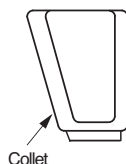
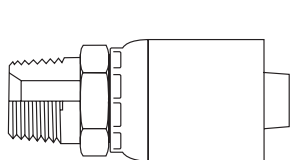


'Z' series

The next generation technology of Eaton's 'Z' Series hose ends are compatible with the most Weatherhead standard and newer generation hose styles combining best-in-class technologies to meet and exceed the highest globally recognized standards for 1 and 2 wire braid hydraulic hose assemblies.

The total array of over 550 'Z' Series hose ends meets virtually all customer needs for domestic and non-North American thread styles and configurations. The resulting hose assemblies provide superior performance in the demanding applications often encountered within mobile and industrial equipment.

**Ordering information:**

Order individually by catalog number. O-rings not supplied with flange hose ends. Order O-rings by catalog number; reference individual listings for details. For split flange kits refer to pages J-110-112 and for O-rings refer to pages J-112-113.

Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is less. For working pressure ratings for hose end configurations, refer to pages A-24-25.

Material: low carbon steel

Plating: trivalent zinc plated

Assemble with:

T-400-1, T-410-1, T-420-1, T-440, T-460, T-462, T-465, T-480, ET1000, ET1187, ET4000, ET4001, FT1380, FT1390, ET4020 and ET4040.

Label set: FF90645

Application: General purpose low, medium, and high pressure hydraulic.

Advantages:

Wide selection of hose and end configurations allowing a diverse number of applications.

To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Scribe line

**Easy assembly**

Z Series hose ends are assembled with Weatherhead hose using existing positive stop and variable crimp machines.

The hose ends have a scribe line around the circumference of the socket to easily identify the location where the collets and variable crimp dies are positioned for crimping.

"Bite-the-wire" technology

**Higher operating and burst pressure**

Z Series hose ends feature advanced "Bite-the-wire" technology:

- Advanced "Bite-the-wire" design provides higher operating and burst pressure
- Eliminates cool down leakage
- Flat crimp for easier routing
- Compatible with multiple hose styles to accommodate most application needs

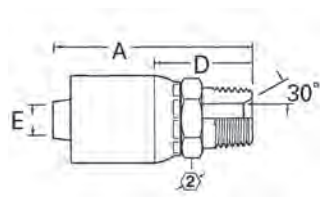
Crimp fittings

'Z' series

	Part number example	Page number
Male Pipe Rigid	08Z-108	H-31
Male Pipe Swivel	08Z-J08	H-31
Female Pipe Rigid	08Z-208	H-32
Female Pipe Swivel	08Z-258	H-32
Female Straight Pipe Swivel (NPSM)	08Z-058	H-32
Male Pipe Swivel 90° Elbow	08Z-M08	H-33
JIC/37° Female Swivel	08Z-608	H-33
JIC/37° Female Swivel 30° Tube Elbow	10Z-L22	H-34
JIC/37° Female Swivel 45° Tube Elbow	08Z-688	H-34
JIC/37° Female Swivel 90° Tube Elbow	08Z-668	H-35
JIC/37° Female Swivel 90° Long Drop Tube Elbow	08Z-648	H-35
JIC/37° Male Rigid	08Z-508	H-36
SAE 45° Female Swivel	08Z-408	H-36
SAE 45° Female Swivel 45° Tube Elbow	06Z-486	H-36
SAE 45° Female Swivel Long Drop 90° Tube Elbow	06Z-446	H-37
SAE 45° Flare Male Rigid	06Z-306	H-37
Female ORS Swivel	08Z-S68	H-37
Female ORS Swivel 45° Tube Elbow	08Z-L68	H-38
Female ORS Swivel Short Drop 90° Tube Elbow	08Z-A28	H-38
Female ORS Swivel Medium Drop 90° Tube Elbow	08Z-J38	H-39
Female ORS Swivel Long Drop 90° Tube Elbow	08Z-A68	H-39
ORS Male Rigid	08Z-E68	H-40
Male Straight Thread O-ring Rigid	08Z-P08	H-40
Male Straight Thread O-ring Swivel	08Z-R08	H-41
Male Straight Thread O-ring Swivel 90° Elbow	08Z-R68	H-41
Flareless Tube Rigid Ermeto 7000 Series	08Z-758	H-41
Flareless 45° Tube Elbow 7000 Ermeto Series	06Z-956	H-42
Flareless 90° Tube Elbow 7000 Ermeto Series	06Z-976	H-42
Inverted Male Swivel Straight	08Z-B08	H-42
Inverted Male Swivel 45° Tube Elbow	08Z-B48	H-43
Inverted Male Swivel 90° Tube Elbow	08Z-B68	H-43
Split Flange Straight (SAE Code 61)	12Z-G12	H-43
Split Flange 22.5° Tube Elbow (SAE Code 61)	16Z-H03	H-44
Split Flange 45° Tube Elbow (SAE Code 61)	12Z-G42	H-44
Split Flange 60° Tube Elbow (SAE Code 61)	16Z-H53	H-45
Split Flange 67° tube elbow (SAE Code 61)	20Z-H60	H-45
Split Flange 90° Tube Elbow (SAE Code 61)	12Z-G72	H-45
Metric Split Flange Straight (Komatsu, Linkbelt, etc.)	10Z-G09	H-46
Metric Split Flange 45° Tube Elbow (Komatsu, Linkbelt, etc.)	10Z-G69	H-46
Metric Split Flange 90° Tube Elbow (Komatsu, Linkbelt, etc.)	10Z-G99	H-46
READY-LOK® Male Connector	08Z-08S	H-47
Standpipe Straight Tube	08Z-T08	H-47
Metric Standpipe Straight Tube	08Z-45T	H-47
Pressure Washer Connection	06Z-6PW	H-48
BSPP Flat Face Female Swivel	08Z-08PA	H-48
British Standard (BSPP) 60° Cone Female Swivel Straight	08Z-358	H-48
British Standard (BSPP) 60° Cone Female 45° Tube Elbow	08Z-48P	H-49
British Standard (BSPP) 60° Cone Female 90° Tube Elbow	08Z-78P	H-49
British Standard (BSPT) Tapered Male Rigid	08Z-158	H-49
British Standard (BSPP) 60° Cone Male Rigid	08Z-P58	H-50
Female JIS 30° Flare Swivel Straight	08Z-08L	H-50
Female Swivel 30° Flare (Komatsu, Linkbelt)	08Z-22K	H-50
Female Swivel DIN 24° Seat I.Rh DKO (Light)	08Z-15C	H-51
Female Swivel DIN Universal Seat 45° Tube Elbow (Light)	08Z-15D	H-51
Female Swivel DIN Universal Seat 90° Tube Elbow (Light)	08Z-65D	H-51
Male DIN 24° Seat I.Rh (Light)	08Z-15A	H-52
Female Swivel DIN 24° Seat s.Rh DKO (Heavy)	08Z-64C	H-52
Female Swivel DIN 24° Seat 45° Tube Elbow s.Rh (Heavy)	08Z-16E	H-52
Female Swivel DIN 24° Seat 90° Tube Elbow s.Rh DKO (Heavy)	08Z-66E	H-53
Male DIN 24° Seat s.Rh (Heavy)	08Z-16F	H-53
STC Male Straight	08Z-BC08	H-54
STC Male 45° Tube Elbow	08Z-BC48	H-54
STC Male 90° Tube Elbow	08Z-BC68	H-54
STC Male 90° Long Drop Tube Elbow	08Z-BC88	H-54

'Z' series

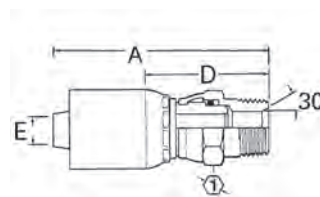
Male pipe rigid



* Stainless Steel

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		②
			mm	in	mm	in	mm	in	
04Z-102	1/8-27	-04	46,7	1.84	23,4	0.92	4,3	0.17	9/16
04Z-104	1/4-18	-04	52,3	2.06	29,0	1.14	4,3	0.17	9/16
04ZR-104*	1/4-18	-04	52,3	2.06	29,0	1.14	4,3	0.17	9/16
04Z-106	3/8-18	-04	48,3	1.90	24,9	0.98	4,3	0.17	11/16
04Z-108	1/2-14	-04	51,3	2.02	31,2	1.23	4,3	0.17	7/8
06Z-104	1/4-18	-06	55,4	2.18	30,0	1.18	6,6	0.26	11/16
06Z-106	3/8-18	-06	57,7	2.27	32,5	1.28	6,6	0.26	11/16
06ZR-106*	3/8-18	-06	57,7	2.27	32,5	1.28	6,6	0.26	11/16
06Z-108	1/2-14	-06	57,7	2.27	32,5	1.28	4,1	0.16	7/8
08Z-104	1/4-18	-08	61,0	2.40	31,2	1.23	7,6	0.30	13/16
08Z-106	3/8-18	-08	63,2	2.49	33,5	1.32	9,7	0.38	13/16
08Z-108	1/2-14	-08	69,6	2.74	39,6	1.56	9,7	0.38	7/8
08ZR-108*	1/2-14	-08	69,6	2.74	39,6	1.56	9,7	0.38	7/8
08Z-112	3/4-14	-08	65,0	2.56	35,3	1.39	9,7	0.38	11/16
10Z-106	3/8-18	-10	59,9	2.36	33,8	1.33	10,7	0.42	15/16
10Z-108	1/2-14	-10	69,6	2.74	40,1	1.58	12,7	0.50	15/16
10Z-112	3/4-14	-10	65,0	2.56	35,6	1.40	12,7	0.50	11/16
12Z-108	1/2-14	-12	70,6	2.78	40,6	1.60	14,2	0.56	11/8
12Z-112	3/4-14	-12	72,1	2.84	41,9	1.65	15,5	0.61	11/8
12ZR-112*	3/4-14	-12	72,1	2.84	41,9	1.65	15,5	0.61	11/8
12Z-116	1-11 1/2	-12	71,1	2.80	40,9	1.61	15,5	0.61	13/8
16Z-112	3/4-14	-16	76,7	3.02	42,4	1.67	19,3	0.76	13/8
16Z-116	1-11 1/2	-16	81,8	3.22	47,2	1.86	20,8	0.82	13/8
16ZR-116*	1-11 1/2	-16	81,8	3.22	47,2	1.86	20,8	0.82	13/8
16Z-120	1 1/4-11 1/2	-16	78,2	3.08	43,7	1.72	20,8	0.82	11 1/16
20Z-116	1-11 1/2	-20	93,0	3.66	49,0	1.93	24,1	0.95	13/4
20Z-120	1 1/4-11 1/2	-20	89,4	3.52	45,5	1.79	26,7	1.05	1 13/16
24Z-124	1 1/2-11 1/2	-24	106,2	4.18	59,9	2.36	32,0	1.26	2
32Z-132	2-11 1/2	-32	116,6	4.59	66,3	2.61	44,5	1.75	2 1/2

Male pipe swivel



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		①
			mm	in	mm	in	mm	in	
04Z-J04	1/4-18	-04	64,5	2.54	41,4	1.62	4,3	0.17	3/4
06Z-J04	1/4-18	-06	63,5	2.54	42,4	1.67	6,6	0.26	3/4
06Z-J06	3/8-18	-06	67,6	2.66	42,4	1.67	6,6	0.26	7/8
06Z-J08	1/2-14	-06	72,4	2.85	47,0	1.85	6,6	0.26	7/8
08Z-J06	3/8-18	-08	73,2	2.88	43,4	1.71	9,7	0.38	7/8
08Z-J08	1/2-14	-08	79,5	3.13	49,8	1.96	9,7	0.38	15/16
12Z-J12	3/4-14	-12	82,3	3.24	52,1	2.05	15,5	0.61	13/8
16Z-J16	1-11 1/2	-16	98,6	3.88	64,3	2.53	20,6	0.81	1 1/2

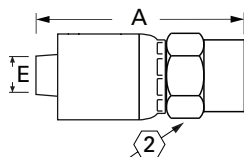
Crimp fittings

'Z' series

H

'Z' series

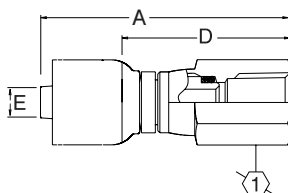
Female pipe rigid



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor		EØ		2
			mm	in	mm	in	mm	in	
04Z-202	1/8-27	-04	52,6	2.07	32,5	1.28	4,3	0.17	9/16
04Z-204	1/4-18	-04	58,4	2.30	38,4	1.51	4,3	0.17	3/4
06Z-204	1/4-18	-06	58,4	2.30	37,1	1.46	6,6	0.26	3/4
06Z-206	3/8-18	-06	61,2	2.41	39,9	1.57	6,6	0.26	7/8
08Z-208	1/2-14	-08	66,5	2.62	42,0	1.65	9,7	0.38	1 1/16
12Z-212	3/4-14	-12	90,9	3.58	64,0	2.52	15,5	0.61	1 5/16

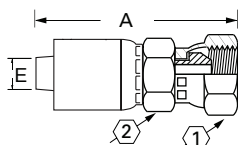
* G as part of thread size is ISO Designation for parallel thread.

