



PRODUCT CATALOG



# Table of Contents

## Table of Contents



pages 1-8.....	130/180 Series
pages 9-12.....	190 Series
pages 13-18.....	220 Series
pages 19-26.....	240 Series
pages 27-32.....	245 Series
pages 33-34.....	250 Series
pages 35-42.....	370 Series
pages 43-48.....	480 Series
pages 49-52.....	500 Series
pages 53-58.....	510 Series
pages 59-66.....	660 Series
pages 67-68.....	Fire Protection
pages 69-71.....	Rigid Tube
pages 72-73.....	How to Order



# Titeflex R101 (130/180 SERIES)

**SERIES:** 130/180

**SPECIFICATION:**

SAE AS1946

MIL-DTL-25579

MIL-DTL-27267

**BRAID:** CRES

**INNERCORE:** PTFE Smoothbore

**QUALIFICATIONS:**

SAE AS1946, MIL-DTL-25579,

MIL-DTL-27267, TSO C53A,

TSO C75, AS1055 Type IIa & IIb,

Class A & B, Integral and Slip-on

Firesleeve

A medium pressure aerospace hose assembly qualified to AS1946 and MIL-DTL-25579. The hose consists of an extruded smoothbore PTFE innercore, reinforced with CRES 304 wire braid in a single layer on sizes -03 - 12, and a double layer (Z) on sizes -16 - 24. Operating pressures range from 1500 PSI (104 Bar) in the small diameters to 1000 PSI (69 Bar) in the largest diameters. PTFE provides excellent chemical resistance over a temperature range of -65°F to +450°F (-54°C to +232°C) with an unlimited shelf life. Standard fittings are CRES (Class I) or aluminum (Class II). Fire protection per AS1055 Class A & B can be either integral (RM/RF), or slip-on AS1072 firesleeve. Chafe sleeves are available in a variety of integral or slip-on materials. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation, and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	in HG	psi	psi
3	1,500	0.11	0.234	0.285	0.005	2	3,000	28	12,000	7,000
4	1,500	0.173	0.304	0.374	0.007	2	3,000	28	12,000	7,000
5	1,500	0.235	0.367	0.417	0.008	2	3,000	28	10,000	6,500
6	1,500	0.298	0.43	0.5	0.01	4	3,000	28	9,000	6,500
8	1,500	0.391	0.546	0.614	0.013	4.63	3,000	28	8,000	6,000
10	1,500	0.485	0.641	0.799	0.017	5.5	3,000	28	7,000	5,500
12	1,000	0.615	0.766	0.906	0.027	6.5	2,000	20	5,000	3,500
16Z	1,250	0.851	1.078	1.14	0.048	7.38	2,500	14	5,000	3,500
20Z	1,000	1.101	1.328	1.39	0.062	11	2,000	10	4,000	3,000
24Z	1,000	1.344	1.637	1.707	0.084	14	2,000	8	4,000	3,000

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend

Sizes -03 to -05:180 Series





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	mm Hg	bar	bar
3	103	2.79	5.9	7.2	89	51	207	711	827	483
4	103	4.8	7.7	8.7	125	51	207	711	827	483
5	103	5.97	9.3	10.3	143	51	207	711	689	448
6	103	7.87	11.2	11.91	179	102	207	711	621	448
8	103	9.93	13.9	14.86	232	117	207	711	552	414
10	103	12.32	16.3	17.45	304	140	207	711	483	379
12	69	15.62	19.5	20.62	482	165	138	508	345	241
16Z	86	21.62	27.4	28.96	857	185	172	356	345	241
20Z	69	27.97	33.7	35.31	1 107	279	138	254	276	207
24Z	69	34.14	41.6	43.36	1 500	356	138	203	276	207

### NOTES

/1/ Over minimum 305mm length

/2/ Inside of bend

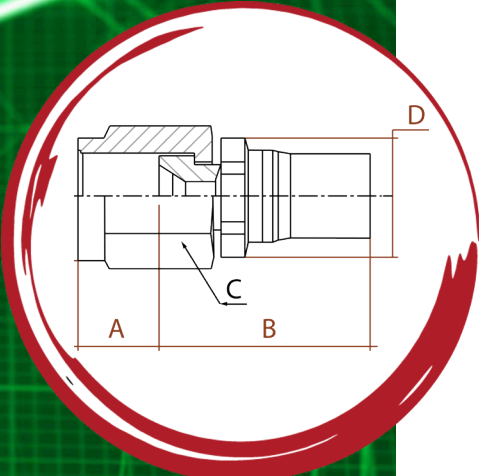


# Titeflex R101 (130/180 SERIES) Flared (JIC) Fittings

## ENGLISH-INCHES

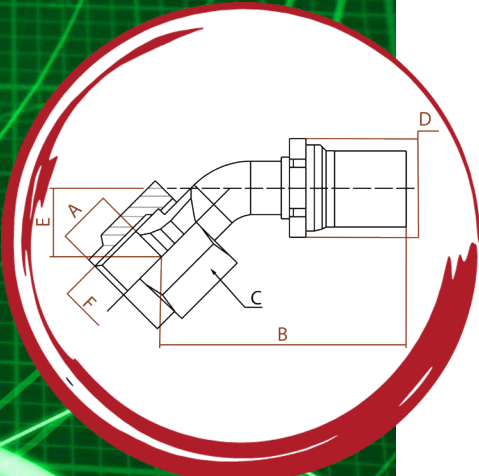
### STRAIGHT FLARED FITTINGS-MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40003-50	3/8-24	0.372	1.030	0.500	0.490	NA	0.04	*
4	Y40004-51	7/16-20	0.372	1.115	0.562	0.550	NA	0.05	*
5	Y40005-50	1/2-20	0.375	1.175	0.625	0.630	NA	0.07	*
6	Y40006-9	4/16-18	0.375	1.310	0.688	0.700	NA	0.08	*
8	Y40008-9	3/4-16	0.438	1.470	0.875	0.830	NA	0.13	0.1
10	Y40010-9	7/8-14	0.515	1.570	1.000	0.970	NA	0.18	1.1
12	Y40012-9	1-1/16-12	0.562	1.730	1.250	1.170	NA	0.28	0.1
16	Y40016Z-9	1-15/16-12	0.620	2.110	1.500	1.520	NA	0.46	0.2
20	Y40020Z-9	1-5/8-12	0.620	2.260	1.812	2.000	NA	0.84	0.4
24	Y40024Z-9	1-7/8-12	0.765	2.180	2.125	2.280	NA	1.11	0.5



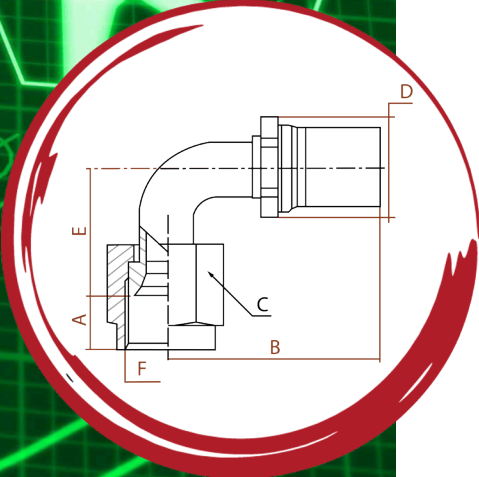
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40103-50	3/8-24	0.372	1.470	0.500	0.490	0.328	0.05	*
4	Y40104-50	7/16-20	0.372	1.405	0.562	0.550	0.347	0.06	*
5	Y40105-50	1/2-20	0.375	1.575	0.625	0.630	0.414	0.07	*
6	Y40106-12	4/16-18	0.375	1.890	0.688	0.700	0.471	0.09	*
8	Y40108-12	3/4-16	0.438	2.190	0.875	0.830	0.572	0.15	0.1
10	Y40110-12	7/8-14	0.515	2.410	1.000	0.970	0.643	0.20	0.1
12	Y40112-12	1-1/16-12	0.562	2.750	1.250	1.170	0.680	0.31	0.2
16	Y40116Z-12	1-15/16-12	0.620	3.350	1.500	1.520	0.790	0.50	0.2
20	Y40120Z-12	1-5/8-12	0.620	3.870	1.812	2.000	0.930	0.93	0.3
24	Y40124Z-12	1-7/8-12	0.765	4.540	2.125	2.280	1.052	1.31	0.6



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40203-50	3/8-24	0.372	1.250	0.500	0.490	0.580	0.05	*
4	Y40204-50	7/16-20	0.372	1.265	0.562	0.550	0.642	0.06	*
5	Y40205-50	1/2-20	0.375	1.320	0.625	0.630	0.773	0.08	*
6	Y40206-12	4/16-18	0.375	1.630	0.688	0.700	0.862	0.09	*
8	Y40208-12	3/4-16	0.438	1.890	0.875	0.830	1.037	0.15	0.1
10	Y40210-12	7/8-14	0.515	2.060	1.000	0.970	1.281	0.21	0.1
12	Y40212-12	1-1/16-12	0.562	2.520	1.250	1.170	1.405	0.33	0.2
16	Y40216Z-12	1-15/16-12	0.620	3.290	1.500	1.520	1.708	0.52	0.3
20	Y40220Z-12	1-5/8-12	0.620	3.430	1.812	2.000	2.050	1.06	0.3
24	Y40224Z-12	1-7/8-12	0.765	4.360	2.125	2.280	2.370	1.45	0.6



#### NOTES:

Straight fitting material code: "-9"=CRES; "-10"=Aluminum from -8 to -24

45° and 90° elbow fitting material code: "-12"=CRES; "-13"=Aluminum from -8 to -24

No aluminum for -3 to -6

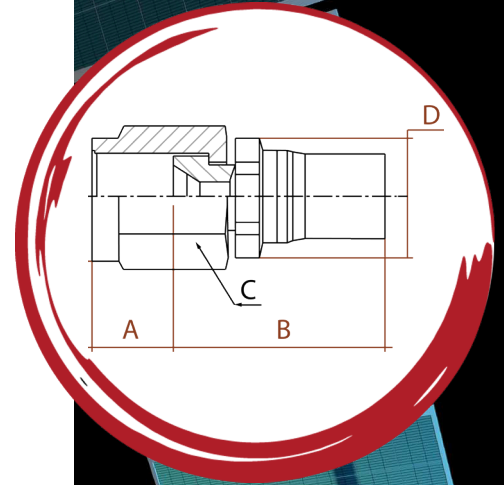


# Titeflex R101 (130/180 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

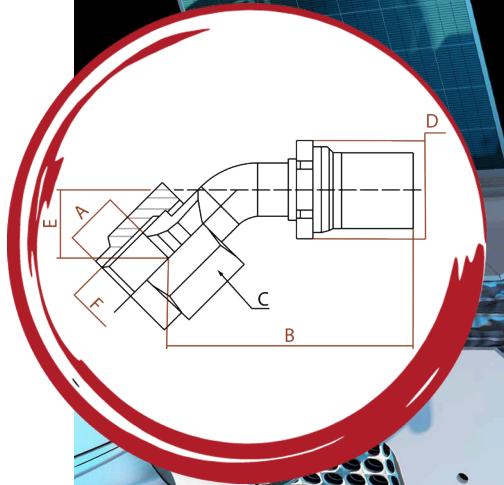
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 AND AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES	WEIGHT (GRAMS) LW.
3	Y40003-50	3/8-24	9.4	26.2	12.7	12.4	NA	20.3	*
4	Y40004-51	7/16-20	9.4	28.3	14.3	14.0	NA	20.7	*
5	Y40005-50	1/2-20	9.5	29.8	15.9	16.0	NA	29.5	*
6	Y40006-9	4/16-18	9.5	33.3	17.5	17.8	NA	36.0	*
8	Y40008-9	3/4-16	11.1	37.3	22.2	21.1	NA	59.5	30.5
10	Y40010-9	7/8-14	13.1	39.9	25.4	24.6	NA	82.0	37.5
12	Y40012-9	1-1/16-12	14.3	43.9	31.8	29.7	NA	127.0	59.5
16	Y40016Z-9	1-15/16-12	15.7	53.6	38.1	38.6	NA	209.0	100.0
20	Y40020Z-9	1-5/8-12	15.7	57.4	46.0	50.8	NA	382.0	164.0
24	Y40024Z-9	1-7/8-12	15.7	55.4	54.0	57.9	NA	502.0	219.0



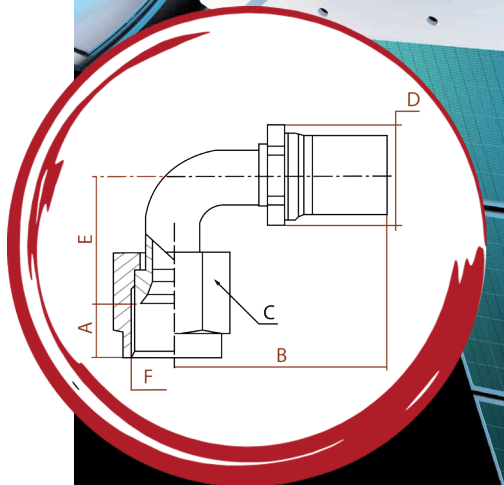
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES	WEIGHT (GRAMS) ALUM
3	Y40103-50	3/8-24	9.4	37.3	12.7	12.4	8.3	21.5	*
4	Y40104-50	7/16-20	9.4	35.7	14.3	14.0	8.8	26.0	*
5	Y40105-50	1/2-20	9.5	40.0	15.9	16.0	10.5	32.5	*
6	Y40106-12	4/16-18	9.5	48.0	17.5	17.8	12.0	39.0	*
8	Y40108-12	3/4-16	11.1	55.6	22.2	21.1	14.5	66.5	33.5
10	Y40110-12	7/8-14	13.1	61.2	25.4	24.6	16.3	89.0	44.5
12	Y40112-12	1-1/16-12	14.3	69.9	31.8	29.7	17.3	142.0	69
16	Y40116Z-12	1-15/16-12	15.7	85.1	38.1	38.6	20.1	227.0	110
20	Y40120Z-12	1-5/8-12	15.7	98.3	46.0	50.8	23.6	423.0	145
24	Y40124Z-12	1-7/8-12	15.7	115.3	54.0	57.9	26.7	595.0	254



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 AND AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40203-50	3/8-24	9.4	31.8	12.7	12.4	14.7	22.0	*
4	Y40204-50	7/16-20	9.4	32.1	14.3	14.0	16.3	28.0	*
5	Y40205-50	1/2-20	9.5	33.5	15.9	16.0	19.6	35.0	*
6	Y40206-12	4/16-18	9.5	41.4	17.5	17.8	21.9	41.5	*
8	Y40208-12	3/4-16	11.1	48.0	22.2	21.1	26.3	69.0	35.0
10	Y40210-12	7/8-14	13.1	52.3	25.4	24.6	32.5	94.0	46.0
12	Y40212-12	1-1/16-12	14.3	64.0	31.8	29.7	35.7	148.0	71.0
16	Y40216Z-12	1-15/16-12	15.7	83.6	38.1	38.6	43.4	238.0	131.0
20	Y40220Z-12	1-5/8-12	15.7	87.1	46.0	50.8	52.1	480.0	156.0
24	Y40224Z-12	1-7/8-12	15.7	110.7	54.0	57.9	60.2	656.0	275.0



#### NOTES:

Straight fitting material code: "-9"=CRES; "-10"=Aluminum from -8 to -24

45° and 90° elbow fitting material code: "-12"=CRES; "-13"=Aluminum from -8 to -24

No aluminum for -3 to -6



# Titeflex R101 (130/180 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40403-50	3/8-24	0.222	1.160	0.500	0.490	NA	0.140	0.04	*
4	Y40404-50	7/16-20	0.320	1.165	0.562	0.550	NA	0.155	0.05	*
5	Y40405-50	1/2-20	0.310	1.230	0.625	0.630	NA	0.157	0.07	*
6	Y40406-15	4/16-18	0.327	1.360	0.688	0.700	NA	0.164	0.08	*
8	Y40408-15	3/4-16	0.368	1.550	0.875	0.830	NA	0.189	0.11	0.1
10	Y40410-15	7/8-14	0.396	1.700	1.000	0.970	NA	0.201	0.20	0.1
12	Y40412-15	1-1/16-12	0.421	1.880	1.250	1.170	NA	0.228	0.32	0.1
16	Y40416Z-15	1-15/16-12	0.425	2.310	1.500	1.520	NA	0.297	0.52	0.2
20	Y40420Z-15	1-5/8-12	0.452	2.430	1.812	2.000	NA	0.3	0.95	0.4
24	Y40424Z-15	1-7/8-12	0.477	2.500	2.125	2.280	NA	0.365	1.30	0.6

### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40503-50	3/8-24	0.222	1.460	0.500	0.490	0.413	0.140	0.04	*
4	Y40504-50	7/16-20	0.320	1.585	0.562	0.550	0.419	0.155	0.06	*
5	Y40505-50	1/2-20	0.310	1.620	0.625	0.630	0.460	0.157	0.07	*
6	Y40506-15	4/16-18	0.327	2.030	0.688	0.700	0.544	0.164	0.08	*
8	Y40508-15	3/4-16	0.368	2.260	0.875	0.830	0.602	0.189	0.15	0.1
10	Y40510-15	7/8-14	0.396	2.600	1.000	0.970	0.735	0.201	0.20	0.1
12	Y40512-15	1-1/16-12	0.421	2.940	1.250	1.170	0.735	0.228	0.35	0.2
16	Y40516Z-15	1-15/16-12	0.425	3.500	1.500	1.520	0.936	0.297	0.58	0.3
20	Y40520Z-15	1-5/8-12	0.452	4.070	1.812	2.000	1.056	0.3	1.09	0.5
24	Y40524Z-15	1-7/8-12	0.477	4.600	2.125	2.280	1.276	0.365	1.52	0.6

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
3	Y40603-50	3/8-24	0.222	1.320	0.500	0.490	0.699	0.140	0.05	*
4	Y40604-50	7/16-20	0.320	1.205	0.562	0.550	0.744	0.155	0.06	*
5	Y40605-50	1/2-20	0.310	1.320	0.625	0.630	0.838	0.157	0.07	*
6	Y40606-15	4/16-18	0.327	1.700	0.688	0.700	0.995	0.164	0.09	*
8	Y40608-15	3/4-16	0.368	1.950	0.875	0.830	1.149	0.189	0.15	0.1
10	Y40610-15	7/8-14	0.396	2.260	1.000	0.970	1.411	0.201	0.21	0.1
12	Y40612-15	1-1/16-12	0.421	2.650	1.250	1.170	1.485	0.228	0.36	0.2
16	Y40616Z-15	1-15/16-12	0.425	3.340	1.500	1.520	1.914	0.297	0.60	0.3
20	Y40620Z-15	1-5/8-12	0.452	3.510	1.812	2.000	2.230	0.3	1.14	0.5
24	Y40624Z-15	1-7/8-12	0.477	4.190	2.125	2.280	2.688	0.365	1.63	0.7

#### NOTES:

Fitting material code: "-15"=CRES; "-16"=Aluminum

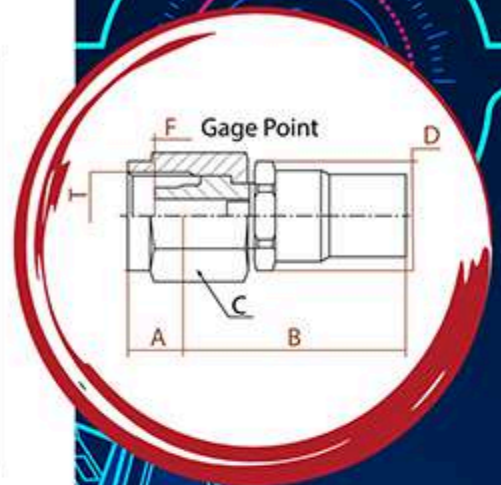


# Titeflex R101 (130/180 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

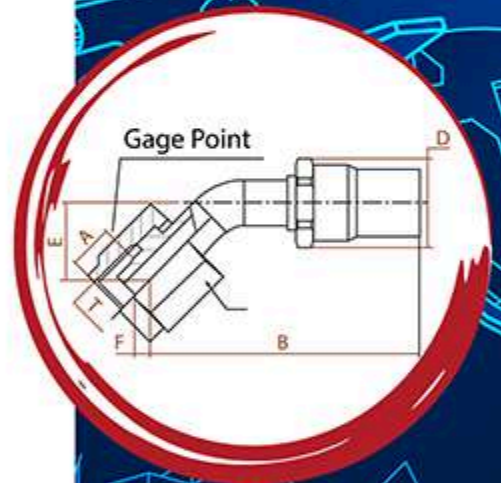
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES	WEIGHT (GRAMS) LW.
3	Y40403-50	3/8-24	5.6	29.5	12.7	12.4	NA	3.556	18.0	*
4	Y40404-50	7/16-20	8.1	29.6	14.3	14.0	NA	3.937	22.5	*
5	Y40405-50	1/2-20	7.9	31.2	15.9	16.0	NA	3.988	30.0	*
6	Y40406-15	4/16-18	8.3	34.5	17.5	17.8	NA	4.166	35.0	*
8	Y40408-15	3/4-16	9.3	39.4	22.2	21.1	NA	4.801	50.0	26.0
10	Y40410-15	7/8-14	10.1	43.2	25.4	24.6	NA	5.105	89.0	40.5
12	Y40412-15	1-1/16-12	10.7	47.8	31.8	29.7	NA	5.791	143.0	65.0
16	Y40416Z-15	1-15/16-12	10.8	58.7	38.1	38.6	NA	7.544	238.0	111.0
20	Y40420Z-15	1-5/8-12	11.5	61.7	46.0	50.8	NA	7.62	429.0	183.0
24	Y40424Z-15	1-7/8-12	11.4	63.5	54.0	57.9	NA	9.271	590.0	250.0



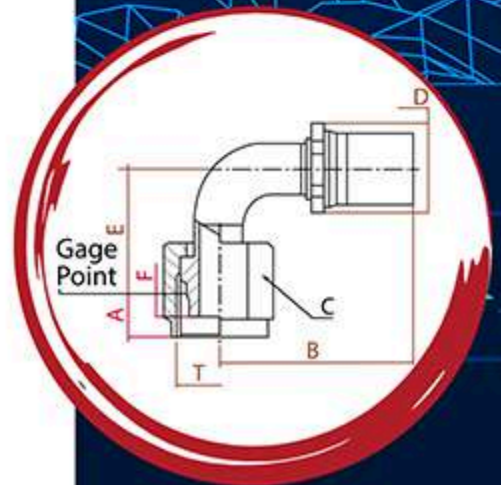
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES	WEIGHT (GRAMS) LW.
3	Y40503-50	3/8-24	5.6	37.1	12.7	12.4	10.5	2.515	20.0	*
4	Y40504-50	7/16-20	8.1	40.3	14.3	14.0	10.6	2.794	27.0	*
5	Y40505-50	1/2-20	7.9	41.1	15.9	16.0	11.7	3.607	33.0	*
6	Y40506-15	4/16-18	8.3	51.6	17.5	17.8	13.8	2.946	38.0	*
8	Y40508-15	3/4-16	9.3	57.4	22.2	21.1	15.3	3.404	67.5	32.0
10	Y40510-15	7/8-14	10.1	66.0	25.4	24.6	18.7	3.607	91.0	41.0
12	Y40512-15	1-1/16-12	10.7	74.7	31.8	29.7	18.7	4.089	157.0	70.0
16	Y40516Z-15	1-15/16-12	10.8	88.9	38.1	38.6	23.8	5.334	262.0	119.0
20	Y40520Z-15	1-5/8-12	11.5	103.4	46.0	50.8	26.8	5.385	495.0	206.0
24	Y40524Z-15	1-7/8-12	11.4	116.8	54.0	57.9	32.4	6.553	690.0	284.0



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES	WEIGHT (GRAMS) LW.
3	Y40603-50	3/8-24	5.6	33.5	12.7	12.4	17.8	3.556	22.5	*
4	Y40604-50	7/16-20	8.1	30.6	14.3	14.0	18.9	3.937	28.5	*
5	Y40605-50	1/2-20	7.9	33.5	15.9	16.0	21.3	3.988	34.0	*
6	Y40606-15	4/16-18	8.3	43.2	17.5	17.8	25.3	4.166	40.0	*
8	Y40608-15	3/4-16	9.3	49.5	22.2	21.1	29.2	4.801	69.0	33.0
10	Y40610-15	7/8-14	10.1	57.4	25.4	24.6	35.8	5.105	97.0	43.0
12	Y40612-15	1-1/16-12	10.7	67.3	31.8	29.7	37.7	5.791	162.0	72.0
16	Y40616Z-15	1-15/16-12	10.8	84.8	38.1	38.6	48.6	7.544	272.0	123.0
20	Y40620Z-15	1-5/8-12	11.5	89.2	46.0	50.8	56.6	7.62	516.0	213.0
24	Y40624Z-15	1-7/8-12	11.4	106.4	54.0	57.9	68.3	9.271	740.0	300.0



#### NOTES:

Fitting material code: "-15"=CRES; "-16"=Aluminum

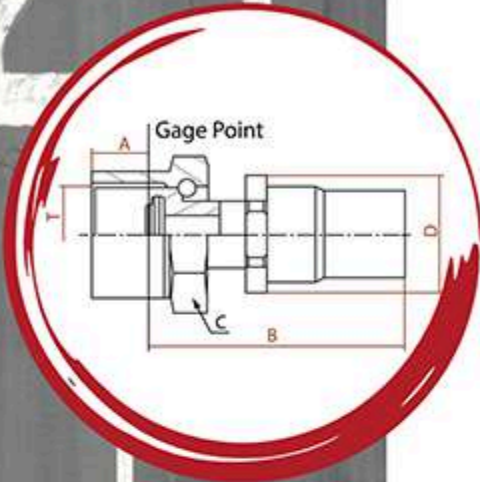


# Titeflex R101 (130/180 SERIES) Dualseal Fittings

## ENGLISH-INCHES

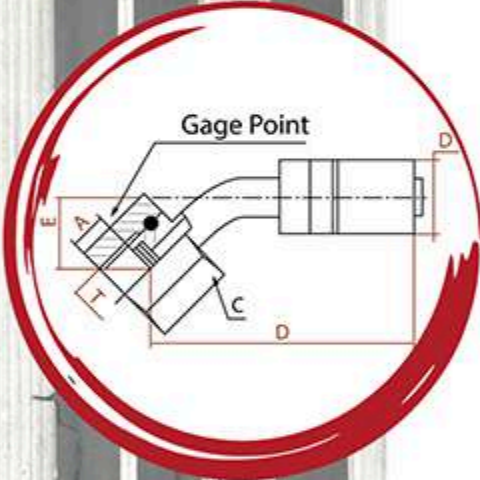
STRAIGHT DUALSEAL - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43004-50	7/16-24	0.215	1.290	0.562	0.550	NA	0.1
5	Y43005-50	1/2-24	0.215	1.150	0.625	0.630	NA	0.1
6	Y43006-47	9/16-20	0.235	1.245	0.688	0.700	NA	0.1
8	Y43008-47	13/32-20	0.248	1.330	0.875	0.830	NA	0.1
10	Y43010-47	27/32-18	0.312	1.380	1.000	0.970	NA	0.1
12	Y43012-47	1-16	0.352	1.570	1.125	1.170	NA	0.2
16	Y43016-47	1-1/4-14	0.380	1.975	1.375	1.520	NA	0.4
20	Y43020-47	1-37/64-14	0.395	2.080	1.875	2.000	NA	0.5
24	Y43024-47	1-27/32-14	0.482	1.970	2.125	2.280	NA	0.7



