.005$
 bore diameter 1.516 and over, $+0.010, -0.005$

4.6 BORE ALIGNMENT

Where passages in straight fittings are machined from opposite ends, the offset at the meeting point shall not exceed 0.015 in. (0.38mm). No cross sectional area at a junction of passages shall be less than that of the smallest passage.

5. PERFORMANCE

All fittings must be capable of operating in hydraulic systems without leaking at the working pressures shown on Chart 2. Minimum burst pressure is to be considered as four times the working pressure.

The pressure ratings are based on the pressure ratings of the heaviest wall tubing available for each size using the Barlow formula. They are to be considered as a guide only and actual performance will be dependent upon the other components of the system, the nature of pressure spikes and surges, and assembly techniques.

Shaped fittings (elbows and tees) with pipe threads should not be used in systems prone to vibration due to lack of reliability in maintaining a tight seal at the pipe threads.

6. INSTALLATION TORQUE

The Chart 3 lists recommended installation torques for flared and straight thread O-ring connections. These values are based on recommendations from several fitting suppliers and apply to unlubricated plated steel components.

Proper tightening is necessary to establish and maintain a leak free joint. However, overtightening can cause problems such as:

- galling or stripping the threads
- distortion of the sealing seat
- expansion of a tube ferrule into the nut causing it to lock up and not function properly
- damage to the O-ring

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7. DIMENSIONAL TOLERANCES

The following tolerances apply to the dimensions listed in the following part number tables:

7.1 Overall length of all unions, connectors, plugs and nuts: ± 0.02 in.

7.2 Leg lengths of elbows, tees and crosses: ± 0.03 in.

7.3 Hex sizes and wrench flat widths are expressed in nominal fractional size but can actually measure up to 0.030 in. undersized.

7.4 Fitting seats shall be concentric with straight thread pitch diameters within 0.010 in. full indicator movement (FIM).

8. ADDITIONAL PART NUMBERS

O-rings are supplied complete with fittings as shown in Figures. O-ring part numbers are included for Service Parts purposes only. Industry size numbers corresponding to O-ring part numbers are included on the last page of this standard. All of the O-rings listed have a hardness of 90 Durometer. These O-rings are described completely in standard 86523752 (FNHA-1-D-170.00).

Chart 1

Tube Dash Size	Nominal Tube OD (In.)	Flare and O-Ring End Bore Dia. (In.)	Matching Pipe Threads	Pipe Thread End Bore Dia. (In.)
-3	3/16	0.125	1/8 - 27	0.188
-4	1/4	0.172	1/8 - 27	0.188
-5	5/16	0.234	1/8 - 27	0.188
-6	3/8	0.297	1/4 - 18	0.281
-8	1/2	0.391	3/8 - 18	0.406
-10	5/8	0.484	1/2 - 14	0.531
-12	3/4	0.609	3/4 - 14	0.719
-14	7/8	0.719	3/4 - 14	0.719
-16	1	0.844	1 - 11 1/2	0.938
-20	1 1/4	1.078	1 1/4 - 11 1/2	1.250
-24	1 1/2	1.312	1 1/2 - 11 1/2	1.500
-32	2	1.718	2 - 11 1/2	1.938

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Chart 2

Tube Dash Size	Flare Ends		Pipe Ends	
	Working Pressure, psi	Min. Burst Pressure, psi	Working Pressure, psi	Min. Burst Pressure, psi
-4	6500	26,000	5000	20,000
-5	5200	20,800	—	—
-6	5000	20,000	5000	20,000
-8	4500	18,000	4000	16,000
-10	3800	15,200	—	—
-12	3650	14,600	3000	12,000
-16	3000	12,000	2500	10,000
-20	2500	10,000	2000	8000
-24	2000	8000	1500	6000
-32	1650	6600	1250	5000

Chart 3

Tube Dash Size	Flared Ends, In-Lb	O-Ring Ends, In-Lb
-4	125-155	165-195
-5	160-200	225-265
-6	220-265	285-325
-8	450-525	625-700
-10	550-635	875-1000
-12	850-950	1450-1600
-16	1200-1350	2350-2600
-20	1600-1800	2750-3050
-24	1950-2200	3600-4000