Female pipe swivel



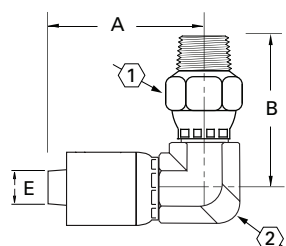
Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		1
			mm	in	mm	in	mm	in	
04Z-254	1/4-18	-04	72,9	2.87	49,5	1.95	4,3	0.17	3/4
06Z-256	3/8-18	-06	75,4	2.97	50,0	1.97	6,6	0.26	7/8
08Z-258	1/2-14	-08	90,9	3.58	61,2	2.41	9,7	0.38	1 1/16
12Z-262	3/4-14	-12	92,2	3.63	62,0	2.44	15,5	0.61	1 3/8
16Z-266	1-11 1/2	-16	111,0	4.37	77,5	3.05	20,6	0.81	1 5/8

Female straight pipe swivel (NPSM)



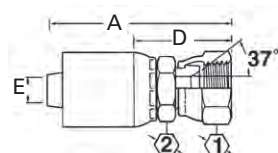
Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		2	1
			mm	in	mm	in	mm	in		
04Z-054	1/4-18	-04	47,8	1.88	27,7	1.09	4,3	0.17	9/16	1 1/16
06Z-056	3/8-18	-06	51,8	2.04	30,5	1.20	6,6	0.26	1 1/16	7/8
08Z-058	1/2-14	-08	61,0	2.40	35,8	1.41	9,7	0.38	7/8	1
12Z-062	3/4-14	-12	66,5	2.62	39,6	1.56	15,5	0.61	1 1/8	1 1/4
16Z-066	1-11 1/2	-16	79,0	3.11	29,9	1.18	20,8	0.81	1 3/8	1 1/2
20Z-070	1 1/4-11 1/2	-20	92,7	3.65	53,3	2.10	26,7	1.05	1 3/4	1 7/8

'Z' series

Male pipe swivel
90° elbow

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		2	1	B
			mm	in	mm	in	mm	in			
04Z-M04	1/4-18	-04	54,6	2.15	31,2	1.23	4,3	0.17	3/4	3/4	1.81
06Z-M04	1/4-18	-06	54,9	2.16	33,7	1.33	6,6	0.26	3/4	7/8	1.96
06Z-M06	3/8-18	-06	59,2	2.33	33,7	1.33	6,6	0.26	3/4	7/8	1.80
08Z-M08	1/2-14	-08	68,1	2.68	38,3	1.51	9,6	0.38	3/4	15/16	2.05
12Z-M12	3/4-14	-12	94,5	3.72	64,2	2.53	15,4	0.61	1 1/4	1 3/8	2.72

JIC/37° female swivel



* Stainless steel

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		1	2
			mm	in	mm	in	mm	in	in	in
04Z-603	3/8-24	-04	49,3	1.94	25,9	1.02	3,3	0.13	1 1/2	9/16
04Z-604	7/16-20	-04	50,8	2.00	27,2	1.07	4,3	0.17	9/16	9/16
04ZR-604*	7/16-20	-04	50,8	2.00	27,2	1.07	4,3	0.17	9/16	9/16
04Z-605	1/2-20	-04	50,3	1.98	26,9	1.06	4,3	0.17	5/8	9/16
04Z-606	9/16-18	-04	51,6	2.03	28,2	1.11	4,3	0.17	11/16	9/16
06Z-604	7/16-20	-06	55,6	2.19	30,2	1.19	4,3	0.17	9/16	11/16
06Z-605	1/2-20	-06	56,9	2.24	31,5	1.24	5,8	0.23	5/8	11/16
06Z-606	9/16-18	-06	57,9	2.28	32,5	1.28	6,6	0.26	11/16	11/16
06ZR-606*	9/16-18	-06	57,9	2.28	32,5	1.28	6,6	0.26	11/16	11/16
06Z-608	3/4-16	-06	58,7	2.31	33,3	1.31	6,6	0.26	7/8	11/16
06Z-610	7/8-14	-06	57,4	2.26	13,2	0.52	6,6	0.26	1	13/16
06Z-612	1 1/16-12	-06	59,5	2.34	38,4	1.51	6,7	0.26	1 1/4	1
08Z-606	9/16-18	-08	59,9	2.36	34,5	1.36	9,6	0.33	11/16	13/16
08Z-608	3/4-16	-08	66,8	2.63	37,1	1.46	9,7	0.38	7/8	13/16
08ZR-608*	3/4-16	-08	66,8	2.63	37,1	1.46	9,7	0.38	7/8	13/16
08Z-610	7/8-14	-08	67,1	2.64	37,3	1.47	9,7	0.38	1	13/16
08Z-612	1 1/16-12	-08	69,3	2.73	39,6	1.56	9,7	0.38	1 1/4	1
08Z-616	1 5/16-12	-08	77,7	3.06	48,0	1.89	9,7	0.38	1 1/2	1 1/4
10Z-608	3/4-16	-10	67,3	2.65	38,1	1.50	9,9	0.39	7/8	15/16
10Z-610	7/8-14	-10	70,4	2.77	40,9	1.61	12,7	0.50	1	15/16
10ZR-610*	7/8-14	-10	70,4	2.77	40,9	1.61	12,7	0.50	1	15/16
10Z-612	1 1/16-12	-10	69,1	2.72	39,9	1.57	12,7	0.50	1 1/4	1
12Z-608	3/4-16	-12	66,0	2.60	38,8	1.53	9,9	0.39	7/8	1 1/8
12Z-610	7/8-14	-12	71,4	2.81	41,4	1.63	12,2	0.48	1	1 1/8
12Z-612	1 1/16-12	-12	72,1	2.84	41,9	1.65	15,5	0.61	1 1/4	1 1/8
12ZR-612*	1 1/16-12	-12	72,1	2.84	41,9	1.65	15,5	0.61	1 1/4	1 1/8
12Z-614	1 3/16-12	-12	72,1	2.84	41,9	1.65	15,5	0.61	1 3/8	1 1/8
12Z-616	1 5/16-12	-12	73,9	2.91	43,7	1.72	15,5	0.61	1 1/2	1 1/4
16Z-612	1 1/16-12	-16	80,0	3.15	45,7	1.80	15,5	0.61	1 1/4	1 3/8
16Z-614	1 3/16-12	-16	80,0	3.15	46,5	1.83	20,6	0.81	1 3/8	1 3/8
16Z-616	1 5/16-12	-16	83,6	3.29	49,0	1.93	20,6	0.81	1 1/2	1 3/8
16ZR-616*	1 5/16-12	-16	83,6	3.29	49,0	1.93	20,6	0.81	1 1/2	1 3/8
16Z-620	1 5/8-12	-16	80,5	3.17	46,0	1.81	20,6	0.81	2	
20Z-616	1 5/16-12	-20	87,9	3.46	43,9	1.73	21,6	0.85	1 1/2	
20Z-620	1 5/8-12	-20	91,7	3.61	47,8	1.88	26,7	1.05	2	
24Z-624	1 7/8-12	-24	99,1	3.90	52,6	2.07	32,0	1.26	2 1/4	
32Z-632	2 1/2-12	-32	110,2	4.34	60,7	2.39	44,5	1.75	2 7/8	

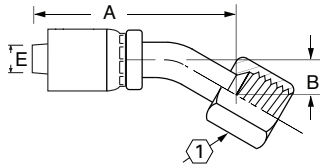
Crimp fittings


'Z' series

H

'Z' series

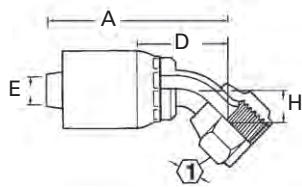
JIC/37° female swivel 30° tube elbow




Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ			B
			mm	in	mm	in	mm	in		
10Z-L22	1 ¹ / ₁₆ -12	-10	86,1	3.39	60,5	2.38	12,7	0.51	1/4 Hex	0.69

JIC/37° female swivel 45° tube elbow

(Exceptions noted)



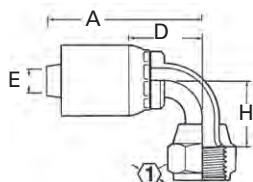
Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		
			mm	in	mm	in	mm	in	mm	in	
04Z-684 ^a	7/16-20	-04	49,8	1.96	26,4	1.04	3,8	0.15	8,4	0.33	9/16
04Z-685 ^a	1/2-20	-04	51,8	2.04	28,4	1.12	4,3	0.17	9,4	0.37	5/8
04Z-686	9/16-18	-04	53,1	2.09	29,7	1.17	4,3	0.17	9,9	0.39	11/16
06Z-684 ^a	7/16-20	-06	44,5	1.75	23,4	0.92	4,1	0.16	8,4	0.33	9/16
06Z-686	9/16-18	-06	58,7	2.31	33,3	1.31	6,1	0.24	9,9	0.39	11/16
06Z-688 ^a	3/4-16	-06	67,3	2.65	42,2	1.66	6,6	0.26	14,0	0.55	7/8
08Z-688 ^a	3/4-16	-08	71,6	2.82	41,9	1.65	9,4	0.37	14,0	0.55	7/8
08Z-690 ^a	7/8-14	-08	77,0	3.03	47,2	1.86	9,7	0.38	15,0	0.59	1
10Z-690 ^a	7/8-14	-10	74,7	2.94	45,5	1.79	11,7	0.46	15,0	0.59	1
10Z-692	1 ¹ / ₁₆ -12	-10	85,9	3.38	56,4	2.22	12,7	0.50	19,8	0.78	1 ¹ / ₄
12Z-696	1 ⁵ / ₁₆ -12	-12	87,1	3.43	60,2	2.37	15,5	0.61	26,9	1.06	1 ¹ / ₂
12Z-692	1 ¹ / ₁₆ -12	-12	87,1	3.43	56,9	2.24	14,7	0.58	19,8	0.78	1 ¹ / ₄
16Z-696	1 ⁵ / ₁₆ -12	-16	95,0	3.74	60,7	2.39	19,3	0.76	27,2	1.07	1 ¹ / ₂
20Z-697	1 ⁵ / ₈ -12	-20	112,8	4.44	68,8	2.71	25,7	1.01	31,0	1.22	2

^a Swivel nuts are universal – both SAE 37° and 45° connections.

'Z' series

JIC/37° female swivel
90° elbow

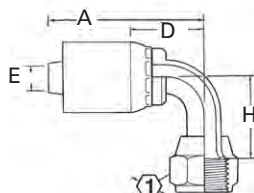
(Exceptions noted)



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-664 ^a	7/16-20	-04	46,7	1.84	23,4	0.92	3,8	0.15	17,3	0.68	9/16
04Z-665 ^a	1/2-20	-04	48,8	1.92	25,4	1.00	4,3	0.17	19,3	0.76	5/8
04Z-666	9/16-18	-04	50,8	2.00	27,4	1.08	4,3	0.17	21,3	0.84	11/16
06Z-664 ^a	7/16-20	-06	46,0	1.81	24,9	0.98	4,1	0.16	17,3	0.68	9/16
06Z-666	9/16-18	-06	56,1	2.21	31,0	1.22	6,1	0.24	21,3	0.84	11/16
06Z-668 ^a	3/4-16	-06	61,5	2.42	36,1	1.42	6,6	0.26	27,7	1.09	7/8
08Z-666	9/16-18	-08	61,7	2.43	32,0	1.26	6,1	0.24	21,3	0.84	11/16
08Z-668 ^a	3/4-16	-08	65,8	2.59	36,1	1.42	9,4	0.37	27,7	1.09	7/8
08Z-670 ^a	7/8-14	-08	70,6	2.78	41,0	1.61	9,7	0.38	30,2	1.19	1
10Z-670 ^a	7/8-14	-10	68,6	2.70	39,4	1.55	11,4	0.45	30,2	1.19	1
10Z-672	1 1/16-12	-10	84,1	3.31	54,9	2.16	12,7	0.50	45,7	1.80	1 1/4
12Z-670 ^a	7/8-14	-12	65,3	2.57	39,6	1.56	11,7	0.46	30,2	1.19	1
12Z-672	1 1/16-12	-12	85,4	3.36	55,1	2.17	17,4	0.58	45,7	1.80	1 1/4
12Z-676	1 5/16-12	-12	85,6	3.37	55,4	2.18	15,5	0.61	60,7	2.39	1 1/2
16Z-676	1 5/16-12	-16	90,4	3.56	55,9	2.20	19,3	0.76	60,7	2.39	1 1/2
16Z-677	1 5/8-12	-16	95,8	3.77	62,2	2.45	20,8	0.82	69,9	2.75	2
20Z-677	1 5/8-12	-20	108,0	4.25	64,0	2.52	25,7	1.01	69,9	2.75	2
24Z-678	1 7/8-12	-24	117,6	4.63	71,4	2.81	32,0	1.26	80,5	3.17	2 1/4

^a Swivel nuts are universal – both SAE 37° and 45° connections.JIC/37° female swivel
90° long drop tube elbow

(Exceptions noted)



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-644 ^a	7/16-20	-04	46,7	1.84	23,4	0.92	3,8	0.15	45,7	1.80	9/16
04Z-645 ^a	1/2-20	-04	48,8	1.92	25,4	1.00	4,3	0.17	45,7	1.80	5/8
06Z-644 ^a	7/16-20	-06	46,0	1.81	24,9	0.98	4,3	0.17	45,7	1.80	9/16
06Z-646	9/16-18	-06	56,4	2.22	31,2	1.23	6,1	0.24	55,4	2.18	11/16
06Z-648 ^a	3/4-16	-06	64,5	2.54	39,1	1.54	6,6	0.26	62,2	2.45	7/8
08Z-648 ^a	3/4-16	-08	68,8	2.71	39,1	1.54	9,4	0.37	62,2	2.45	7/8
08Z-650 ^a	7/8-14	-08	70,6	2.78	40,9	1.61	9,7	0.38	65,3	2.57	1
10Z-650 ^a	7/8-14	-10	68,6	2.70	39,1	1.54	11,7	0.46	65,3	2.57	1
12Z-652 *	1 1/16-12	-12	85,3	3.36	55,1	2.17	14,7	0.58	94,0	3.70	1 1/4
16Z-656 **	1 5/16-12	-16	90,4	3.56	55,9	2.20	19,3	0.76	116,3	4.58	1 1/2
20Z-657	1 5/8-12	-20	108,0	4.25	64,0	2.52	25,7	1.01	140,5	5.53	2

^a Swivel nuts are universal – both SAE 37° and 45° connections.