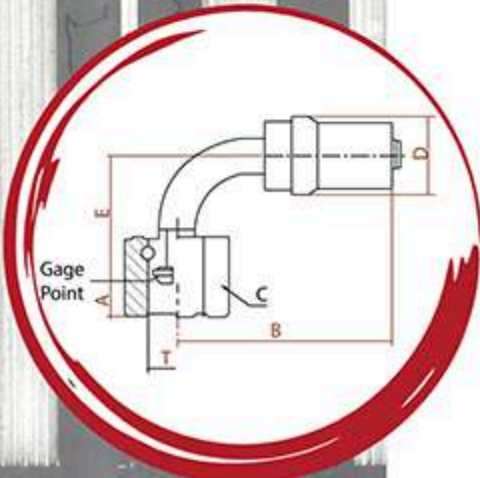
45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43104-50	7/16-24	0.215	1.805	0.562	0.550	0.481	0.1
5	Y43105-50	1/2-24	0.215	1.860	0.625	0.630	0.501	0.1
6	Y43106-47	9/16-20	0.235	1.990	0.688	0.700	0.57	0.1
8	Y43108-47	13/32-20	0.248	2.250	0.875	0.830	0.645	0.1
10	Y43110-47	27/32-18	0.312	2.440	1.000	0.970	0.736	0.2
12	Y43112-47	1-16	0.352	2.800	1.125	1.170	0.788	0.2
16	Y43116-47	1-1/4-14	0.380	3.360	1.375	1.520	0.917	0.4
20	Y43120-47	1-37/64-14	0.395	3.780	1.875	2.000	1.144	0.6
24	Y43124-47	1-27/32-14	0.482	3.960	2.125	2.280	1.289	0.9



90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43204-50	7/16-24	0.215	1.460	0.562	0.550	0.826	0.1
5	Y43205-50	1/2-24	0.215	1.500	0.625	0.630	0.896	0.1
6	Y43206-47	9/16-20	0.235	1.630	0.688	0.700	1.030	0.1
8	Y43208-47	13/32-20	0.248	1.890	0.875	0.830	1.210	0.1
10	Y43210-47	27/32-18	0.312	2.060	1.000	0.970	1.414	0.2
12	Y43212-47	1-16	0.352	2.450	1.125	1.170	1.560	0.2
16	Y43216-47	1-1/4-14	0.380	3.020	1.375	1.520	1.888	0.4
20	Y43220-47	1-37/64-14	0.395	3.360	1.875	2.000	2.361	0.7
24	Y43224-47	1-27/32-14	0.482	3.540	2.125	2.280	2.716	0.9



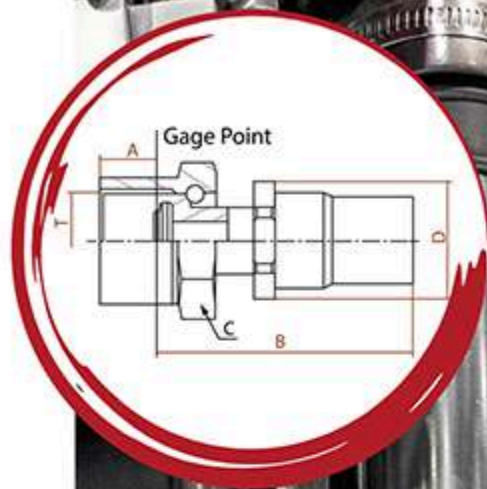


# Titeflex R101 (130/180 SERIES) Dualseal Fittings

## METRIC-MILLIMETERS

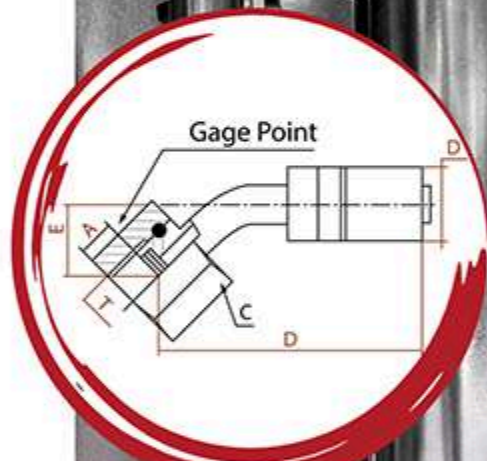
### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43004-50	7/16-24	5.5	32.8	14.3	14.0	NA	27.0
5	Y43005-50	1/2-24	5.5	29.2	15.9	16.0	NA	32.0
6	Y43006-47	9/16-20	6.0	31.6	17.5	17.8	NA	41.0
8	Y43008-47	13/32-20	6.3	33.8	22.2	21.1	NA	53.0
10	Y43010-47	27/32-18	7.9	35.1	25.4	24.6	NA	60.0
12	Y43012-47	1-16	8.9	39.9	28.6	29.7	NA	91.0
16	Y43016-47	1-1/4-14	9.7	50.2	34.9	38.6	NA	158.0
20	Y43020-47	1-37/64-14	10.0	52.8	47.6	50.8	NA	216.0
24	Y43024-47	1-27/32-14	12.2	50.0	54.0	57.9	NA	322.1



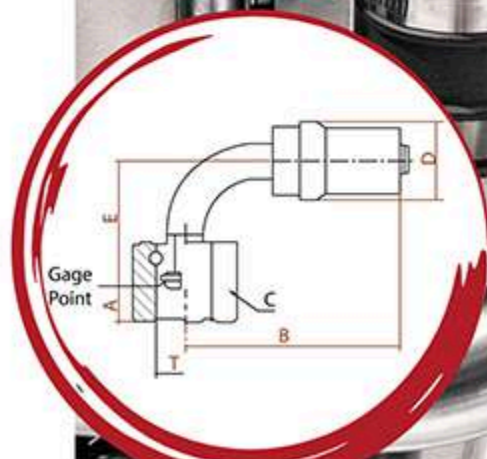
### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43104-50	7/16-24	5.5	45.8	14.3	14.0	12.2	28.0
5	Y43105-50	1/2-24	5.5	47.2	15.9	16.0	12.7	35.0
6	Y43106-47	9/16-20	6.0	50.5	17.5	17.8	14.5	36.0
8	Y43108-47	13/32-20	6.3	57.2	22.2	21.1	16.4	58.0
10	Y43110-47	27/32-18	7.9	62.0	25.4	24.6	18.7	80.0
12	Y43112-47	1-16	8.9	71.1	28.6	29.7	20.0	99.8
16	Y43116-47	1-1/4-14	9.7	85.3	34.9	38.6	23.3	158.8
20	Y43120-47	1-37/64-14	10.0	96.0	47.6	50.8	29.1	281.2
24	Y43124-47	1-27/32-14	12.2	100.6	54.0	57.9	32.7	385.6



### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43204-50	7/16-24	5.5	37.1	14.3	14.0	21.0	29.0
5	Y43205-50	1/2-24	5.5	38.1	15.9	16.0	22.8	37.0
6	Y43206-47	9/16-20	6.0	41.4	17.5	17.8	26.2	48.0
8	Y43208-47	13/32-20	6.3	48.0	22.2	21.1	30.7	61.0
10	Y43210-47	27/32-18	7.9	52.3	25.4	24.6	35.9	83.0
12	Y43212-47	1-16	8.9	62.2	28.6	29.7	39.6	104.3
16	Y43216-47	1-1/4-14	9.7	76.7	34.9	38.6	48.0	163.3
20	Y43220-47	1-37/64-14	10.0	85.3	47.6	50.8	60.0	294.8
24	Y43224-47	1-27/32-14	12.2	89.9	54.0	57.9	69.0	408.2







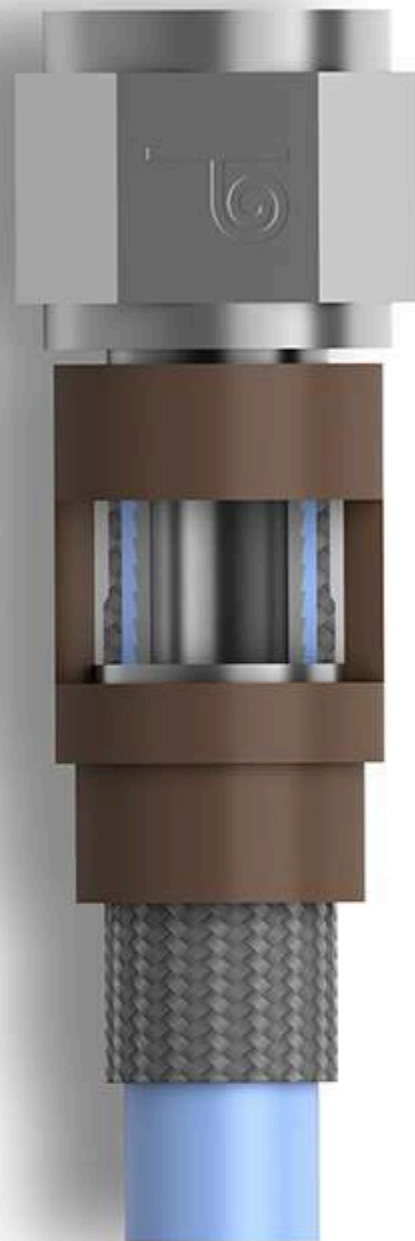




# Titeflex RM190 (190 SERIES)

**SERIES:** 190  
**SPECIFICATION:** SAE AS4897  
**BRAID:** CRES  
**INNERCORE:** PTFE Smoothbore  
**QUALIFICATIONS:** SAE AS4897,  
 AS1055 Type IIa, Class A & B,  
 Integral Firesleeve  
 TSO-C140, Type 1aB/11a, Class B

Aerospace low pressure smoothbore hose qualified to AS4897. The 190 Series is designed to answer the aerospace industry's need for a weight-saving low-pressure smoothbore PTFE hose. Operating pressures range from 1000 PSI (69 Bar) in the smaller diameters to 750 PSI (52 Bar) in the largest diameter. The hose consists of an extruded smoothbore PTFE innercore, reinforced with a single layer of CRES 304 wire braid. PTFE provides excellent chemical resistance over a temperature range of -65°F to +450°F (-54°C to +232°C) with unlimited shelf life. All 190 Series hose assemblies are furnished with AS1055 Class A & B integral firesleeve. Qualified standard fittings are CRES. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	in HG	psi	psi
4	1,000	0.173	0.46	0.5	0.01	1	2,000	28	4,000	3,200
6	750	0.298	0.575	0.615	0.014	2	1,500	28	3,000	2,400
8	750	0.391	0.665	0.705	0.017	2	15,000	28	3,000	2,250

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	mm Hg	bar	bar
4	69	4.4	11.7	12.7	179	25.4	138	711.2	276	221
6	52	7.6	14.6	15.6	250	50.8	103	711.2	207	165
8	52	9.9	16.9	17.9	304	50.8	103	711.2	207	155

### NOTES

/1/ Over minimum 305mm length

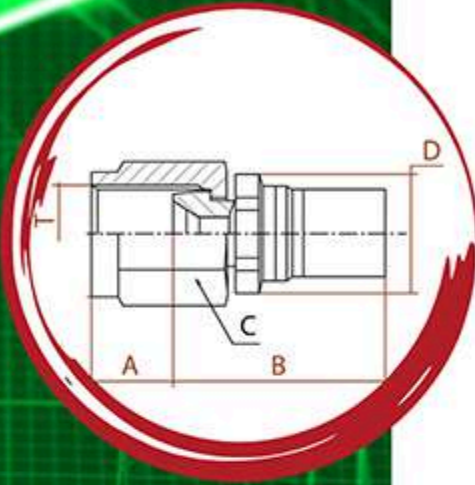
/2/ Inside of bend

# Titeflex RM 190 (190 SERIES) Flared (JIC) Fittings

## ENGLISH-INCHES

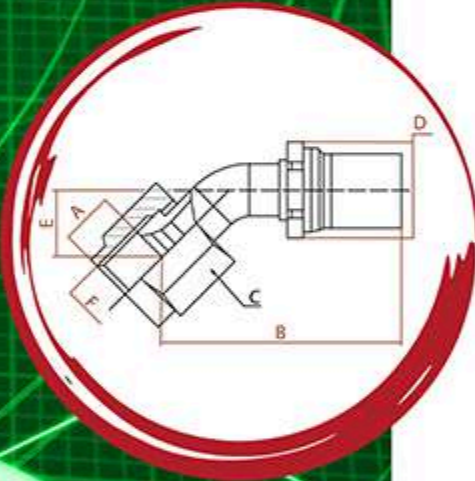
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40004-88	7/16-20	0.372	0.950	0.562	0.550	NA	0.05
6	Y40006-88	9/16-18	0.369	1.185	0.687	1.700	NA	0.081
8	Y40008-88	3/4-16	0.438	1.300	0.875	1.830	NA	0.115



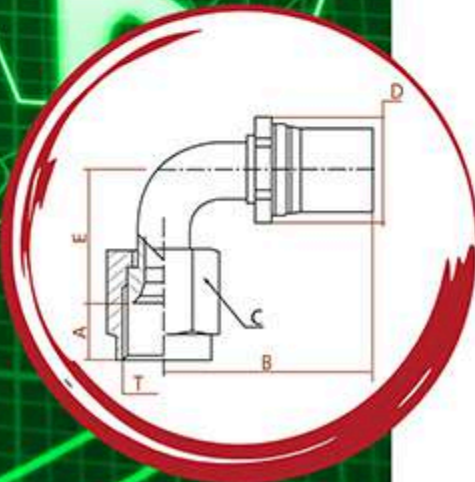
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40104-88	7/16-20	0.372	1.445	0.562	0.550	0.347	0.054
6	Y40106-88	9/16-18	0.369	1.841	0.687	0.700	0.471	0.093
8	Y40108-88	3/4-16	0.438	2.191	0.875	0.830	0.572	0.13



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40204-88	7/16-20	0.372	1.165	0.562	0.550	0.642	0.056
6	Y40206-88	9/16-18	0.369	1.511	0.687	0.700	0.882	0.096
8	Y40208-88	3/4-16	0.438	1.781	0.875	0.830	1.037	0.136



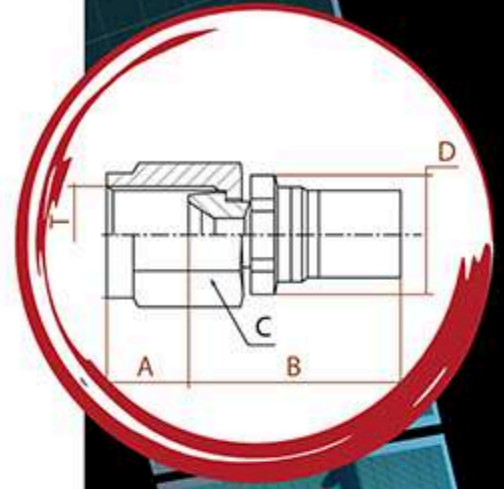


# Titeflex RM 190 (190 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

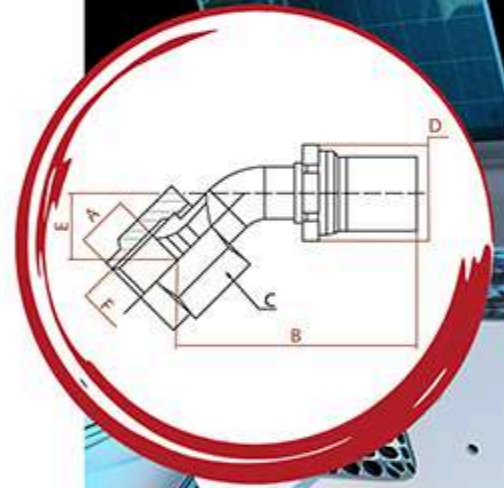
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40004-88	7/16-20	9.4	24.1	14.3	14.0	NA	22.7
6	Y40006-88	9/16-18	9.4	30.1	17.4	17.8	NA	36.7
8	Y40008-88	3/4-16	11.1	33.0	22.2	21.1	NA	52.2



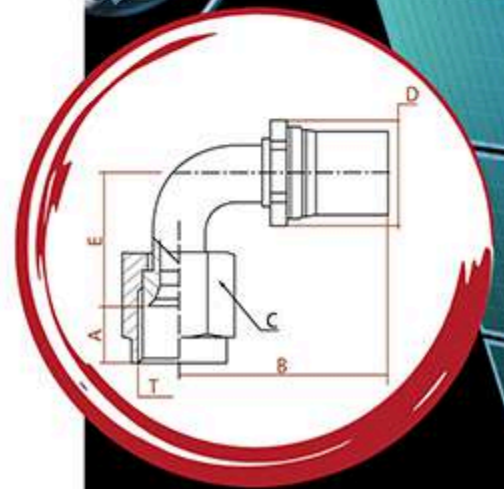
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40104-88	7/16-20	9.4	36.7	14.3	14.0	8.8	24.5
6	Y40106-88	9/16-18	9.4	46.8	17.4	17.8	12.0	42.2
8	Y40108-88	3/4-16	11.1	55.7	22.2	21.1	14.5	59.0



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40204-88	7/16-20	29.6	36.7	14.3	14.0	16.3	25.4
6	Y40206-88	9/16-18	38.4	46.8	17.4	17.8	22.4	43.5
8	Y40208-88	3/4-16	45.2	55.7	22.2	21.1	26.3	61.7









# Titeflex RA170 (220 SERIES)

**SERIES:** 220  
**SPECIFICATION:** SAE AS1975, Class 3000  
**BRAID:** Kevlar®  
**INNERCORE:** PTFE Smoothbore  
**QUALIFICATIONS:** SAE AS1975, Class 3000  
 TSO-C75 Type II-S/P  
 TSO-C75 Type IIB-S/P

RA170 (220 Series) is a lightweight 3000psi (207 bar) non-metallic aerospace hose assembly qualified to AS1975. The hose consists of an extruded smoothbore conductive PTFE innercore, reinforced with Kevlar® para-aramid braid. PTFE provides excellent chemical resistance and unlimited shelf life. 220 Series is ideal for weight critical 3000 PSI (207 Bar) applications within the temperature range of -65° to +275°F (-54°C to +135°C). Fire protection is available per AS1055 Class A with slip-on AS1072 firesleeve. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	psi	psi
6	3,000	0.298	0.495	0.555	0.008	2.5	8,000	12,000	9,000
8	3,000	0.391	0.65	0.71	0.012	2.88	8,000	12,000	9,000
10	3,000	0.485	0.85	0.92	0.02	3.25	8,000	12,000	9,000

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	bar	bar
6	207	7.6	12.6	14.1	143	63.5	552	827	651
8	207	9.9	16.5	18	214	73.2	552	827	651
10	207	12.3	21.6	23.4	357	82.6	552	827	651

### NOTES

/1/ Over minimum 305mm length

/2/ Inside of bend

# Titeflex RA170 (220 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40406-18	9/16-18	0.326	1.835	0.688	0.800	NA	0.164	0.1
8	Y40408-18	3/4-16	0.368	2.165	0.875	0.970	NA	0.189	0.1
10	Y40410-18	7/8-14	0.396	2.905	1.000	1.150	NA	0.201	0.2

### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40506-18	9/16-18	0.326	2.425	0.688	0.800	0.405	0.116	0.1
8	Y40508-18	3/4-16	0.368	2.735	0.875	0.970	0.465	0.134	0.2
10	Y40510-18	7/8-14	0.396	3.655	1.000	1.150	0.575	0.142	0.3

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40606-18	9/16-18	0.326	2.150	0.688	0.800	0.745	0.164	0.1
8	Y40608-18	3/4-16	0.368	2.490	0.875	0.970	0.875	0.189	0.2
10	Y40610-18	7/8-14	0.396	3.375	1.000	1.150	1.115	0.201	0.3

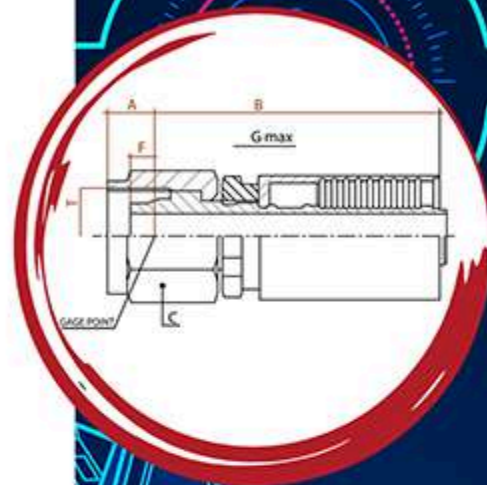


# Titeflex RA170 (220 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

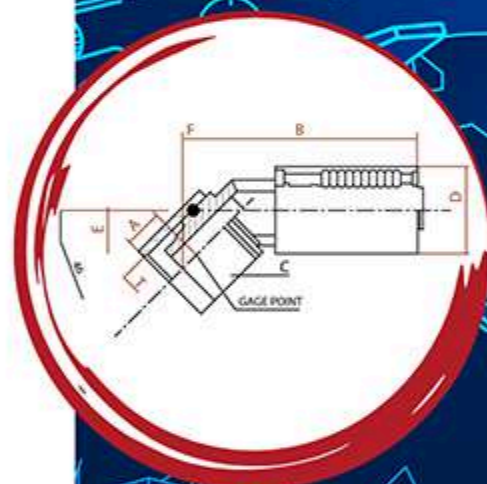
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
6	Y40406-18	9/16-18	8.3	46.6	17.5	20.3	NA	4.17	38.0
8	Y40408-18	3/4-16	9.3	55.0	22.2	24.6	NA	4.80	61.0
10	Y40410-18	7/8-14	10.1	73.8	25.4	29.2	NA	5.11	111.0



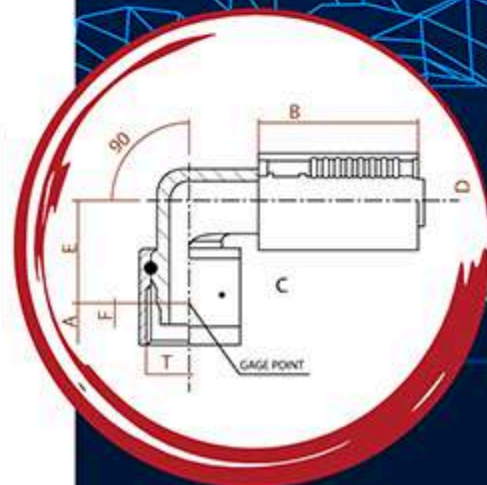
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
6	Y40506-18	9/16-18	8.3	61.6	17.5	20.3	10.3	2.95	43.5
8	Y40508-18	3/4-16	9.3	69.5	22.2	24.6	11.8	3.40	70.0
10	Y40510-18	7/8-14	10.1	92.8	25.4	29.2	14.6	3.61	129.0



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

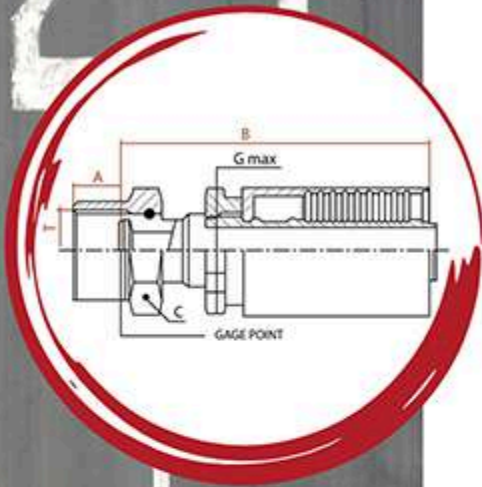
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
6	Y40606-18	9/16-18	8.3	54.6	17.5	20.3	18.9	4.17	46.0
8	Y40608-18	3/4-16	9.3	63.2	22.2	24.6	22.2	4.80	75.0
10	Y40610-18	7/8-14	10.1	85.7	25.4	29.2	28.3	5.11	141.0



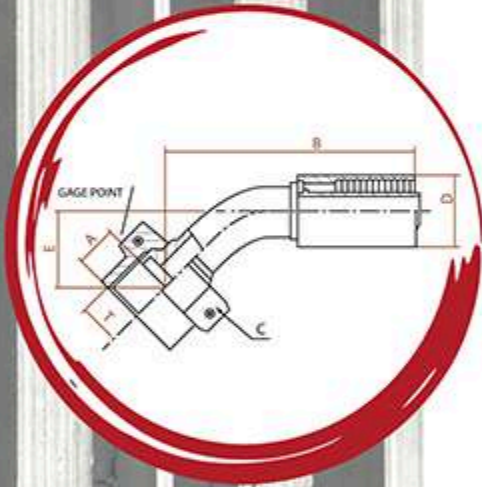
# Titeflex RA170 (220 SERIES) Dualseal Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

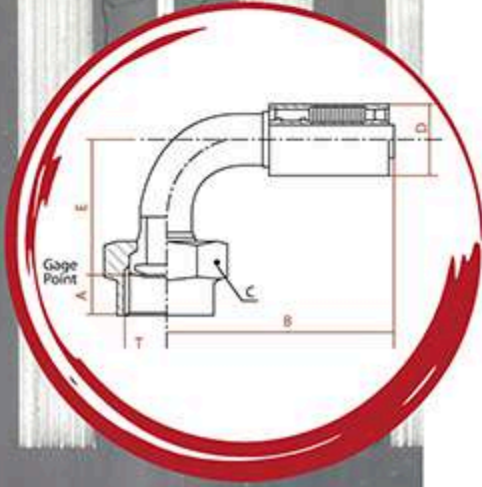


HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40406-18	9/16-18	0.326	1.835	0.688	0.800	NA	0.164	0.1
8	Y40408-18	3/4-16	0.368	2.165	0.875	0.970	NA	0.189	0.1
10	Y40410-18	7/8-14	0.396	2.905	1.000	1.150	NA	0.201	0.2



### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
6	Y43206-18	9/16-18	0.235	2.355	0.688	0.800	0.333	0.1
8	Y43208-18	23/32-16	0.248	2.630	0.875	0.970	0.359	0.1
10	Y43210-18	27/32-14	0.312	3.490	1.000	1.150	0.409	0.2



### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
6	Y43306-18	9/16-18	0.235	2.150	0.688	0.800	0.655	0.1
8	Y43308-18	23/32-16	0.248	2.490	0.875	0.970	0.738	0.1
10	Y43310-18	27/32-14	0.312	3.375	1.000	1.150	0.884	0.3

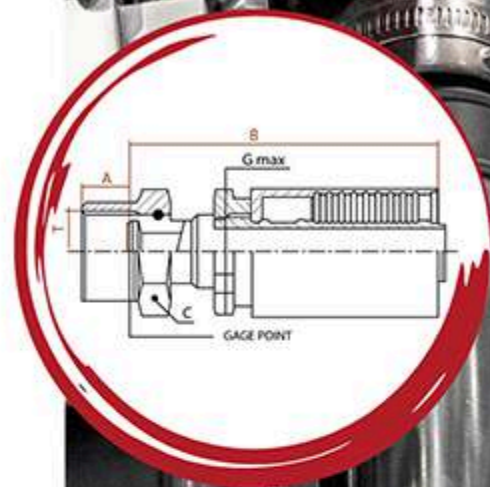


# Titeflex RA170 (220 SERIES) Dualseal Fittings

## METRIC-MILLIMETERS

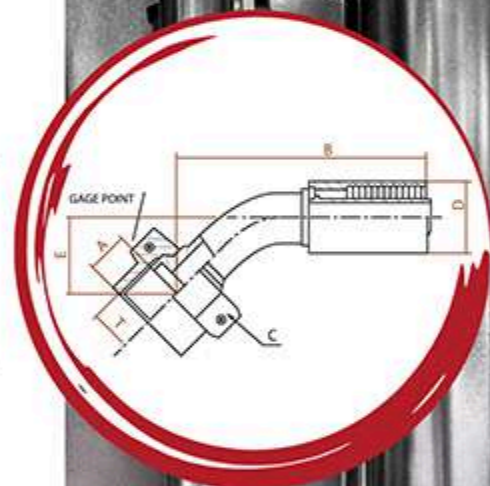
### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
6	Y43106-18	9/16-18	6.0	43.7	17.5	20.3	NA	32.0
8	Y43108-18	3/4-16	6.3	49.5	22.2	24.6	NA	50.0
10	Y43110-18	7/8-14	7.9	65.5	25.4	29.2	NA	92.0