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UNION—Male 37° Flare to Male 37° Flare
SAE 070101

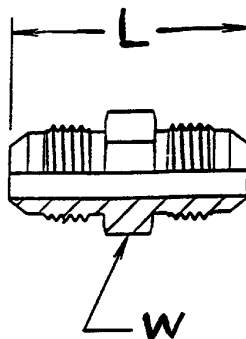


Table 1: UNION 37° (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	W = Hex Size, In.	L = Length In.	Part Number
-04	7/16 - 20	1/2	1.37	128820
-06	9/16 - 18	5/8	1.41	128821
-08	3/4 - 16	13/16	1.62	128822
-10	7/8 - 14	15/16	1.88	128823
-12	1 1/16 - 12	1 1/8	2.16	144121
-16	1 5/16 - 12	1 3/8	2.25	9790526
-20	1 5/8 - 12	1 11/16	2.43	86082

Table 1A: UNION 37° (Non-Preferred)

Tube Dash Size	Small End Thread Size UN/UNF-2A	Large End Thread Size UN/UNF-2A	W = Hex Size In.	L = Length In.	Part Number
-05	1/2 - 20	1/2 - 20	9/16	1.38	86513586
12-10	7/8 - 14	1 1/16 - 12	1 1/8	2.05	86514208



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CONNECTOR—Male 37° Flare to Straight Thread O-Ring
SAE 070120

See illustration on next page.

Table 2: CONNECTOR 37°-OR (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	O-Ring End Thread Size UN/UNF-2A	W = Hex Size, In.	L = Length In.	LI = Installed Length, In.	Fitting Part Number	O-Ring Part Number*
-4	7/16 - 20	7/16 - 20	9/16	1.23	0.87	265235	165202
4-6	7/16 - 20	9/16 - 18	11/16	1.28	0.89	139398	9617873
4-8	7/16 - 20	3/4 - 16	7/8	1.39	—	87010110	128825
-6	9/16 - 18	9/16 - 18	11/16	1.30	0.91	76350	9617873
6-4	9/16 - 18	7/16 - 20	5/8	1.27	0.91	84384	165202
6-8	9/16 - 18	3/4 - 16	7/8	1.38	0.94	128817	128825
-8	3/4 - 16	3/4 - 16	7/8	1.48	1.04	128818	128825
8-4	3/4 - 16	7/16 - 20	13/16	1.41	1.04	9790593	165202
8-6	3/4 - 16	9/16 - 18	13/16	1.44	1.05	86509028	9617873
8-10	3/4 - 16	7/8 - 14	1	1.59	1.09	128819	167269
8-12	3/4 - 16	1 1/16 - 12	1 1/4	1.77	1.18	176081	167266
-10	7/8 - 14	7/8 - 14	1	1.70	1.20	325059	167269
10-8	7/8 - 14	3/4 - 16	15/16	1.64	1.17	86071	128825
10-12	7/8 - 14	1 1/16 - 12	1 1/4	1.86	1.27	86507102	167266
-12	1 1/16 - 12	1 1/16 - 12	1 1/4	1.97	1.38	322896	167266
12-8	1 1/16 - 12	3/4 - 16	1 1/8	1.94	1.50	577993	128825
12-10	1 1/16 - 12	7/8 - 14	1 1/8	1.88	1.38	144124	167269
12-16	1 1/16 - 12	1 5/16 - 12	1 1/2	1.99	1.40	233705	167268
-16	1 5/16 - 12	1 5/16 - 12	1 1/2	2.05	1.46	378970	167268
16-12	1 5/16 - 12	1 1/16 - 12	1 3/8	2.06	1.40	86512926	167266
16-20	1 5/16 - 12	1 5/8 - 12	1 7/8	2.13	1.54	86504080	570186
-20	1 5/8 - 12	1 5/8 - 12	1 7/8	2.17	1.58	570180	570186

* O-Ring to be supplied with fittings. O-Ring part numbers provided for Service Parts purposes only.