* The 90° long drop tube elbow configuration meets a 3.5:1 burst, based on 4000psi operating pressure.

**The 90° long drop tube elbow configuration meets a 3.7:1 burst, based on 3000psi operating pressure.

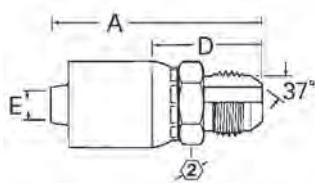
Crimp fittings

'Z' series

H

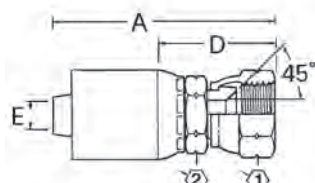
'Z' series

JIC/37° male rigid



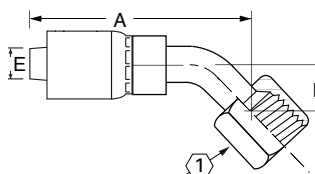
Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		②
			mm	in	mm	in	mm	in	
04Z-504	7/16-20	-04	50,8	2.00	27,2	1.07	4,3	0.17	9/16
04Z-505	1/2-20	-04	46,7	1.84	23,4	0.92	4,3	0.17	9/16
04Z-506	9/16-18	-04	47,0	1.85	23,6	0.93	4,3	0.17	5/8
06Z-506	9/16-18	-06	54,9	2.16	29,7	1.17	6,6	0.26	11/16
06Z-508	3/4-16	-06	53,3	2.10	28,2	1.11	6,6	0.26	13/16
06Z-510	7/8-14	-06	53,3	2.10	30,7	1.21	6,6	0.26	15/16
08Z-508	3/4-16	-08	65,3	2.57	35,8	1.41	9,7	0.38	13/16
08Z-510	7/8-14	-08	61,5	2.42	32,0	1.26	9,7	0.38	15/16
08Z-512	1 1/16-12	-08	65,8	2.59	36,1	1.42	9,7	0.38	1 1/8
10Z-508	3/4-16	-10	61,7	2.43	35,8	1.41	12,7	0.50	15/16
10Z-510	7/8-14	-10	69,3	2.73	39,9	1.57	12,2	0.48	15/16
10Z-512	1 1/16-12	-10	65,8	2.59	36,3	1.43	12,7	0.50	1 1/8
12Z-510	7/8-14	-12	70,6	2.78	40,4	1.59	12,2	0.48	1 1/8
12Z-512	1 1/16-12	-12	74,7	2.94	44,5	1.75	15,5	0.61	1 1/8
12Z-514	1 3/16-12	-12	69,3	2.73	39,1	1.54	15,5	0.61	1 1/4
12Z-516	1 5/16-12	-12	69,9	2.75	39,6	1.56	15,5	0.61	1 3/8
16Z-514	1 3/16-12	-16	79,0	3.11	45,7	1.80	18,3	0.72	1 3/8
16Z-516	1 5/16-12	-16	82,6	3.25	48,3	1.90	20,8	0.82	1 3/8
16Z-520	1 5/8-12	-16	77,0	3.03	43,4	1.71	20,6	0.81	1 11/16
20Z-520	1 5/8-12	-20	98,8	3.89	54,9	2.16	26,7	1.05	1 3/4
24Z-524	1 7/8-12	-24	109,5	4.31	63,2	2.49	32,0	1.26	2

SAE 45° female swivel



Z Series Part number	Thd.	Hose Size	A		Hose cut-off factor (D)		EØ		①	②
			mm	in	mm	in	mm	in	in	in
04Z-404	7/16-20	-04	50,8	2.00	27,2	1.07	4,3	0.17	9/16	9/16
06Z-404	7/16-20	-06	55,6	2.19	30,2	1.19	4,8	0.19	9/16	11/16
06Z-406	5/8-18	-06	58,7	2.31	33,3	1.31	6,6	0.26	3/4	11/16
06Z-408	3/4-16	-06	58,7	2.31	33,3	1.31	6,6	0.26	7/8	11/16
08Z-408	3/4-16	-08	66,8	2.63	37,1	1.46	9,7	0.38	7/8	13/16
08Z-410	7/8-14	-08	67,1	2.64	37,3	1.47	9,7	0.38	1	13/16
12Z-412	1 1/16-14	-12	72,1	2.84	41,9	1.65	15,5	0.61	1 1/4	1 1/8

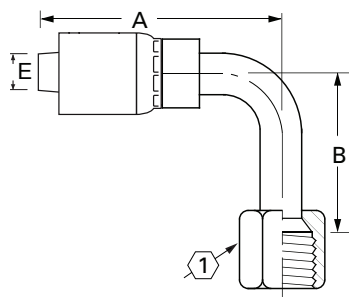
SAE 45° female swivel 45° tube elbow



Z Series Part number	Thd.	Hose Size	A		Hose cut-off factor (D)		EØ		①	B
			mm	in	mm	in	mm	in		
06Z-486	5/8-18	-06	58,2	2.29	36,8	1.45	6,1	0.24	3/4	0.73

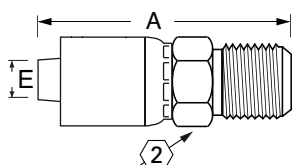
'Z' series

SAE 45° female swivel long drop 90° tube elbow



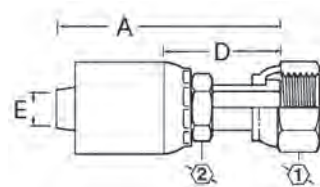
Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(1)	B
			mm	in	mm	in	mm	in		
06Z-446	5/8-18	-06	47,5	1.87	26,2	1.03	6.1	0.24	3/4	2.18

SAE 45° flare male rigid



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(2)
			mm	in	mm	in	mm	in	
06Z-306	5/8-18	-06	52,3	2.06	31,2	1.23	6,6	0.26	1 1/16
12Z-312	1 1/16-14	-12	74,7	2.94	47,8	1.88	15,5	0.61	1 1/8

Female ORS swivel



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(1)	(2)
			mm	in	mm	in	mm	in	in	in
04Z-S64	9/16-18	-04	49,5	1.95	26,2	1.03	4,3	0.17	1 1/16	9/16
04Z-S66	1 1/16-16	-04	51,8	2.04	28,4	1.12	4,3	0.17	1 3/16	5/8
04Z-S68	1 3/16-16	-04	52,3	2.06	32,5	1.28	4,1	0.16	1 3/16	15/16
06Z-S64	9/16-18	-06	54,4	2.14	29,2	1.15	4,3	0.17	1 1/16	1 1/16
06Z-S66	1 1/16-16	-06	56,6	2.23	31,5	1.24	6,6	0.26	1 3/16	1 1/16
06Z-S68	1 3/16-16	-06	58,9	2.32	33,5	1.32	6,6	0.26	1 5/16	1 3/16
08Z-S66	1 1/16-16	-08	63,8	2.51	34,0	1.34	6,6	0.26	1 3/16	7/8
08Z-S68	1 3/16-16	-08	67,8	2.67	38,1	1.50	9,7	0.38	1 5/16	7/8
08Z-S70	1-14	-08	67,1	2.64	37,3	1.47	9,7	0.38	1 1/8	1 5/16
08Z-S72	1 3/16-12	-08	71,1	2.80	41,4	1.63	9,7	0.38	1 3/8	1 1/8
10Z-S68	1 3/16-16	-10	67,8	2.67	38,4	1.51	9,7	0.38	1 5/16	1 5/16
10Z-S70	1-14	-10	70,1	2.76	40,9	1.61	12,2	0.48	1 1/8	1 5/16
10Z-S72	1 3/16-12	-10	70,9	2.79	41,4	1.63	12,7	0.50	1 3/8	1 1/8
12Z-S70	1-14	-12	71,4	2.81	41,4	1.62	12,2	0.48	1 1/8	1 1/8
12Z-S72	1 3/16-12	-12	73,9	2.91	43,7	1.72	15,5	0.61	1 3/8	1 1/8
12Z-S76	1 7/16-12	-12	75,7	2.98	45,5	1.79	15,5	0.61	1 5/8	1 3/8
16Z-S72	1 3/16-12	-16	81,8	3.22	47,2	1.86	15,5	0.61	1 3/8	1 3/8
16Z-S76	1 7/16-12	-16	83,6	3.29	49,3	1.94	20,6	0.81	1 5/8	1 3/8
16Z-S80	1 11/16-12	-16	82,6	3.25	48,3	1.90	20,6	0.81	1 7/8	1 5/8
20Z-S80	1 11/16-12	-20	98,8	3.89	59,2	2.33	25,9	1.02	1 7/8	1 3/4
20Z-S84	2-12	-20	94,6	3.88	54,6	2.15	26,7	1.05	2 1/4	1 13/16
24Z-S84	2-12	-24	102,1	4.02	55,6	2.19	32,0	1.26	2 1/4	2

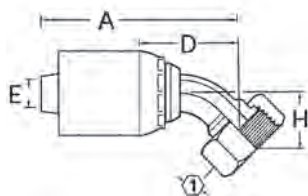
Crimp fittings

'Z' series

H

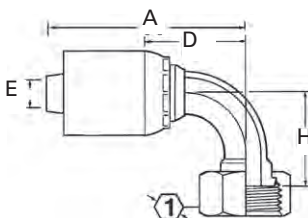
'Z' series

Female ORS swivel 45° tube elbow



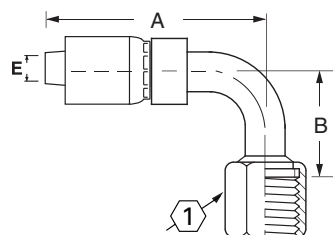
Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-L64	9/16-18	-04	53,8	2.12	30,5	1.20	4,3	0.17	10,2	0.40	11/16
04Z-L66	11/16-16	-04	58,4	2.30	35,1	1.38	4,3	0.17	10,9	0.43	13/16
06Z-L64	9/16-18	-06	58,4	2.30	33,0	1.30	4,3	0.17	10,4	0.41	11/16
06Z-L66	11/16-16	-06	61,7	2.43	36,3	1.43	6,6	0.26	10,9	0.43	13/16
06Z-L68	13/16-16	-06	69,6	2.74	44,2	1.74	6,6	0.26	15,0	0.59	15/16
08Z-L66	11/16-16	-08	67,3	2.65	37,6	1.48	6,6	0.26	10,9	0.43	13/16
08Z-L68	13/16-16	-08	75,2	2.96	45,5	1.79	9,1	0.36	15,0	0.59	15/16
08Z-L70	1-14	-08	80,8	3.18	51,1	2.01	9,7	0.38	16,5	0.65	1 1/8
08Z-L72	13/16-12	-08	89,2	3.51	59,4	2.34	9,7	0.38	21,1	0.83	13/8
10Z-L70	1-14	-10	77,5	3.05	51,1	2.01	11,4	0.45	16,5	0.65	1 1/8
10Z-L72	13/16-12	-10	89,4	3.52	59,9	2.36	12,7	0.50	21,1	0.83	13/8
12Z-L70	1-14	-12	78,5	3.09	51,8	2.04	11,4	0.45	16,5	0.65	1 1/8
12Z-L72	13/16-12	-12	90,7	3.57	60,5	2.38	14,0	0.55	21,1	0.83	13/8
12Z-L76	17/16-12	-12	102,6	4.04	72,4	2.85	15,5	0.61	23,9	0.94	15/8
16Z-L72	13/16-12	-16	94,5	3.72	60,9	2.40	14,0	0.55	21,1	0.83	13/8
16Z-L76	17/16-12	-16	107,4	4.23	73,2	2.88	19,8	0.78	23,9	0.94	15/8
16Z-L80	1 11/16-12	-16	117,3	4.62	83,8	3.30	20,7	0.81	25,4	1.00	17/8
20Z-L80	1 11/16-12	-20	129,5	5.10	85,6	3.37	25,9	1.02	25,4	1.00	17/8
20Z-L84	2-12	-20	139,4	5.49	95,5	3.76	25,7	1.01	27,2	1.07	2 1/4
24Z-L84	2-12	-24	115,3	4.54	68,8	2.71	32,0	1.26	27,2	1.07	2 1/4