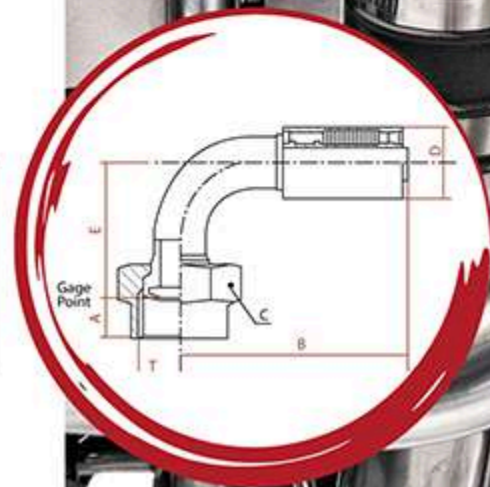
### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

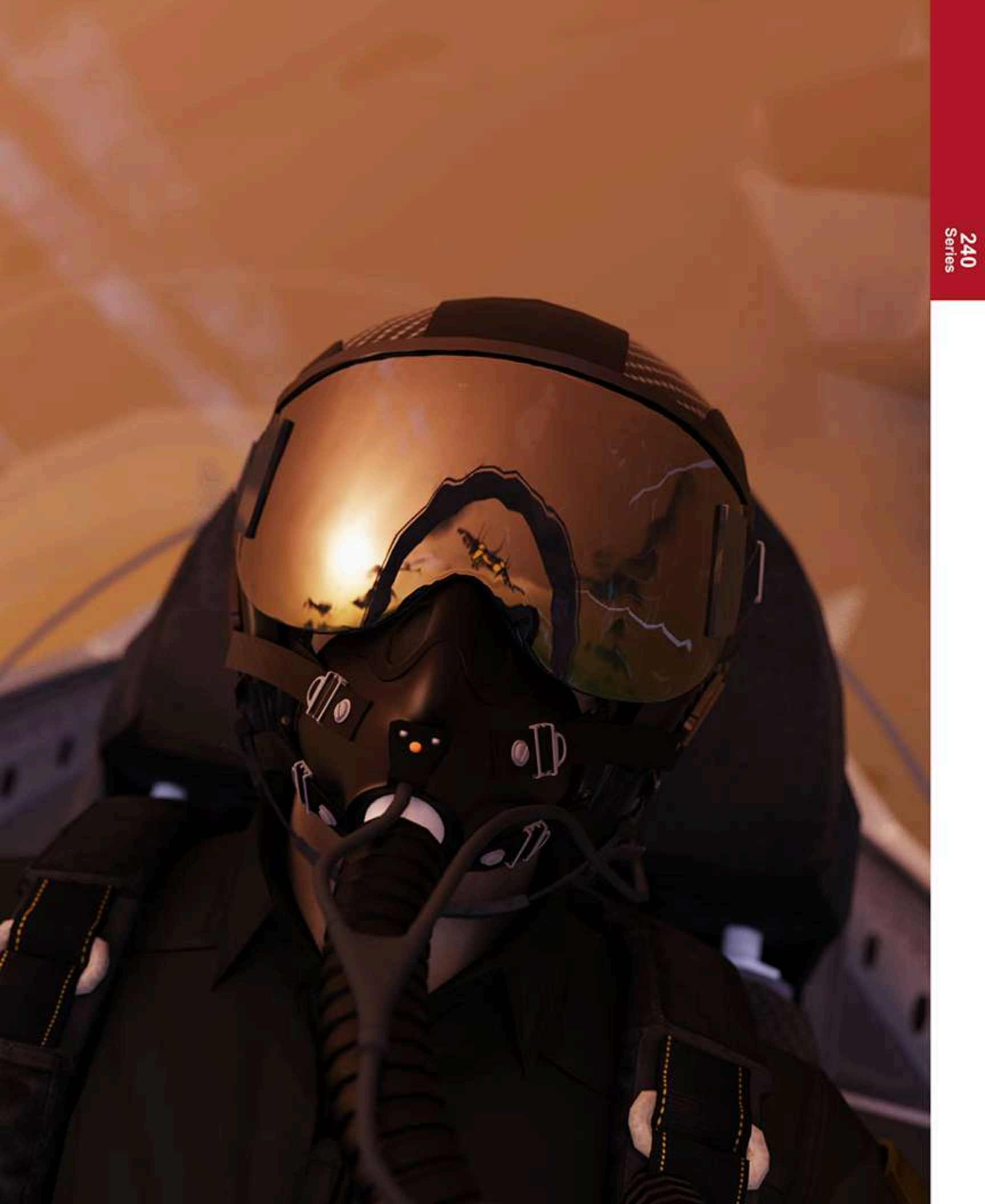
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
6	Y43206-18	9/16-18	6.0	59.8	17.5	20.3	8.5	39.0
8	Y43208-18	3/4-16	6.3	66.8	22.2	24.6	9.1	59.0
10	Y43210-18	7/8-14	7.9	88.6	25.4	29.2	10.4	110.0



### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
6	Y43306-18	9/16-18	6.0	54.6	17.5	20.3	16.6	41.0
8	Y43308-18	3/4-16	6.3	63.2	22.2	24.6	18.7	64.0
10	Y43310-18	7/8-14	7.9	85.7	25.4	29.2	22.5	122.0









# Titeflex R160 (240 SERIES)

**SERIES:** 240  
**SPECIFICATION:** SAE AS1339  
**BRAID:** CRES  
**INNERCORE:** PTFE Smoothbore  
**QUALIFICATIONS:** SAE AS1339,  
 TSO C75 Type IIIB-S/P-F  
 AS1055 Type IIa & IIb, Class A & B,  
 Integral and Slip-on Firesleeve

The 240 Series is a lightweight high pressure 3000 PSI (207 Bar) aerospace hose qualified to AS1339. The hose consists of an extruded smoothbore PTFE innercore, reinforced with CRES 304 wire braid in a single layer on sizes -04 through -10, or a double layer on sizes -12 through -24. The PTFE innercore is conductive and provides excellent chemical resistance through a temperature range of -65°F to +400°F (-54°C to +204°C) with unlimited shelf life. The pre-tensioned braid gives 240 Series hose the tightest bend radius of any metal braided high pressure PTFE hose. The standard fitting material is CRES, but titanium is also available for weight savings. Fire protection per AS1055 Class A & B can be either integral or slip-on AS1072 firesleeve. Chafe sleeves are available in a variety of integral or slip-on materials. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube from sizes -16 to -24: less than AS1339 rating.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	psi	psi
4	3,000	0.212	0.36	0.39	0.009	1.5	6,000	16,000	12,000
6	3,000	0.298	0.455	0.49	0.015	2.5	6,000	14,000	10,500
8	3,000	0.391	0.585	0.615	0.02	2.88	6,000	14,000	10,500
10	3,000	0.485	0.69	0.73	0.027	3.25	6,000	12,000	9,000
12	3,000	0.602	0.95	0.99	0.058	4	6,000	12,000	9,000
16	3,000	0.852	1.23	1.27	0.085	5	6,000	12,000	9,000
20	3,000	1.101	1.56	1.64	0.154	12	6,000	12,000	9,000
24	3,000	1.36	1.84	1.9	0.159	14	6,000	12,000	9,000

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	bar	bar
4	207	5.4	9.1	9.9	161	38.1	414	1 103	827
6	207	7.6	11.7	12.45	268	63.5	414	965	724
8	207	9.9	14.9	15.62	357	73	414	965	724
10	207	12.6	17.8	18.5	482	82.5	414	827	621
12	207	15.6	24.1	25.15	1 036	98.5	414	827	621
16	207	21.6	31.2	32.3	1 518	127	414	827	621
20	207	28	41.7	41.7	2 753	304.8	414	827	621
24	207	34.5	46.7	48.3	2 842	355.6	414	827	621

### NOTES

/1/ Over minimum 305mm length

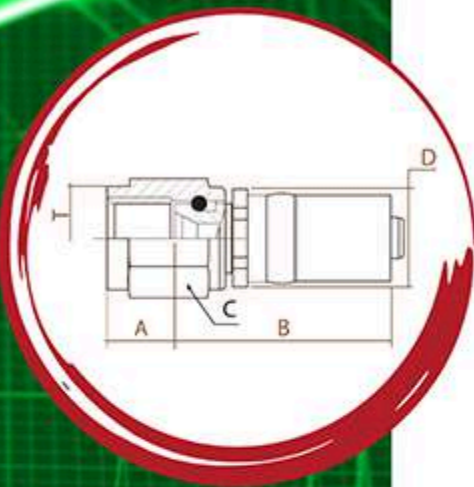
/2/ Inside of bend

# Titeflex R160 (240 SERIES) Flared (JIC) Fittings

## ENGLISH-INCHES

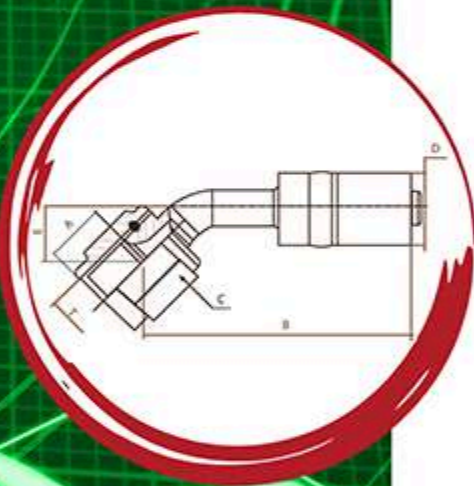
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40004-72	7/16-20	0.372	1.300	0.562	0.690	NA	0.063
6	Y40006-72	9/16-18	0.375	1.470	0.688	0.800	NA	0.87
8	Y40008-72	3/4-16	0.438	1.610	0.875	0.970	NA	0.146
10	Y40010-72	7/8-14	0.515	1.670	1.000	1.100	NA	0.195
12	Y40012-72	1-1/16-12	0.562	1.910	1.250	1.380	NA	0.351
16	Y40016-72	1-5/16-12	0.620	2.250	1.500	1.660	NA	0.558
20	Y40020-72	1-5/8-12	0.620	2.810	1.812	1.060	NA	1.274
24	Y40024-72	1-7/8-12	0.765	3.170	2.125	2.460	NA	1.64



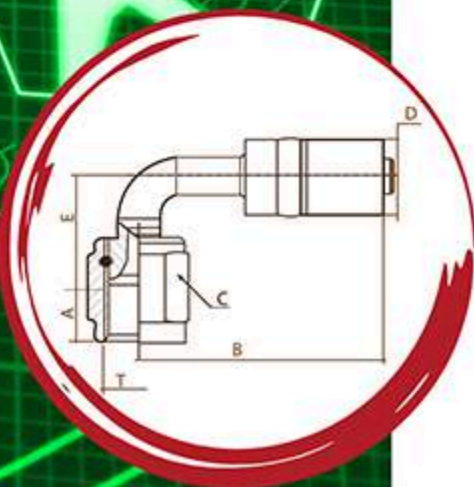
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40104-72	7/16-20	0.372	1.930	0.562	0.690	0.348	0.066
6	Y40106-72	9/16-18	0.375	2.070	0.688	0.800	0.471	0.101
8	Y40108-72	3/4-16	0.438	2.320	0.875	0.970	0.572	0.171
10	Y40110-72	7/8-14	0.515	2.560	1.000	1.100	0.643	0.23
12	Y40112-72	1-1/16-12	0.562	2.990	1.250	1.380	0.680	0.41
16	Y40116-72	1-5/16-12	0.620	3.750	1.500	1.660	0.790	0.683



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40204-72	7/16-20	0.372	1.530	0.562	0.690	0.642	0.066
6	Y40206-72	9/16-18	0.375	1.840	0.688	0.800	0.890	0.106
8	Y40208-72	3/4-16	0.438	2.050	0.875	0.970	1.107	0.182
10	Y40210-72	7/8-14	0.515	2.410	1.000	1.100	1.281	0.251
12	Y40212-72	1-1/16-12	0.562	2.770	1.250	1.380	1.405	0.443
16	Y40216-72	1-5/16-12	0.620	3.350	1.500	1.660	1.833	0.745



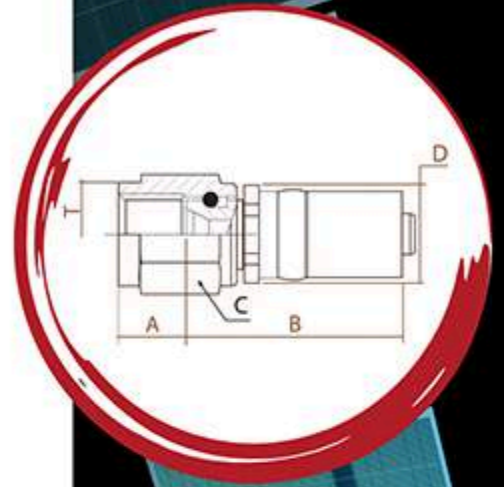


# Titeflex R160 (240 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

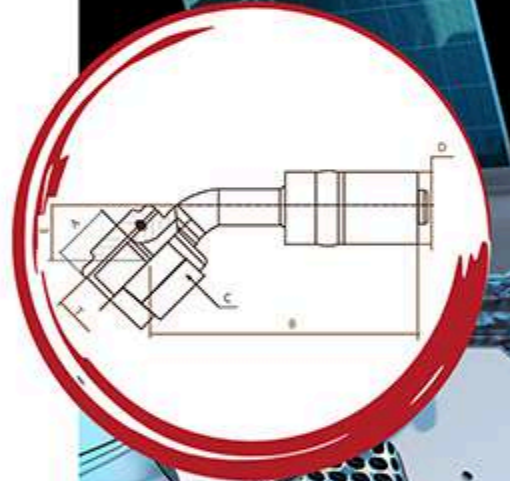
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40004-72	7/16-20	9.4	33.0	14.3	17.5	NA	28.5
6	Y40006-72	9/16-18	9.5	37.3	17.5	20.3	NA	39.4
8	Y40008-72	3/4-16	11.1	40.9	22.2	24.6	NA	66.0
10	Y40010-72	7/8-14	13.1	42.4	25.4	27.9	NA	88.3
12	Y40012-72	1-1/16-12	14.3	48.5	31.8	35.1	NA	159.0
16	Y40016-72	1-5/16-12	15.7	57.2	38.1	42.2	NA	253.0
20	Y40020-72	1-5/8-12	15.7	71.4	46.0	52.3	NA	578.0
24	Y40024-72	1-7/8-12	19.4	80.5	54.0	62.5	NA	744.0



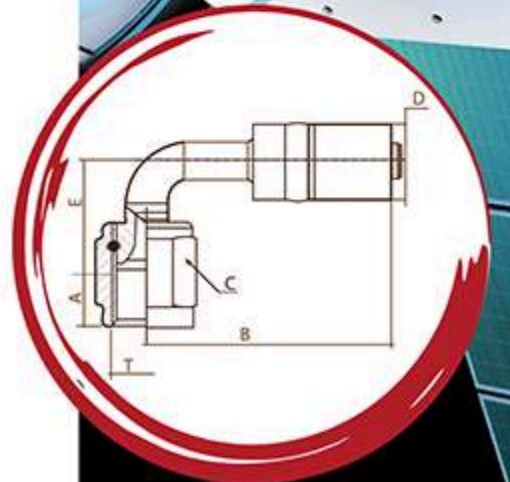
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40104-72	7/16-20	9.4	49.0	14.3	17.5	8.8	30.0
6	Y40106-72	9/16-18	9.5	52.6	17.5	20.3	12.0	46.0
8	Y40108-72	3/4-16	11.1	58.9	22.2	24.6	14.5	77.5
10	Y40110-72	7/8-14	13.1	65.0	25.4	27.9	16.3	104.5
12	Y40112-72	1-1/16-12	14.3	75.9	31.8	35.1	17.3	186.0
16	Y40116-72	1-5/16-12	15.7	95.3	38.1	42.2	20.1	310.0



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40204-72	7/16-20	9.4	38.9	14.3	17.5	16.3	30.0
6	Y40206-72	9/16-18	9.5	46.7	17.5	20.3	22.6	48.0
8	Y40208-72	3/4-16	11.1	52.1	22.2	24.6	28.1	82.5
10	Y40210-72	7/8-14	13.1	61.2	25.4	27.9	32.5	114.0
12	Y40212-72	1-1/16-12	14.3	70.4	31.8	35.1	35.7	201.0
16	Y40216-72	1-5/16-12	15.7	85.1	38.1	42.2	46.6	338.0



# Titeflex R160 (240 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40404-72	7/16-20	0.320	1.360	0.562	0.690	NA	0.155	0.063
6	Y40406-72	9/16-18	0.326	1.520	0.688	0.800	NA	0.164	0.097
8	Y40408-72	3/4-16	0.368	1.680	0.875	0.970	NA	0.189	0.152
10	Y40410-72	7/8-14	0.396	1.790	1.000	1.100	NA	0.201	0.203
12	Y40412-72	1-1/16-12	0.421	2.050	1.250	1.380	NA	0.228	0.450
16	Y40416-72	1-5/16-12	0.425	2.450	1.500	1.660	NA	0.297	0.626
20	Y40420-72	1-5/8-12	0.452	2.990	1.812	2.060	NA	0.300	1.418
24	Y40424-72	1-7/8-12	0.765	3.500	2.125	2.460	NA	0.3650	2.048

### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40504-72	7/16-20	0.320	1.950	0.562	0.690	0.419	0.110	0.069
6	Y40506-72	9/16-18	0.326	2.100	0.688	0.800	0.544	0.116	0.110
8	Y40508-72	3/4-16	0.368	2.370	0.875	0.970	0.601	0.133	0.174
10	Y40510-72	7/8-14	0.396	2.640	1.000	1.100	0.735	0.143	0.243
12	Y40512-72	1-1/16-12	0.421	3.060	1.250	1.380	0.735	0.162	0.529
16	Y40516-72	1-5/16-12	0.425	3.840	1.500	1.660	0.936	0.210	0.802

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40604-72	7/16-20	0.320	1.470	0.562	0.690	0.774	0.155	0.069
6	Y40606-72	9/16-18	0.326	1.790	0.688	0.800	0.995	0.164	0.115
8	Y40608-72	3/4-16	0.368	2.070	0.875	0.970	1.149	0.189	0.194
10	Y40610-72	7/8-14	0.396	2.230	1.000	1.100	1.411	0.201	0.260
12	Y40612-72	1-1/16-12	0.421	2.800	1.250	1.380	1.485	0.228	0.547
16	Y40616-72	1-5/16-12	0.425	3.520	1.500	1.660	1.914	0.297	0.825

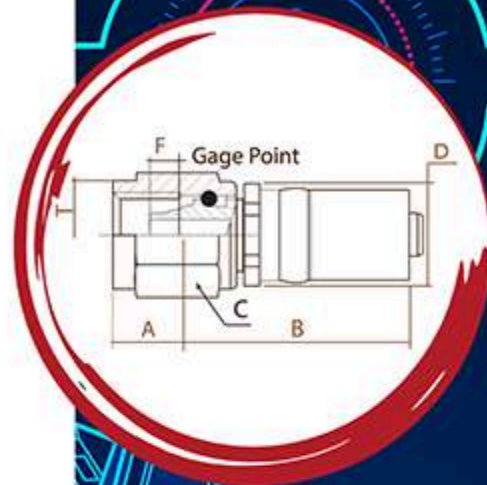


# Titeflex R160 (240 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

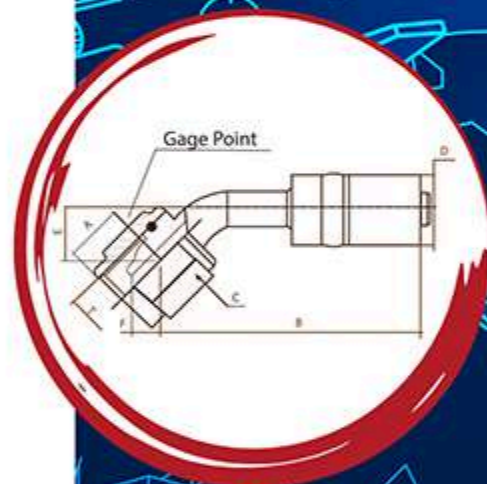
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40404-72	7/16-20	8.1	34.5	14.3	17.5	NA	3.94	28.5
6	Y40406-72	9/16-18	8.3	38.6	17.5	20.3	NA	4.17	44.0
8	Y40408-72	3/4-16	9.3	42.7	22.2	24.6	NA	4.80	69.0
10	Y40410-72	7/8-14	10.1	45.5	25.4	27.9	NA	5.11	92.0
12	Y40412-72	1-1/16-12	10.7	52.1	31.8	35.1	NA	5.79	204.0
16	Y40416-72	1-5/16-12	10.8	62.2	38.1	42.2	NA	7.54	284.0
20	Y40420-72	1-5/8-12	11.5	75.9	46.0	52.3	NA	7.62	643.0
24	Y40424-72	1-7/8-12	19.4	88.9	54.0	62.5	NA	9.27	929.0



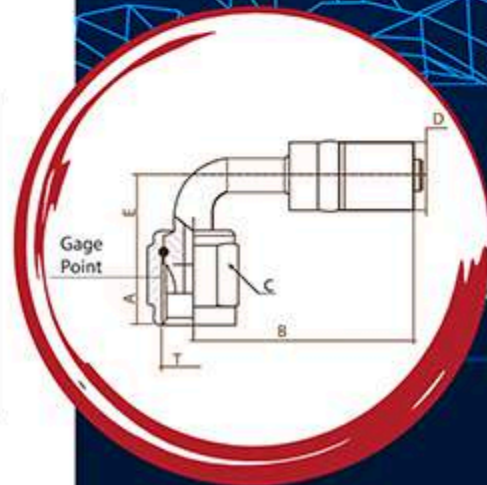
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40504-72	7/16-20	8.1	49.5	14.3	17.5	10.6	2.79	31.5
6	Y40506-72	9/16-18	8.3	53.3	17.5	20.3	13.8	2.95	50.0
8	Y40508-72	3/4-16	9.3	60.2	22.2	24.6	15.3	3.38	79.0
10	Y40510-72	7/8-14	10.1	67.1	25.4	27.9	18.7	3.63	110.0
12	Y40512-72	1-1/16-12	10.7	77.7	31.8	35.1	18.7	4.11	240.0
16	Y40516-72	1-5/16-12	10.8	9.5	38.1	42.2	23.8	5.33	364.0



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

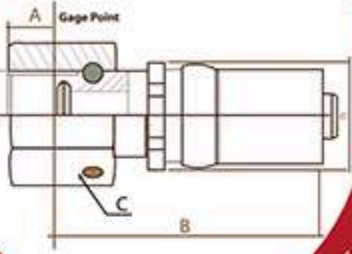
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40604-72	7/16-20	8.1	37.3	14.3	17.5	19.7	3.94	31.5
6	Y40606-72	9/16-18	8.3	45.5	17.5	20.3	25.3	4.17	52.0
8	Y40608-72	3/4-16	9.3	52.6	22.2	24.6	29.2	4.800	88.0
10	Y40610-72	7/8-14	10.1	56.6	25.4	27.9	35.8	5.11	118.0
12	Y40612-72	1-1/16-12	10.7	71.1	31.8	35.1	37.7	5.79	248.0
16	Y40616-72	1-5/16-12	10.8	89.4	38.1	42.2	48.6	7.54	374.0



# Titeflex R160 (240 SERIES) Dualseal Fittings

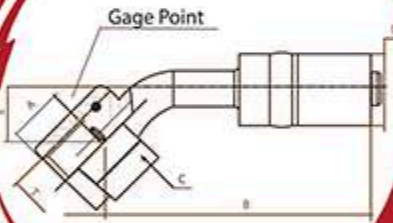
## ENGLISH-INCHES

### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207



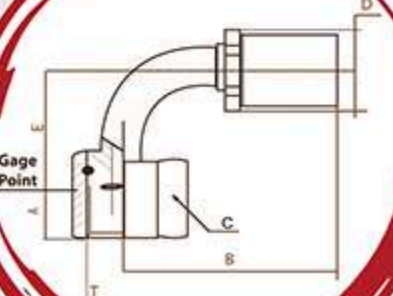
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43004-72	7/16-24	0.215	1.290	0.562	0.690	NA	0.1
6	Y43006-72	9/16-20	0.235	1.430	0.688	0.800	NA	0.1
8	Y43008-72	13/32-20	0.248	1.460	0.875	0.970	NA	0.1
10	Y43010-72	27/32-18	0.312	1.490	1.000	1.100	NA	0.2
12	Y43012-72	1-16	0.352	1.760	1.250	1.380	NA	0.3
16	Y43016-72	1-1/4-14	0.380	2.140	1.500	1.660	NA	0.5

### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207



HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43104-72	7/16-24	0.215	1.900	0.562	0.690	0.480	0.1
6	Y43106-72	9/16-20	0.235	2.230	0.688	0.800	0.570	0.1
8	Y43108-72	13/32-20	0.248	2.300	0.875	0.970	0.645	0.1
10	Y43110-72	27/32-18	0.312	2.460	1.000	1.100	0.736	0.2
12	Y43112-72	1-16	0.352	2.890	1.250	1.380	0.788	0.3
16	Y43116-72	1-1/4-14	0.380	3.420	1.500	1.660	0.917	0.7

### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207



HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43204-72	7/16-24	0.215	1.690	0.562	0.690	0.825	0.1
6	Y43206-72	9/16-20	0.235	2.100	0.688	0.800	1.062	0.1
8	Y43208-72	13/32-20	0.248	1.930	0.875	0.970	1.210	0.2
10	Y43210-72	27/32-18	0.312	2.070	1.000	1.100	1.414	0.2
12	Y43212-72	1-16	0.352	2.530	1.250	1.380	1.560	0.4
16	Y43216-72	1-1/4-14	0.380	3.070	1.500	1.660	1.888	0.7

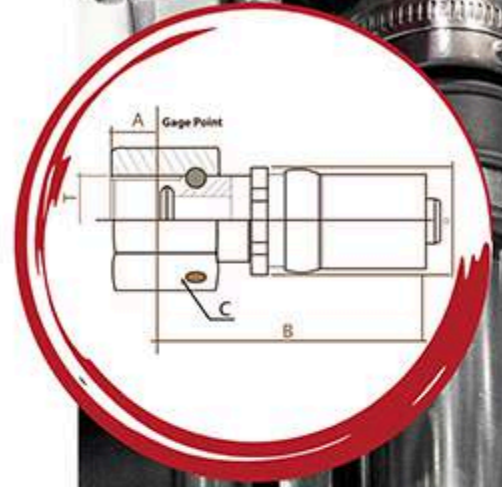


# Titeflex R160 (240 SERIES) Dualseal Fittings

## METRIC-MILLIMETERS

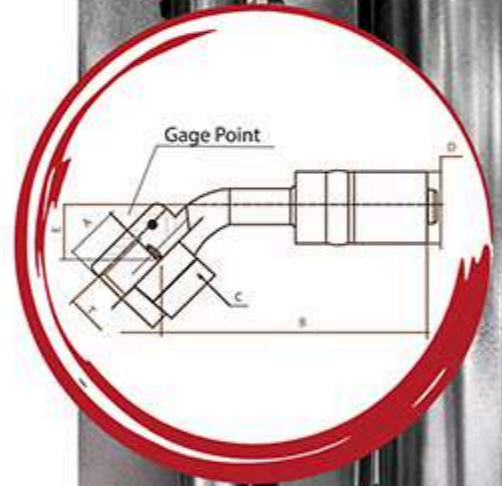
### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43004-72	7/16-24	5.5	32.76	14.3	17.5	NA	34.0
6	Y43006-72	9/16-20	6.0	36.32	17.5	20.3	NA	54.0
8	Y43008-72	13/32-20	6.3	37.08	22.2	24.6	NA	59.0
10	Y43010-72	27/32-18	7.9	37.84	25.4	27.9	NA	104.0
12	Y43012-72	1-16	8.9	44.70	28.1	35.1	NA	132.0
16	Y43016-72	1-1/4-14	9.7	54.36	38.1	42.2	NA	240.0