CONNECTOR—Male 37° Flare to Straight Thread O-Ring
SAE 070120

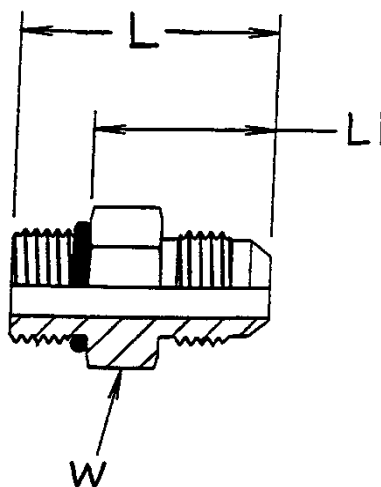


Illustration applies to previous page, also.

Table 2A: CONNECTOR 37°-OR (Non-Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	O-Ring End Thread Size UN/UNF-2A	W = Hex Size, In.	L = Length, In.	LI = Installed Length, In.	Fitting Part Number	O-Ring Part Number*
-5	1/2 -20	1/2 - 20	5/8	1.23	0.87	47765	129270
6-10	9/16 - 18	7/8 - 14	1	1.50	1.00	525646	167269
12-14	1 1/16 - 12	1 3/16 - 12	1 3/8	1.95	1.37	86512925	9626929
-14	1 3/16 - 12	1 3/16 - 12	1 3/8	1.99	1.40	86272	9626929
16-10	1 5/16 - 12	7/8 - 14	1 3/8	2.08	1.57	86050292	167269
16-14	1 5/16 - 12	1 3/16 - 12	1 3/8	2.05	1.46	9615397	9626929

* O-Ring to be supplied with fittings. O-Ring part numbers provided for Service Parts purposes only.

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CONNECTOR—Male 37° Flare to Male Pipe Thread
SAE 070102

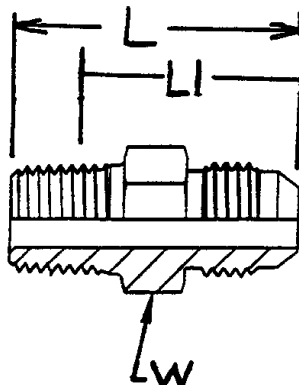


Illustration applies to next page, also.

Table 3: CONNECTOR 37°-NP (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	Pipe End Thread Size NPTF	W = Hex Size, In.	L = Length, In.	LI = Installed Length, In.	Part Number
-4	7/16 - 20	1/8 - 27	1/2	1.22	0.99	86513589
4-4	7/16 - 20	1/4 - 18	9/16	1.42	1.08	261768
5-4	1/2 - 20	3/8 - 18	9/16	1.44		86625046
-6	9/16 - 18	1/4 - 18	5/8	1.43	1.09	9706918
6-6	9/16 - 18	3/8 - 18	3/4	1.44	1.09	235534
6-8	9/16 - 18	1/2 - 14	7/8	1.69	1.23	19956
-8	3/4 - 16	3/8 - 18	13/16	1.53	1.18	163334
8-8	3/4 - 16	1/2 - 14	7/8	1.78	1.32	132341
-10	7/8 - 14	1/2 - 14	15/16	1.89	1.43	242680
10-12	7/8 - 14	3/4 - 14	1 1/8	1.95	1.47	578488
-12	1 1/16 - 12	3/4 - 14	1 1/8	2.06	1.58	86977779
12-16	1 1/16 - 12	1 - 11 1/2	1 3/8	2.25	1.68	216764
-16	1 5/16 - 12	1 - 11 1/2	1 3/8	2.30	1.73	86512927
16-12	1 5/16 - 12	3/4 - 14	1 3/8	2.11	1.63	9615390
-20	1 5/8 - 12	1 1/4 - 11 1/2	1 11/16	2.45	1.86	86512929
20-16	1 5/8 - 12	1 - 11 1/2	1 11/16	2.38	1.81	86977742



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CONNECTOR—Male 37° Flare to Male Pipe Thread
SAE 070102

See illustration on previous page.