Female ORS swivel short drop 90° tube elbow

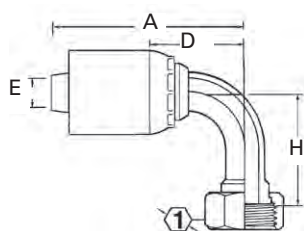


Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-A24	9/16-18	-04	53,1	2.09	29,7	1.17	4,3	0.17	20,8	0.82	11/16
04Z-A26	11/16-16	-04	56,4	2.22	33,0	1.30	4,3	0.17	22,9	0.90	13/16
06Z-A24	9/16-18	-06	56,1	2.21	30,7	1.21	4,3	0.17	20,8	0.82	11/16
06Z-A26	11/16-16	-06	59,4	2.34	34,0	1.34	6,6	0.26	22,9	0.90	13/16
06Z-A28	13/16-16	-06	66,5	2.62	41,4	1.62	6,6	0.26	29,2	1.15	15/16
08Z-A26	11/16-16	-08	65,0	2.56	35,3	1.39	6,6	0.26	22,9	0.90	13/16
08Z-A28	13/16-16	-08	72,1	2.84	42,4	1.67	9,1	0.36	29,2	1.15	15/16
08Z-A30	1-14	-08	78,0	3.07	48,5	1.91	9,7	0.38	32,3	1.27	1 1/8
08Z-A32	13/16-12	-08	87,6	3.45	57,9	2.28	9,7	0.38	47,8	1.88	13/8
10Z-A30	1-14	-10	78,0	3.07	48,5	1.91	11,4	0.45	32,3	1.27	1 1/8
10Z-A32	13/16-12	-10	87,4	3.44	58,2	2.29	12,7	0.50	47,8	1.88	13/8
12Z-A30	1-14	-12	79,0	3.11	49,0	1.93	11,4	0.45	32,3	1.27	1 1/8
12Z-A32	13/16-12	-12	88,6	3.49	58,4	2.30	14,0	0.55	47,8	1.88	13/8
12Z-A36	17/16-12	-12	102,6	4.04	72,4	2.85	15,5	0.61	56,1	2.21	15/8
16Z-A36	17/16-12	-16	107,2	4.22	72,9	2.87	20,6	0.81	56,1	2.21	15/8
16Z-A40	1 11/16-12	-16	123,2	4.85	89,0	3.50	20,6	0.81	63,8	2.51	17/8
20Z-A40	1 11/16-12	-20	134,6	5.30	90,7	3.57	25,9	1.02	63,8	2.51	17/8
20Z-A44	2-12	-20	109,7	4.32	70,4	2.77	26,6	1.05	68,6	2.70	2 1/4
24Z-A40	1 11/16-12	-24	117,6	4.63	71,4	2.81	32,0	1.26	68,6	2.70	2 1/4
24Z-A44	2-12	-24	117,6	4.63	71,4	2.81	32,0	1.26	68,6	2.70	2 1/4

'Z' series

Female ORS swivel
medium drop 90° tube elbow

Z Series Part number	Thd.	Hose Size	A		Hose cut-off factor (D)		EØ		1	B
			mm	in	mm	in	mm	in		
04Z-J34	9/16-18	-04	49,5	1.95	29,7	1.17	4,3	0.17	11/16	1.26
04Z-J36	11/16-16	-04	55,1	2.17	32,8	1.29	4,3	0.17	13/16	1.51
04Z-J38	13/16-16	-04	55,9	2.20	35,8	1.41	4,3	0.17	15/16	1.67
06Z-J36	11/16-16	-06	55,1	2.17	34,0	1.34	6,6	0.26	13/16	1.51
06Z-J38	13/16-16	-06	57,4	2.26	36,1	1.42	6,6	0.26	15/16	1.67
08Z-J36	11/16-16	-08	63,0	2.48	37,6	1.48	6,1	0.24	13/16	1.51
08Z-J38	13/16-16	-08	67,6	2.66	42,4	1.67	9,1	0.36	15/16	1.62
08Z-J42	13/16-12	-08	98,3	3.87	72,9	2.87	9,7	0.38	13/8	2.13
10Z-J40	1-14	-10	74,4	2.93	48,5	1.91	11,4	0.45	11/8	1.85
12Z-J40	1-14	-12	67,6	2.66	40,6	1.60	11,4	0.45	11/8	1.78
12Z-J42	13/16-12	-12	85,3	3.36	58,4	2.30	13,9	0.55	13/8	2.28
16Z-J46	17/16-12	-16	106,2	4.18	72,6	2.86	19,8	0.78	15/8	2.78
16Z-J50	111/16-12	-16	141,2	5.56	107,7	4.24	20,6	0.81	17/8	3.06
20Z-J50	111/16-12	-20	148,8	5.86	109,5	4.31	23,6	0.93	17/8	3.06

Female ORS swivel
long drop 90° tube elbow

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-A64	9/16-18	-04	53,1	2.09	29,7	1.17	4,3	0.17	45,7	1.80	11/16
04Z-A66	11/16-16	-04	56,4	2.22	33,0	1.30	4,3	0.17	54,1	2.13	13/16
04Z-A68	13/16-16	-04	65,8	2.59	42,4	1.67	4,3	0.17	64,8	2.55	15/16
06Z-A66	11/16-16	-06	59,4	2.34	34,0	1.34	6,1	0.24	54,1	2.13	13/16
06Z-A68	13/16-16	-06	68,8	2.71	43,4	1.71	6,6	0.26	64,8	2.55	15/16
08Z-A68	13/16-16	-08	72,9	2.87	43,2	1.70	9,4	0.37	64,8	2.55	15/16
08Z-A70	1-14	-08	78,0	3.07	48,5	1.91	9,7	0.38	70,1	2.76	11/8
10Z-A70	1-14	-10	78,0	3.07	48,5	1.91	11,7	0.46	70,1	2.76	11/8
12Z-A72 *	13/16-12	-12	88,4	3.48	58,2	2.29	14,2	0.56	96,0	3.78	13/8
12Z-A76	17/16-12	-12	102,6	4.04	72,4	2.85	15,5	0.61	114,3	4.50	15/8
16Z-A76**	17/16-12	-16	107,2	4.22	72,6	2.86	19,8	0.78	114,3	4.50	15/8
20Z-A80	111/16-12	-20	134,6	5.30	90,7	3.57	25,7	1.01	129,3	5.09	17/8
20Z-A84	2-12	-20	109,7	4.32	70,4	2.77	26,7	1.05	140,7	5.54	21/4
24Z-A84	2-12	-24	117,6	4.63	71,4	2.81	32,0	1.26	140,7	5.54	21/4

* The 90° long drop tube elbow configuration meets a 3.5:1 burst, based on 4000psi operating pressure.

**The 90° long drop tube elbow configuration meets a 3.7:1 burst, based on 3000psi operating pressure.

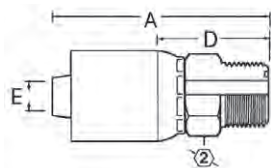
Crimp fittings

'Z' series

H

'Z' series

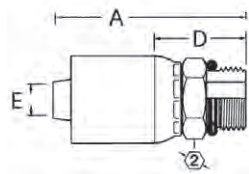
ORS male rigid



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		
			mm	in	mm	in	mm	in	
04Z-E64	9/16-18	-04	45,2	1.78	21,8	0.86	4,3	0.17	5/8
06Z-E66	11/16-16	-06	50,5	1.99	25,1	0.99	6,6	0.26	3/4
06Z-E68	13/16-16	-06	49,5	1.95	24,1	0.95	6,6	0.26	7/8
08Z-E68	13/16-16	-08	58,4	2.30	28,7	1.13	9,7	0.38	7/8
08Z-E70	1-14	-08	55,1	2.17	29,7	1.17	9,7	0.38	1 1/16
08Z-E72	1 3/16-12	-08	57,7	2.27	32,3	1.27	9,7	0.38	1 1/4
10Z-E70	1-14	-10	57,4	2.26	31,5	1.24	12,2	0.48	1 1/16
10Z-E72	1 3/16-12	-10	57,4	2.26	31,5	1.24	12,7	0.50	1 1/4
12Z-E72	1 3/16-12	-12	66,8	2.63	36,6	1.44	15,5	0.61	1 1/4
12Z-E76	1 7/16-12	-12	64,3	2.53	34,0	1.34	15,5	0.61	1 1/2
16Z-E76	1 7/16-12	-16	75,2	2.96	41,7	1.64	20,7	0.81	1 1/2
20Z-E80	1 11/16-12	-20	85,1	3.35	45,7	1.80	26,2	1.03	1 3/4

Does not include O-ring. See pages J-112-113 for O-ring part number.

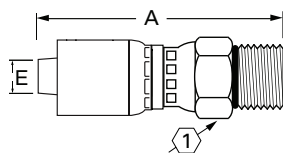
Male straight thread O-ring rigid



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		
			mm	in	mm	in	mm	in	
04Z-P04	7/16-20	-04	46,7	1.84	23,4	0.92	4,3	0.17	9/16
04Z-P05	1/2-20	-04	46,7	1.84	23,4	0.92	4,3	0.17	5/8
04Z-P06	9/16-18	-04	45,2	1.78	21,8	0.86	4,3	0.17	11/16
06Z-P06	9/16-18	-06	50,8	2.00	25,4	1.00	6,6	0.26	11/16
06Z-P08	3/4-16	-06	50,0	1.97	24,9	0.98	6,6	0.26	7/8
06Z-P10	7/8-14	-06	47,8	1.88	26,7	1.05	6,6	0.26	1
08Z-P08	3/4-16	-08	59,9	2.36	30,2	1.19	9,7	0.38	7/8
08Z-P10	7/8-14	-08	57,4	2.26	27,7	1.09	9,7	0.38	1
08Z-P12	1 1/16-12	-08	60,7	2.39	31,0	1.22	9,7	0.38	1 1/4
10Z-P08	3/4-16	-10	56,1	2.21	30,2	1.19	12,7	0.50	15/16
10Z-P10	7/8-14	-10	59,4	2.34	33,5	1.32	12,7	0.50	1
10Z-P12	1 1/16-12	-10	60,7	2.39	31,2	1.23	12,7	0.50	1 1/4
12Z-P10	7/8-14	-12	64,3	2.53	37,1	1.46	12,2	0.48	1 1/8
12Z-P12	1 1/16-12	-12	62,0	2.44	31,8	1.25	15,5	0.61	1 1/4
12Z-P16	1 5/16-12	-12	65,0	2.56	34,8	1.37	15,5	0.61	1 1/2
16Z-P16	1 5/16-12	-16	69,6	2.74	35,3	1.39	20,8	0.82	1 1/2
20Z-P20	1 5/8-12	-20	92,2	3.63	48,3	1.90	26,7	1.05	1 7/8
24Z-P24	1 7/8-12	-24	92,2	3.63	46,0	1.81	32,0	1.26	2 1/8

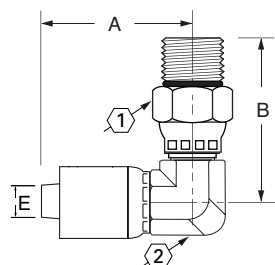
See pages J-112-113 for replacement O-rings.

'Z' series

Male straight thread
O-ring swivel

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(1)
			mm	in	mm	in	mm	in	
04Z-R04	7/16-20	-04	64,0	2.52	40,3	1.59	4,3	0.17	3/4
06Z-R06	9/16-18	-06	69,1	2.72	43,9	1.73	6,6	0.26	7/8
06Z-R08	3/4-16	-08	67,6	2.66	42,4	1.67	6,6	0.26	7/8
08Z-R08	3/4-16	-08	76,5	3.01	46,7	1.84	9,6	0.38	1
08Z-R10	7/8-14	-08	77,0	3.03	47,2	1.86	9,6	0.38	1
08Z-R12	1 1/16-12	-08	88,6	3.49	58,9	2.32	9,6	0.38	1 7/16
10Z-R08	3/4-16	-10	76,7	3.02	47,2	1.86	12,7	0.50	1
12Z-R10	7/8-14	-12	87,1	3.43	56,9	2.24	15,5	0.61	1 7/16

Includes O-ring. See pages J-112-113 for replacement O-rings.