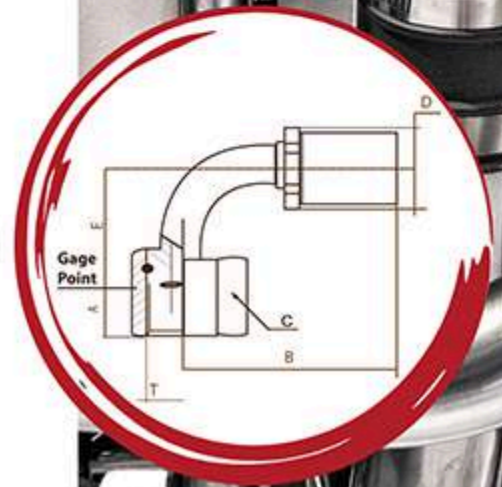
### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43104-72	7/16-24	5.5	48.3	14.3	17.5	12.2	35.0
6	Y43106-72	9/16-20	6.0	56.6	17.5	20.3	14.5	54.0
8	Y43108-72	13/32-20	6.3	58.4	22.2	24.6	16.4	63.5
10	Y43110-72	27/32-18	7.9	62.5	25.4	27.9	18.7	86.2
12	Y43112-72	1-16	8.9	73.4	28.1	35.1	20.0	154.2
16	Y43116-72	1-1/4-14	9.7	86.9	38.1	42.2	23.3	303.9



### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

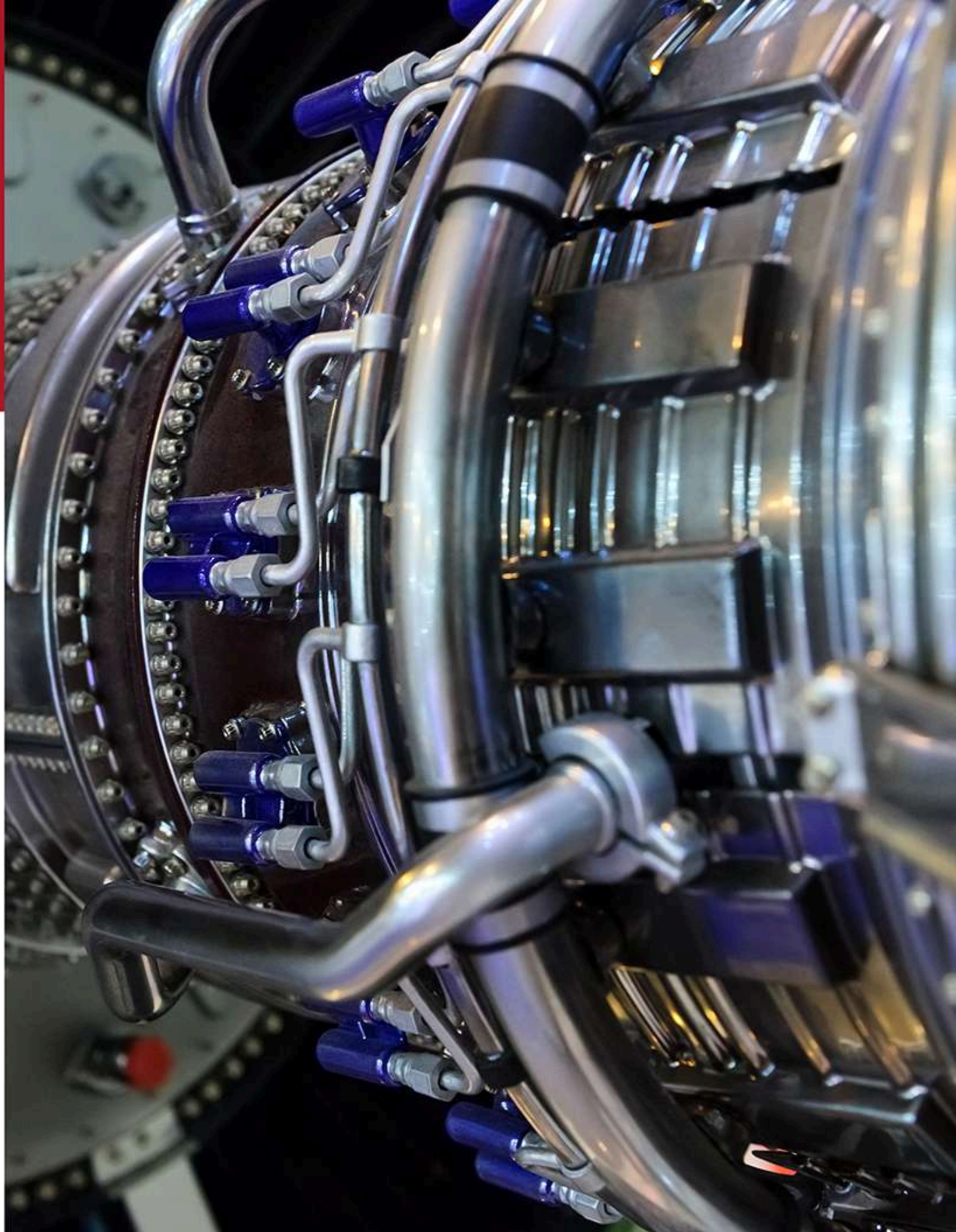
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43204-72	7/16-24	5.5	42.9	14.3	17.5	21.0	37.0
6	Y43206-72	9/16-20	6.0	53.3	17.5	20.3	27.0	57.0
8	Y43208-72	13/32-20	6.3	49.0	22.2	24.6	30.7	68.0
10	Y43210-72	27/32-18	7.9	52.6	25.4	27.9	35.9	90.7
12	Y43212-72	1-16	8.9	64.3	28.1	35.1	39.6	163.3
16	Y43216-72	1-1/4-14	9.7	78.0	38.1	42.2	48.0	308.4













# Titeflex S145/S245 Series

**SERIES:** S145/S245

**SPECIFICATION:** SAE AS1424

**BRAID:** CRES

**INNERCORE:** Metallic Convoluted

**TEMPERATURE RANGE (SS INNER CORE):**

-268°C + 455°C (-450°F + 850°F)

**TEMPERATURE RANGE (INCONEL INNER CORE):**

-268°C + 648°C (-450°F + 1200°F)

**QUALIFICATIONS:** SAE AS1424

The premier and proven all-metallic aerospace hose, qualified to AS1424. S145/S245 performs in extreme hot and cold, beyond the range of all thermoplastic hoses. It is used extensively on Space Vehicle and Launch Vehicle applications as well as hot sections of turbine engines where performance and reliability are critical. The hose consists of a convoluted innercore formed of CRES or Inconel® tubing, reinforced with a layer of CRES 304 wire braid. Operating pressures range from 2000 PSI (138 Bar) in small diameters to 800 PSI (55 Bar) in large diameters. S145/S245 hose operates at temperatures up to 1200°F without the need for firesleeve. Standard fittings are available in CRES or Inconel®. Hybrid assemblies combining flex hose with multibend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tubing. Aero-Hose, Corp. can mold a proprietary silicone on S145/S245 hose assemblies, encapsulating braid and innercore, for service in severe vibration applications. Where greater flexibility and tighter bend radius is required, in a less dynamic environment, Aero-Hose, Corp. offers S245 hose. S245 is available in the same alloys as S145.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	BEND RADIUS (MIN)/2/. /3/	BEND RADIUS (MIN)/2/. /4/
	psi	in	in	lb/in	psi	psi	in	in
4	2,000	0.23	0.56	0.016	3,000	8,000	2	4
5	1,800	0.28	0.63	0.018	2,700	7,200	2.5	5
6	1,600	0.34	0.7	0.02	2,400	6,400	3	6
8	1,400	0.45	0.86	0.028	2,100	5,600	4	8
10	1,200	0.57	1	0.038	1,800	4,800	4.5	9
12	1,050	0.7	1.15	0.042	1,575	4,200	5	10
16	800	0.95	1.45	0.058	1,200	3,200	6	12

### NOTES

/1/ Over minimum 12 inch length

/2/Measured from centerline

/3/ Static

/4/ Flexing

Inconel code: N145





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	BEND RADIUS (MIN)/2/, /3/	BEND RADIUS (MIN)/2/, /4/
	bar	mm	mm	g/m	bar	bar	mm	mm
4	140	5.8	14	286	200	550	51	102
5	124	7.11	16	321	186	496	64	127
6	110	8.6	18	357	160	440	76	152
8	96	11	22	500	140	380	102	203
10	82	14	25	679	120	330	114	229
12	72	18	29	750	109	290	127	254
16	55	24	37	1 036	82	220	152	305

### NOTES

/1/ Over minimum 305mm length

/2/Measured from centerline

/3/ Static

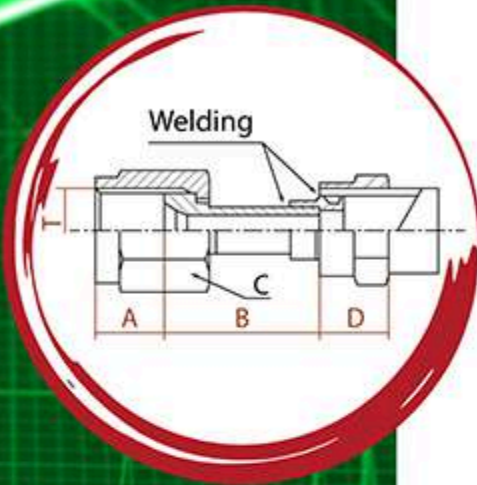
/4/ Flexing

# Titeflex S145/S245 SERIES Flared (JIC) Fittings

## ENGLISH-INCHES

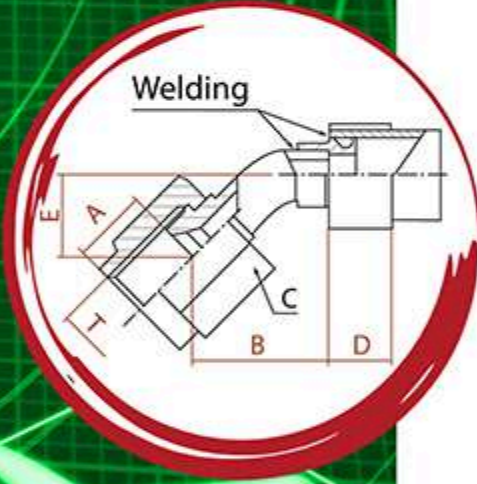
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y60004-51	7/16-20	0.372	1.340	0.562	0.900	NA	0.040
5	Y60005-51	1/2-20	0.375	1.400	0.625	1.100	NA	0.060
6	Y60006-51	9/16-18	0.375	1.480	0.688	1.200	NA	0.065
8	Y60008-51	3/4-16	0.438	1.580	0.875	1.300	NA	0.110
10	Y60010-51	7/8-14	0.515	1.710	1.000	1.500	NA	0.144
12	Y60012-51	1-1/16-12	0.562	1.830	1.250	1.740	NA	0.255
16	Y60016-51	1-5/16-12	0.620	2.020	1.500	2.300	NA	0.394



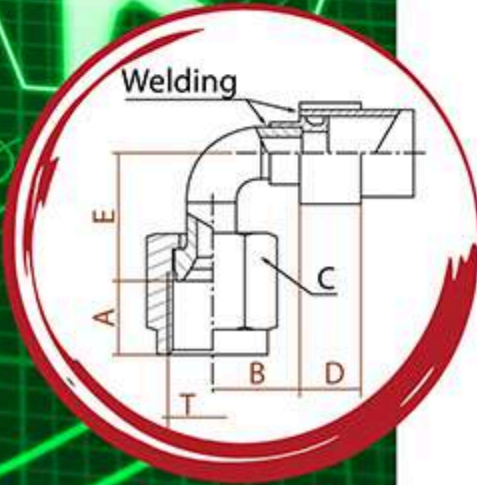
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y60104-51	7/16-20	0.372	1.340	0.562	0.900	0.347	0.050
5	Y60105-51	1/2-20	0.375	1.410	0.625	1.100	0.414	0.065
6	Y60106-51	9/16-18	0.375	1.500	0.688	1.200	0.471	0.075
8	Y60108-51	3/4-16	0.438	1.710	0.875	1.300	0.572	0.120
10	Y60110-51	7/8-14	0.515	1.930	1.000	1.500	0.643	0.180
12	Y60112-51	1-1/16-12	0.562	2.250	1.250	1.740	0.680	0.300
16	Y60116-51	1-5/16-12	0.620	2.840	1.500	2.300	0.790	0.500



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 A & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y60204-51	7/16-20	0.372	1.130	0.562	0.900	0.642	0.050
5	Y60205-51	1/2-20	0.375	1.180	0.625	1.100	0.773	0.065
6	Y60206-51	9/16-18	0.375	1.240	0.688	1.200	0.890	0.075
8	Y60208-51	3/4-16	0.438	1.420	0.875	1.300	1.107	0.130
10	Y60210-51	7/8-14	0.515	1.640	1.000	1.500	1.281	0.190
12	Y60212-51	1-1/16-12	0.562	1.920	1.250	1.740	1.405	0.300
16	Y60216-51	1-5/16-12	0.620	2.620	1.500	2.300	1.708	0.569



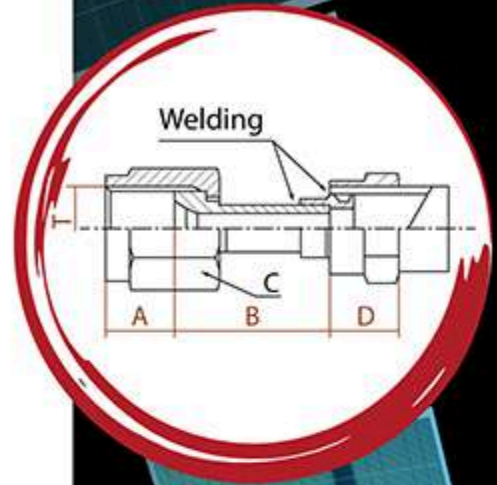


# Titeflex S145/S245 SERIES Flared (JIC) Fittings

## METRIC-MILLIMETERS

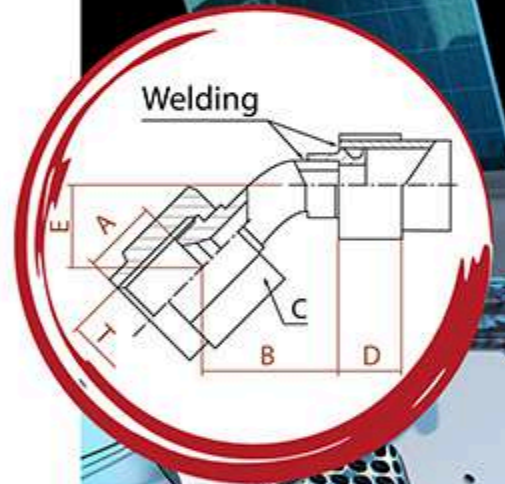
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y60004-51	7/16-20	9.4	34.0	14.3	22.9	NA	18.0
5	Y60005-51	1/2-20	9.5	35.6	15.9	27.9	NA	27.0
6	Y60006-51	9/16-18	9.5	37.6	17.5	30.5	NA	29.5
8	Y60008-51	3/4-16	11.1	40.1	22.2	33.0	NA	50.0
10	Y60010-51	7/8-14	13.1	43.4	25.4	38.1	NA	65.5
12	Y60012-51	1-1/16-12	14.3	46.5	31.8	44.2	NA	115.5
16	Y60016-51	1-5/16-12	15.7	51.3	38.1	58.4	NA	178.5



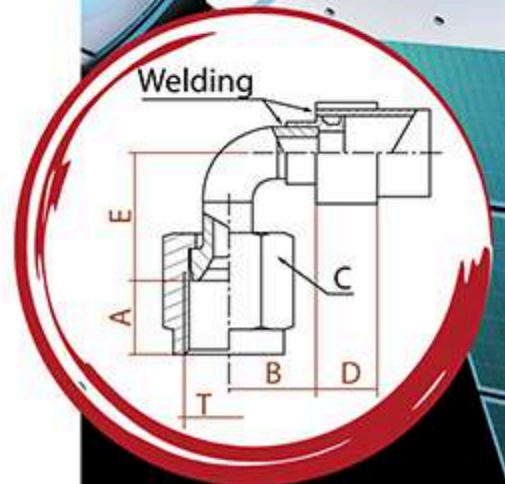
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y60104-51	7/16-20	9.4	34.0	14.3	22.9	8.8	22.5
5	Y60105-51	1/2-20	9.5	35.8	15.9	27.9	10.5	29.5
6	Y60106-51	9/16-18	9.5	38.1	17.5	30.5	12.0	34.0
8	Y60108-51	3/4-16	11.1	43.4	22.2	33.0	14.5	54.5
10	Y60110-51	7/8-14	13.1	49.0	25.4	38.1	16.3	81.5
12	Y60112-51	1-1/16-12	14.3	57.2	31.8	44.2	17.3	136.0
16	Y60116-51	1-5/16-12	15.7	72.1	38.1	58.4	20.1	227.0



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y60204-51	7/16-20	9.4	28.7	14.3	22.9	16.3	22.5
5	Y60205-51	1/2-20	9.5	30.0	15.9	27.9	19.6	29.5
6	Y60206-51	9/16-18	9.5	31.5	17.5	30.5	22.6	34.0
8	Y60208-51	3/4-16	11.1	36.1	22.2	33.0	28.1	59.0
10	Y60210-51	7/8-14	13.1	41.7	25.4	38.1	32.5	86.0
12	Y60212-51	1-1/16-12	14.3	48.8	31.8	44.2	35.7	136.0
16	Y60216-51	1-5/16-12	15.7	66.5	38.1	58.4	43.4	258.0

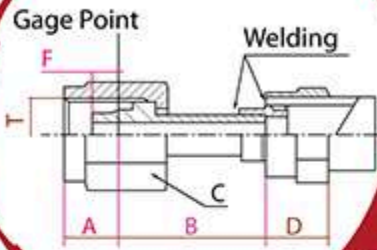


# Titeflex S145/S245 SERIES Flareless (NAS) Fittings

## ENGLISH-INCHES

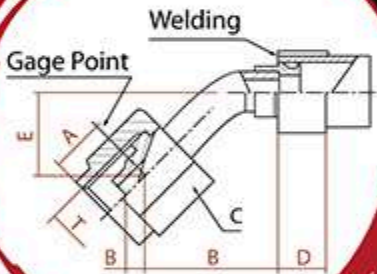
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y60404-51	7/16-20	0.320	1.340	0.562	0.900	NA	0.155	0.1
5	Y60405-51	1/2-20	0.310	1.400	0.625	1.100	NA	0.157	0.1
6	Y60406-51	9/16-18	0.327	1.480	0.688	1.200	NA	0.164	0.1
8	Y60408-51	3/4-16	0.368	1.580	0.875	1.300	NA	0.189	0.1
10	Y60410-51	7/8-14	0.396	1.710	1.000	1.500	NA	0.201	0.2
12	Y60412-51	1-1/16-12	0.421	1.830	1.250	1.740	NA	0.228	0.4
16	Y60416-51	1-5/16-12	0.425	2.020	1.500	2.30	NA	0.297	0.5



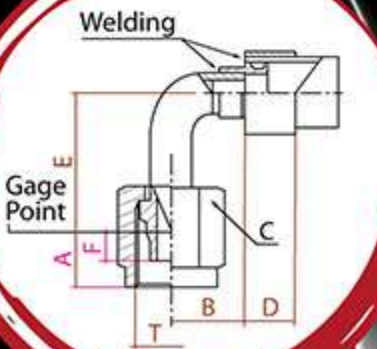
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y60504-51	7/16-20	0.320	1.62	0.562	0.900	0.530	0.110	0.1
5	Y60505-51	1/2-20	0.310	1.750	0.625	1.100	0.554	0.111	0.1
6	Y60506-51	9/16-18	0.327	1.880	0.688	1.200	0.580	0.116	0.1
8	Y60508-51	3/4-16	0.368	1.120	0.875	1.300	0.710	0.134	0.1
10	Y60510-51	7/8-14	0.396	2.380	1.000	1.500	0.912	0.142	0.2
12	Y60512-51	1-1/16-12	0.421	2.690	1.250	1.740	0.984	0.161	0.4
16	Y60516-51	1-5/16-12	0.425	3.190	1.500	2.30	1.025	0.210	0.6



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y60604-51	7/16-20	0.320	1.180	0.562	0.900	0.860	0.155	0.1
5	Y60605-51	1/2-20	0.310	1.240	0.625	1.100	0.873	0.157	0.1
6	Y60606-51	9/16-18	0.327	1.310	0.688	1.200	1.010	0.164	0.1
8	Y60608-51	3/4-16	0.368	1.500	0.875	1.300	1.265	0.189	0.1
10	Y60610-51	7/8-14	0.396	1.750	1.000	1.500	1.671	0.201	0.2
12	Y60612-51	1-1/16-12	0.421	2.060	1.250	1.740	1.840	0.228	0.4
16	Y60616-51	1-5/16-12	0.425	2.500	1.500	2.30	2.030	0.297	0.6



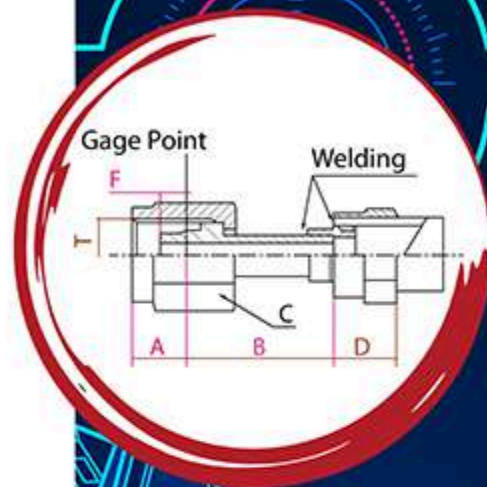


# Titeflex S145/S245 SERIES Flareless (NAS) Fittings

## METRIC-MILLIMETERS

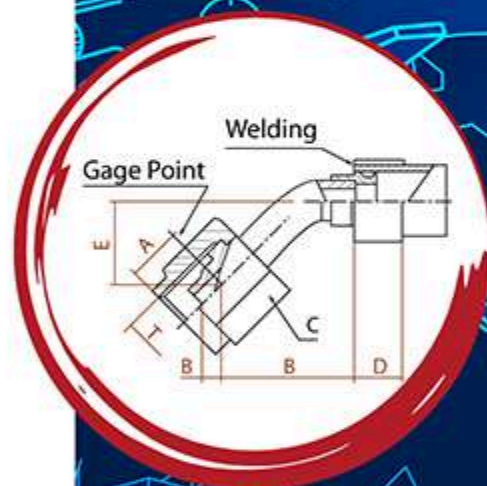
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y60404-51	7/16-20	8.1	31.8	14.3	22.9	NA	3.94	22.7
5	Y60405-51	1/2-20	7.9	35.1	15.9	27.9	NA	3.99	27.2
6	Y60406-51	9/16-18	8.3	35.1	17.5	30.5	NA	4.17	31.7
8	Y60408-51	3/4-16	9.3	39.6	22.2	33.0	NA	4.8	54.4
10	Y60410-51	7/8-14	10.1	44.5	25.4	38.1	NA	5.11	81.6
12	Y60412-51	1-1/16-12	10.7	49.3	31.8	44.2	NA	5.79	163.3
16	Y60416-51	1-5/16-12	10.8	53.8	38.1	58.4	NA	7.54	217.7



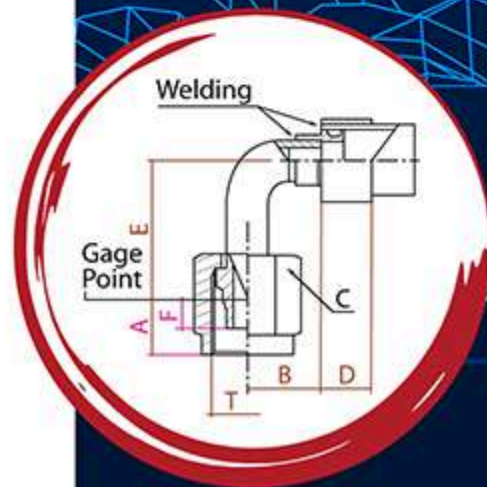
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y60504-51	7/16-20	8.1	41.1	14.3	22.9	13.5	2.79	22.7
5	Y60505-51	1/2-20	7.9	44.5	15.9	27.9	14.1	2.82	31.7
6	Y60506-51	9/16-18	8.3	47.8	17.5	30.5	14.7	2.95	36.3
8	Y60508-51	3/4-16	9.3	53.8	22.2	33.0	18.0	3.40	59.0
10	Y60510-51	7/8-14	10.1	60.5	25.4	38.1	23.2	3.61	90.7
12	Y60512-51	1-1/16-12	10.7	68.3	31.8	44.2	25.0	4.09	176.9
16	Y60516-51	1-5/16-12	10.8	81.0	38.1	58.4	26.0	5.33	258.5



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y60604-51	7/16-20	8.1	30.0	14.3	22.9	21.8	3.94	22.7
5	Y60605-51	1/2-20	7.9	31.5	15.9	27.9	22.2	3.99	31.7
6	Y60606-51	9/16-18	8.3	33.3	17.5	30.5	25.7	4.17	36.3
8	Y60608-51	3/4-16	9.3	38.1	22.2	33.0	32.1	4.80	63.5
10	Y60610-51	7/8-14	10.1	44.5	25.4	38.1	42.4	5.11	99.7
12	Y60612-51	1-1/16-12	10.7	52.3	31.8	44.2	46.7	5.79	186.0
16	Y60616-51	1-5/16-12	10.8	63.2	38.1	58.4	51.6	7.54	290.3













# Titeflex R162 (250 Series)

**SERIES:** 250  
**SPECIFICATION:** MIL-DTL-26633  
**BRAID:** CRES  
**INNERCORE:** PTFE Smoothbore – Non-Conductive  
**QUALIFICATIONS :** MIL-DTL-26633

R162 (250 Series) is a lightweight 3000 PSI (207 Bar) oxygen hose qualified to MILDTL-26633 The hose consists of an extruded smoothbore non-conductive PTFE innercore, reinforced with CRES 304 wire braid. It is based on the 240 Series but features a non-conductive PTFE innercore specifically for use in high pressure oxygen systems supporting space vehicle and military applications. PTFE provides excellent chemical resistance with an unlimited shelf life. In accordance with MIL-DTL-26633 the 250 Series operating temperature range is -65°F to +165°F (-54°C to +71°C). Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose Corp. specialty and provide improved vibration dampening, ease of installation, and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	psi	psi
4	3,000	0.212	0.36	0.703	0.009	3.25	6,000	16,000	12,000