Table 3A: CONNECTOR 37°-NP (Non-Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	Pipe End Thread Size NPTF	W = Hex Size, In.	L = Length, In.	LI = Installed Length, In.	Part Number
-5	1/2 - 20	1/8 - 27	9/16	1.22	0.99	86513590
6-12	9/16 - 18	3/4 - 14	1 1/8	1.75	1.27	86977756
8-12	3/4 - 16	3/4 - 14	1 1/8	1.85	1.37	22877
10-6	7/8 - 14	3/8 - 18	15/16	1.625	1.35	242679
12-8	1 1/16 - 12	1/2 - 14	1 1/8	2.06	1.60	86512928
16-20	1 5/16 - 12	1 1/4 - 11 1/2	2	2.42	1.83	86513591
-32	2 1/2 - 12	2 - 11 1/2	2 5/8	3.11	2.50	86513592

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90 DEGREE ELBOW—Male 37° Flare to Male 37° Flare
SAE 070201

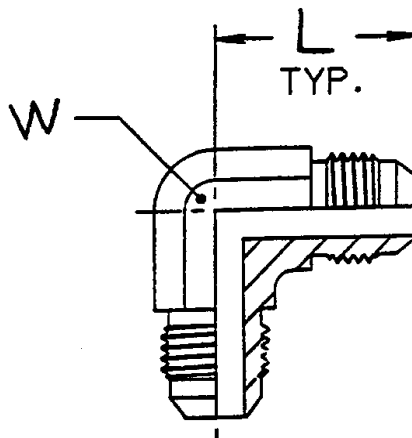


Table 4: 90ELB 37° UNION (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	W = Wrench Flats Width, In.		L = Leg Length In.	Part Number
		Forging	Barstock		
-6	9/16 - 18	9/16	13/16	1.06	241074
-8	3/4 - 16	3/4	7/8	1.25	216791
-12	1 1/16 - 12	1 1/16	1 3/8	1.66	144120
-16	1 5/16 - 12	1 5/16	1 5/8	1.81	9615392

Table 4A: 90ELB 37° UNION (Non-Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	W = Wrench Flats Width, In.		L = Leg Length In.	Part Number
		Forging	Barstock		
-4	7/16 - 20	7/16	9/16	0.89	86512930
-5	1/2 - 20	9/16	5/8	0.95	86512931
-10	7/8 - 14	7/8	1 1/8	1.45	86512932
-20	1 5/8 - 12	1 5/8	2 1/8	2.06	86665



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90 DEGREE ELBOW—Male 37° Flare to Female 37° Flare Swivel Nut
SAE 070221

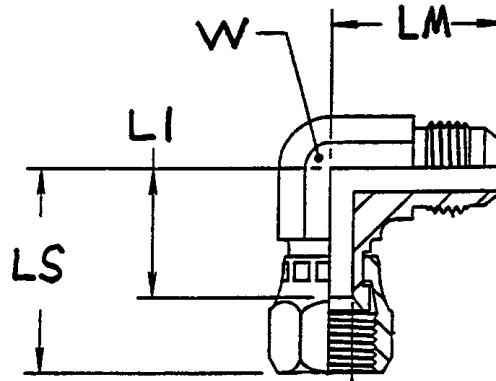


Table 5: 90ELB 37° SWIVL (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	W = Wrench Flats Width, In.		LM = Male Leg Length In.	LS = Swivel Leg Length In.	LI = Center to Seat Length, In.	Part Number
		Forging	Barstock				
-4	7/16 - 20	7/16	9/16	0.89	1.00	0.66	86512933
-6	9/16 - 18	9/16	13/16	1.06	1.25	0.88	86629586
-8	3/4 - 16	3/4	7/8	1.25	1.38	0.95	248974
-10	7/8 - 14	7/8	1 1/8	1.45	1.62	1.13	182977
-12	1 1/16 - 12	1 1/16	1 3/8	1.66	1.75	1.19	219603
-16	1 5/16 - 12	1 5/16	1 5/8	1.81	2.00	1.41	86050288

Table 5A: 90ELB 37° SWIVL (Non-Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	W = Wrench Flats Width, In.		LM = Male Leg Length In.	LS = Swivel Leg Length In.	LI = Center to Seat Length, In.	Part Number
		Forging	Barstock				
-3	3/8 - 24	7/16	9/16	0.83	1.00	0.67	86513606
-5	1/2 - 20	9/16	5/8	0.95	1.06	0.78	86513593

90 DEGREE ELBOW—Male 37° Flare to Straight Thread O-Ring
SAE 070220

See illustration on next page.

