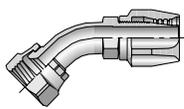
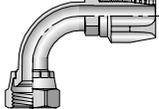
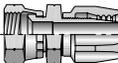
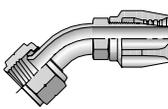
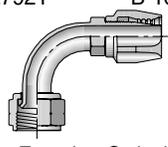
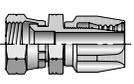
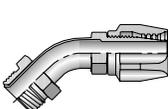
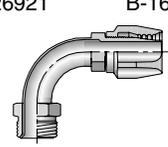
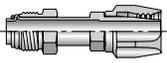
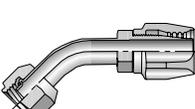
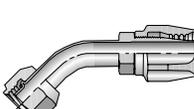
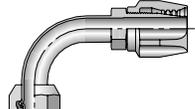
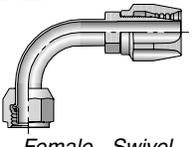
 NPTF Pipe	20121 B-160  <i>Male - Rigid</i>	 JIC 37°	20621 B-160  <i>Female - Swivel</i>	23721 B-160  <i>Female - Swivel 45° Elbow - Short</i>	23921 B-161  <i>Female - Swivel 90° Elbow - Short</i>
24121 B-161  <i>Female - Swivel 90° Elbow - Long</i>	 SAE 45°	20821 B-161  <i>Female - Swivel</i>	27721 B-161  <i>Female - Swivel 45° Elbow</i>	27921 B-162  <i>Female - Swivel 90° Elbow</i>	 PTT 30°
23221 B-162  <i>Female - Swivel</i>	 Inverted Flare	22821 B-162  <i>Male - Swivel</i>	26721 B-162  <i>Male - Swivel 45° Elbow</i>	26921 B-163  <i>Male - Swivel 90° Elbow</i>	 Tube-O
2S521 B-163  <i>Male - Swivel Short</i>	25M21 B-163  <i>Male - Swivel 90° Elbow - Long</i>	25S21 B-163  <i>Female - Swivel Short</i>	25H21 B-164  <i>Female - Swivel 45° Elbow - Short</i>	25N21 B-164  <i>Female - Swivel 45° Elbow - Long</i>	25T21 B-164  <i>Female - Swivel 90° Elbow - Short</i>
25L21 B-164  <i>Female - Swivel 90° Elbow - Long</i>	 Assembly Instructions	21 Series B-165 Assembly Instructions			

A

B

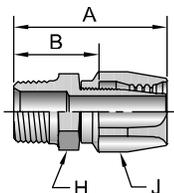
C

D

E

20121

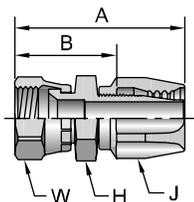
Male NPTF Pipe - Rigid



# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	B	
	inch			inch	mm			inch	mm
20121-2-4	1/8x27		3/16	1.55	39	7/16	9/16	0.88	22
20121-4-4	1/4x18		3/16	1.77	45	9/16	9/16	1.10	28
20121-4-5	1/4x18		1/4	1.79	45	9/16	5/8	1.05	27
20121-4-6	1/4x18		5/16	1.92	49	9/16	3/4	1.14	29
20121-6-6	3/8x18		5/16	1.95	50	11/16	3/4	1.17	30
20121-6-8	3/8x18		13/32	2.10	53	11/16	7/8	1.18	30
20121-8-8	1/2x14		13/32	2.34	59	7/8	7/8	1.42	36
20121-8-10	1/2x14		1/2	2.44	62	7/8	1-1/16	1.44	37
20121-12-12	3/4x14		5/8	2.58	66	1-1/8	1-1/4	1.50	38
20121-12-16	3/4x14		7/8	2.50	64	1-1/4	1-7/16	1.51	38
20121-16-16	1x11-1/2		7/8	2.69	68	1-3/8	1-7/16	1.70	43
20121-20-20	1-1/4x11-1/2		1-1/8	2.91	74	1-11/16	1-3/4	1.87	47
20121-24-24	1-1/2x11-1/2		1-3/8	3.02	77	2	2	1.92	49