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

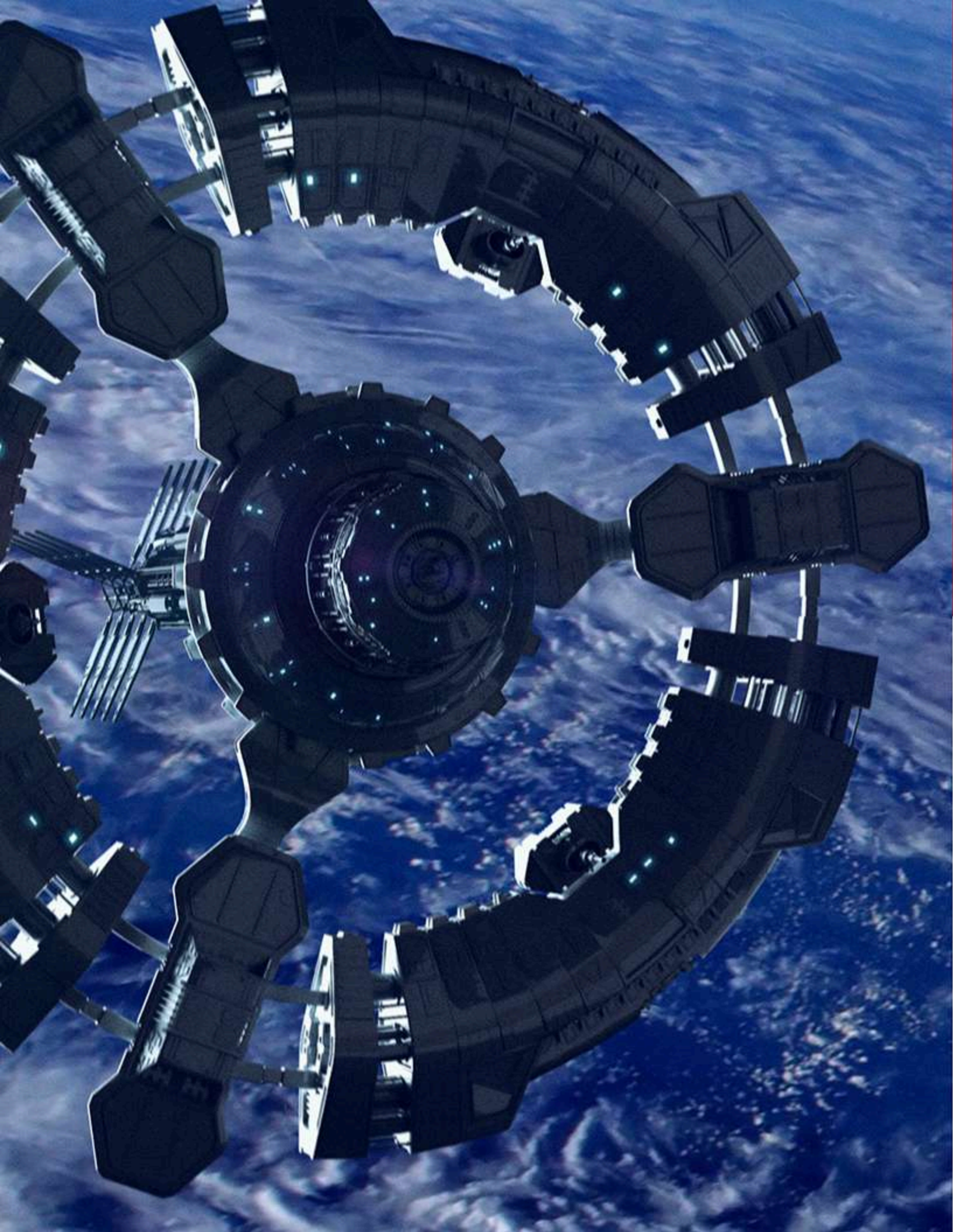
HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	bar	bar
4	207	5.4	9.1	17.9	161	150	414	1 103	827

### NOTES

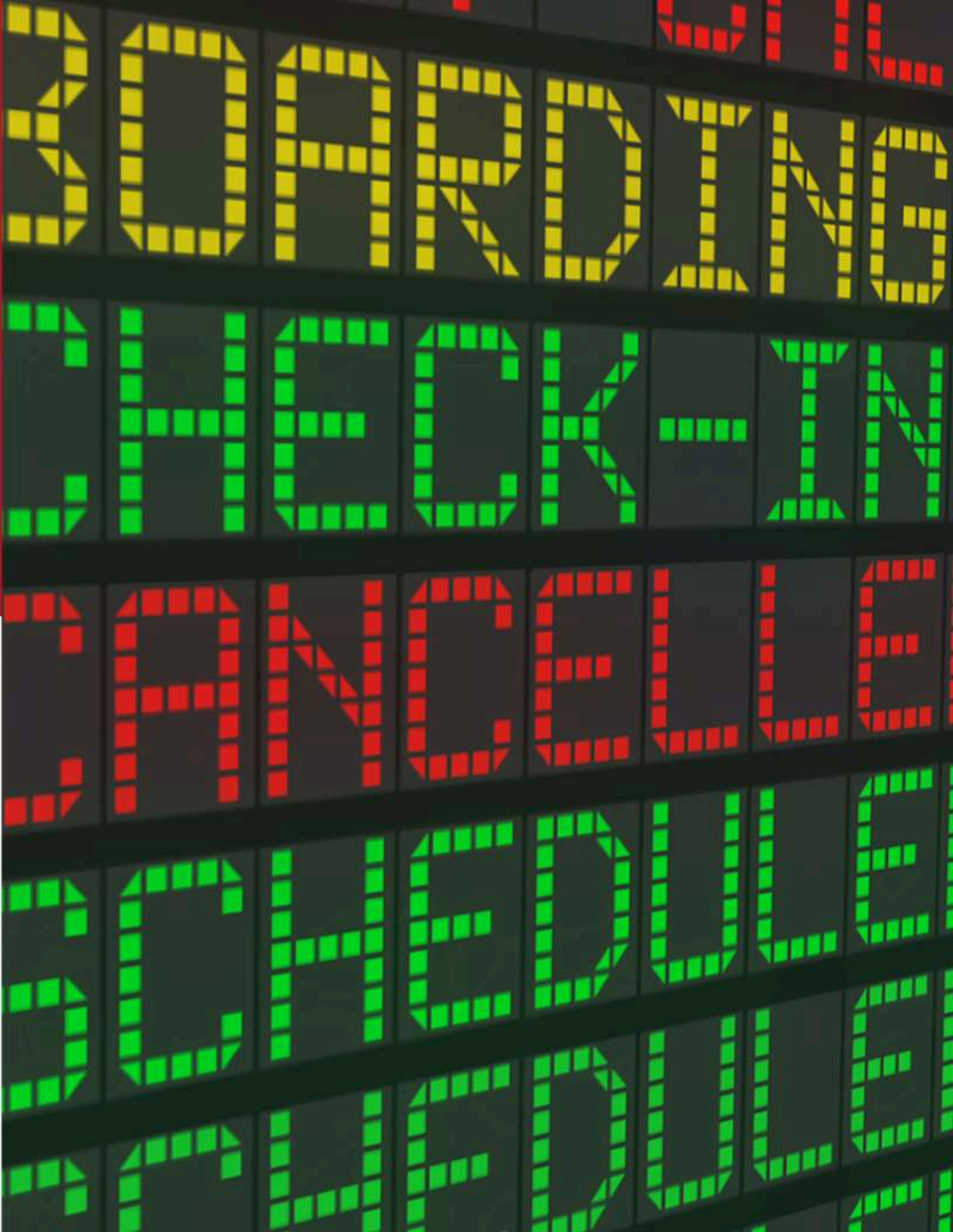
/1/ Over minimum 305mm length

/2/ Inside of bend











# Titeflex R154 (370 Series)

**SERIES:** 370  
**SPECIFICATION:** SAE AS614  
**BRAID:** CRES  
**INNERCORE:** PTFE Smoothbore  
**QUALIFICATIONS :** SAE AS614,  
 AS1055 Type IIa & IIb,  
 Class A & B, Integral and Slip-on Firesleeve

R154 (370 Series) is a heavy duty 4000psi (276 bar) aerospace hose assembly qualified to AS614. The hose consists of an extruded smoothbore PTFE innercore, reinforced with multiple layers of CRES 304 wire braid. The PTFE innercore is conductive and provides excellent chemical resistance through a temperature range of -65°F to +400°F (-54°C to +204°C) with unlimited shelf life. The rugged 370 Series is especially suited to applications with significant impulsing, and outputs from hydraulic or pneumatic pumps. Standard fittings are CRES, however titanium fittings are also available. Fire protection per AS1055 Class A & B can be either integral or slip-on AS1072 firesleeve. Chafe sleeves are available in a variety of integral or slip-on materials. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	psi	psi
4	4,000	0.212	0.45	0.495	0.022	3	8,000	16,000	12,000
6	4,000	0.298	0.555	0.62	0.037	5	8,000	16,000	12,000
8	4,000	0.391	0.72	0.82	0.045	5.75	8,000	16,000	12,000
10	4,000	0.485	0.85	0.95	0.07	6.5	8,000	16,000	12,000
12	4,000	0.602	1.03	1.1	0.105	7.75	8,000	16,000	12,000
16	4,000	0.852	1.21	1.42	0.17	9.625	8,000	16,000	12,000
20	4,000	1.101	1.64	1.68	0.198	12	8,000	16,000	12,000

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	bar	bar
4	276	5.4	11.4	12.6	393	76.2	552	1 103	827
6	276	7.6	14.1	15.7	661	127	552	1 103	827
8	276	9.9	18.3	20.8	804	146.1	552	1 103	827
10	276	12.3	21.6	24.1	1 250	165.1	552	1 103	827
12	276	15.3	26.2	27.9	1 875	196.9	552	1 103	827
16	276	21.6	30.7	36.1	3 036	244.5	552	1 103	827
20	276	28	41.7	42.7	3 530	305	552	1 103	827

### NOTES

/1/ Over minimum 305mm length

/2/ Inside of bend

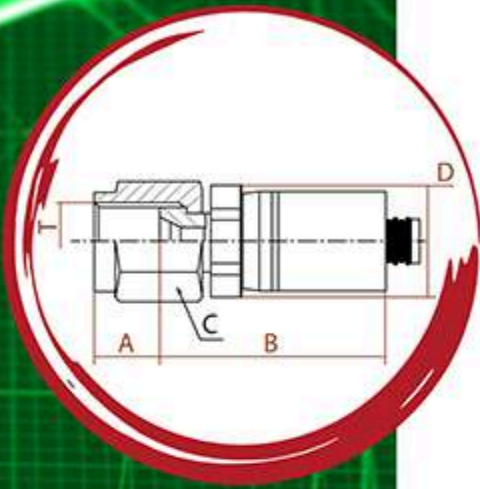


# Titeflex R154 (370 SERIES) Flared (JIC) Fittings

## ENGLISH-INCHES

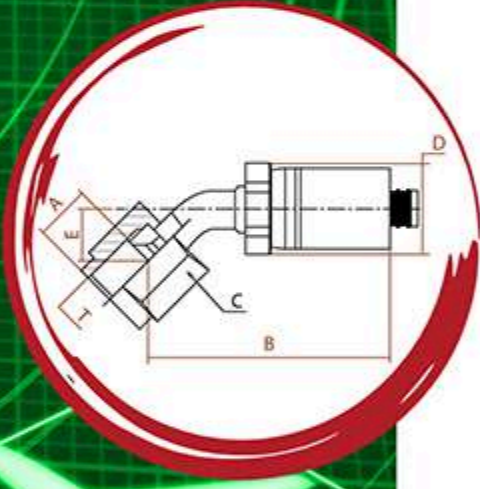
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS439

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40004-42	.4375-20	0.372	1.385	0.562	0.875	NA	0.1
6	Y40006-42	.5625-18	0.375	1.460	0.688	1.000	NA	0.1
8	Y40008-42	.7500-16	0.438	1.810	0.875	1.200	NA	0.2
10	Y40010-42	.8750-14	0.515	2.270	1.000	1.406	NA	0.3
12	Y40012-42	1.0625-12	0.562	2.320	1.250	1.687	NA	0.5
16	Y40016-42	1.3125-12	0.620	2.610	1.500	2.000	NA	0.7
20	Y40020-42	1.6250-12	0.620	3.150	1.812	2.125	NA	1.4



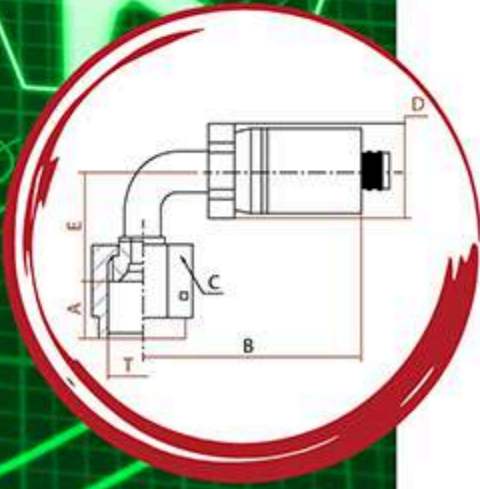
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40104-42	.4375-20	0.372	1.875	0.562	0.875	0.348	0.1
6	Y40106-42	.5625-18	0.375	2.055	0.688	1.000	0.471	0.1
8	Y40108-42	.7500-16	0.438	2.525	0.875	1.200	0.572	0.2
10	Y40110-42	.8750-14	0.515	3.200	1.000	1.406	0.643	0.3
12	Y40112-42	1.0625-12	0.562	3.450	1.250	1.687	0.680	0.5



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40204-42	.4375-20	0.372	1.640	0.562	0.875	0.642	0.1
6	Y40206-42	.5625-18	0.375	1.790	0.688	1.000	0.890	0.1
8	Y40208-42	.7500-16	0.438	2.220	0.875	1.200	1.107	0.2
10	Y40210-42	.8750-14	0.515	2.900	1.000	1.406	1.281	0.4
12	Y40212-42	1.0625-12	0.562	3.135	1.250	1.687	1.405	0.6



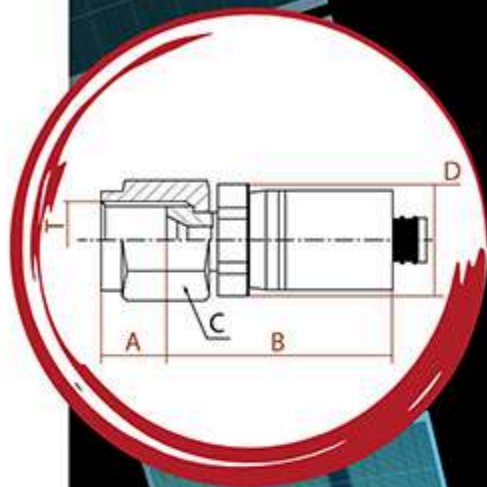


# Titeflex R154 (370 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

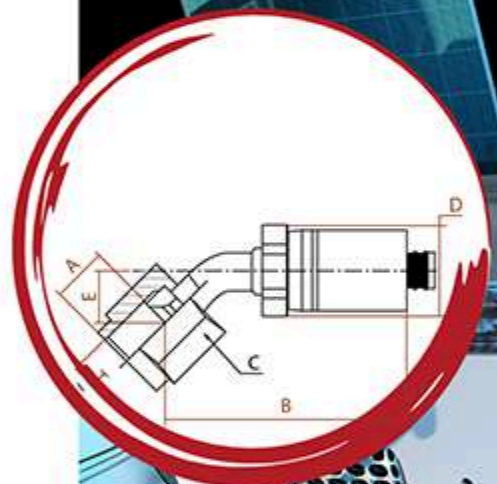
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40004-42	.4375-20	9.4	35.2	14.3	22.2	NA	31.5
6	Y40006-42	.5625-18	9.5	37.1	17.5	25.4	NA	54.0
8	Y40008-42	.7500-16	11.1	46.0	22.2	30.5	NA	93.5
10	Y40010-42	.8750-14	13.1	57.7	25.4	35.7	NA	147.0
12	Y40012-42	1.0625-12	14.3	58.9	31.8	42.8	NA	225.0
16	Y40016-42	1.3125-12	15.7	66.3	38.1	50.8	NA	336.0
20	Y40020-42	1.6250-12	15.7	80.0	46.0	54.0	NA	315.0



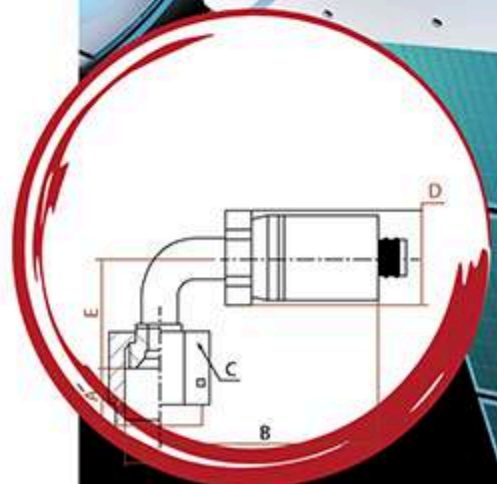
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40104-42	.4375-20	9.4	47.6	14.3	22.2	8.8	36.0
6	Y40106-42	.5625-18	9.5	52.2	17.5	25.4	12.0	61.0
8	Y40108-42	.7500-16	11.1	64.1	22.2	30.5	14.5	103.0
10	Y40110-42	.8750-14	13.1	81.3	25.4	35.7	16.3	164.0
12	Y40112-42	1.0625-12	14.3	87.6	31.8	42.8	17.3	246.0



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40204-42	.4375-20	9.4	41.7	14.3	22.2	16.3	36.0
6	Y40206-42	.5625-18	9.5	45.5	17.5	25.4	22.6	63.0
8	Y40208-42	.7500-16	11.1	56.4	22.2	30.5	28.1	107.0
10	Y40210-42	.8750-14	13.1	73.7	25.4	35.7	32.5	171.5
12	Y40212-42	1.0625-12	14.3	79.6	31.8	42.8	35.7	262.0



# Titeflex R154 (370 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LBS) CRES
4	Y40404-64	.4375-20	0.320	1.430	0.562	0.620	NA	0.155	0.076
6	Y40406-64	.5625-18	0.327	1.510	0.688	0.820	NA	0.164	0.117
8	Y40408-64	.7500-16	0.368	1.890	0.875	0.930	NA	0.189	0.180
10	Y40410-64	.8750-14	0.396	2.370	1.000	1.180	NA	0.201	0.335
12	Y40412-64	1.0625-12	0.421	2.435	1.250	1.500	NA	0.228	0.525
16	Y40416-64	1.3125-12	0.425	2.780	1.500	1.710	NA	0.297	0.802
20	Y40420-64	1.6250-12	0.452	3.315	1.812	2.200	NA	0.300	1.433

### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LBS) CRES
4	Y40504-64	.4375-20	0.320	2.060	0.562	0.620	0.418	0.110	0.080
6	Y40506-64	.5625-18	0.327	2.300	0.688	0.820	0.544	0.116	0.130
8	Y40508-64	.7500-16	0.368	2.715	0.875	0.930	0.601	0.134	0.229
10	Y40510-64	.8750-14	0.396	3.340	1.000	1.180	0.736	0.142	0.302
12	Y40512-64	1.0625-12	0.421	3.600	1.250	1.500	0.735	0.161	0.529

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LBS) CRES
4	Y40604-64	.4375-20	0.320	1.765	0.562	0.620	0.744	0.155	0.082
6	Y40606-64	.5625-18	0.327	2.005	0.688	0.820	0.995	0.164	0.136
8	Y40608-64	.7500-16	0.368	2.410	0.875	0.930	1.148	0.189	0.240
10	Y40610-64	.8750-14	0.396	3.010	1.000	1.180	1.411	0.201	0.392
12	Y40612-64	1.0625-12	0.421	3.325	1.250	1.500	1.485	0.228	0.622

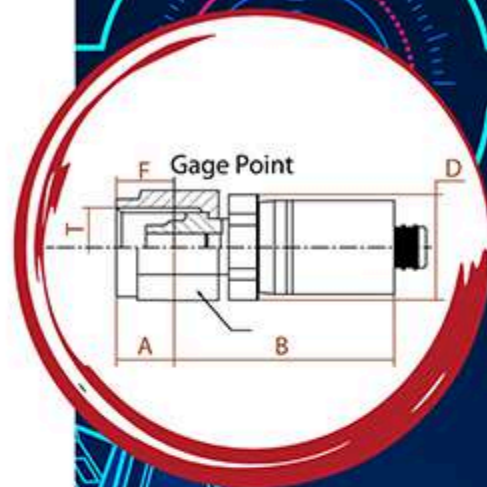


# Titeflex R154 (370 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

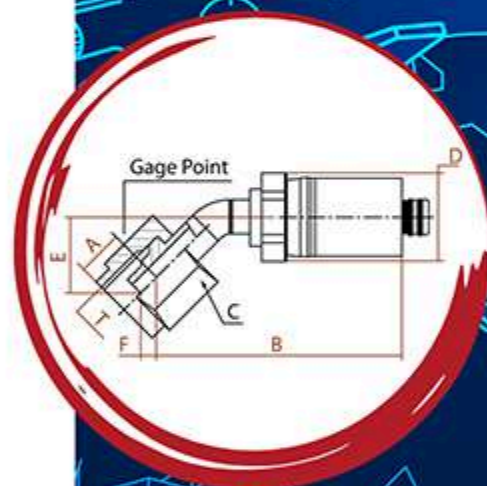
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40404-64	7/16-20	8.1	36.3	14.3	15.7	NA	3.94	34.5
6	Y40406-64	9/16-18	8.3	38.4	17.5	20.8	NA	4.17	53.0
8	Y40408-64	3/4-16	9.3	48.0	22.2	23.6	NA	4.80	81.5
10	Y40410-64	7/8-14	10.1	60.2	25.4	30.0	NA	5.11	152.0
12	Y40412-64	1-1/16-12	10.7	61.8	31.8	38.1	NA	5.79	238.0
16	Y40416-64	1-5/16-12	10.8	70.6	38.1	43.4	NA	7.54	364.0
20	Y40420-64	1-5/8-12	11.5	84.2	46.0	55.9	NA	7.62	650.0



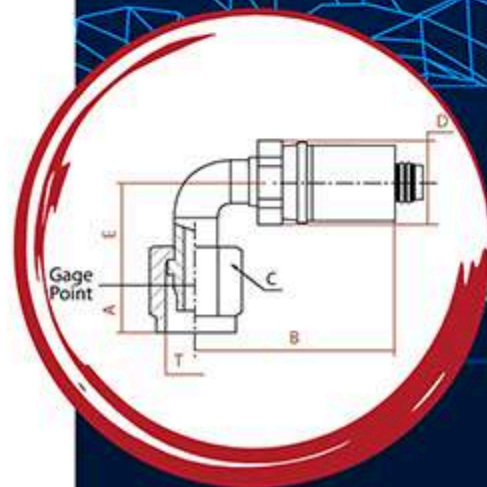
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40504-64	7/16-20	8.1	52.3	14.3	15.7	10.6	2.79	36.5
6	Y40506-64	9/16-18	8.3	58.4	17.5	20.8	13.8	2.95	59.0
8	Y40508-64	3/4-16	9.3	69.0	22.2	23.6	15.3	3.40	104.0
10	Y40510-64	7/8-14	10.1	84.8	25.4	30.0	18.7	3.61	170.0
12	Y40512-64	1-1/16-12	10.7	91.4	31.8	38.1	18.7	4.09	270.0



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

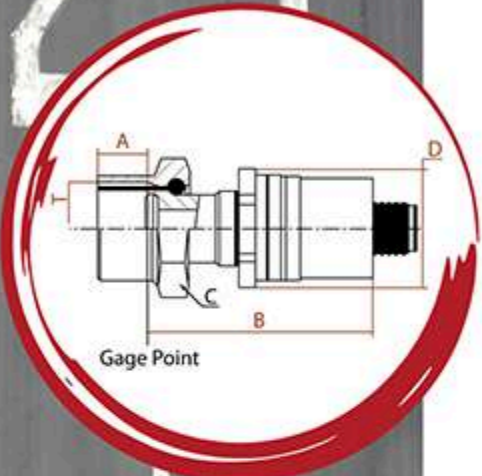
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40604-64	7/16-20	8.1	44.8	14.3	15.7	18.9	3.94	37.0
6	Y40606-64	9/16-18	8.3	50.9	17.5	20.8	25.3	4.17	61.5
8	Y40608-64	3/4-16	9.3	61.2	22.2	23.6	29.2	4.80	109.0
10	Y40610-64	7/8-14	10.1	76.5	25.4	30.0	35.8	5.11	178.0
12	Y40612-64	1-1/16-12	10.7	84.5	31.8	38.1	37.7	5.79	282.0



# Titeflex R154 (370 SERIES) Dualseal Fittings

## ENGLISH-INCHES

### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207



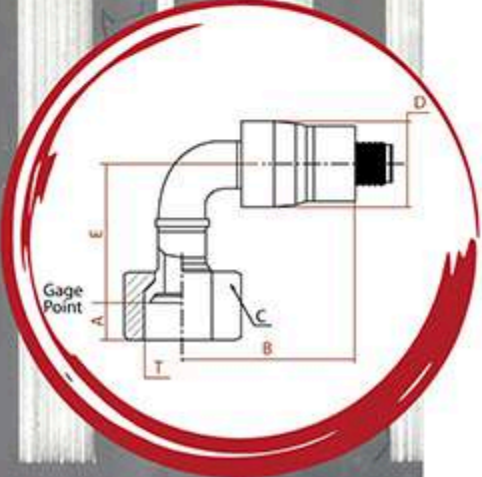
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43004-42	7/16-20	0.215	1.400	0.562	0.875	NA	0.070
6	Y43006-42	9/16-18	0.235	1.400	0.688	1.000	NA	0.110
8	Y43008-42	3/4-16	0.248	1.670	0.875	1.200	NA	0.170
10	Y43010-42	7/8-14	0.312	2.085	1.000	1.406	NA	0.190
12	Y43012-42	1-1/16-12	0.352	2.160	1.125	1.687	NA	0.320
16	Y43016-42	1-5/16-12	0.380	2.470	1.500	2.000	NA	0.570
20	Y43020-42	1-5/8-12	0.395	2.995	1.875	2.125	NA	1.250

### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207



HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43104-42	7/16-24	0.215	2.200	0.562	0.875	0.480	0.070
6	Y43106-42	9/16-20	0.235	2.325	0.688	1.000	0.570	0.190
8	Y43108-42	23/32-20	0.248	2.765	0.875	1.200	0.645	0.200
10	Y43110-42	27/32-18	0.312	3.230	1.000	1.406	0.736	0.220
12	Y43112-42	1-16	0.352	3.475	1.125	1.687	0.788	0.410

### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207



HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43204-42	7/16-24	0.215	2.015	0.562	0.875	0.825	0.070
6	Y43206-42	9/16-20	0.235	1.970	0.688	1.000	1.031	0.130
8	Y43208-42	23/32-20	0.248	2.405	0.875	1.200	1.210	0.210
10	Y43210-42	27/32-18	0.312	2.855	1.000	1.406	1.414	0.230
12	Y43212-42	1-16	0.352	3.120	1.125	1.687	1.560	0.420

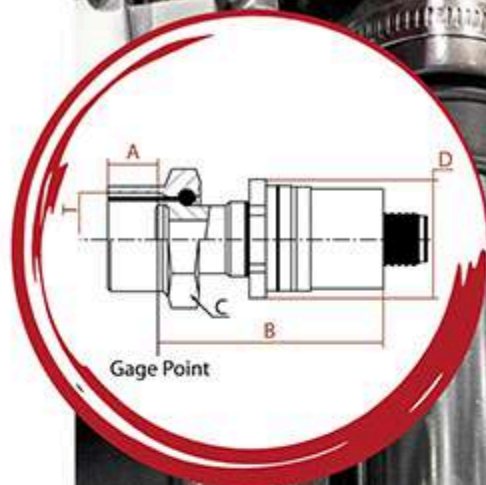


# Titeflex R154 (370 SERIES) Dualseal Fittings

## METRIC-MILLIMETERS

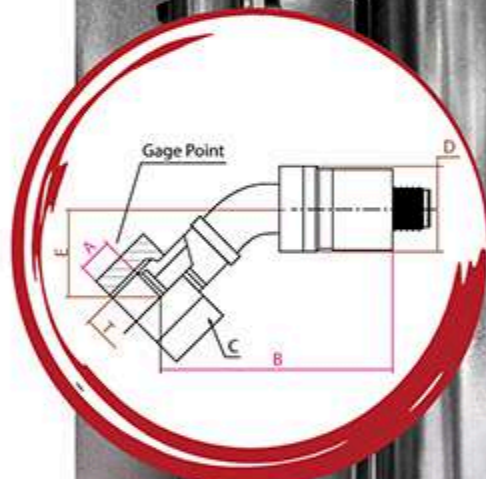
### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43004-42	7/16-24	5.5	35.6	14.3	22.2	NA	32.0
6	Y43006-42	9/16-20	6.0	35.6	17.5	25.4	NA	50.0
8	Y43008-42	23/32-20	6.3	42.4	22.2	30.5	NA	77.0
10	Y43010-42	27/32-18	7.9	53.0	25.4	35.7	NA	86.0
12	Y43012-42	1-16	8.9	54.9	28.6	42.8	NA	145.0
16	Y43016-42	1-1/4-14	9.7	62.7	38.1	50.8	NA	259.0
20	Y43020-42	1-37/64-14	10.0	76.1	47.6	54.0	NA	567.0