Table 6: 90ELB 37°-OR (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	O-Ring End Thread Size UN/UNF-2A	W = Wrench Flats Width, In.		LF = Flare Leg Length In.	LR = O-Ring End Length In.	LI = Installed Length, In.	Fitting Part Number	O-Ring Part Number*
			Forging	Barstock					
-4	7/16 - 20	7/16 - 20	7/16	9/16	0.89	1.03	0.64	216773	165202
4-6	7/16 - 20	9/16 - 18	9/16	13/16	1.05	1.25	0.82	86512934	9617873
-6	9/16 - 18	9/16 - 18	9/16	13/16	1.06	1.25	0.82	76344	9617873
6-4	9/16 - 18	7/16 - 20	9/16	13/16	1.06	1.19	0.80	86512936	165202
6-8	9/16 - 18	3/4 - 16	3/4	7/8	1.14	1.45	0.96	76347	128825
-8	3/4 - 16	3/4 - 16	3/4	7/8	1.25	1.45	0.96	128830	128825
8-6	3/4 - 16	9/16 - 18	3/4	7/8	1.25	1.36	0.89	86512938	9617873
8-10	3/4 - 16	7/8 - 14	7/8	1 1/8	1.34	1.70	1.14	9617891	167269
8-12	3/4 - 16	1 1/16 - 12	1 1/16	1 3/8	1.42	1.94	1.47	84340	167266
-10	7/8 - 14	7/8 - 14	7/8	1 1/8	1.45	1.70	1.14	164910	167269
-12	1 1/16 - 12	1 1/16 - 12	1 1/16	1 3/8	1.66	1.94	1.29	322894	167266
12-10	1 1/16 - 12	7/8 - 14	1 1/16	1 3/8	1.66	1.78	1.22	144123	167269
12-16	1 1/16 - 12	1 5/16 - 12	1 5/16	1 5/8	1.81	2.05	1.40	87021824	167268
-16	1 5/16 - 12	1 5/16 - 12	1 5/16	1 5/8	1.81	2.05	1.40	268277	167268
16-12	1 5/16 - 12	1 1/16 - 12	1 5/16	1 5/8	1.81	2.05	1.40	286217	167266

* O-Ring to be supplied with fittings. O-Ring part numbers provided for Service Parts purposes only.



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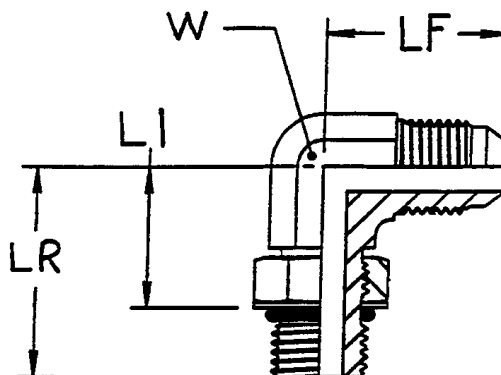


Illustration applies to previous page, also.