20621

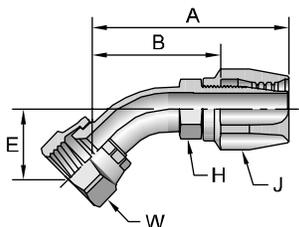
Female JIC 37° - Swivel



# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	W inch	B	
	inch			inch	mm				inch	mm
20621-4-4	1/4	7/16x20	3/16	1.83	46	9/16	9/16	9/16	1.16	29
20621-5-5	5/16	1/2x20	1/4	1.92	49	5/8	5/8	5/8	1.18	30
20621-6-6	3/8	9/16x18	5/16	2.09	53	11/16	3/4	11/16	1.31	33
20621-8-8	1/2	3/4x16	13/32	2.46	62	7/8	7/8	7/8	1.54	39
20621-8-10	1/2	3/4x16	1/2	2.56	65	1	1-1/16	7/8	1.56	40
20621-10-10	5/8	7/8x14	1/2	2.65	67	1	1-1/16	1	1.65	42
20621-12-12	3/4	1-1/16x12	5/8	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45
20621-16-16	1	1-5/16x12	7/8	2.94	75	1-1/2	1-7/16	1-1/2	1.95	50
20621-20-20	1-1/4	1-5/8x12	1-1/8	3.16	80	2	1-3/4	2	2.12	54

23721

Female JIC 37° - Swivel - 45° Elbow - Short Drop

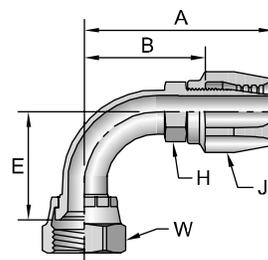


# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch			inch	mm	inch	mm				inch	mm
23721-4-4	1/4	7/16x20	3/16	2.11	54	0.39	10	3/8	9/16	9/16	1.43	36
23721-6-6	3/8	9/16x18	5/16	2.26	57	0.40	10	1/2	3/4	11/16	1.48	38
23721-8-8	1/2	3/4x16	13/32	2.73	69	0.55	14	5/8	7/8	7/8	1.81	46
23721-10-10	5/8	7/8x14	1/2	2.97	75	0.64	16	3/4	1-1/16	1	1.97	50
23721-12-12	3/4	1-1/16x12	5/8	3.30	84	0.83	21	7/8	1-1/4	1-1/4	2.22	56
23721-16-16	1	1-5/16x12	7/8	3.44	87	0.90	23	1-1/8	1-7/16	1-1/2	2.45	62
23721-20-20	1-1/4	1-5/8x12	1-1/8	3.80	97	1.19	30	1-3/8	1-3/4	2	2.76	70

23921

Female JIC 37° - Swivel - 90° Elbow - Short Drop

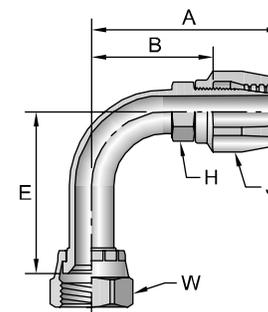
# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch	inch		inch	mm	inch	mm				inch	mm
23921-4-4	1/4	7/16 x 20	3/16	1.88	48	0.83	21	3/8	9/16	9/16	1.20	30
23921-4-6	1/4	7/16 x 20	5/16	1.95	50	0.83	21	1/2	3/4	9/16	1.17	30
23921-5-5	5/16	1/2 x 20	1/4	2.07	53	0.77	20	7/16	5/8	5/8	1.33	34
23921-6-6	3/8	9/16x18	5/16	2.15	55	0.85	22	1/2	3/4	11/16	1.37	35
23921-8-8	1/2	3/4 x 16	13/32	2.49	63	1.09	28	5/8	7/8	7/8	1.57	40
23921-10-10	5/8	7/8 x 14	1/2	2.69	68	1.23	31	3/4	1-1/16	1	1.69	43
23921-12-12	3/4	1-1/16 x 12	5/8	2.88	73	1.89	48	7/8	1-1/4	1-1/4	1.80	46
23921-16-16	1	1-5/16 x 12	7/8	3.40	86	2.14	54	1-1/8	1-7/16	1-1/2	2.41	61
23921-20-20	1-1/4	1-5/8 x 12	1-1/8	3.64	92	2.59	66	1-3/8	1-3/4	2	2.60	66



24121

Female JIC 37° - Swivel - 90° Elbow - Long Drop

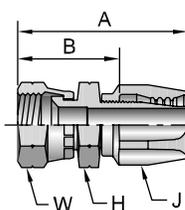
# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch	inch		inch	mm	inch	mm				inch	mm
24121-4-4	1/4	7/16x20	3/16	1.88	48	2.52	64	3/8	9/16	9/16	1.20	30
24121-6-6	3/8	9/16x18	5/16	2.14	54	2.18	55	1/2	3/4	11/16	1.36	35
24121-8-8	1/2	3/4x16	13/32	2.45	62	2.52	64	5/8	7/8	7/8	1.53	39
24121-10-10	5/8	7/8x14	1/2	2.91	74	2.57	65	3/4	1-1/16	1	1.91	49
24121-20-20	1-1/4	1-5/8x12	1-1/8	3.63	92	5.28	134	1-3/8	1-3/4	2	2.59	66