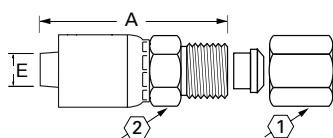
Male straight thread
O-ring swivel 90° elbow

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(2)	(1)	B
			mm	in	mm	in	mm	in			
04Z-R66	9/16-18	-04	55,4	2.18	32,0	1.26	4,3	0.17	3/4	7/8	1,87
06Z-R66	9/16-18	-06	59,2	2.33	33,7	1.33	6,6	0.26	3/4	7/8	1,87
06Z-R68	3/4-16	-06	59,2	2.33	33,7	1.33	6,6	0.26	3/4	1	1,93
06Z-R70	7/8-14	-06	59,2	2.33	33,7	1.33	6,6	0.26	3/4	1	1,95
08Z-R68	3/4-16	-08	68,1	2.68	38,3	1.51	9,7	0.38	3/4	1	1,93
08Z-R70	7/8-14	-08	68,1	2.68	38,3	1.51	9,7	0.38	3/4	1	1,97
08Z-R72	1 1/16-12	-08	79,2	3.12	49,5	1.95	9,7	0.38	1 1/16	1 7/16	2,43
12Z-R72	1 1/16-12	-12	94,5	3.72	64,2	2.53	15,5	0.61	32 mm	1 7/16	2,65

Includes O-ring. See pages J-112-113 for replacement O-rings.

Flareless tube rigid
Ermeto 7000 series

(with nut and sleeve)



Z Series Part number	Thd.	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		(2)	(1)
				mm	in	mm	in	mm	in	in	in
04Z-754	7/16-20	1/4	-04	41,9	1.65	21,8	0.86	4,3	0.17	9/16	9/16
04Z-755	1/2-20	5/16	-04	40,1	1.58	20,3	0.80	4,3	0.17	9/16	5/8
06Z-754	7/16-20	1/4	-06	46,0	1.81	24,6	0.97	6,6	0.26	11/16	9/16
06Z-755	1/2-20	5/16	-06	46,0	1.81	24,6	0.97	5,8	0.23	11/16	5/8
06Z-756	9/16-18	3/8	-06	46,2	1.82	25,2	0.99	6,6	0.26	11/16	11/16
08Z-758	3/4-16	1/2	-08	54,6	2.15	29,5	1.16	9,7	0.38	13/16	7/8
08Z-760	7/8-14	5/8	-08	53,8	2.12	28,5	1.12	9,7	0.38	15/16	1
12Z-762	1 1/16-12	3/4	-12	61,0	2.40	34,0	1.34	15,5	0.61	1 1/8	1 1/4
16Z-766	1 5/8-12	1	-16	96,5	3.80	37,6	1.48	20,6	0.81	1 3/8	1 1/2
20Z-770	1 5/8-12	1 1/4	-20	85,1	3.35	45,7	1.80	26,7	1.05	1 3/4	2

See page J-144 for replacement nuts and sleeves.

Crimp fittings

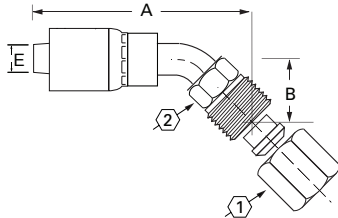
'Z' series

H

'Z' series

Flareless 45° tube elbow 7000 Ermeto series

(With Nut and Sleeve)

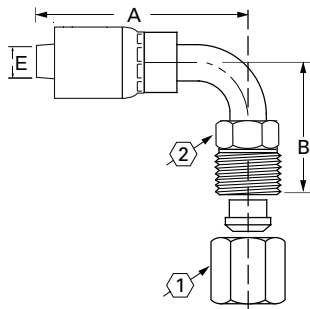


Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		1	2	B
				mm	in	mm	in	mm	in			
06Z-956	$9/16-18$	$3/8$	-06	62,0	2.44	39,6	1.56	6,6	0.26	$11/16$	$5/8$	0.83

See page J-144 for replacement nuts and sleeves.

Flareless 90° tube elbow 7000 Ermeto series

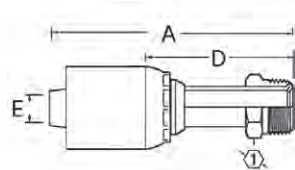
(With Nut and Sleeve)



Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		2	1	B
				mm	in	mm	in	mm	in			
06Z-976	$9/16-18$	$3/8$	-06	52,1	2.05	30,9	1.22	6,6	0.26	$5/8$	$11/16$	1.46

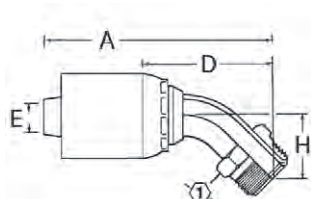
See page J-144 for replacement nuts and sleeves

Inverted male swivel straight

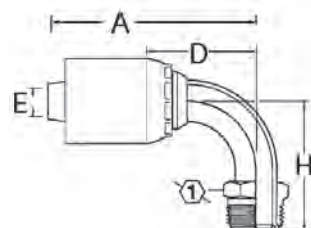


Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		1
			mm	in	mm	in	mm	in	in
04Z-B03	$3/8-24$	-04	76,2	3.00	55,9	2.20	2,5	0.10	$3/8$
04Z-B04	$7/16-24$	-04	60,7	2.39	37,1	1.46	4,3	0.17	$7/16$
04Z-B05	$1/2-20$	-04	60,7	2.39	37,1	1.46	4,3	0.17	$1/2$
06Z-B04	$7/16-24$	-06	64,3	2.53	38,9	1.53	4,3	0.17	$7/16$
06Z-B05	$1/2-20$	-06	66,0	2.60	40,9	1.61	6,1	0.24	$1/2$
06Z-B06	$5/8-18$	-06	66,0	2.60	40,9	1.61	6,6	0.26	$5/8$
06Z-B07	$11/16-18$	-06	62,2	2.45	40,6	1.60	6,6	0.26	$11/16$
08Z-B08	$3/4-18$	-08	70,9	2.79	41,4	1.62	9,7	0.38	$3/4$
08Z-B10	$7/8-18$	-08	74,7	2.94	49,0	1.93	9,7	0.38	$7/8$

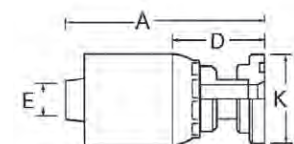
'Z' series

Inverted male swivel
45° tube elbow

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-B43	3/8-24	-04	69,9	2.75	49,8	1.96	2,5	0.10	17,5	0.69	3/8
04Z-B44	7/16-24	-04	67,8	2.67	44,5	1.75	4,3	0.17	24,4	0.96	7/16
04Z-B45	1/2-20	-04	64,5	2.54	44,5	1.75	4,3	0.17	24,4	0.96	1/2
06Z-B45	1/2-20	-06	69,1	2.72	48,0	1.89	6,1	0.24	24,4	0.96	1/2
06Z-B46	5/8-18	-06	73,2	2.88	48,0	1.89	6,6	0.26	24,4	0.96	5/8
06Z-B47	11/16-18	-06	69,3	2.73	48,0	1.89	6,6	0.26	24,4	0.96	11/16
08Z-B48	3/4-18	-08	78,0	3.07	48,3	1.90	9,7	0.38	23,6	0.93	3/4

Inverted male swivel
90° tube elbow

Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		H		1
			mm	in	mm	in	mm	in	mm	in	
04Z-B63	3/8-24	-04	53,8	2.12	33,5	1.32	2,5	0.10	27,9	1.06	3/8
04Z-B64	7/16-24	-04	58,2	2.29	34,8	1.37	4,3	0.17	42,3	1.69	7/16
04Z-B65	1/2-20	-04	55,1	2.17	34,8	1.37	4,3	0.17	43,9	1.73	1/2
06Z-B64	7/16-24	-06	57,8	2.28	36,6	1.44	4,3	0.17	42,3	1.69	7/16
06Z-B65	1/2-20	-06	63,8	2.51	38,4	1.51	6,1	0.24	43,9	1.73	1/2
06Z-B66	5/8-18	-06	63,8	2.51	38,4	1.51	6,6	0.26	43,9	1.73	5/8
06Z-B67	11/16-18	-06	62,0	2.44	40,9	1.61	6,6	0.26	43,9	1.73	11/16
08Z-B68	3/4-18	-08	69,3	2.73	39,6	1.56	9,7	0.38	44,5	1.75	3/4

Split flange straight
(SAE Code 61)

Z Series Part number	Nominal flange size	Thd. flange head Dia. K Ø	Hose size	A		Hose cut-off factor (D)		EØ	
				mm	in	mm	in	mm	in
08Z-G08	1/2	1.19	-08	82,0	3.23	52,3	2.06	9,7	0.38
08Z-G12	3/4	1.50	-08	83,1	3.27	53,3	2.10	9,7	0.38
10Z-G12	3/4	1.50	-10	82,8	3.26	53,3	2.10	12,7	0.50
12Z-G12	3/4	1.50	-12	84,1	3.31	53,8	2.12	15,5	0.61
12Z-G16	1	1.75	-12	84,1	3.31	53,8	2.12	15,5	0.61
12Z-G20	1 1/4	2.00	-12	91,7	3.61	61,5	2.42	15,5	0.61
16Z-G16	1	1.75	-16	88,6	3.49	54,4	2.14	20,8	0.82
16Z-G20	1 1/4	2.00	-16	96,3	3.79	62,0	2.44	20,8	0.82
20Z-G16	1	1.75	-20	100,1	3.94	56,1	2.21	20,8	0.82
20Z-G20	1 1/4	2.00	-20	107,7	4.24	63,8	2.51	26,7	1.05
20Z-G24	1 1/2	2.38	-20	108,5	4.27	64,5	2.54	26,7	1.05
20Z-G32	2	2.81	-20	108,5	4.27	64,5	2.54	25,7	1.01
24Z-G24	1 1/2	2.38	-24	111,8	4.40	65,5	2.58	32,0	1.26
24Z-G32	2	2.81	-24	111,8	4.40	65,5	2.58	30,2	1.19
32Z-G32	2	2.81	-32	117,1	4.61	66,8	2.63	44,5	1.75
32Z-G33	2 1/2	3.31	-32	116,8	4.60	66,8	2.63	44,5	1.75

See pages J-110-112 for split flange kits.

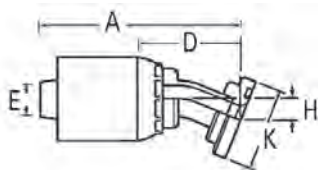
Crimp fittings

'Z' series

H

'Z' series

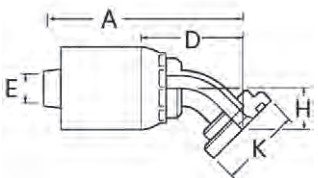
Split Flange 22.5° tube elbow (SAE Code 61)



Z Series Part number	Nominal flange size	Flange head Dia. K Ø	Hose size	A		Hose cut-off factor (D)		EØ		H	
				mm	in	mm	in	mm	in	mm	in
16Z-H03	1	1.75	-16	117,9	4.64	83,6	3.29	19,3	0.76	11,4	0.45
16Z-H04	1 1/4	2.00	-16	130,0	5.12	95,8	3.77	19,3	0.76	11,7	0.46
20Z-H04	1 1/4	2.00	-20	141,5	5.57	97,3	3.83	25,7	1.01	11,7	0.46

See pages J-110-112 for split flange kits.

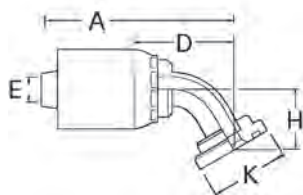
Split Flange 45° tube elbow (SAE Code 61)



Z Series Part number	Nominal flange size	Flange head Dia. K Ø	Hose size	A		Hose cut-off factor (D)		EØ		H	
				mm	in	mm	in	mm	in	mm	in
08Z-G41	1/2	1.19	-08	79,0	3.11	49,3	1.94	9,4	0.37	19,8	0.78
08Z-G42	3/4	1.50	-08	92,5	3.64	62,7	2.47	9,4	0.37	25,4	1.00
10Z-G42	3/4	1.50	-10	93,5	3.68	64,3	2.53	11,7	0.46	25,4	1.00
12Z-G42	3/4	1.50	-12	93,2	3.67	63,0	2.48	14,7	0.58	25,7	1.01
12Z-G46	1	1.75	-12	105,7	4.16	75,4	2.97	14,7	0.58	26,9	1.06
16Z-G46	1	1.75	-16	110,5	4.35	76,2	3.00	19,3	0.76	26,9	1.06
16Z-G50	1 1/4	2.00	-16	122,2	4.81	87,6	3.45	19,3	0.76	29,2	1.15
20Z-G46	1	1.75	-20	121,9	4.80	77,7	3.06	19,3	0.76	26,9	1.06
20Z-G50	1 1/4	2.00	-20	134,1	5.28	90,2	3.55	25,7	1.01	30,0	1.18
20Z-G54	1 1/2	2.37	-20	146,2	5.76	106,7	4.20	25,7	1.01	35,8	1.41
24Z-G54	1 1/2	2.37	-24	151,6	5.97	107,0	4.25	32,0	1.26	35,8	1.41
24Z-G62	2	2.81	-24	154,2	6.07	108,0	4.25	32,0	1.26	35,8	1.41
32Z-G54	1 1/2	2.37	-32	159,3	6.27	109,0	4.29	32,0	1.26	35,8	1.41
32Z-G62	2	2.81	-32	190,2	7.49	140,2	5.52	44,5	1.75	50,8	2.00

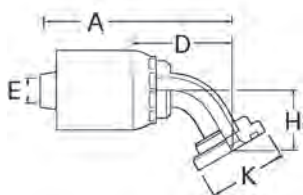
See pages J-110-112 for split flange kits.