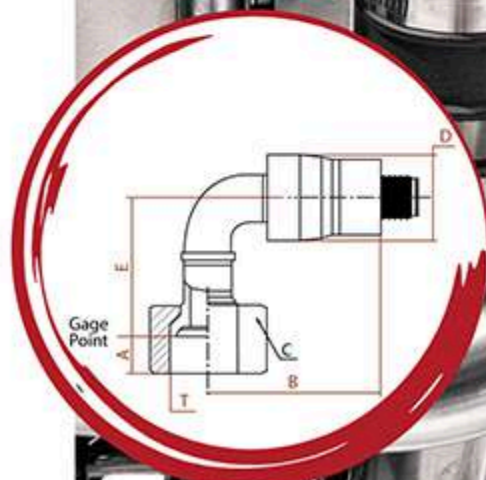
### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43104-42	7/16-24	5.5	55.9	14.3	22.2	12.2	32.0
6	Y43106-42	9/16-20	6.0	59.1	17.5	25.4	14.5	86.0
8	Y43108-42	23/32-20	6.3	70.2	22.2	30.5	16.4	91.0
10	Y43110-42	27/32-18	7.9	82.0	25.4	35.7	18.7	100.0
12	Y43112-42	1-16	8.9	88.3	28.6	42.8	20.0	186.0



### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43204-42	7/16-24	5.5	51.2	14.3	22.2	21.0	32.0
6	Y43206-42	9/16-20	6.0	50.0	17.5	25.4	26.2	59.0
8	Y43208-42	23/32-20	6.3	61.1	22.2	30.5	30.7	95.0
10	Y43210-42	27/32-18	7.9	72.5	25.4	35.7	35.9	104.0
12	Y43212-42	1-16	8.9	79.2	28.6	42.8	39.6	191.0







480  
Series



480  
Series





# Titeflex R367 (480 SERIES)

**SERIES:** 480  
**SPECIFICATION:** SAE AS620  
**BRAID:** CRES  
**INNERCORE:** PTFE Convolutated  
**QUALIFICATIONS :** SAE AS620,  
 TSO C53a Type A,  
 TSO C53a Type C, TSO C75 Type IIA-S/P,  
 TSO C75 Type IIA-S/P-F,  
 AS1055 Type Ila & Iib, Class A & B,  
 Integral and Slip-on Firesleeve  
 (RM and TF0172)

R367 (480 Series) is a medium pressure aerospace hose assembly qualified to AS620. It consists of a helically convoluted (tape wrap) PTFE innercore, reinforced with a CRES 304 wire braid. The convoluted innercore enables the 480 Series to bend to a tighter radius, with less force, than smoothbore PTFE hose of similar diameter. Operating pressures range from 1000 PSI (69 Bar) in small diameters, to 250 PSI (17 Bar) in the largest diameter. PTFE provides excellent chemical resistance over a temperature range of -65°F to +400°F (-54°C to +204°C) with an unlimited shelf life. Fire protection per AS1055 Class A & B can be either integral or slip-on AS1072 firesleeve. Qualified standard fittings are CRES. Chafe sleeves are available in a variety of integral or slip-on materials. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	in HG	psi	psi
6	1,000	0.355	0.523	0.587	0.01	2.25	2,000	28	4,000	2,800
8	1,000	0.51	0.723	0.787	0.018	2.88	2,000	28	4,000	2,800
10	1,000	0.6	0.85	0.882	0.02	3	1,800	28	3,600	2,500
12	1,000	0.765	1.06	1.092	0.027	3.75	1,800	28	3,600	2,500
16	1,000	0.98	1.266	1.33	0.035	5	1,800	23	3,600	2,500
20	1,000	1.22	1.7	1.558	0.04	6.25	1,800	18	3,600	2,500
24	750	1.48	1.758	1.822	0.05	7.5	1,500	12	3,000	2,100
*32	250	1.985	2.285	2.845	0.09	10	500	5	1,000	700

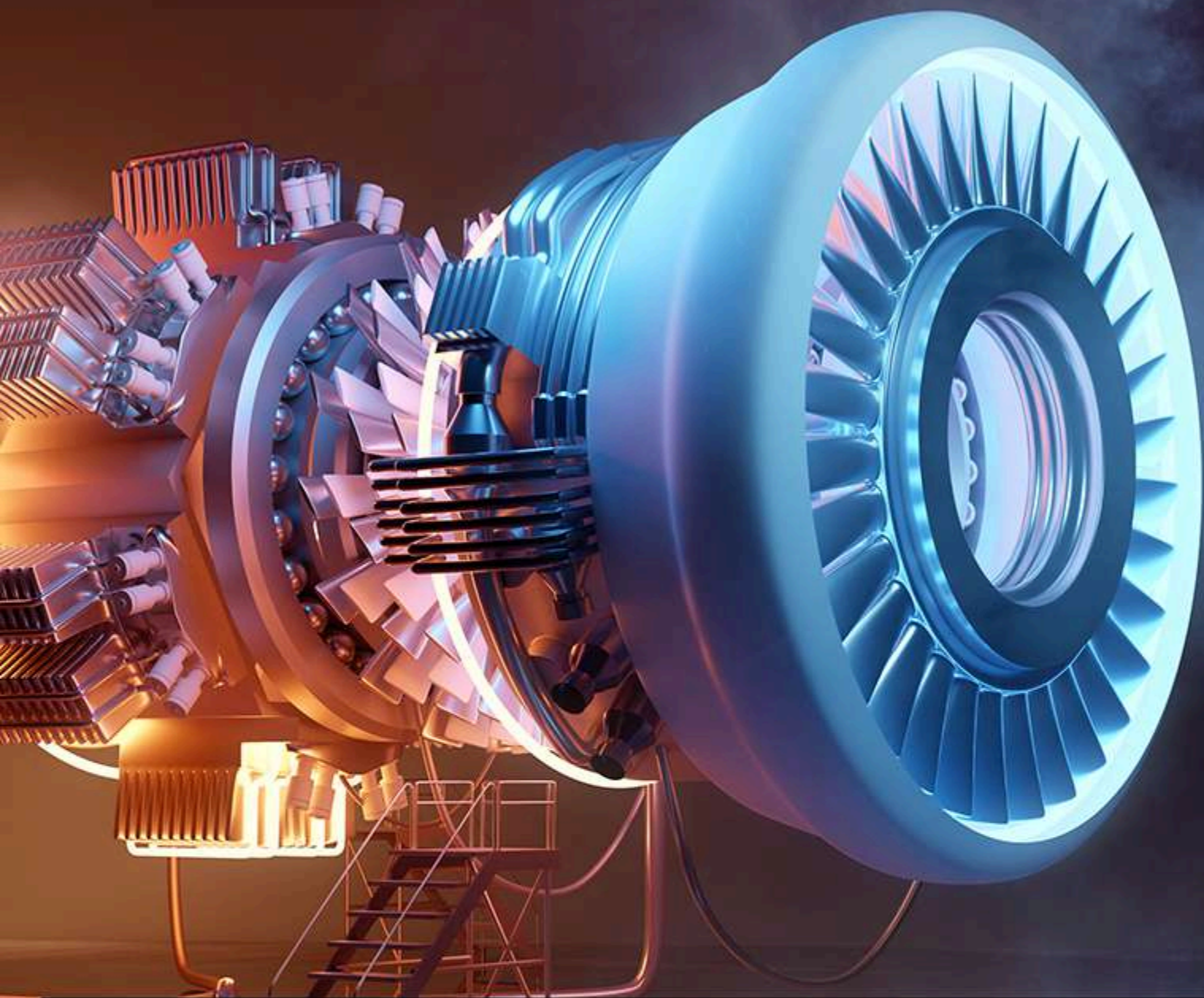
### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend

\*Size -32 only available in 410 Series





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	mm Hg	bar	bar
6	69	6	13.3	14.9	179	57.2	138	711	276	193
8	69	13	18.4	20	321	73.2	138	711	276	193
10	69	15.2	21.6	22	357	76.2	124	711	248	172
12	69	19.4	26.9	27	482	95.3	124	711	248	172
16	69	24.9	32.2	33.8	625	127	124	584	248	172
20	69	31	43.2	43	714	158.8	124	457	248	172
24	52	37.6	44.7	46.3	893	190.5	103	305	207	145
*32	17	50.4	58	72.3	1 607	254	34	127	69	48

### NOTES

/1/ Over minimum 305mm length

/2/ Inside of bend

\*Size -32 only available in 410 Series



# Titeflex R367 (480 SERIES) Flared (JIC) Fittings

## ENGLISH-INCHES

STRAIGHT FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
6	Y40006-83	9/16-18	0.375	1.280	0.688	0.680	NA	0.1
8	Y40008-83	3/4-16	0.438	1.440	0.875	0.860	NA	0.2
10	Y40010-83	7/8-14	0.515	1.580	1.000	0.950	NA	0.3
12	Y40012-83	1-1/16-12	0.562	1.740	1.250	1.280	NA	0.3
16	Y40016-83	1-5/8-12	0.620	1.790	1.500	1.470	NA	0.5
20	Y40020-83	1-5/8-12	0.620	2.290	1.812	1.700	NA	0.9
24	Y40024-83	1-7/8-12	0.765	2.380	2.125	2.000	NA	1.3
*32	Y40032-25	2-1/2-12	0.937	2.970	2.750	2.560	NA	2.0

45° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
6	Y40106-83	9/16-18	0.375	1.860	0.688	0.680	0.471	0.1
8	Y40108-83	3/4-16	0.438	2.180	0.875	0.860	0.572	0.2
10	Y40110-83	7/8-14	0.515	2.420	1.000	0.950	0.643	0.2
12	Y40112-83	1-1/16-12	0.562	2.770	1.250	1.280	0.68	0.4
16	Y40116-83	1-5/8-12	0.620	3.050	1.500	1.470	0.790	0.6
20	Y40120-83	1-5/8-12	0.620	3.680	1.812	1.700	1.929	1.0
24	Y40124-83	1-7/8-12	0.765	3.950	2.125	2.000	1.051	1.3
*32	Y40132-25	2-1/2-12	0.937	4.845	2.750	2.560	1.314	2.3

90° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
6	Y40206-83	9/16-18	0.375	1.560	0.688	0.680	0.89	0.1
8	Y40208-83	3/4-16	0.438	1.850	0.875	0.860	1.107	0.2
10	Y40210-83	7/8-14	0.515	2.190	1.000	0.950	1.281	0.3
12	Y40212-83	1-1/16-12	0.562	2.670	1.250	1.280	1.405	0.4
16	Y40216-83	1-5/8-12	0.620	2.870	1.500	1.470	1.708	0.7
20	Y40220-83	1-5/8-12	0.620	3.390	1.812	1.700	2.050	1.0
24	Y40224-83	1-7/8-12	0.765	3.650	2.125	2.000	2.370	1.4
*32	Y40232-25	2-1/2-12	0.937	4.690	2.750	2.560	3.033	2.4

\*Size -32 only available in 410 Series

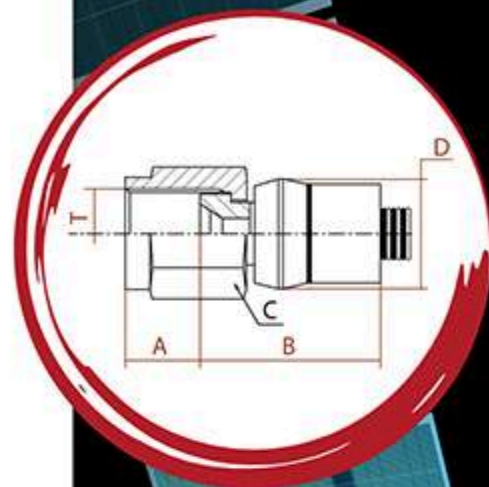


# Titeflex R367 (480 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

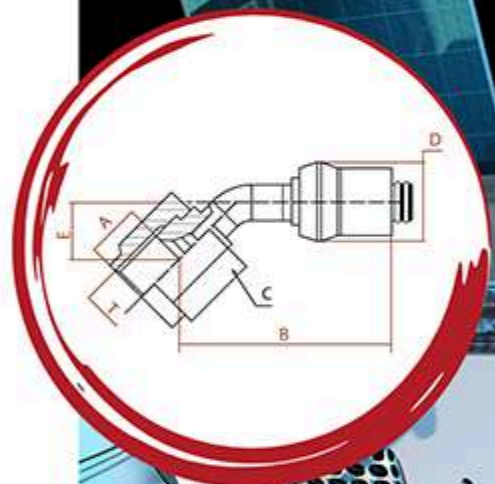
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
6	Y40006-83	9/16-18	9.5	32.5	17.5	17.3	NA	45.0
8	Y40008-83	3/4-16	11.1	36.6	22.2	21.8	NA	73.0
10	Y40010-83	7/8-14	13.1	40.1	25.4	24.1	NA	114.0
12	Y40012-83	1-1/16-12	14.3	44.2	31.8	32.5	NA	155.0
16	Y40016-83	1-5/16-12	15.7	45.5	38.1	37.3	NA	222.0
20	Y40020-83	1-5/8-12	15.7	58.2	46.0	43.2	NA	407.0
24	Y40024-83	1-7/8-12	19.4	60.5	54.0	50.8	NA	580.0
*32	Y40032-25	2-1/2-12	0.937	2.970	2.750	2.560	NA	906.0



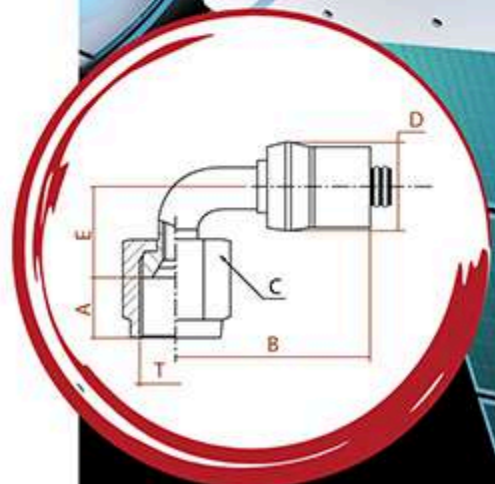
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
6	Y40106-83	9/16-18	9.5	47.2	17.5	17.3	12.0	45.5
8	Y40108-83	3/4-16	11.1	55.4	22.2	21.8	14.5	80.0
10	Y40110-83	7/8-14	13.1	61.5	25.4	24.1	16.3	104.3
12	Y40112-83	1-1/16-12	14.3	70.4	31.8	32.5	17.3	180.0
16	Y40116-83	1-5/16-12	15.7	77.5	38.1	37.3	20.1	272.0
20	Y40120-83	1-5/8-12	15.7	93.5	46.0	43.2	23.6	435.0
24	Y40124-83	1-7/8-12	19.4	100.3	54.0	50.8	26.7	604.0
*32	Y40132-25	2-1/2-12	0.937	4.845	2.750	2.560	1.314	1046.0



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
6	Y40206-83	9/16-18	9.5	39.6	17.5	17.3	22.6	54.4
8	Y40208-83	3/4-16	11.1	47.0	22.2	21.8	28.1	85.0
10	Y40210-83	7/8-14	13.1	55.6	25.4	24.1	32.5	134.0
12	Y40212-83	1-1/16-12	14.3	67.8	31.8	32.5	35.7	190.0
16	Y40216-83	1-5/16-12	15.7	72.9	38.1	37.3	43.4	298.0
20	Y40220-83	1-5/8-12	15.7	86.1	46.0	43.2	52.1	453.0
24	Y40224-83	1-7/8-12	19.4	92.7	54.0	50.8	60.2	639.6
*32	Y40232-25	2-1/2-12	0.937	4.690	2.750	2.560	3.033	1107.0



\*Size -32 only available in 410 Series



# Titeflex R367 (480 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514 / AS33515 AND AS4375 / AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40406-83	9/16-18	0.326	1.340	0.688	0.680	NA	0.164	0.1
8	Y40408-83	3/4-16	0.368	1.520	0.875	0.860	NA	0.189	0.2
10	Y40410-83	7/8-14	0.396	1.710	1.000	0.950	NA	0.201	0.3
12	Y40412-83	1-1/16-12	0.421	1.890	1.250	1.280	NA	0.228	0.4
16	Y40416-83	1-5/16-12	0.425	2.000	1.500	1.470	NA	0.297	0.6
20	Y40420-83	1-5/8-12	0.452	2.530	1.812	1.700	NA	0.300	1.0
24	Y40424-83	1-7/8-12	0.447	2.690	2.125	2.000	NA	0.365	1.5
*32	Y40432-30	2-1/2-12	0.312	3.26	2.750	*	NA	0.370	*

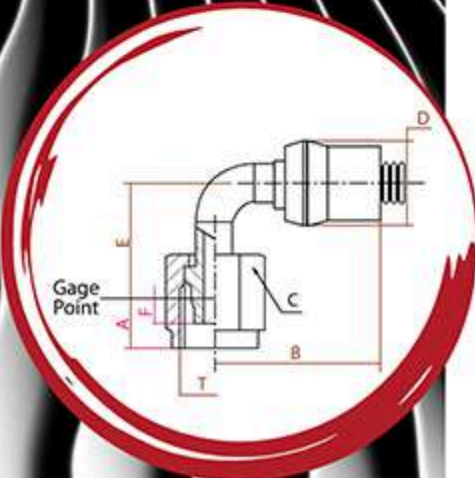
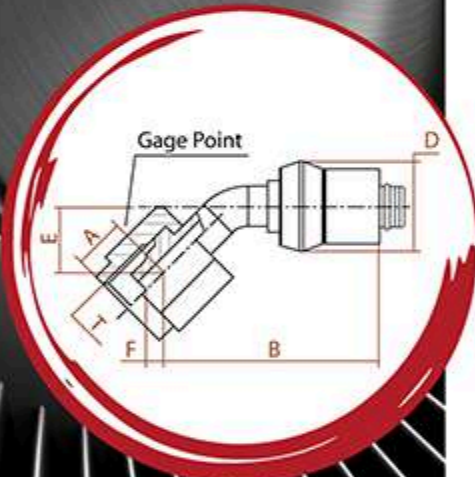
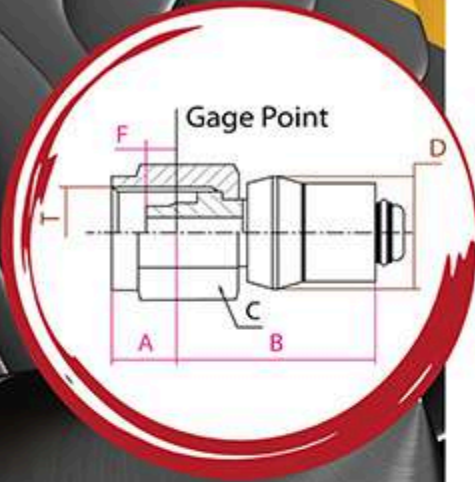
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514 / AS33515 AND AS4375 / AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40506-83	9/16-18	0.326	1.930	0.688	0.680	0.544	0.116	0.1
8	Y40508-83	3/4-16	0.368	2.160	0.875	0.860	0.602	0.134	0.2
10	Y40510-83	7/8-14	0.396	2.550	1.000	0.950	0.735	0.142	0.3
12	Y40512-83	1-1/16-12	0.421	2.870	1.250	1.280	0.735	0.161	0.4
16	Y40516-83	1-5/16-12	0.425	3.190	1.500	1.470	0.936	0.210	0.7
20	Y40520-83	1-5/8-12	0.452	4.020	1.812	1.700	1.056	0.210	1.0
24	Y40524-83	1-7/8-12	0.447	4.570	2.125	2.000	1.276	0.258	1.6

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514 / AS33515 AND AS4375 / AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
6	Y40606-83	9/16-18	0.326	1.630	0.688	0.680	0.995	0.164	0.1
8	Y40608-83	3/4-16	0.368	1.850	0.875	0.860	1.149	0.189	0.2
10	Y40610-83	7/8-14	0.396	2.200	1.000	0.950	1.411	0.201	0.3
12	Y40612-83	1-1/16-12	0.421	2.670	1.250	1.280	1.485	0.228	0.5
16	Y40616-83	1-5/16-12	0.425	3.030	1.500	1.470	1.915	0.297	0.7
20	Y40620-83	1-5/8-12	0.452	3.890	1.812	1.700	2.222	0.300	1.2
24	Y40624-83	1-7/8-12	0.447	4.150	2.125	2.000	2.690	0.365	1.7

\*Size -32 only available in 410 Series



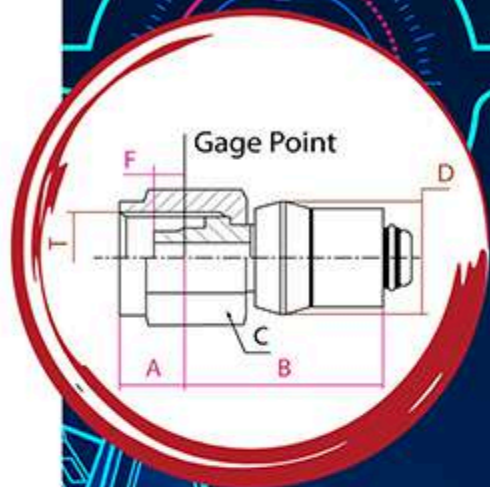


# Titeflex R367 (480 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

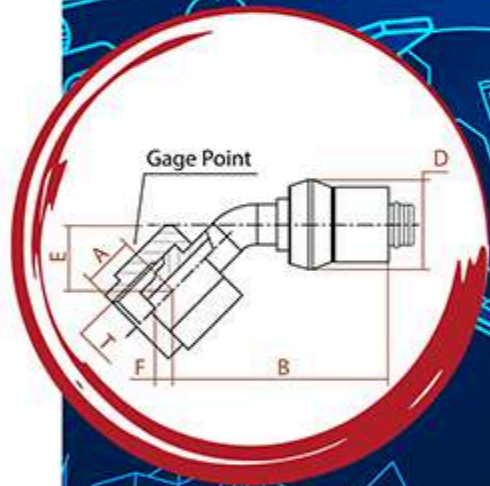
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
6	Y40406-83	9/16-18	9.5	32.5	17.5	17.3	NA	4.166	49.9
8	Y40408-83	3/4-16	11.1	36.6	22.2	21.8	NA	4.801	81.6
10	Y40410-83	7/8-14	13.1	40.1	25.4	24.1	NA	5.105	122.5
12	Y40412-83	1-1/16-12	14.3	44.2	31.8	32.5	NA	5.791	167.8
16	Y40416-83	1-5/16-12	15.7	45.5	38.1	37.3	NA	7.544	254.0
20	Y40420-83	1-5/8-12	15.7	58.2	46.0	43.2	NA	7.620	444.5
24	Y40424-83	1-7/8-12	19.4	60.5	54.0	50.8	NA	9.271	671.3
*32	Y40432-30	2-1/2-12	0.312	3.260	2.750	*	NA	0.370	*



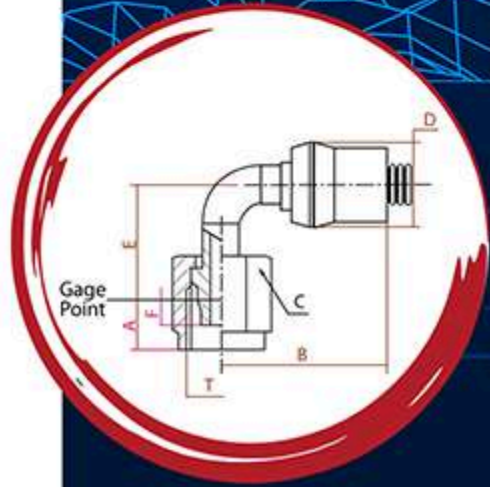
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514 / AS33515 AND AS4375 / AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
6	Y40506-83	9/16-18	8.3	49.0	17.5	17.3	13.8	2.946	49.9
8	Y40508-83	3/4-16	9.3	54.9	22.2	21.8	15.3	3.404	81.6
10	Y40510-83	7/8-14	10.1	64.8	25.4	24.1	18.7	3.607	131.5
12	Y40512-83	1-1/16-12	10.7	72.9	31.8	32.5	18.7	4.089	195.0
16	Y40516-83	1-5/16-12	10.8	81.0	38.1	37.3	23.8	5.334	294.8
20	Y40520-83	1-5/8-12	11.5	102.1	46.0	43.2	26.8	5.334	494.4
24	Y40524-83	1-7/8-12	11.4	116.1	54.0	50.8	32.4	6.553	739.4



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514 / AS33515 AND AS4375 / AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
6	Y40606-83	9/16-18	8.3	41.4	17.5	17.3	25.3	4.166	54.5
8	Y40608-83	3/4-16	9.3	47.0	22.2	21.8	29.2	4.801	90.7
10	Y40610-83	7/8-14	10.1	55.9	25.4	24.1	35.8	5.105	140.6
12	Y40612-83	1-1/16-12	10.7	67.8	31.8	32.5	37.7	5.791	204.1
16	Y40616-83	1-5/16-12	10.8	77.0	38.1	37.3	48.6	7.544	335.7
20	Y40620-83	1-5/8-12	11.5	98.8	46.0	43.2	56.4	7.620	544.3
24	Y40624-83	1-7/8-12	11.4	105.4	54.0	50.8	68.3	9.271	789.3



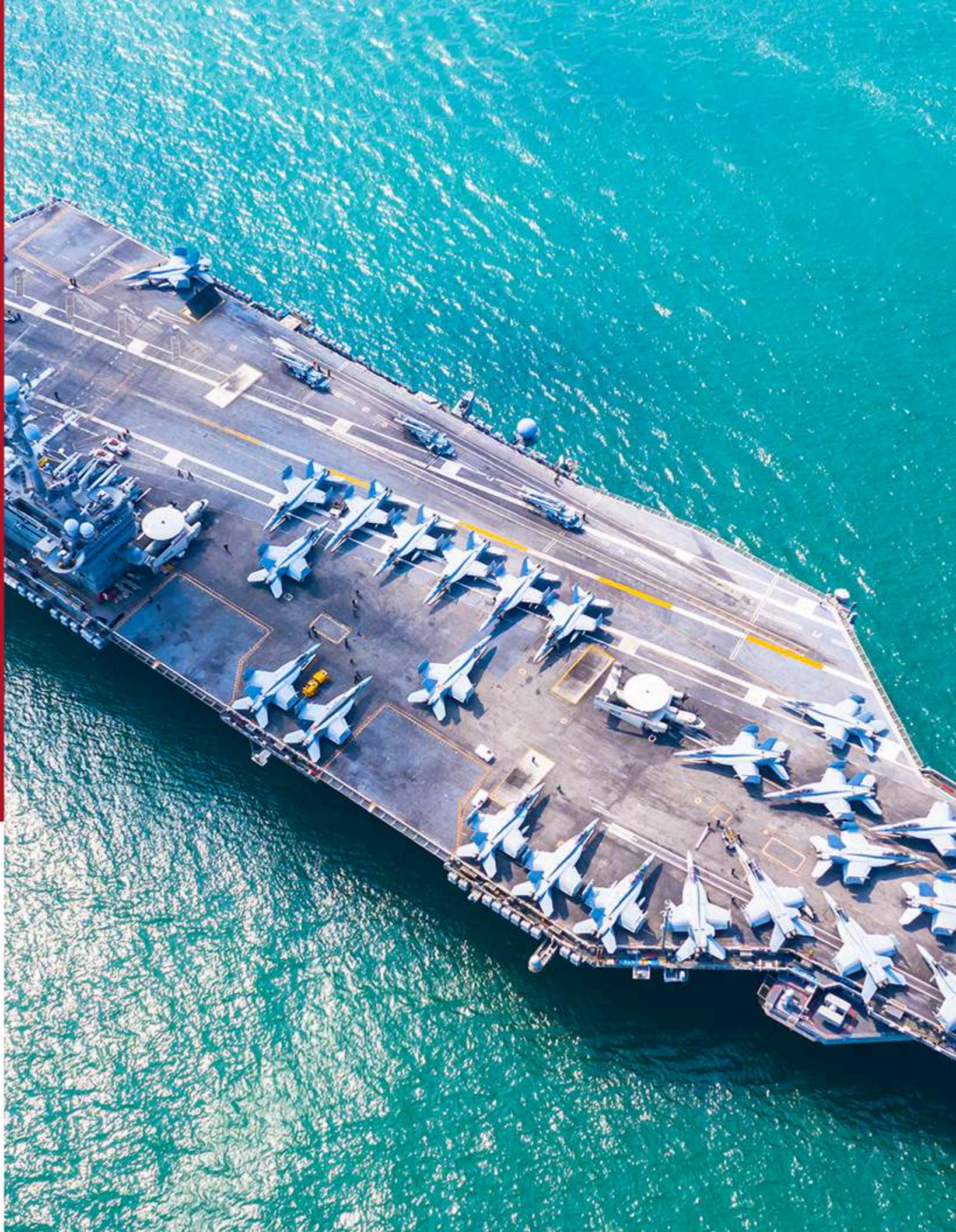
\*Size -32 only available in 410 Series





500  
Series







# Titeflex SA500 (500 SERIES)

**SERIES:** 500  
**SPECIFICATION:** SAE AS5951  
**BRAID:** Kevlar®  
**INNERCORE:** PTFE Smoothbore  
**QUALIFICATIONS:** SAE AS5951