20821

Female SAE 45° - Swivel

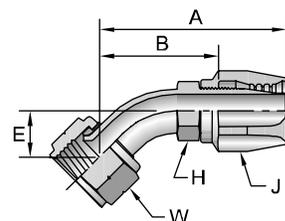
# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	W inch	B	
	inch	inch		inch	mm				inch	mm
20821-4-4	1/4	7/16x20	3/16	1.83	46	9/16	9/16	9/16	1.16	29
20821-5-5	5/16	1/2x20	1/4	1.91	49	5/8	5/8	5/8	1.17	30
20821-6-6	3/8	5/8x18	5/16	2.12	54	3/4	3/4	3/4	1.34	34
20821-8-8	1/2	3/4x16	13/32	2.46	62	7/8	7/8	7/8	1.54	39
20821-10-10	5/8	7/8x14	1/2	2.65	67	1	1-1/16	1	1.65	42
20821-12-12	3/4	1-1/16x14	5/8	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45



27721

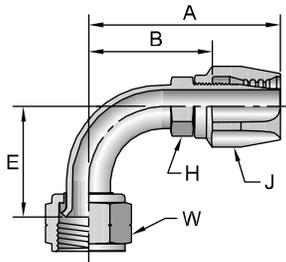
Female SAE 45° - Swivel - 45° Elbow

# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch	inch		inch	mm	inch	mm				inch	mm
27721-6-6	3/8	5/8x18	5/16	2.26	57	0.40	10	1/2	3/4	3/4	1.48	38
27721-12-12	3/4	1-1/16x14	5/8	3.30	84	0.83	21	7/8	1-1/4	1-1/4	2.22	56



Notch in nut signifies 45° flare.

A



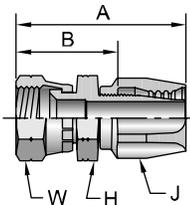
27921

Female SAE 45° - Swivel - 90° Elbow

# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch	inch		inch	mm	inch	mm				inch	mm
27921-6-6	3/8	5/8x18	5/16	2.15	55	0.85	22	1/2	3/4	3/4	1.37	35
27921-12-12	3/4	1-1/16x14	5/8	2.88	73	1.89	48	7/8	1-1/4	1-1/4	1.89	46

Notch in nut signifies 45° flare.

B

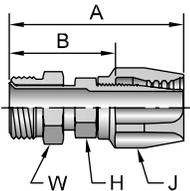


23221

Female PTT 30° - Swivel

# Part Number	Thread inch	Hose I.D. inch	A		H inch	J inch	W inch	B		
			inch	mm				inch	mm	
23221-16-16	1	1-5/16x14	7/8	2.70	69	1-1/2	1-7/16	1-1/2	1.71	43

C

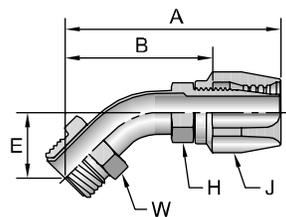


22821

Male Inverted SAE 45° - Swivel

# Part Number	Thread		Hose I.D. inch	A		H inch	J inch	W inch	B	
	inch	inch		inch	mm				inch	mm
22821-4-4	1/4	7/16x24	3/16	2.36	60	3/8	9/16	7/16	1.68	43
22821-5-4	5/16	1/2x20	3/16	2.32	59	7/16	9/16	1/2	1.64	42
22821-5-5	5/16	1/2x20	1/4	2.34	59	7/16	5/8	1/2	1.60	41
22821-5-6	5/16	1/2x20	5/16	2.47	63	1/2	3/4	1/2	1.69	43
22821-6-6	3/8	5/8x18	5/16	2.45	62	1/2	3/4	5/8	1.67	42
22821-8-8	1/2	3/4x18	13/32	2.84	72	5/8	7/8	3/4	1.92	49
22821-10-10	5/8	7/8x18	1/2	2.91	74	3/4	1-1/16	7/8	1.91	49

