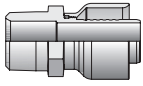
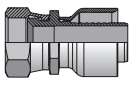
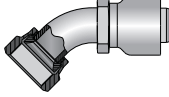
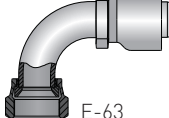
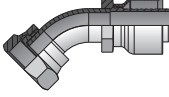
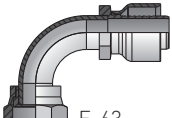
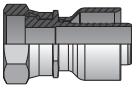
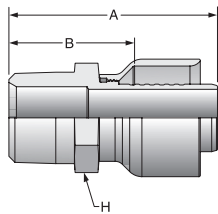


# Fittings - Permanent Crimp

## 93N Series

93N Series Permanent	<b>101</b> Male Taper Pipe Rigid	<b>106</b> Female JIC 37° Swivel	<b>137</b> Female JIC 37° Swivel 45° Elbow	<b>139</b> Female JIC 37° Swl. 90° Elbow Short	<b>1J7</b> Seal-Lok™ 45° Elbow
	 E-62	 E-62	 E-62	 E-63	 E-63
	<b>1J9</b> Seal-Lok™ 90° Elbow Short	<b>1JC</b> Seal-Lok™ Swivel Strt. Short			
	 E-63	 E-63			

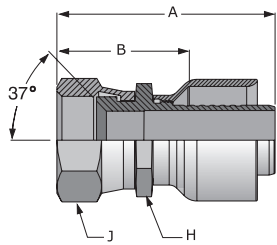
### 10193N Male Taper Pipe Rigid



Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
			inch	mm	inch	mm	inch
10193N-8-8	1/2-14	-8	2.09	53	1-1/2	38	7/8
10193N-12-12	3/4-14	-12	2.70	69	1-5/8	41	1-1/8
10193N-16-16	1-11-1/2	-16	3.03	77	1-13/16	46	1-3/8
10193N-20-20	1-1/4-11-1/2	-20	3.20	58	1-7/8	48	1-11/16
10193N-24-24	1-1/2-11-1/2	-24	3.76	96	2-1/16	52	2
10193N-32-32	2-11-1/2	-32	3.97	101	2-5/16	59	2-1/2

### 10693N (JIC) 37° Female Swivel

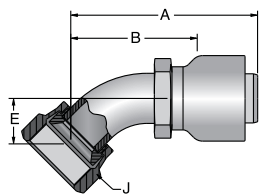


Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
			inch	mm	inch	mm	inch	inch
10693N-6-6	9/16-18	-6	1.69	43	1-3/32	28	3/4	11/16
10693N-8-8	3/4-16	-8	2.02	51	1-3/8	35	7/8	7/8
10693N-10-10	7/8-14	-10	2.51	64	1-11/16	43	1	1
10693N-12-12	1-1/16-12	-12	2.86	73	1-3/4	44	1-1/8	1-1/4
10693N-16-16	1-5/16-12	-16	3.11	79	1-13/16	46	1-3/8	1-1/2
10693N-20-20	1-5/8-12	-20	3.28	83	2	51	1-3/4	2
10693N-24-24	1-7/8-12	-24	3.92	58	2-1/4	57	2	2-1/4
10693N-32-32	2-1/2-12	-32	4.12	105	2-7/16	62	2-1/2	2-7/8

NOTE: Size -10 incorporates a dual seat.

### 13793N JIC 37° Swivel 45° Elbow



Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
			inch	mm	inch	mm	inch	mm	inch
13793N-12-12	1-1/16-12	-12	3.37	86	2-1/4	57	.78	20	1-1/4
13793N-16-16	1-5/16-12	-16	3.71	94	2-5/8	67	.90	23	1-1/2
13793N-20-20	1-5/8-12	-20	4.06	103	2-3/4	70	1.18	43	2
13793N-24-24	1-7/8-12	-24	5.76	146	4-1/4	108	1.47	37	2-1/4

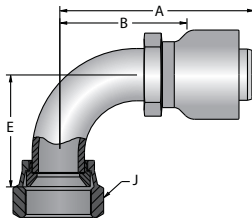
NOTE: Size -10 incorporates a dual seat.

**WARNING**  
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Fittings - Permanent Crimp

## 93N Series

### 13993N JIC 37° Swivel 90° Elbow Short Drop

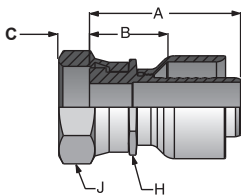


Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex inch
			inch	mm	inch	mm	inch	mm	
13993N-8-8	3/4-16	-8	2.20	56	1-9/16	40	1.09	28	7/8
13993N-10-10	7/8-14	-10	2.41	61	1-11/16	43	1.23	31	1
13993N-12-12	1-1/16-12	-12	3.28	83	2-3/16	56	1.82	46	1-1/4
13993N-16-16	1-5/16-12	-16	3.71	94	2-1/2	64	2.14	54	1-1/2
13993N-20-20	1-5/8-12	-20	3.89	99	2-9/16	65	2.57	43	2
13993N-24-24	1-7/8-12	-24	5.72	58	4-1/4	108	3.17	81	2-1/4

NOTE: Size -10 incorporates a dual seat.

### 1JC93N Seal-Lok™ Swivel Straight Short

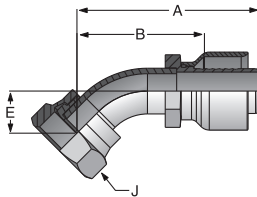


Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		C		H Hex inch	J Hex inch
			inch	mm	inch	mm	inch	mm		
1JC93N-12-12	1-3/16-12	-12	2.30	58	1-3/8	35	.57	14	1-3/8	1-3/8
1JC93N-16-16	1-7/16-12	-16	2.61	66	1-3/8	35	.58	15	1-3/8	1-5/8
1JC93N-20-20	1-11/16-12	-20	2.65	67	1-5/16	33	.59	15	1-7/8	1-7/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance

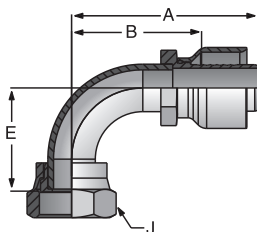
### 1J793N Seal-Lok™ 45° Elbow



Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex inch
			inch	mm	inch	mm	inch	mm	
1J793N-20-20	1-11/16-12	-20	4.25	108	2-15/16	75	1.00	25	1-7/8

### 1J993N Seal-Lok™ 90° Elbow Short Drop



Construction: Steel.  
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex inch
			inch	mm	inch	mm	inch	mm	
1J993N-20-20	1-11/16-12	-20	4.36	111	3-1/16	78	2.51	64	1-7/8

**WARNING**  
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).