'Z' series

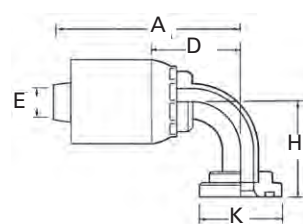
Split Flange 60° tube elbow
(SAE Code 61)

Z Series Part number	Nominal flange size	Flange head Dia. K Ø	Hose size	A		Hose cut-off factor (D)		EØ		H	
				mm	in	mm	in	mm	in	mm	in
16Z-H53	1	1.75	-16	132,5	5.22	98,7	3.89	19,9	0.78	38,3	1.51
24Z-H55	1-1/2	2.37	-24	187,1	7.37	143,4	5.65	32,0	1.26	46,1	1.81

See pages J-110-112 for split flange kits.

Split Flange 67° tube elbow
(SAE Code 61)

Z Series Part number	Nominal flange size	Flange Head Dia. K Ø	Hose size	A		Hose cut-off factor (D)		EØ		H	
				mm	in	mm	in	mm	in	mm	in
20Z-H60	1-1/4	2.00	-20	157,0	6.18	112,8	4.44	25,7	1.01	46,5	1.83
20Z-H64	1-1/2	2.37	-24	189,7	7.47	143,5	5.65	30,2	1.19	46,0	1.81

Split Flange 90° tube elbow
(SAE Code 61)

Z Series Part number	Nominal flange size	Flange head Dia. K Ø	Hose size	A		Hose cut-off factor (D)		EØ		H	
				mm	in	mm	in	mm	in	mm	in
08Z-G71	1/2	1.19	-08	72,6	2.86	42,3	1.69	9,4	0.37	41,4	1.63
08Z-G72	3/4	1.50	-08	87,6	3.45	57,9	2.28	9,4	0.37	54,1	2.13
10Z-G72	3/4	1.50	-10	87,4	3.44	58,2	2.29	12,7	0.50	54,1	2.13
12Z-G72	3/4	1.50	-12	88,6	3.49	58,4	2.30	14,7	0.58	54,1	2.13
12Z-G76	1	1.75	-12	102,4	4.03	72,1	2.84	14,7	0.58	60,5	2.38
12Z-G80	1 1/4	2.00	-12	118,6	4.67	88,4	3.48	14,7	0.58	66,5	2.62
16Z-G76	1	1.75	-16	107,2	4.22	72,6	2.86	19,3	0.76	60,5	2.38
16Z-G80	1 1/4	2.00	-16	123,2	4.85	89,0	3.50	19,3	0.76	66,5	2.62
16Z-G84	1 1/2	2.37	-16	142,0	5.59	107,7	4.24	19,3	0.76	79,2	3.12
20Z-G76	1	1.75	-20	118,4	4.66	74,4	2.93	19,3	0.76	60,5	2.38
20Z-G80	1 1/4	2.00	-20	134,6	5.30	90,7	3.57	25,7	1.01	66,5	2.62
20Z-G84	1 1/2	2.37	-20	153,4	6.04	109,4	4.31	26,6	1.05	79,3	3.12
24Z-G80	1 1/4	2.00	-24	137,9	5.43	91,7	3.61	25,7	1.01	66,5	2.62
24Z-G84	1 1/2	2.37	-24	157,0	6.18	110,5	4.35	32,0	1.26	79,3	3.12
24Z-G92	2	2.81	-24	184,9	7.28	138,4	5.45	32,0	1.26	114,3	4.50
32Z-G92	2	2.81	-32	182,9	7.20	119,9	4.72	41,4	1.62	114,3	4.50
32Z-G93	2 1/2	3.31	-32	182,9	7.20	119,9	4.72	41,4	1.62	115,8	4.56

See pages J-110-112 for split flange kits.

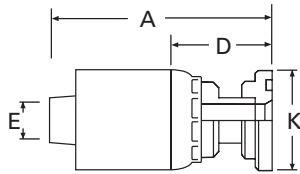
Crimp fittings

'Z' series

H

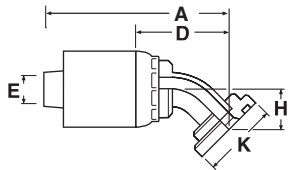
'Z' series

Metric split flange straight (Komatsu, Linkbelt, etc.)



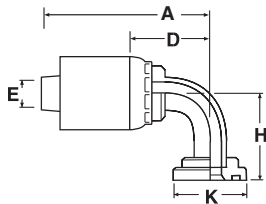
Z Series Part number	Nominal flange size	Flange head Dia. K Ø		Hose Size	A		Hose cut-off factor (D)		EØ	
		mm	in		mm	in	mm	in	mm	in
10Z-G09	5/8	34,2	1.35	-10	94,2	0.16	64,8	2.55	11,5	0.45

Metric split flange 45° tube elbow (Komatsu, Linkbelt, etc.)



Z Series Part number	Nominal flange size	Flange head Dia. K Ø		Hose size	A		Hose cut-off factor (D)		EØ		H	
		mm	in		mm	in	mm	in	mm	in	mm	in
10Z-G69	5/8	34,2	1.35	-10	86,1	3.39	56,7	2.23	11,5	0.45	21,8	0.86

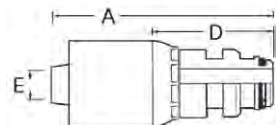
Metric split flange 90° tube elbow (Komatsu, Linkbelt, etc.)



Z Series Part number	Nominal flange size	Flange head Dia. K Ø		Hose size	A		Hose cut-off factor (D)		EØ		H	
		mm	in		mm	in	mm	in	mm	in	mm	in
10Z-G99	5/8	34,2	1.35	-10	74,6	2.94	48,5	1.91	11,5	0.45	51,3	2.02

'Z' series

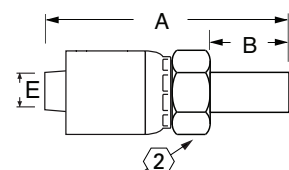
READY-LOK® male connector



Z Series Part number	Connect. size	Hose size	A		Hose cut-off factor (D)		EØ	
			mm	in	mm	in	mm	in
04Z-04S	1/4	-04	55,4	2.18	32,0	1.26	4,3	0.17
06Z-06S	3/8	-06	58,4	2.30	33,0	1.30	6,6	0.26
06Z-08S	1/2	-06	58,4	2.30	33,0	1.30	6,6	0.26
08Z-08S	1/2	-08	64,0	2.52	34,3	1.35	9,7	0.38
12Z-12S	3/4	-12	65,0	2.56	34,8	1.37	15,5	0.61
16Z-16S	1	-16	74,9	2.95	40,6	1.60	20,6	0.81

(O-ring and backup ring included.)

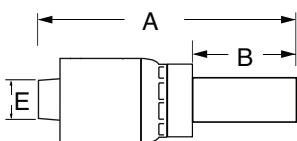
Standpipe straight tube



Z Series Part number	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		2	B	
			mm	in	mm	in	mm	in		mm	in
04Z-T04	1/4	-04	55,6	2.19	35,56	1.40	4,3	0.17	9/16	25,4	1.00
06Z-T06	3/8	-06	59,7	2.35	38,61	1.52	6,6	0.26	11/16	25,4	1.00
08Z-T08	1/2	-08	68,3	2.69	43,18	1.70	9,7	0.38	13/16	27,9	1.10
10Z-T10	5/8	-10	71,1	2.80	45,47	1.79	12,7	0.50	15/16	29,2	1.15
12Z-T12	3/4	-12	73,7	2.90	46,74	1.84	15,5	0.61	1 1/8	30,2	1.19
16Z-T16	1	-16	87,1	3.43	53,59	2.11	20,6	0.81	1 3/8	33,5	1.32

See page J-144 for Ermeto nuts and sleeves.

Metric standpipe straight tube



Z Series Part number	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		B	
			mm	in	mm	in	mm	in	mm	in
04Z-38T	8	-04	56,4	2.22	33,0	1.30	4,1	0.16	23	0.91
04Z-40T	10	-04	56,4	2.22	33,0	1.30	4,3	0.17	23	0.91
06Z-40T	10	-06	59,4	2.34	34,3	1.35	6,6	0.26	23	0.91
06Z-42T	12	-06	60,5	2.38	35,0	1.38	6,6	0.26	24	0.95
06Z-44T	14	-06	61,5	2.42	36,1	1.42	6,6	0.26	25	0.98
08Z-45T	15	-08	66,8	2.63	37,1	1.46	9,7	0.38	25	0.98
08Z-46T	16	-08	68,1	2.68	38,4	1.51	9,7	0.38	26	1.02
10Z-48T	18	-10	69,1	2.72	39,6	1.56	12,7	0.05	27	1.06
10Z-50T	20	-10	69,1	2.72	39,6	1.56	12,7	0.50	27	1.06
12Z-52T	22	-12	71,1	2.80	40,9	1.61	15,5	0.61	28	1.10
12Z-55T	25	-12	70,1	2.76	39,9	1.57	15,5	0.61	27	1.06
16Z-58T	28	-16	75,7	2.98	41,4	1.63	20,6	0.81	28	1.10
16Z-60T	30	-16	75,9	2.99	41,7	1.64	20,6	0.81	28	1.10

Please refer to Eaton's Walterscheid metric tube fittings catalog E-MEFI-MC002-E1 (or E-MEFI-MC001-M2 for the global version) for metric nuts and sleeves.

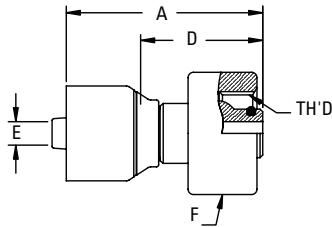
Crimp fittings

'Z' series

H

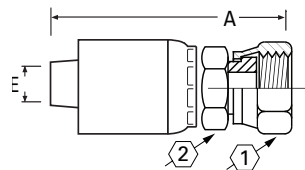
'Z' series

Pressure washer connection



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		F Dia.	
			mm	in	mm	in	mm	in	mm	in
04Z-6PW	M22x1.5	-04	55,4	2.18	35,3	1.39	4,2	0.17	34,9	1.38
06Z-6PW	M22x1.5	-06	56,1	2.21	34,9	1.38	6,7	0.26	34,9	1.38

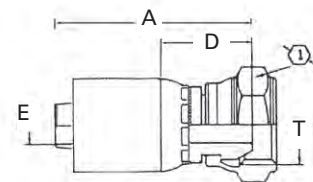
British Standard (BSPP) flat face female swivel



Z Series Part number	Thd.	Hose Size	A		Hose cut-off factor (D)		EØ		2	1
			mm	in	mm	in	mm	in	in	in
06Z-06PA	G 3/8-19	-06	57,2	2.25	36,7	1.42	6,6	0.26	11/16	3/4
06Z-08PA	G 1/2-14	-06	58,7	2.31	37,6	1.48	6,6	0.26	3/4	11/16
08Z-08PA	G 1/2-14	-08	66,8	2.63	41,7	1.64	9,2	0.36	13/16	11/16
08Z-12PA	G 3/4-14	-08	67,1	2.64	41,9	1.65	9,7	0.38	1	11/4
12Z-12PA	G 3/4-14	-12	71,1	2.80	44,2	1.74	15,5	0.61	11/8	11/4

* G as part of thread size is ISO Designation for parallel thread.

British Standard (BSPP) 60° cone female swivel straight

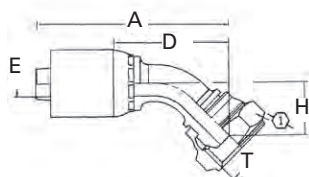


Z Series Part number	Thd. T	Hose Size	A		Hose cut-off factor (D)		EØ		1
			mm	in	mm	in	mm	in	mm in
04Z-354	G 1/4-19*	-04	42,3	1.66	18,9	0.74	4,2	0.16	19,0 0.75
04Z-356	G 3/8-19*	-04	45,5	1.79	22,1	0.87	4,3	0.17	22,0 0.87
06Z-356	G 3/8-19*	-06	46,4	1.83	21,1	0.83	6,7	0.26	22,0 0.87
06Z-358	G 1/2-14*	-06	47,9	1.88	22,6	0.89	6,7	0.26	27,0 1.06
08Z-358	G 1/2-14*	-08	53,5	2.11	23,8	0.94	9,6	0.38	27,0 1.06
08Z-360	G 5/8-14*	-08	56,4	2.22	26,7	1.05	9,6	0.38	30,0 1.18
10Z-360	G 5/8-14*	-10	54,1	2.13	24,7	0.97	12,7	0.50	30,0 1.18
12Z-362	G 3/4-14*	-12	55,5	2.18	25,3	1.00	15,5	0.61	32,0 1.26
16Z-366	G 1-11*	-16	62,0	2.44	27,6	1.09	20,7	0.81	41,0 1.61
20Z-370	G 1 1/4-11*	-20	73,6	2.90	29,6	1.16	26,6	1.05	50,0 1.97

* G as part of thread size is ISO Designation for parallel thread.