500 Series: lightweight 5080 PSI (350 Bar) non-metallic aerospace hose qualified to AS5951. The hose consists of an extruded smoothbore conductive PTFE innercore, reinforced with Kevlar® para-aramid braid and covered by an integral Cordura® chafe sleeve. Standard fittings are titanium, however CRES fittings are also available. PTFE provides excellent chemical resistance and unlimited shelf life. The 500 Series is ideal for weight-critical 5080 PSI (207 Bar) applications within the temperature range of -65° to +275°F (-54°C to +135°C). Fire protection is available per AS1055 Class A with slip-on AS1072 firesleeve or non-standard integral firesleeve. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	psi	psi
4	5,080	0.212	0.44	0.48	0.006	1.5	10,160	20,320	15,240
6	5,080	0.298	0.525	0.565	0.009	2.5	10,160	20,320	15,240
8	5,080	0.391	0.75	0.925	0.02	2.88	10,160	20,320	15,240
10	5,080	0.49	0.855	0.895	0.02	3.25	10,160	20,320	15,240
12	5,080	0.602	0.98	1.18	0.032	4	10,160	20,320	15,240

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	bar	bar
4	350	5.38	11.18	12.19	113	38.1	701	1,401	1,051
6	350	7.57	13.34	14.35	161	63.5	701	1,401	1,051
8	350	9.93	19.05	23.5	357	73.2	701	1,401	1,051
10	350	12.45	21.72	22.73	363	82.6	701	1,401	1,051
12	350	15.29	24.89	29.97	572	101.6	701	1,401	1,051

### NOTES

/1/ Over minimum 305mm length

/2/ Inside of bend



# Titeflex SA500 (500 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH ASS827

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40404-35	7/16-28	0.320	1.920	0.560	NA	0.155	0.1
6	Y40406-35	9/16-24	0.326	2.160	0.690	NA	0.164	0.1
8	Y40408-35	3/4-20	0.368	2.510	0.880	NA	0.189	0.2
10	Y40410-35	7/8-20	0.396	3.090	1.000	NA	0.201	0.3
12	Y40412-35	1-1/16-18	0.421	4.040	1.250	NA	0.228	0.6

### 45° ELBOW FLARELESS FITTINGS - MATES WITH ASS827

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40504-35	7/16-28	0.320	2.370	0.560	0.393	0.110	0.7
6	Y40506-35	9/16-24	0.326	2.550	0.690	0.433	0.116	0.1
8	Y40508-35	3/4-20	0.368	2.920	0.880	0.552	0.134	0.2
10	Y40510-35	7/8-20	0.396	3.530	1.000	0.565	0.142	0.3
12	Y40512-35	1-1/16-18	0.421	4.600	1.250	0.686	0.131	0.7

### 90° ELBOW FLARELESS FITTINGS - MATES WITH ASS827

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40604-35	7/16-28	0.320	1.530	0.560	0.805	0.115	0.1
6	Y40606-35	9/16-24	0.326	1.720	0.690	0.875	0.164	0.1
8	Y40608-35	3/4-20	0.368	1.940	0.880	1.055	0.189	0.2
10	Y40610-35	7/8-20	0.396	2.470	1.000	1.240	0.201	0.3
12	Y40612-35	1-1/16-18	0.421	3.260	1.250	1.359	0.228	0.7

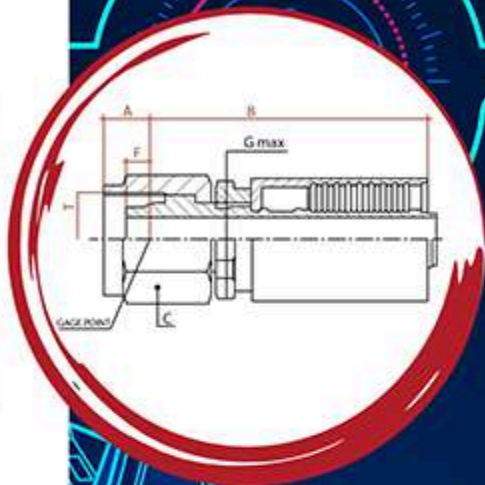


# Titeflex SA500 (500 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

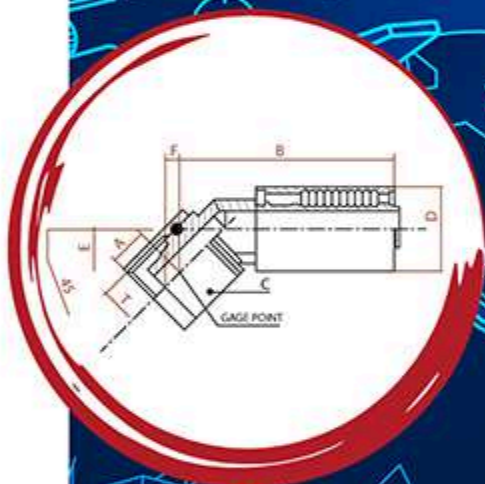
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS5827

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40404-35	7/16-28	8.1	48.8	14.2	*	3.937	25.9
6	Y40406-35	9/16-24	8.3	54.9	17.5	*	4.166	46.3
8	Y40408-35	3/4-20	9.3	63.8	22.4	*	4.801	73.5
10	Y40410-35	7/8-20	10.1	78.5	25.4	*	5.105	112.0
12	Y40412-35	1-1/16-18	10.7	102.6	31.8	*	5.791	268.5



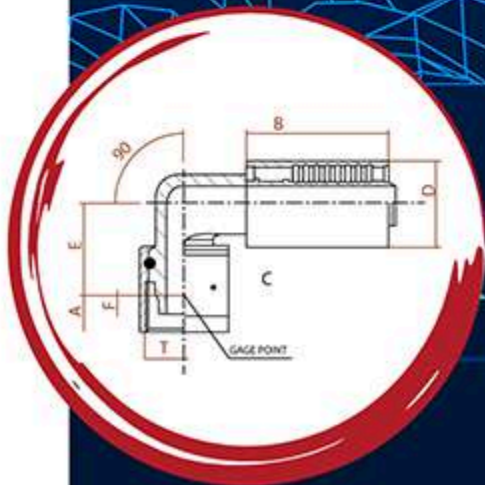
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS5827

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40504-35	7/16-28	8.1	60.2	14.2	*	10.0	2.794	31.3
6	Y40506-35	9/16-24	8.3	64.8	17.5	*	11.0	2.946	55.8
8	Y40508-35	3/4-20	9.3	74.2	22.4	*	14.0	3.404	85.7
10	Y40510-35	7/8-20	10.1	89.7	25.4	*	14.4	3.607	120.7
12	Y40512-35	1-1/16-18	10.7	116.8	31.8	*	17.4	4.089	310.3



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS5827

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40604-35	7/16-28	8.1	38.9	14.2	*	20.4	3.937	32.7
6	Y40606-35	9/16-24	8.3	43.7	17.5	*	22.2	4.166	58.5
8	Y40608-35	3/4-20	9.3	49.3	22.4	*	26.8	4.801	89.8
10	Y40610-35	7/8-20	10.1	62.7	25.4	*	31.5	5.105	136.1
12	Y40612-35	1-1/16-18	10.7	82.8	31.8	*	34.5	5.791	325.7













# Titeflex R270 (510 SERIES)

**SERIES:** 510  
**SPECIFICATION:** None  
**BRAID:** Nomex®  
**INNERCORE:** PTFE Convoluted  
**QUALIFICATIONS:** Qualified to numerous aerospace application specific requirements.

510 Series: low-pressure PTFE hose with non-metallic braid for specialized aerospace applications. The hose consists of convoluted (tape wrap) PTFE innercore, similar to the 410 Series, except the 510 Series is reinforced with a braid of Nomex® instead of CRES. This construction provides an exceptionally tight bend radius, and is light weight. Standard fittings are aluminum and CRES. Operating pressures range from 300 PSI (21 Bar) in the smaller diameters to 200 PSI (14 Bar) in the larger diameters. Fire protection is available with slip-on AS1072 firesleeve. Popular applications for the 510 Series include breathing oxygen, and electronic cooling fluids. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	in HG	psi	psi
4	300	0.28	0.44	0.465	0.004	0.5	600	28	1,200	900
6	300	0.362	0.54	0.57	0.005	0.75	600	28	1,200	900
8	250	0.518	0.74	0.77	0.01	1	500	28	1,000	750
10	250	0.605	0.825	0.86	0.011	1.5	500	28	1,000	750
12	200	0.77	1.055	1.09	0.015	2	400	28	800	600
16	200	0.985	1.27	1.31	0.02	3	400	9	800	600

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	NEGATIVE PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	mm Hg	bar	bar
4	21	7.1	11.2	11.8	67	12.7	41	711	83	63
6	21	9.2	13.7	14.5	91	19.1	41	711	83	63
8	17	13.2	18.8	19.6	185	25.4	34	711	69	52
10	17	15.4	22.1	21.8	202	38.1	34	711	69	52
12	14	19.6	26.8	27.7	274	50.8	28	711	55	41
16	14	25	32.3	33.3	357	76.2	28	217	55	41

### NOTES

/1/ Over minimum 305mm length

/2/ Inside of bend

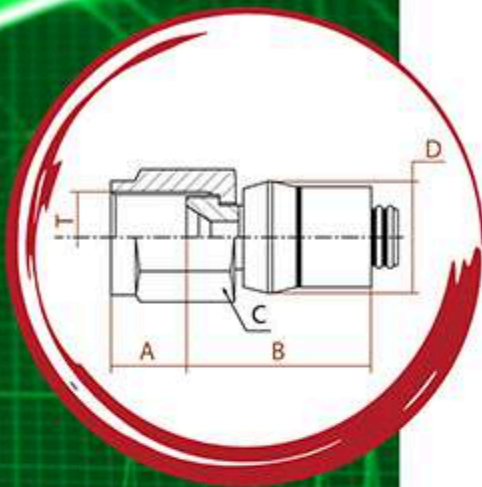


# Titeflex R270 (510 SERIES) Flared (JIC) Fittings

## ENGLISH-INCHES

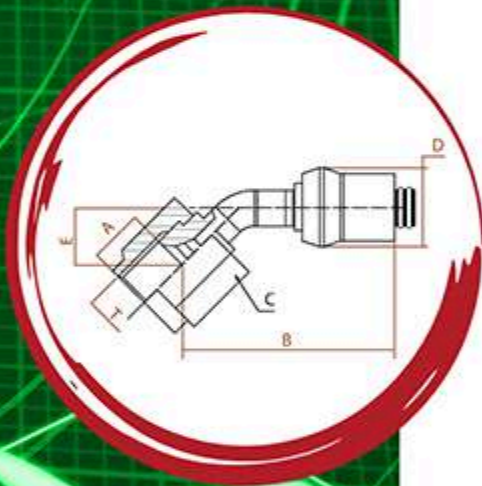
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS33395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
4	Y40004-39	7/16-20	0.372	1.050	0.562	0.550	NA	0.06	0.02
6	Y40006-39	9/16-18	0.375	1.280	0.688	0.650	NA	0.10	0.03
8	Y40008-39	3/4-16	0.438	1.440	0.875	0.860	NA	0.16	0.06
10	Y40010-39	7/8-14	0.515	1.580	1.000	0.950	NA	0.25	0.09
12	Y40012-39	1-1/16-12	0.562	1.740	1.250	1.280	NA	0.34	0.12
16	Y40016-39	1-5/16-12	0.620	1.790	1.500	1.470	NA	0.49	0.17



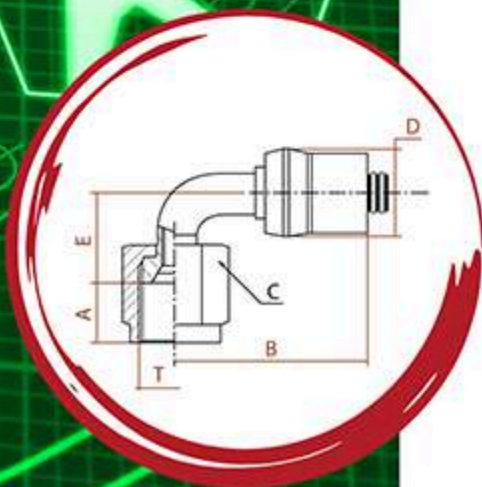
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS33395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
4	Y40104-39	7/16-20	0.372	1.440	0.562	0.550	0.347	0.06	0.02
6	Y40106-39	9/16-18	0.375	1.860	0.688	0.650	0.471	0.10	0.03
8	Y40108-39	3/4-16	0.438	2.180	0.875	0.860	0.572	0.18	0.06
10	Y40110-39	7/8-14	0.515	2.420	1.000	0.950	0.643	0.28	0.10
12	Y40112-39	1-1/16-12	0.562	2.770	1.250	1.280	0.68	0.40	0.14
16	Y40116-39	1-5/16-12	0.620	3.050	1.500	1.470	0.79	0.60	0.21



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS33395 A & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
4	Y40204-39	7/16-20	0.372	1.240	0.562	0.550	0.642	0.06	0.02
6	Y40206-39	9/16-18	0.375	1.560	0.688	0.650	0.89	0.11	0.04
8	Y40208-39	3/4-16	0.438	1.850	0.875	0.860	1.107	0.19	0.07
10	Y40210-39	7/8-14	0.515	2.000	1.000	0.950	1.281	0.30	0.10
12	Y40212-39	1-1/16-12	0.562	2.530	1.250	1.280	1.405	0.42	0.14
16	Y40216-39	1-5/16-12	0.620	2.870	1.500	1.470	1.708	0.66	0.21



#### NOTES:

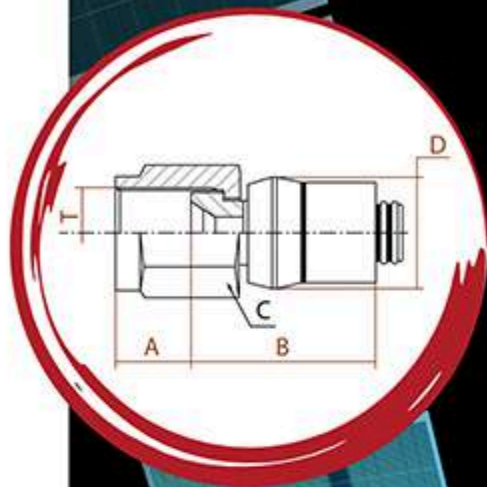
Fitting material code: "-39"=CRES; "-40"=Aluminum

# Titeflex R270 (510 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

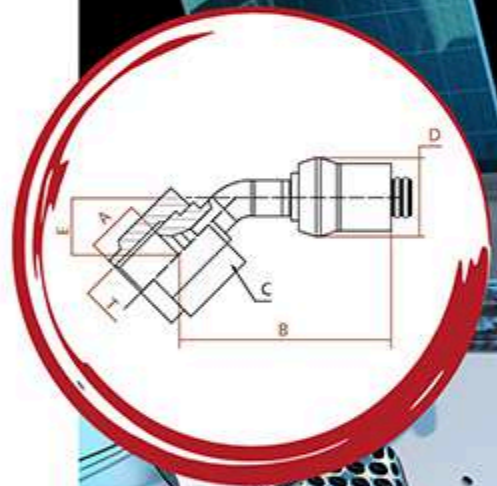
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS33395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAM) CRES	WEIGHT (GRAM) ALUM
4	Y40004-39	7/16-20	9.4	26.7	14.3	14.0	NA	26.0	9.0
6	Y40006-39	9/16-18	9.5	32.5	17.5	16.5	NA	45.0	15.5
8	Y40008-39	3/4-16	11.1	36.6	22.2	21.8	NA	73.0	25.5
10	Y40010-39	7/8-14	13.1	40.1	25.4	24.1	NA	114.0	39.5
12	Y40012-39	1-1/16-12	14.3	44.2	31.8	32.5	NA	155.0	53.5
16	Y40016-39	1-5/16-12	15.7	45.5	38.1	37.3	NA	222.0	76.5



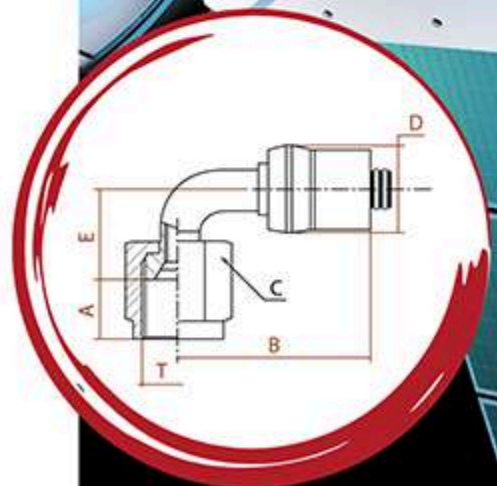
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS33395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAM) CRES	WEIGHT (GRAM) ALUM
4	Y40104-39	7/16-20	9.4	36.6	14.3	14.0	8.8	27.5	9.5
6	Y40106-39	9/16-18	9.5	47.2	17.5	16.5	12.0	45.5	15.8
8	Y40108-39	3/4-16	11.1	55.4	22.2	21.8	14.5	80.0	27.5
10	Y40110-39	7/8-14	13.1	61.5	25.4	24.1	16.3	127.0	44.0
12	Y40112-39	1-1/16-12	14.3	70.4	31.8	32.5	17.3	180.0	62.0
16	Y40116-39	1-5/16-12	15.7	77.5	38.1	37.3	20.1	272.0	93.5



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS33395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAM) CRES	WEIGHT (GRAM) ALUM
4	Y40204-39	7/16-20	9.4	31.5	14.3	14.0	16.3	27.5	9.5
6	Y40206-39	9/16-18	9.5	39.6	17.5	16.5	22.6	51.0	17.5
8	Y40208-39	3/4-16	11.1	47.0	22.2	21.8	28.1	85.0	29.5
10	Y40210-39	7/8-14	13.1	50.8	25.4	24.1	32.5	134.0	46.0
12	Y40212-39	1-1/16-12	14.3	64.3	31.8	32.5	35.7	190.0	65.5
16	Y40216-39	1-5/16-12	15.7	72.9	38.1	37.3	43.4	298.0	102.5



#### NOTES:

Fitting material code: "-39"=CRES; "-40"=Aluminum



# Titeflex R270 (510 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
4	Y40404-30	7/16-20	0.320	1.110	0.562	0.550	NA	0.155	0.06	0.02
6	Y40406-30	9/16-18	0.326	1.330	0.688	0.650	NA	0.164	0.10	0.04
8	Y40408-30	3/4-16	0.368	1.520	0.875	0.860	NA	0.189	0.17	0.1
10	Y40410-30	7/8-14	0.396	1.710	1.000	0.950	NA	0.201	0.27	0.1
12	Y40412-30	1-1/16-12	0.421	1.890	1.250	1.280	NA	0.228	0.37	0.1
16	Y40416-30	1-5/16-12	0.425	2.000	1.500	1.470	NA	0.297	0.55	0.2

### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

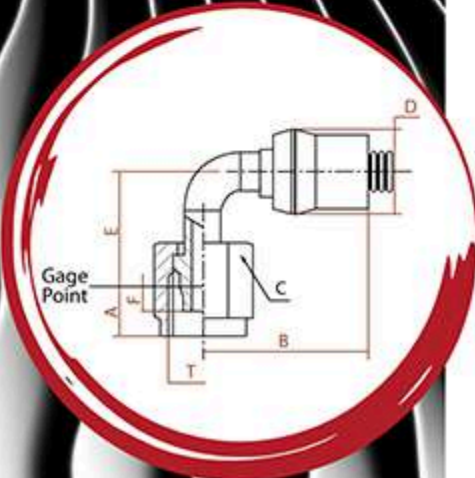
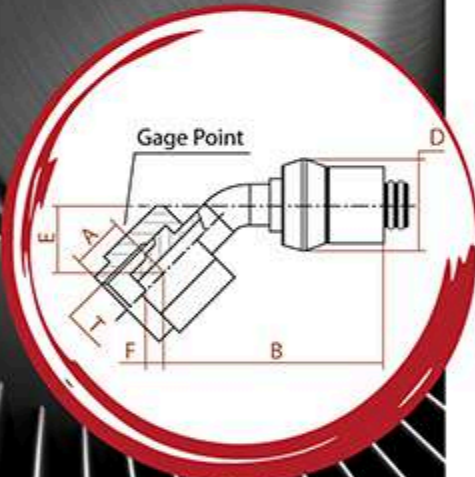
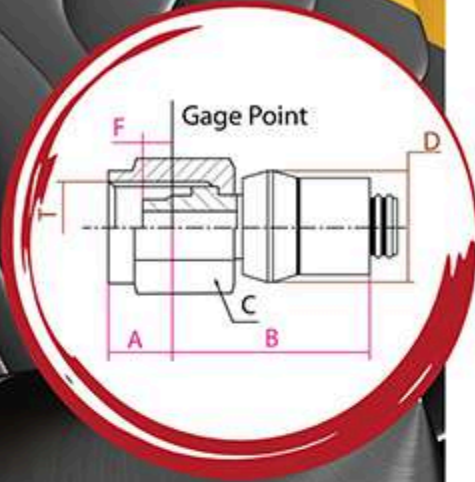
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
4	Y40504-30	7/16-20	0.320	1.520	0.562	0.550	0.419	0.110	0.07	0.03
6	Y40506-30	9/16-18	0.326	1.930	0.688	0.650	0.544	0.116	0.11	0.04
8	Y40508-30	3/4-16	0.368	2.160	0.875	0.860	0.602	0.134	0.18	0.1
10	Y40510-30	7/8-14	0.396	2.540	1.000	0.950	0.735	0.142	0.28	0.1
12	Y40512-30	1-1/16-12	0.421	2.870	1.250	1.280	0.735	0.161	0.43	0.2
16	Y40516-30	1-5/16-12	0.425	3.190	1.500	1.470	0.936	0.210	0.65	0.2

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES	WEIGHT (LB) ALUM
4	Y40604-30	7/16-20	0.320	1.240	0.562	0.550	0.744	0.155	0.07	0.03
6	Y40606-30	9/16-18	0.326	1.630	0.688	0.650	0.995	0.164	0.12	0.04
8	Y40608-30	3/4-16	0.368	1.850	0.875	0.860	1.149	0.189	0.20	0.1
10	Y40610-30	7/8-14	0.396	2.190	1.000	0.950	1.411	0.201	0.31	0.1
12	Y40612-30	1-1/16-12	0.421	2.610	1.250	1.280	1.485	0.228	0.45	0.2
16	Y40616-30	1-5/16-12	0.425	3.030	1.500	1.470	1.914	0.297	0.73	0.3

#### NOTES:

Fitting material code: "-30"=CRES; "-31"=Aluminum

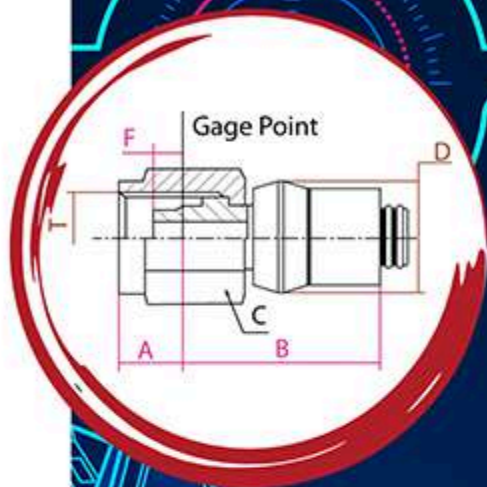


# Titeflex R270 (510 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

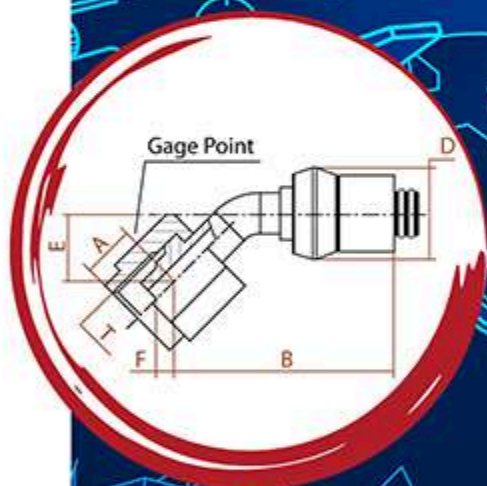
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAM) CRES	WEIGHT (GRAM) ALUM
4	Y40404-30	7/16-20	8.1	28.2	14.3	14.0	NA	3.937	28.0	9.0
6	Y40406-30	9/16-18	8.3	33.8	17.5	16.5	NA	4.166	47.5	16.0
8	Y40408-30	3/4-16	9.3	38.6	22.2	21.8	NA	4.801	79.0	27.0
10	Y40410-30	7/8-14	10.1	43.4	25.4	24.1	NA	5.105	122.5	40.5
12	Y40412-30	1-1/16-12	10.7	48.0	31.8	32.5	NA	5.791	167.5	59.0
16	Y40416-30	1-5/16-12	10.8	50.8	38.1	37.3	NA	7.544	251.0	86.0



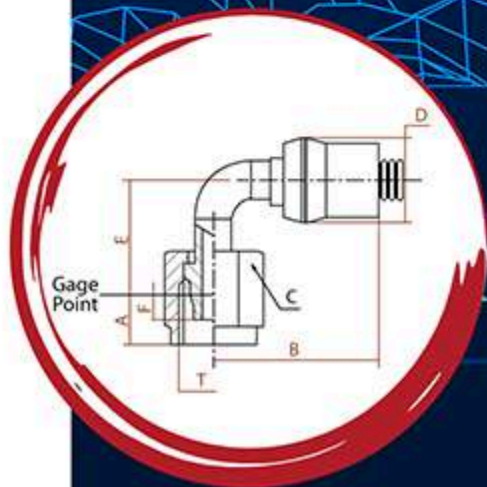
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAM) CRES	WEIGHT (GRAM) ALUM
4	Y40504-30	7/16-20	8.1	38.6	14.3	14.0	10.6	2.794	31.5	11.5
6	Y40506-30	9/16-18	8.3	49.0	17.5	16.5	13.8	2.946	50.0	18.0
8	Y40508-30	3/4-16	9.3	54.9	22.2	21.8	15.3	3.404	81.5	29.5
10	Y40510-30	7/8-14	10.1	64.5	25.4	24.1	18.7	3.607	129.0	45.5
12	Y40512-30	1-1/16-12	10.7	72.9	31.8	32.5	18.7	4.089	195.0	68.0
16	Y40516-30	1-5/16-12	10.8	81.0	38.1	37.3	23.8	5.334	295.4	102.0



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAM) CRES	WEIGHT (GRAM) ALUM
4	Y40604-30	7/16-20	8.1	31.5	14.3	14.0	18.9	3.937	31.5	11.5
6	Y40606-30	9/16-18	8.3	41.4	17.5	16.5	25.3	4.166	54.5	18.0
8	Y40608-30	3/4-16	9.3	47.0	22.2	21.8	29.2	4.801	88.5	31.5
10	Y40610-30	7/8-14	10.1	55.6	25.4	24.1	35.8	5.105	140.0	50.0
12	Y40612-30	1-1/16-12	10.7	66.3	31.8	32.5	37.7	5.791	204.0	70.0
16	Y40616-30	1-5/16-12	10.8	77.0	38.1	37.3	48.6	7.544	333.0	115.5



#### NOTES:

Fitting material code: "-30"=CRES; "-31"=Aluminum











# Titeflex R157 (660 SERIES)

**SERIES:** 660  
**SPECIFICATION:** SAE AS604  
**BRAID:** CRES  
**INNERCORE:** PTFE Smoothbore  
**QUALIFICATIONS:** SAE AS604,  
 TSO C75 Type IIIB-S/P-F,  
 AS1055 Type IIa & IIb, Class A & B,  
 Integral and Slip-on Firesleeve

R157 (660 Series) is a heavyweight 3000psi (207 bar) aerospace hose assembly qualified to AS604. The hose consists of an extruded smoothbore PTFE innercore, reinforced with multiple layers of CRES 304 wire braid. The PTFE innercore is conductive and provides excellent chemical resistance through a temperature range of -65°F to +400°F (-54°C to +204°C) with unlimited shelf life. The 660 Series is especially suited to applications with significant impulsing, and outputs from hydraulic or pneumatic pumps. Standard fittings are CRES, however titanium fittings are also available. Fire protection per AS1055 Class A & B can be either integral, or slip-on AS1072 firesleeve. Chafe sleeves are available in a variety of integral or slip-on materials. Hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube.