Table 6A: 90ELB 37°-OR (Non-Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	O-Ring End Thread Size UN/UNF-2A	W = Wrench Flats Width, In.		LF = Flare Leg Length In.	LR = O-Ring End Length In.	LI = Installed Length, In.	Fitting Part Number	O-Ring Part Number*
			Forging	Barstock					
-3	3/8 - 24	3/8 - 24	7/16	N/A	0.83	0.94	0.61	86977760	86513328
-5	1/2 - 20	1/2 - 20	9/16	5/8	0.95	1.09	0.70	86512935	129270
6-10	9/16 - 18	7/8 - 14	7/8	1 1/8	1.23	1.70	1.24	86512937	167269
10-8	7/8 - 14	3/4 - 16	7/8	1 1/8	1.45	1.55	1.06	86527	128825
10-12	7/8 - 14	1 1/16 - 12	1 1/16	1 3/8	1.53	1.94	1.79	84570	167266
12-8	1 1/16 - 12	3/4 - 16	1 1/16	1 3/8	1.66	1.63	1.16	100333	128825
12-14	1 1/16 - 12	1 3/16 - 12	1 5/16	1 1/2	1.70	2.00	1.35	86512945	9626929
-14	1 3/16 - 12	1 3/16 - 12	1 5/16	1 1/2	1.73	2.00	1.35	86512946	9626929
16-20	1 5/16 - 12	1 5/8 - 12	1 5/8	2 1/8	2.01	2.25	1.60	86513541	570186
-20	1 5/8 - 12	1 5/8 - 12	1 5/8	2 1/8	2.06	2.25	1.60	84530	570186
20-16	1 5/8 - 12	1 5/16 - 12	1 5/8	2 1/8	2.06	2.25	—	87010672	167268
-24	1 7/8 - 12	1 7/8 - 12	1 7/8	2 1/4	2.33	2.39	1.74	50658	9626930

* O-Ring to be supplied with fittings. O-Ring part numbers provided for Service Parts purposes only.

	NAME				PART NUMBER	
	STD HYD-FITTINGS 37D FLR				86512105	
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90 DEGREE ELBOW—Male 37° Flare to Male Pipe Threads
SAE 070202

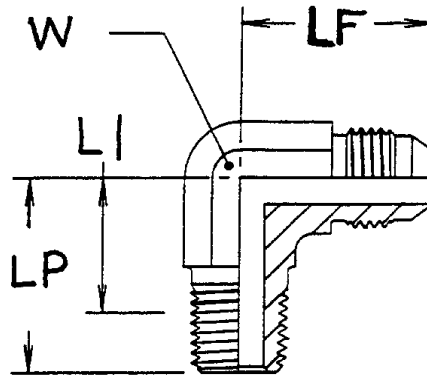


Illustration applies to following page, also.

Table 7: 90ELB 37°-NP (Preferred)

Tube Dash Size	Flare End Thread Size UN/UNF-2A	Pipe Thread Size NPTF	W = Wrench Flats Width, In.		L F= Flare Leg Length In.	LP = Pipe Leg Length In.	LI = Installed Length, In.	Part Number
			Forging	Barstock				
-4	7/16 - 20	1/8 - 27	7/16	9/16	0.89	0.78	0.55	86512947
4-4	7/16 - 20	1/4 - 18	9/16	13/16	1.05	1.09	0.75	259918
4-6	7/16 - 20	3/8 - 18	3/4	7/8	1.13	1.22	0.87	86512948
-6	9/16 - 18	1/4 - 18	9/16	13/16	1.06	1.09	0.75	578384
6-6	9/16 - 18	3/8 - 18	3/4	7/8	1.14	1.22	0.87	235131
6-8	9/16 - 18	1/2 - 14	7/8	1 1/8	1.22	1.47	1.01	86512950
-8	3/4 - 16	3/8 - 18	3/4	7/8	1.25	1.22	0.87	76351
8-8	3/4 - 16	1/2 - 14	7/8	1 1/8	1.33	1.47	1.01	76352
8-12	3/4 - 16	3/4 - 14	1 1/16	1 3/8	1.42	1.59	1.11	216744
-10	7/8 - 14	1/2 - 14	7/8	1 1/8	1.45	1.47	1.01	128828
-12	1 1/16 - 12	3/4 - 14	1 1/16	1 3/8	1.66	1.59	1.11	86977777
12-16	1 1/16 - 12	1 - 11 1/2	1 5/16	1 5/8	1.81	1.97	1.39	86512951
-16	1 5/16 - 12	1 - 11 1/2	1 5/16	1 5/8	1.81	1.97	1.40	86512952
16-12	1 5/16 - 12	3/4 - 14	1 5/16	1 5/8	1.81	1.72	1.30	9615396



NAME

STD HYD-FITTINGS 37D FLR

ENGINEERING SPECIFICATION

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PART NUMBER

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