'Z' series

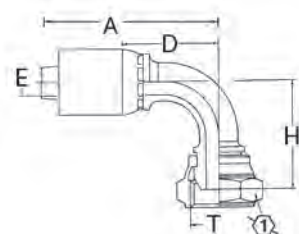
British Standard (BSPP)
60° cone female
45° tube elbow



Z Series Part #	Thd. T	Hose size	A		Hose cut-off factor (D)		EØ		H		1	
			mm	in	mm	in	mm	in	mm	in	mm	in
04Z-44P	G 1/4 -19*	-04	65,3	2.57	41,9	1.65	4,2	0.16	16,5	0.65	19,0	0.75
06Z-46P	G 3/8 -19*	-06	73,8	2.90	48,5	1.91	6,7	0.26	19,0	0.75	22,0	0.87
08Z-48P	G 1/2 -14*	-08	91,5	3.60	61,8	2.43	9,6	0.38	24,8	0.98	27,0	1.06
10Z-50P	G 5/8 -14*	-10	100,4	3.95	71,0	2.79	12,7	0.50	27,4	1.08	30,0	1.18
12Z-52P	G 3/4 -14*	-12	108,8	4.28	78,6	3.09	15,5	0.61	29,4	1.16	32,0	1.26
16Z-56P	G 1 -11*	-16	126,8	4.99	92,4	3.09	20,7	0.81	33,2	1.31	41,0	1.61
20Z-60P	G 1 1/4 -11*	-20	153,6	6.05	109,6	4.31	26,6	1.05	37,2	1.46	50,0	1.97

* G as part of thread size is ISO Designation for parallel thread.

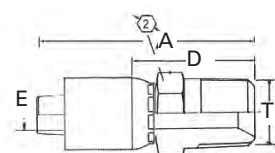
British Standard (BSPP)
60° cone female
90° tube elbow



Z Series Part #	Thd. T	Hose size	A		Hose cut-off factor (D)		EØ		H		1	
			mm	in	mm	in	mm	in	mm	in	mm	in
04Z-74P	G 1/4 -19*	-04	45,8	1.80	22,4	0.88	4,2	0.16	24,8	0.98	17,0	0.67
06Z-76P	G 3/8 -19*	-06	58,9	2.32	33,6	1.32	6,7	0.26	35,0	1.38	22,0	0.87
06Z-78P	G 1/2 -14*	-06	75,7	2.98	50,4	1.98	6,7	0.26	47,8	1.88	27,0	1.06
08Z-78P	G 1/2 -14*	-08	64,0	2.52	34,3	1.35	9,6	0.38	37,6	1.48	27,0	1.06
08Z-80P	G 5/8 -14*	-08	90,7	3.57	61,0	2.40	9,6	0.38	56,3	2.22	27,0	1.06
10Z-80P	G 5/8 -14*	-10	90,6	3.57	61,2	1.41	12,7	0.50	56,3	2.22	27,0	1.06
12Z-82P	G 3/4 -14*	-12	82,2	3.24	52,0	2.05	15,5	0.61	47,5	1.87	32,0	1.26
16Z-86P	G 1 -11*	-16	118,2	4.65	83,8	3.30	20,7	0.81	71,5	2.81	41,0	1.61
20Z-90P	G 1 1/4 -11*	-20	146,2	5.75	102,2	4.02	26,6	1.05	82,5	3.25	50,0	1.97

* G as part of thread size is ISO Designation for parallel thread.

British Standard (BSPT)
tapered male rigid



Z Series Part #	Thd. T	Hose size	A		Hose cut-off factor (D)		EØ		2	
			mm	in	mm	in	mm	in	mm	in
04Z-154	R 1/4 -19*	-04	50,6	1.99	27,2	1.07	4,2	0.16	14,0	0.55
06Z-156	R 3/8 -19*	-06	54,9	2.16	29,6	1.16	6,7	0.26	19,0	0.75
08Z-158	R 1/2 -14*	-08	66,2	2.61	36,5	1.44	9,6	0.38	22,0	0.87
12Z-162	R 3/4 -14*	-12	71,1	2.80	40,9	1.61	15,5	0.61	30,0	1.18
16Z-166	R 1 -11*	-16	81,2	3.20	46,8	1.84	20,7	0.81	36,0	1.42
20Z-170	R 1 1/4 -11*	-20	96,2	3.79	52,2	2.05	26,6	1.05	46,0	1.81

* R as part of thread size is ISO Designation for tapered thread.

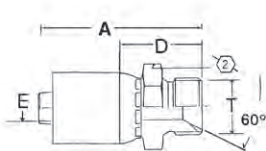
Crimp fittings

'Z' series

H

'Z' series

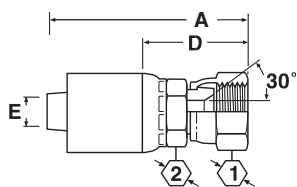
British Standard (BSPP)
60° cone male rigid



Z Series Part number	Thd. T	Hose size	A		Hose cut-off factor (D)		EØ		(2)	
			mm	in	mm	in	mm	in	mm	in
04Z-P54	G 1/4-19*	-04	44,3	1.74	20,9	0.82	4,2	0.16	19,0	0.75
06Z-P56	G 3/8-19*	-06	48,4	1.90	23,1	0.91	6,7	0.26	22,0	0.87
08Z-P56	G 3/8-19*	-08	55,9	2.20	26,4	1.04	9,6	0.38	22,0	0.87
06Z-P58	G 1/2-14*	-06	52,4	2.06	27,1	1.07	6,7	0.26	27,0	1.06
08Z-P58	G 1/2-14*	-08	58,0	2.28	28,3	1.11	9,6	0.38	27,0	1.06
10Z-P60	G 5/8-14*	-10	62,0	2.44	35,5	1.25	12,7	0.50	30,0	1.18
12Z-P62	G 3/4-14*	-12	63,1	2.48	32,9	1.29	15,5	0.61	32,0	1.26
16Z-P66	G 1-11*	-16	70,9	2.79	36,5	1.44	20,7	0.81	41,0	1.61
20Z-P67	G 1 1/4-11*	-20	86,1	3.39	42,2	1.66	26,6	1.50	50,0	1.97

* G as part of thread size is ISO Designation for parallel thread.

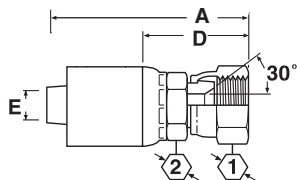
Female JIS 30° flare
swivel straight



Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(1)		(2)	
			mm	in	mm	in	mm	in	mm	in	mm	in
04Z-04L	G 1/4-19*	-04	53,2	2.09	29,8	1.17	4,2	0.16	19,0	0.75	19,0	0.75
06Z-06L	G 3/8-19*	-06	59,2	2.33	33,9	1.33	6,7	0.26	22,0	0.87	22,0	0.87
08Z-08L	G 1/2-14*	-08	66,3	2.61	36,6	1.44	9,6	0.38	27,0	1.06	27,0	1.06
10Z-12L	G 3/4-14*	-10	70,6	2.78	45,2	1.78	12,7	0.50	32,0	1.26	36,0	1.42
12Z-12L	G 3/4-14*	-12	73,3	2.88	43,1	1.70	15,5	0.61	32,0	1.26	36,0	1.42
16Z-16L	G 1-11*	-16	83,6	3.29	49,2	1.94	20,7	0.81	41,0	1.61	41,0	1.61
20Z-20L	G 1 1/4-11*	-20	102,1	4.02	58,1	2.29	26,6	1.05	50,0	1.97	46,0	1.81

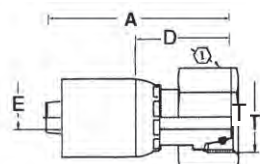
* G as part of thread size is ISO Designation for parallel thread.

Female swivel
30° flare
(Komatsu, Linkbelt)

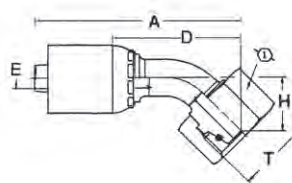


Z Series Part number	Thd.	Hose size	A		Hose cut-off factor (D)		EØ		(1)		(2)	
			mm	in	mm	in	mm	in	mm	in	mm	in
04Z-14K	M14 x 1.5	-04	56,1	2.21	32,7	1.29	42,2	1.66	19,0	0.75	19,0	0.75
06Z-18K	M18 x 1.5	-06	60,4	2.38	35,1	1.38	6,7	0.26	24,0	0.94	22,0	0.87
08Z-22K	M22 x 1.5	-08	69,5	2.74	39,8	1.57	9,6	0.38	27,0	1.06	27,0	1.06
10Z-24K	M24 x 1.5	-10	75,4	2.97	46,0	1.81	12,4	0.49	32,0	1.26	30,0	1.18
12Z-30K	M30 x 1.5	-12	81,5	3.21	51,3	2.02	15,5	0.61	36,0	1.42	36,0	1.42
16Z-33K	M33 x 1.5	-16	91,4	3.60	57,0	2.24	20,7	0.81	41,0	1.61	41,0	1.61

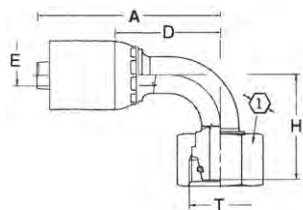
'Z' series

Female swivel DIN 24° seat
I.Rh DKO (Light)

Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		1	
				mm	in	mm	in	mm	in	mm	in
04Z-06C	M12 x 1.5	6	-04	48,0	1.89	24,6	0.97	4,2	0.16	17,0	0.67
04Z-08C	M14 x 1.5	8	-04	46,0	1.81	22,6	0.89	4,2	0.16	17,0	0.67
04Z-10C	M16 x 1.5	10	-04	48,3	1.90	24,9	0.98	4,3	0.17	19,0	0.75
06Z-10C	M16 x 1.5	10	-06	56,9	2.24	31,6	1.24	6,7	0.26	19,0	0.75
06Z-12C	M18 x 1.5	12	-06	51,2	2.01	25,9	1.02	6,7	0.26	22,0	0.87
08Z-15C	M22 x 1.5	15	-08	58,3	2.29	28,6	1.12	9,6	0.38	27,0	1.06
10Z-18C	M26 x 1.5	18	-10	59,2	2.33	29,8	1.17	12,7	0.50	32,0	1.26
12Z-22C	M30 x 2.0	22	-12	62,5	2.46	32,3	1.27	15,5	0.61	36,0	1.42
16Z-28C	M36 x 2.0	28	-16	68,2	2.68	33,8	1.33	20,7	0.81	41,0	1.61
20Z-35C	M45 x 2.0	35	-20	83,7	3.29	39,7	1.56	26,6	1.05	50,0	1.97

Female swivel DIN 24° seat
45° tube elbow
I. Rh. (Light)

Z Series Part #	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		H		1	
				mm	in	mm	in	mm	in	mm	in	mm	in
04Z-08D	M14 X 1.5	8	-04	6,2	2.46	3,9	1.54	0,4	0.17	17,5	0.69	17,0	0.67
04Z-10D	M16 X 1.5	10	-04	6,5	2.55	4,1	1.63	0,4	0.17	18,4	0.72	19,0	0.75
06Z-10D	M16 X 1.5	10	-06	6,7	2.63	4,1	1.63	0,7	0.26	19,0	0.75	19,0	0.75
06Z-12D	M18 X 1.5	12	-06	7,0	2.76	4,5	1.76	0,7	0.26	17,6	0.69	22,0	0.87
08Z-15D	M22 X 1.5	15	-08	8,3	3.27	5,3	2.10	1,0	0.38	20,5	0.81	27,0	1.06
10Z-18D	M26 X 1.5	18	-10	9,1	3.59	6,2	2.44	1,3	0.50	22,0	0.87	32,0	1.26
12Z-22D	M30 X 2.0	22	-12	10,1	3.97	7,1	2.78	1,5	0.61	24,3	0.96	36,0	1.42
16Z-28D	M36 X 2.0	28	-16	10,3	4.06	6,9	2.70	2,1	0.81	26,6	1.05	41,0	1.61

Female swivel DIN 24° seat
90° tube elbow
I. Rh. (Light)

Z Series Part #	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		H		1	
				mm	in	mm	in	mm	in	mm	in	mm	in
04Z-58D	M14 x 1.5	8	-04	51,1	2.01	27,7	1.09	4,3	0.17	31,5	1.24	17,0	0.67
04Z-60D	M16 x 1.5	10	-04	55,4	2.18	32,0	1.26	4,3	0.17	35,5	1.40	19,0	0.75
06Z-60D	M16 x 1.5	10	-06	58,4	2.30	33,5	1.32	6,6	0.26	33,5	1.32	19,0	0.75
06Z-62D	M18 x 1.5	12	-06	59,7	2.35	34,5	1.36	6,6	0.26	34,2	1.35	22,0	0.87
08Z-65D	M22 x 1.5	15	-08	75,2	2.96	45,7	1.80	9,7	0.38	40,0	1.57	27,0	1.06
10Z-68D	M26 x 1.5	18	-10	86,4	3.40	56,9	2.24	12,7	0.50	46,5	1.83	32,0	1.26
12Z-72D	M30 x 2.0	22	-12	92,5	3.64	62,2	2.45	15,5	0.61	50,7	2.00	36,0	1.42
16Z-78D	M36 x 2.0	28	-16	100,1	3.94	65,5	2.58	20,6	0.81	61,0	2.40	41,0	1.61
20Z-85D	M45 x 2.0	35	-20	130,0	5.12	86,1	3.39	26,7	1.05	79,0	3.11	50,0	1.97