D



26721

Male Inverted SAE 45° - Swivel - 45° Elbow

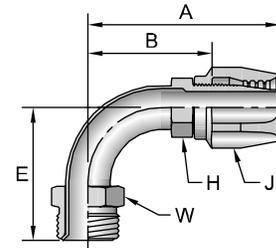
# Part Number	Thread		Hose I.D. inch	A		E		H inch	J inch	W inch	B	
	inch	inch		inch	mm	inch	mm				inch	mm
26721-4-4	1/4	7/16x24	3/16	2.35	60	0.62	16	3/8	9/16	7/16	1.67	42
26721-5-5	5/16	1/2x20	1/4	2.59	66	0.94	24	7/16	5/8	1/2	1.85	47
26721-6-6	3/8	5/8x18	5/16	2.73	69	0.94	24	1/2	3/4	5/8	1.95	50
26721-8-8	1/2	3/4x18	13/32	3.05	77	0.94	24	5/8	7/8	3/4	2.13	54

E

26921

Male Inverted SAE 45° - Swivel - 90° Elbow

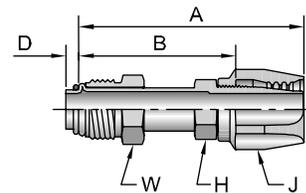
# Part Number	Thread inch	Hose I.D. inch	A		E		H inch	J inch	W inch	B		
			inch	mm	inch	mm				inch	mm	
26921-4-4	1/4	7/16x24	3/16	2.45	62	1.56	40	3/8	9/16	7/16	1.77	45
26921-5-5	5/16	1/2x20	1/4	2.25	57	1.65	42	7/16	5/8	1/2	1.51	38
26921-5-6	5/16	1/2x20	5/16	2.38	60	1.65	42	1/2	3/4	1/2	1.60	41
26921-6-6	3/8	5/8x18	5/16	2.37	60	1.63	41	1/2	3/4	5/8	1.59	40
26921-8-8	1/2	3/4x18	13/32	2.63	67	1.78	45	5/8	7/8	3/4	1.71	43
26921-10-10	5/8	7/8x18	1/2	2.96	75	2.17	55	3/4	1-1/16	7/8	1.96	50



2S521

Male Tube-O - Swivel - Short Pilot

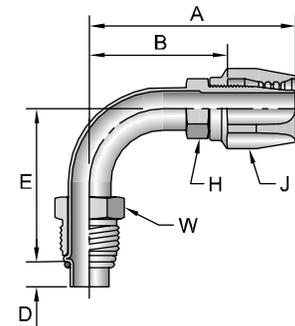
# Part Number	Thread inch	Hose I.D. inch	A		D		H inch	J inch	W inch	B		
			inch	mm	inch	mm				inch	mm	
2S521-6-6	3/8	5/8x18	5/16	2.64	67	0.18	4,7	1/2	3/4	5/8	1.86	47



25M21

Male Tube-O - Swivel - 90° Elbow - Long Pilot

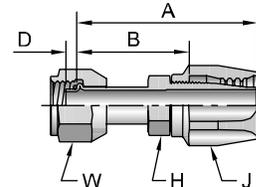
# Part Number	Thread inch	Hose I.D. inch	A		D		E		H inch	J inch	W inch	B		
			inch	mm	inch	mm	inch	mm				inch	mm	
25M21-8-8	1/2	3/4x18	13/32	2.49	63	0.38	9,8	2.12	54	5/8	7/8	3/4	1.57	40
25M21-10-10	5/8	7/8x18	1/2	3.27	83	0.38	9,8	1.95	50	3/4	1-1/16	7/8	2.27	58



25S21

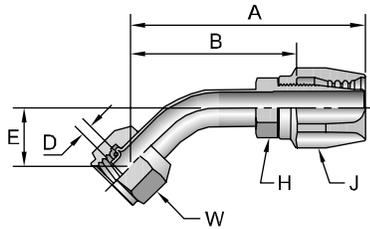
Female Tube-O - Swivel - Short Pilot

# Part Number	Thread inch	Hose I.D. inch	A		D		H inch	J inch	W inch	B		
			inch	mm	inch	mm				inch	mm	
25S21-6-6	3/8	5/8x18	5/16	2.66	68	0.18	4,7	1/2	3/4	3/4	1.88	48
25S21-8-8	1/2	3/4x16	13/32	2.86	73	0.18	4,7	5/8	7/8	7/8	1.94	49



25H21

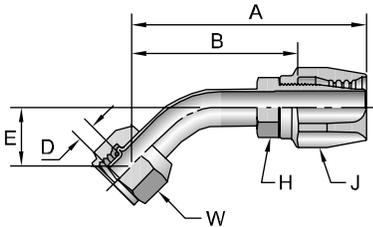
Female Tube-O - Swivel - 45° Elbow - Short Pilot