Crimp fittings

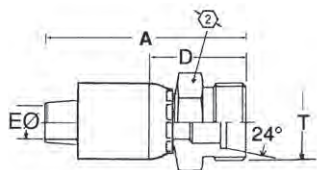
'Z' series

H

'Z' series

Male DIN 24° seat

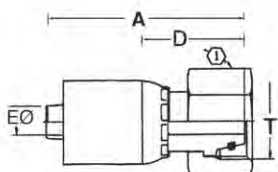
l.Rh (Light)



Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		1	
				mm	in	mm	in	mm	in	mm	in
04Z-06A	M12 x 1.5	6	-04	44,7	1.76	21,3	0.84	4,2	0.16	12,0	0.47
04Z-08A	M14 x 1.5	8	-04	44,5	1.75	21,1	0.83	4,2	0.16	14,0	0.55
04Z-10A	M16 X 1.5	10	-04	46,0	1.81	22,6	0.89	4,3	0.17	17,0	0.67
06Z-10A	M16 x 1.5	10	-06	52,0	2.05	26,7	1.05	6,7	0.26	17,0	0.67
06Z-12A	M18 x 1.5	12	-06	49,0	1.93	23,7	0.93	6,7	0.26	19,0	0.75
08Z-15A	M22 x 1.5	15	-08	56,0	2.20	26,3	1.03	9,6	0.38	24,0	0.94
10Z-18A	M26 x 1.5	18	-10	56,0	2.20	26,6	1.05	12,7	0.50	27,0	1.06
12Z-22A	M30 x 2.0	22	-12	62,0	2.44	31,8	1.25	15,5	0.61	32,0	1.26
16Z-28A	M36 x 2.0	28	-16	66,0	2.60	31,6	1.24	20,7	0.81	41,0	1.61
20Z-35A	M45 x 2.0	35	-20	79,4	3.12	35,4	1.39	26,6	1.05	46,0	1.81

Female swivel DIN 24° seat

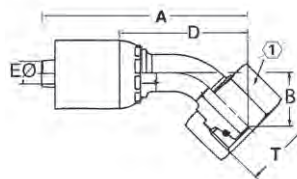
s.Rh DKO (Heavy)



Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		1	
				mm	in	mm	in	mm	in	mm	in
04Z-58C	M16 x 1.5	8	-04	49,6	1.95	26,2	1.03	4,2	0.16	19,0	0.75
04Z-60C	M18 x 1.5	10	-04	50,8	2.00	27,4	1.08	4,2	0.16	22,0	0.87
04Z-62C	M20 X 1.5	12	-04	50,8	2.00	27,4	1.08	4,3	0.17	24,0	0.94
06Z-60C	M18 X 1.5	10	-06	52,8	2.08	27,7	1.09	6,6	0.26	27,0	1.06
06Z-62C	M20 x 1.5	12	-06	53,8	2.12	28,5	1.12	6,7	0.26	24,0	0.94
06Z-64C	M22 x 1.5	14	-06	56,9	2.24	31,6	1.24	6,7	0.26	27,0	1.06
08Z-64C	M22 x 1.5	14	-08	55,2	2.17	25,5	1.00	9,6	0.38	27,0	1.06
08Z-66C	M24 x 1.5	16	-08	62,4	2.46	32,7	1.29	9,6	0.38	30,0	1.18
10Z-70C	M30 x 2.0	20	-10	66,9	2.63	37,5	1.48	12,7	0.50	36,0	1.42
12Z-75C	M36 x 2.0	25	-12	72,0	2.83	41,8	1.64	15,5	0.61	46,0	1.81
12Z-70C	M30 X 2.0	20	-12	60,2	2.37	30,2	1.19	14,0	0.55	36,0	1.42
16Z-80C	M42 x 2.0	30	-16	78,5	3.09	44,1	1.44	20,7	0.81	50,0	1.97
20Z-88C	M52 X 2.0	38	-20	93,7	3.69	49,8	1.96	26,6	1.05	60,0	2,36

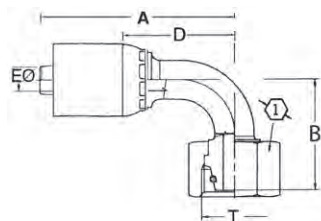
Female swivel DIN 24° seat 45° tube elbow

s.Rh (Heavy)

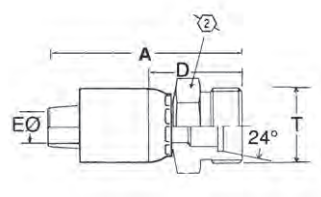


Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		H		1	
				mm	in	mm	in	mm	in	mm	in	mm	in
04Z-08E	M16 x 1.5	8	-04	56,4	2.22	33,0	1.30	4,2	0.16	15,0	0.59	19,0	0.75
04Z-10E	M18 x 1.5	10	-04	61,4	2.42	38,0	1.50	4,2	0.16	17,0	0.67	22,0	0.87
06Z-12E	M20 x 1.5	12	-06	68,3	2.69	43,0	1.69	6,7	0.26	19,0	0.75	24,0	0.94
06Z-14E	M22 x 1.5	14	-06	68,8	2.71	43,5	1.71	6,7	0.26	20,0	0.79	27,0	1.06
08Z-16E	M24 x 1.5	16	-08	79,7	3.14	50,0	1.97	9,6	0.38	23,0	0.90	30,0	1.18
10Z-20E	M30 x 2.0	20	-10	89,3	3.51	59,9	2.36	12,7	0.50	26,0	1.02	36,0	1.42
12Z-25E	M36 x 2.0	25	-12	107,4	4.23	77,2	3.04	15,5	0.61	32,5	1.28	46,0	1.81
16Z-30E	M42 x 2.0	30	-16	121,4	4.78	87,0	3.42	20,7	0.81	37,5	1.48	55,0	2.16

'Z' series

**Female swivel
DIN 24° seat 90° tube elbow**
 s.Rh DKO (Heavy)


Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		H		①	
				mm	in	mm	in	mm	in	mm	in	mm	in
04Z-58E	M16 x 1.5	8	-04	54,0	2.13	30,6	1.20	4,2	0.16	28,6	1.13	19,0	0.75
04Z-60E	M18 x 1.5	10	-04	54,5	2.14	31,0	1.22	4,2	0.16	33,5	1.32	22,0	0.87
06Z-60E	M18 x 1.5	10	-06	63,9	2.52	38,6	1.52	6,7	0.26	33,5	1.32	22,0	0.87
06Z-62E	M20 x 1.5	12	-06	60,3	2.37	35,0	1.38	6,7	0.26	35,0	1.38	24,0	0.94
06Z-64E	M22 x 1.5	14	-06	63,8	2.51	38,5	1.51	6,7	0.26	42,0	1.65	27,0	1.06
08Z-66E	M24 x 1.5	16	-08	73,7	2.90	44,0	1.73	9,6	0.38	49,0	1.93	30,0	1.18
10Z-70E	M30 x 2.0	20	-10	82,0	3.23	52,6	2.07	12,7	0.50	53,5	2.11	36,0	1.42
12Z-75E	M36 x 2.0	25	-12	93,0	3.66	62,8	2.47	15,5	0.61	64,5	2.54	46,0	1.81
16Z-80E	M42 x 2.0	30	-16	104,0	4.09	69,6	2.74	20,7	0.81	74,0	2.91	50,0	1.97

Male DIN 24° seat
 s.Rh (Heavy)


Z Series Part number	Thd. T	Tube O.D.	Hose size	A		Hose cut-off factor (D)		EØ		②	
				mm	in	mm	in	mm	in	mm	in
04Z-08F	M16 x 1.5	8	-04	47,5	1.87	24,1	0.95	4,2	0.16	17,0	0.67
04Z-10F	M18 x 1.5	10	-04	40,7	1.60	23,6	0.93	4,2	0.16	19,0	0.75
06Z-10F	M18 x 1.5	10	-06	49,5	1.95	24,1	0.95	6,7	0.26	19,0	0.75
06Z-12F	M20 x 1.5	12	-06	50,3	1.98	25,0	0.98	6,7	0.26	22,0	0.87
06Z-14F	M22 x 1.5	14	-06	52,6	2.07	27,3	1.07	6,7	0.26	24,0	0.94
08Z-16F	M24 x 1.5	16	-08	58,0	2.28	28,3	1.11	9,6	0.38	27,0	1.06
10Z-20F	M30 x 2.0	20	-10	62,0	2.44	32,6	1.28	12,7	0.50	32,0	1.26
12Z-20F	M30 x 2.0	20	-12	57,7	2.27	30,7	1.21	15,5	0.61	32,0	1.26
12Z-25F	M36 x 2.0	25	-12	65,5	2.58	35,3	1.39	15,5	0.61	41,0	1.61
16Z-30F	M42 x 2.0	30	-16	72,3	2.85	37,9	1.49	20,7	0.81	46,0	1.81

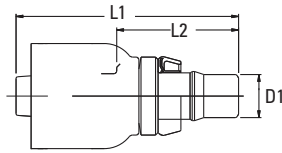
Crimp fittings

'Z' series

H

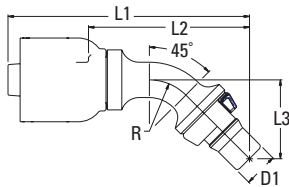
'Z' series

STC male straight



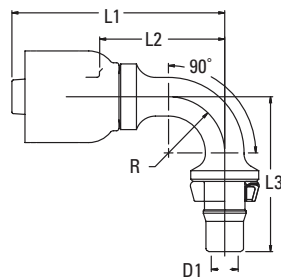
Z Series Part number	D1		L1		L2	
	mm	in	mm	in	mm	in
04Z-BC06	4,2	0.17	52,4	2.06	29,0	1.14
06Z-BC06	6,7	0.26	55,5	2.19	30,2	1.19
06Z-BC08	6,7	0.26	60,6	2.39	35,4	1.39
08Z-BC08	9,6	0.38	66,3	2.61	36,6	1.44
10Z-BC10	12,8	0.50	69,0	2.72	39,6	1.56
12Z-BC12	15,5	0.61	74,6	2.94	44,4	1.75
16Z-BC16	0,7	0.82	83,7	3.30	49,3	1.94

STC male 45° tube elbow



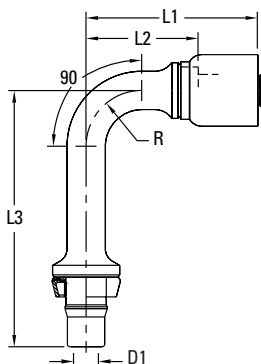
Z Series Part number	D1		L1		L2		L3		R	
	mm	in	mm	in	mm	in	mm	in	mm	in
04Z-BC46	4,2	0.17	69,8	2.75	46,4	1.83	22,2	0.86	14,0	0.55
06Z-BC46	6,7	0.26	72,9	2.87	47,6	1.87	22,2	0.87	14,0	0.55
08Z-BC48	8,8	0.35	89,9	3.54	60,2	2.37	29,6	1.17	19,0	0.75
10Z-BC50	11,5	0.45	97,8	3.85	68,4	2.69	33,6	1.32	22,0	0.87
12Z-BC52	13,9	0.55	110,2	4.34	80,0	3.15	40,7	1.60	31,0	1.22

STC male 90° tube elbow



Z Series Part number	D1		L1		L2		L3		R	
	mm	in	mm	in	mm	in	mm	in	mm	in
06Z-BC66	6,7	0.26	59,3	2.33	34,0	1.34	39,6	1.56	14,0	0.55
06Z-BC68	6,7	0.26	66,4	2.61	41,1	1.62	53,0	2.09	19,0	0.75
08Z-BC68	8,8	0.35	72,0	2.83	42,3	1.67	53,0	2.09	19,0	0.75
10Z-BC70	11,5	0.45	77,9	3.07	48,5	1.91	60,4	2.36	22,0	0.87
12Z-BC72	13,9	0.55	88,7	3.49	58,5	2.30	75,7	2.98	31,0	1.22
16Z-BC76	19,9	0.78	107,3	4.22	72,9	2.87	90,0	3.54	38,0	1.50

STC male 90° long drop elbow



Z Series Part number	D1		L1		L2		L3		R	
	mm	in	mm	in	mm	in	mm	in	mm	in
06Z-BC86	6,4	0.25	59,3	2.33	34,0	1.34	70,6	2.78	14,0	0.55
08Z-BC88	9,1	0.36	72,0	2.84	42,3	1.67	88,1	3.46	19,0	0.75
12Z-BC92	13,9	0.55	88,7	3.49	58,5	2.30	123,7	4.87	31,0	1.22