#			A		D		E					B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25H21-8-8	1/2 3/4x16	13/32	2.74	70	0.18	4,7	0.60	15	5/8	7/8	7/8	1.82	46

25N21

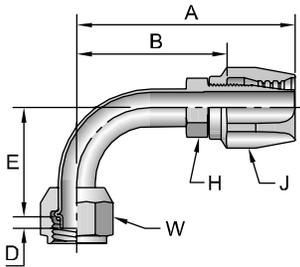
Female Tube-O - Swivel - 45° Elbow - Long Pilot



#			A		D		E					B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25N21-8-8	1/2 3/4x16	13/32	3.24	82	0.38	9,8	0.98	25	5/8	7/8	7/8	2.32	59

25T21

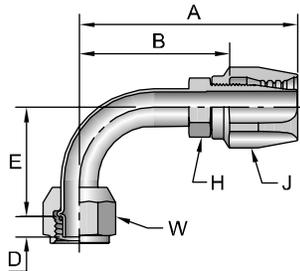
Female Tube-O - Swivel - 90° Elbow - Short Pilot



#			A		D		E					B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25T21-6-6	3/8 5/8x18	5/16	2.35	60	0.18	4,7	1.21	31	1/2	3/4	3/4	1.57	40
25T21-8-8	1/2 3/4x16	13/32	2.83	72	0.18	4,7	1.31	33	5/8	7/8	7/8	1.91	49
25T21-10-10	5/8 7/8x14	1/2	3.33	85	0.18	4,7	1.50	38	3/4	1-1/16	1-1/16	2.33	59

25L21

Female Tube-O - Swivel - 90° Elbow - Long Pilot



#			A		D		E					B	
Part Number	Thread	Hose I.D.	inch	mm	inch	mm	inch	mm	inch	inch	inch	inch	mm
25L21-6-6	3/8 5/8x18	5/16	2.28	58	0.28	7,1	1.43	36	1/2	3/4	3/4	1.50	38
25L21-8-8	1/2 3/4x16	13/32	2.50	64	0.38	9,8	1.46	37	5/8	7/8	7/8	1.58	40
25L21-10-10	5/8 7/8x14	1/2	2.83	72	0.38	9,8	1.75	44	3/4	1-1/16	1-1/16	1.83	46

A

B

C

D

E

21 Series Hose Assembly Instructions

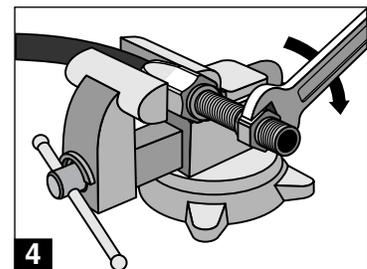
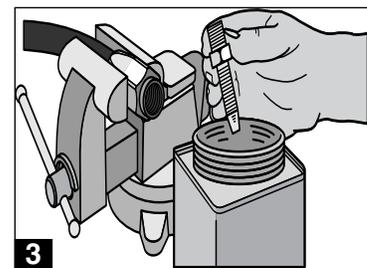
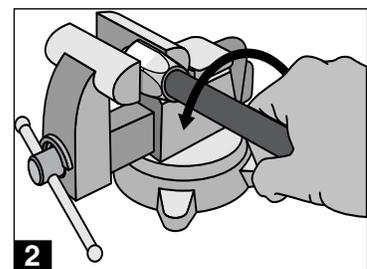
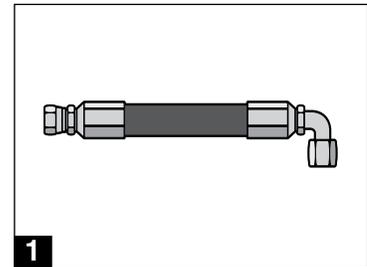
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained.
2. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out 1/2 turn.
3. Oil inside of hose and nipple threads liberally with Hoze-Oil. (See Section C). Do not oil hose cover.
4. Screw nipple assembly into socket using a wrench on the nipple hex until the nipple hex shoulders against the socket. A 1/32" to 1/16" gap between the nipple hex and socket is allowed for displacement angle adjustment when elbow fittings are used.

Inspection. Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

Special instructions for stainless steel fittings. When assembling fittings made with 316 stainless steel, lubricate the threads of both the socket and nipple with Accrolube High Efficiency Lubricant (see Section C) or equivalent metal assembly lubricant.

Note: Disassemble in reverse order.

IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL: PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT
 PHONE: 440 / 943-5700
 FAX: 440 / 943-3129
<http://www.parkerhose.com>



A
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