## ENGLISH

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	psi	in	in	in	lb/in	in	psi	psi	psi
4	3,000	0.224	0.39	0.41	0.011	3	6,000	16,000	12,000
6	3,000	0.298	0.535	0.595	0.028	5	6,000	14,000	10,500
8	3,000	0.391	0.675	0.735	0.04	5.75	6,000	14,000	10,500
10	3,000	0.485	0.875	0.935	0.062	6.5	6,000	12,000	9,000
12	3,000	0.602	1.03	1.09	0.086	7.75	6,000	12,000	9,000
16	3,000	0.852	1.35	1.41	0.14	9.63	6,000	12,000	9,000

### NOTES

/1/ Over minimum 12 inch length

/2/ Inside of bend





## METRIC

HOSE SIZE	OPERATING PRESSURE	HOSE ID (MIN)	HOSE OD (MIN)	HOSE OD (MAX)	BRAIDED HOSE WT/1/	BEND RADIUS (MIN)/2/	PROOF PRESSURE	ROOM TEMP BURST (MIN)	HIGH TEMP BURST (MIN)
	bar	mm	mm	mm	g/m	mm	bar	bar	bar
4	207	5.69	9.91	10.41	199	76.2	414	1 103	827
6	207	7.6	14.2	15	500	127	414	965	724
8	207	10	17.4	18.16	714	146	414	965	724
10	207	13.3	22.2	23	1 107	165	414	827	621
12	207	16.5	26.4	27.43	1 536	197	414	827	621
16	207	22.1	34.3	35.31	2 500	244	414	827	621

### NOTES

/1/ Over minimum 305mm length

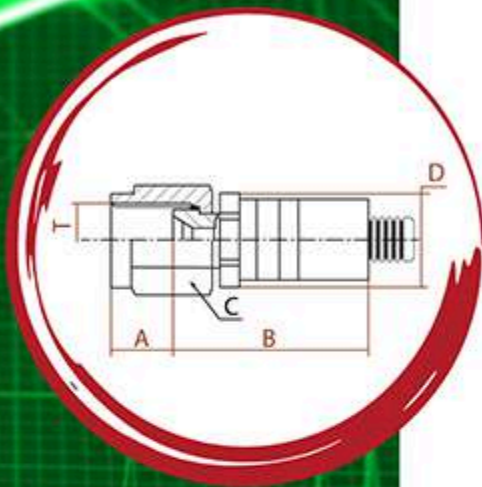
/2/ Inside of bend



# Titeflex R157 (660 SERIES) Flared (JIC) Fittings

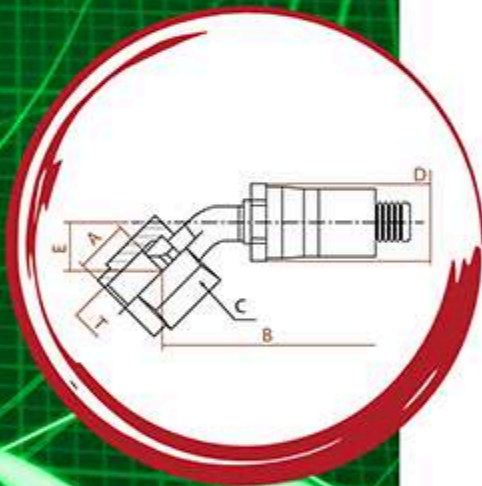
## ENGLISH-INCHES

### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396



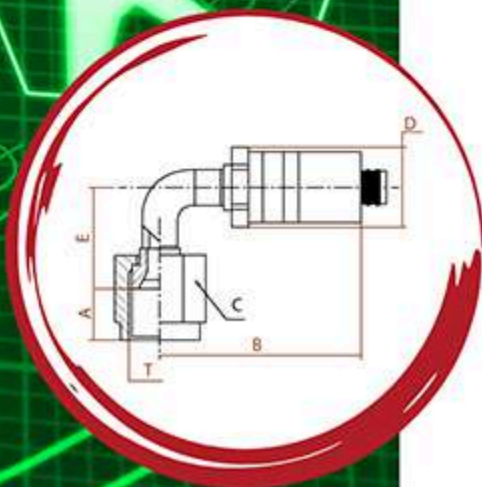
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	WEIGHT (LB) CRES
4	Y40004-22	7/16-20	0.372	1.510	0.562	0.875	0.1
6	Y40006-22	9/16-18	0.375	1.800	0.688	1.000	0.1
8	Y40008-22	3/4-16	0.438	2.040	0.875	1.200	0.2
10	Y40010-22	7/8-14	0.515	2.310	1.000	1.406	0.2
12	Y40012-22	1-1/16-12	0.562	2.490	1.250	1.687	0.4
16	Y40016-22	1-5/16-12	0.620	2.670	1.500	2.000	0.6

### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396



HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40104-24	7/16-20	0.372	1.900	0.562	0.875	0.348	0.1
6	Y40106-24	9/16-18	0.375	2.250	0.688	1.000	0.471	0.1
8	Y40108-24	3/4-16	0.438	2.650	0.875	1.200	0.572	0.2
10	Y40110-24	7/8-14	0.515	3.190	1.000	1.406	0.643	0.3
12	Y40112-24	1-1/16-12	0.562	3.560	1.250	1.687	0.68	0.5
16	Y40116-24	1-5/16-12	0.620	4.350	1.500	2.000	0.79	0.7

### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396



HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y40204-24	7/16-20	0.372	1.580	0.562	0.875	0.642	0.1
6	Y40206-24	9/16-18	0.375	1.800	0.688	1.000	0.89	0.1
8	Y40208-24	3/4-16	0.438	2.400	0.875	1.200	1.107	0.2
10	Y40210-24	7/8-14	0.515	3.040	1.000	1.406	1.281	0.3
12	Y40212-24	1-1/16-12	0.562	3.350	1.250	1.687	1.405	0.5
16	Y40216-24	1-5/16-12	0.620	4.260	1.500	2.000	1.833	0.8

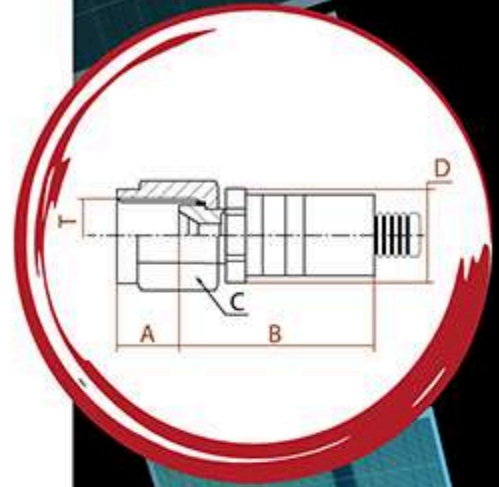


# Titeflex R157 (660 SERIES) Flared (JIC) Fittings

## METRIC-MILLIMETERS

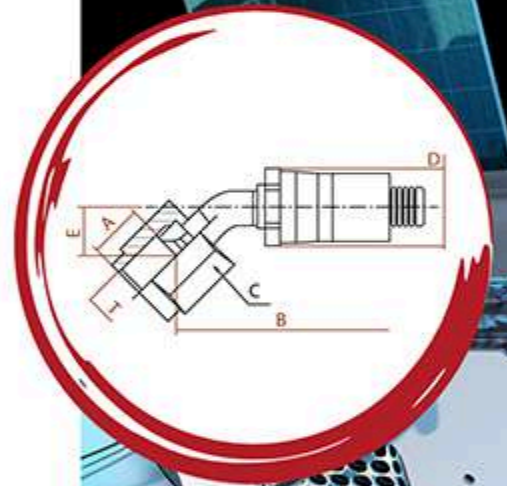
### STRAIGHT FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40004-22	7/16-20	9.4	38.4	14.3	22.2	NA	30.0
6	Y40006-22	9/16-18	9.5	45.7	17.5	25.4	NA	54.0
8	Y40008-22	3/4-16	11.1	51.8	22.2	30.5	NA	89.0
10	Y40010-22	7/8-14	13.1	58.7	25.4	35.7	NA	113.0
12	Y40012-22	1-1/16-12	14.3	63.2	31.8	42.8	NA	199.0
16	Y40016-22	1-5/16-12	15.7	67.8	38.1	50.8	NA	294.5



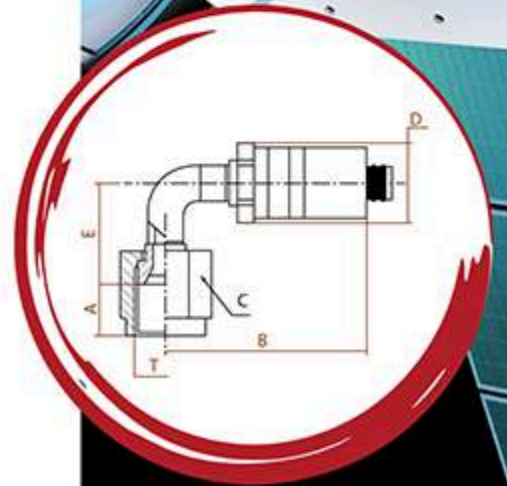
### 45° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40104-24	7/16-20	9.4	48.3	14.3	22.2	8.8	33.5
6	Y40106-24	9/16-18	9.5	57.2	17.5	25.4	12.0	61.0
8	Y40108-24	3/4-16	11.1	67.3	22.2	30.5	14.5	99.0
10	Y40110-24	7/8-14	13.1	81.0	25.4	35.7	16.3	135.5
12	Y40112-24	1-1/16-12	14.3	90.4	31.8	42.8	17.3	224.5
16	Y40116-24	1-5/16-12	15.7	110.5	38.1	50.8	20.1	327.0



### 90° ELBOW FLARED FITTINGS - MATES WITH AS33656/AS4395 & AS33657/AS4396

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y40204-24	7/16-20	9.4	40.1	14.3	22.2	16.3	33.5
6	Y40206-24	9/16-18	9.5	45.7	17.5	25.4	22.6	63.0
8	Y40208-24	3/4-16	11.1	61.0	22.2	30.5	28.1	103.0
10	Y40210-24	7/8-14	13.1	77.2	25.4	35.7	32.5	142.5
12	Y40212-24	1-1/16-12	14.3	85.1	31.8	42.8	35.7	240.5
16	Y40216-24	1-5/16-12	15.7	108.2	38.1	50.8	46.6	379.5





# Titeflex R157 (660 SERIES) Flareless (NAS) Fittings

## ENGLISH-INCHES

### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40404-62	7/16-20	0.320	1.560	0.562	0.875	NA	0.155	0.1
6	Y40406-62	9/16-18	0.327	1.800	1.800	1.000	NA	0.164	0.1
8	Y40408-62	3/4-16	0.368	2.060	2.060	1.200	NA	0.189	0.2
10	Y40410-62	7/8-14	0.396	2.440	2.440	1.406	NA	0.201	0.3
12	Y40412-62	1-1/16-12	0.421	2.560	2.560	1.687	NA	0.228	0.5
16	Y40416-62	1-5/16-12	0.425	3.000	3.000	2.000	NA	0.297	0.7

### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40504-62	7/16-20	0.320	2.170	0.562	0.875	0.418	0.110	0.1
6	Y40506-62	9/16-18	0.327	2.680	1.800	1.000	0.544	0.116	0.1
8	Y40508-62	3/4-16	0.368	3.110	2.060	1.200	0.601	0.134	0.2
10	Y40510-62	7/8-14	0.396	3.590	2.440	1.406	0.736	0.142	0.3
12	Y40512-62	1-1/16-12	0.421	3.670	2.560	1.687	0.735	0.161	0.5
16	Y40516-62	1-5/16-12	0.425	4.445	3.000	2.000	0.936	0.210	0.8

### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (LB) CRES
4	Y40604-62	7/16-20	0.320	1.580	0.562	0.875	0.744	0.155	0.1
6	Y40606-62	9/16-18	0.327	1.800	1.800	1.000	0.995	0.164	0.1
8	Y40608-62	3/4-16	0.368	2.400	2.060	1.200	1.149	0.189	0.2
10	Y40610-62	7/8-14	0.396	3.040	2.440	1.406	1.411	0.201	0.3
12	Y40612-62	1-1/16-12	0.421	3.350	2.560	1.687	1.485	0.228	0.6
16	Y40616-62	1-5/16-12	0.425	4.260	3.000	2.000	1.914	0.297	0.9

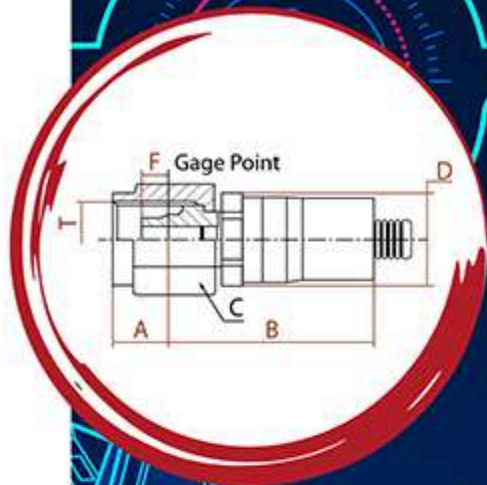


# Titeflex R157 (660 SERIES) Flareless (NAS) Fittings

## METRIC-MILLIMETERS

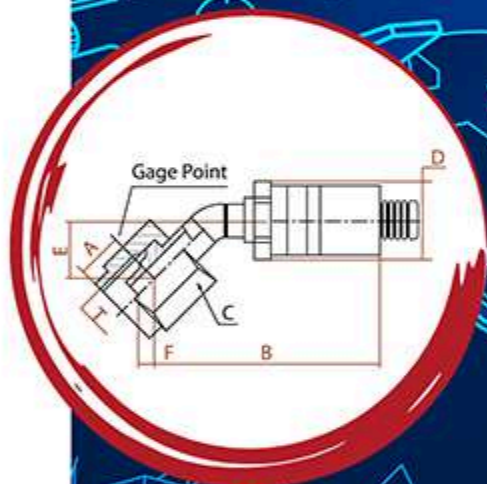
### STRAIGHT FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40404-62	7/16-20	8.1	39.6	14.3	22.2	NA	3.94	32.0
6	Y40406-62	9/16-18	8.3	45.7	17.5	25.4	NA	4.17	53.0
8	Y40408-62	3/4-16	9.3	52.3	22.2	30.5	NA	4.80	87.0
10	Y40410-62	7/8-14	10.1	62.0	25.4	35.7	NA	5.11	120.0
12	Y40412-62	1-1/16-12	10.7	65.0	31.8	42.8	NA	5.79	212.0
16	Y40416-62	1-5/16-12	10.8	76.2	38.1	50.8	NA	7.54	323.0



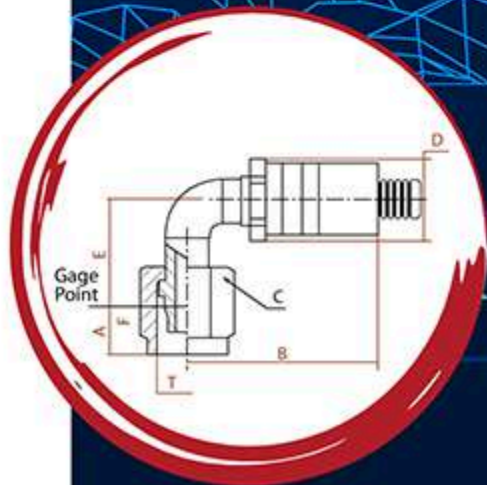
### 45° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40504-62	7/16-20	8.1	55.1	14.3	22.2	10.6	2.79	33.0
6	Y40506-62	9/16-18	8.3	17.5	17.5	25.4	13.8	2.95	59.0
8	Y40508-62	3/4-16	9.3	22.2	22.2	30.5	15.3	3.4	100.0
10	Y40510-62	7/8-14	10.1	25.4	25.4	35.7	18.7	3.61	137.0
12	Y40512-62	1-1/16-12	10.7	31.8	31.8	42.8	18.7	4.09	240.0
16	Y40516-62	1-5/16-12	10.8	38.1	38.1	50.8	23.8	5.33	380.0



### 90° ELBOW FLARELESS FITTINGS - MATES WITH AS33514/AS33515 & AS4375/AS4377

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	GAGE POINT (F)	WEIGHT (GRAMS) CRES
4	Y40604-62	7/16-20	8.1	40.1	14.3	22.2	18.9	3.94	34.0
6	Y40606-62	9/16-18	8.3	45.7	17.5	25.4	25.3	4.17	61.5
8	Y40608-62	3/4-16	9.3	61.0	22.2	30.5	29.2	4.80	105.5
10	Y40610-62	7/8-14	10.1	77.2	25.4	35.7	35.8	5.11	145.0
12	Y40612-62	1-1/16-12	10.7	85.1	31.8	42.8	37.7	5.79	254.0
16	Y40616-62	1-5/16-12	10.8	108.2	38.1	50.8	48.6	7.54	415.0





# Titeflex R157 (660 SERIES) Dualseal Fittings

## ENGLISH-INCHES

### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	WEIGHT (LB) CRES
4	Y43004-48	7/16-24	0.215	1.530	0.562	0.875	0.1
6	Y43006-48	9/16-20	0.235	1.680	0.688	1.000	0.1
8	Y43008-48	23/32-20	0.248	1.800	0.875	1.200	0.2
10	Y43010-48	27/32-18	0.312	2.060	1.000	1.406	0.2
12	Y43012-48	1-16	0.352	2.150	1.250	1.687	0.4
16	Y43016-48	1-1/4-14	0.380	2.620	1.500	2.000	0.6

### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43104-48	7/16-24	0.215	2.310	0.562	0.875	0.480	0.1
6	Y43106-48	9/16-20	0.235	2.590	0.688	1.000	0.570	0.1
8	Y43108-48	23/32-20	0.248	2.920	0.875	1.200	0.645	0.2
10	Y43110-48	27/32-18	0.312	3.360	1.000	1.406	0.736	0.3
12	Y43112-48	1-16	0.352	3.670	1.250	1.687	0.788	0.4
16	Y43116-48	1-1/4-14	0.380	4.470	1.500	2.000	0.917	0.7

### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS

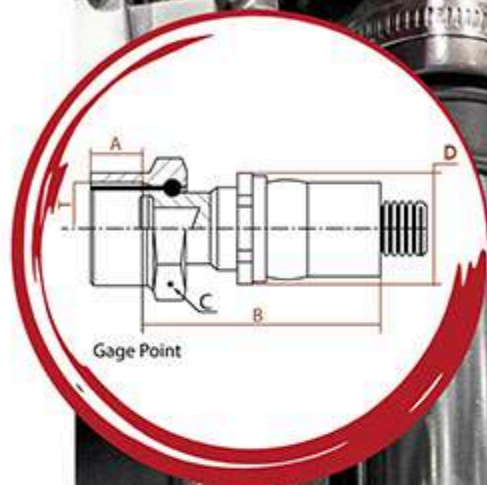
HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (LB) CRES
4	Y43204-48	7/16-24	0.215	2.020	0.562	0.875	0.825	0.1
6	Y43206-48	9/16-20	0.235	2.250	0.688	1.000	1.03	0.1
8	Y43208-48	23/32-20	0.248	2.380	0.875	1.200	1.21	0.2
10	Y43210-48	27/32-18	0.312	2.940	1.000	1.406	1.414	0.3
12	Y43212-48	1-16	0.352	3.570	1.250	1.687	1.560	0.5
16	Y43216-48	1-1/4-14	0.380	4.100	1.500	2.000	1.888	0.7

# Titeflex R157 (660 SERIES) Dualseal Fittings

## METRIC-MILLIMETERS

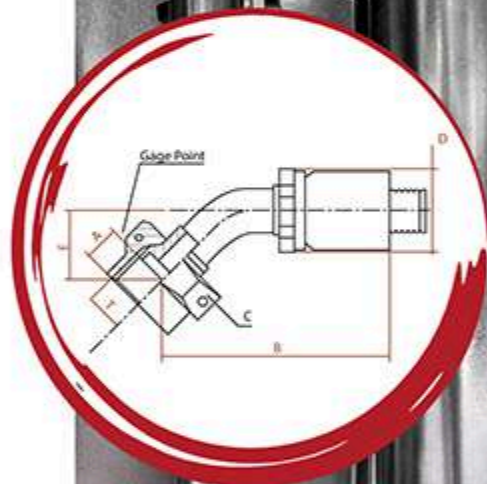
### STRAIGHT DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43004-48	7/16-24	5.5	38.9	14.3	22.2	NA	32.0
6	Y43006-48	9/16-20	6.0	42.7	17.5	25.4	NA	50.0
8	Y43008-48	23/32-20	6.3	45.7	22.2	30.5	NA	77.0
10	Y43010-48	27/32-18	7.9	52.3	25.4	35.7	NA	104.0
12	Y43012-48	1-16	8.9	54.6	28.6	42.8	NA	173.0
16	Y43016-48	1-1/4-14	9.7	66.5	38.1	50.8	NA	259.0



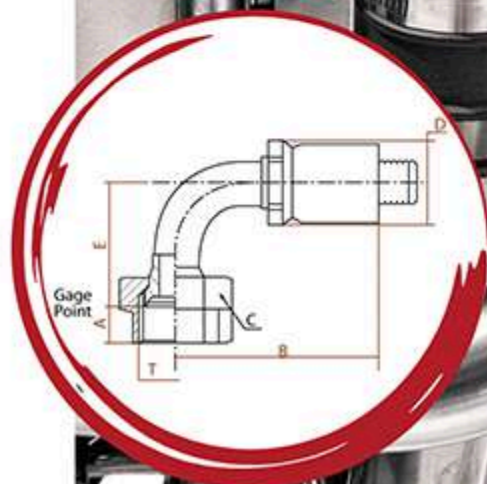
### 45° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43104-48	7/16-24	5.5	58.7	14.3	22.2	12.2	32.0
6	Y43106-48	9/16-20	6.0	65.8	17.5	25.4	14.5	54.0
8	Y43108-48	23/32-20	6.3	74.2	22.2	30.5	16.4	86.0
10	Y43110-48	27/32-18	7.9	85.3	25.4	35.7	18.7	118.0
12	Y43112-48	1-16	8.9	93.2	28.6	42.8	20.0	195.0
16	Y43116-48	1-1/4-14	9.7	113.5	38.1	50.8	23.3	304.0



### 90° ELBOW DUALSEAL FITTINGS - MATES WITH MIL-F-85421/1 & /2 & AS4207

HOSE SIZE	PART NUMBER	NUT THREAD SIZE (T)	NUT ENGAGEMENT LENGTH (A)	REACH MAX (B)	NUT SIZE (C)	COLLAR HEX SIZE (D)	DROP (E)	WEIGHT (GRAMS) CRES
4	Y43204-48	7/16-24	5.5	51.3	14.3	22.2	21.0	32.0
6	Y43206-48	9/16-20	6.0	57.2	17.5	25.4	26.2	59.0
8	Y43208-48	23/32-20	6.3	60.5	22.2	30.5	30.7	91.0
10	Y43210-48	27/32-18	7.9	74.7	25.4	35.7	35.9	122.0
12	Y43212-48	1-16	8.9	90.7	28.6	42.8	39.6	204.0
16	Y43216-48	1-1/4-14	9.7	104.1	38.1	50.8	48.0	308.0











# Fire Protection and Anti-Abrasion

## COMPATIBLE WITH AEROSPACE HYDRAULIC FLUIDS AND FUEL

- Integral firesleeve available for all CRES braided hose configurations. Fire protection per AS1055 for 5-15 minute duration.
- Slip-on firesleeve available for all CRES braided hose. Firesleeve material meets AS1072. Fire protection per AS1055 for 5-15 minute duration.



Titeflex offers a variety of anti-abrasion sleeves with varying materials and applications for superior chafe protection while maintaining flexibility in hose assemblies.

Options include Titeflex RP chafe sleeve, which consists of polyester yarn braided directly on the hose for ultimate chafe protection, maximum flexibility, and chemical resistance. Titeflex RC chafe sleeve consists of Cordura® yarn braided directly on the hose for lightweight chafe protection.

Additionally Titeflex offers anti-abrasion heat shrinkable sleeves of polyolefin or PTFE; and anti-abrasion tubular sleeves of vinyl, neoprene, and PTFE.

Please contact Aero-Hose, Corp for applications, restrictions, and additional information.

Cordura® is a registered trademark of Invista.

















# Rigid Tube Fabrication

Titeflex has a wide range of in-house rigid tube assembly fabrication capabilities to service the demanding applications and requirements of the aerospace industry. Titeflex is accustomed to working with all of the typical aerospace materials including austenitic and "PH" stainless steels, nickel alloys (600, 625, 718, X750, Waspaloy, and Hasteloy), titanium, and aluminum. Product knowledge and skilled personnel enable Titeflex to tackle some of the toughest jobs the industry has to offer.

Tube forming capabilities include rotary draw tube bending to 3" diameter, roll sweep bending to  $\frac{3}{4}$ " diameter, coiling to  $\frac{1}{2}$ " diameter, end finishing, and press forming.

Metal joining capabilities include orbital and manual GTAW (Gas Tungsten Arc Welding), induction brazing, vacuum furnace brazing, and torch brazing. Titeflex also performs vacuum heat treating (stress relieving, solution heat treating, and precipitation hardening) of materials other than aluminum.

As companions to metal joining Titeflex has a non-destructive testing lab certified for radiography and liquid penetrant inspection and in-house cleaning capability including titanium cleaning. Non-destructive testing capabilities also include pressure testing with media and pressures as follows:

- Air / Nitrogen / Helium 8,000 PSI
- Water 15,000 PSI
- Skydrol 8,000 PSI

In addition to routine cleaning Titeflex also performs special cleaning, testing [particle count and NVR (Non Volatile Residue)], and protective packaging of components for oxygen systems and other systems having special cleanliness requirements.

Titeflex holds numerous aerospace customer approvals for special processes and is Nadcap accredited in Welding & Brazing, Furnace Brazing & Heat Treatment, Chemical Processing (including titanium cleaning), and Non-Destructive Testing [Radiography and LPI (Liquid Penetrant Inspection)].





# Rigid Tubing Capabilities

## BENDING (Cold Forming):

### RANGE OF TUBE DIAMETER

1/16" to 3"

### PREFERRED MINIMUM CENTERLINE BEND RADII

#### Titanium

3 x Tube O.D. (33% Flattening Allowance)

2 x Tube O.D. (35% Flattening Allowance)

#### Ferrous & Nickel Alloys

1½ x Tube O.D. (35% Flattening Allowance)

#### Non-Ferrous Alloys

1½ x Tube O.D. (310% Flattening Allowance)

### PREFERRED MINIMUM DISTANCE BETWEEN BENDS

2 x Tube O.D. (Special Tooling Required for Shorter Lengths)

*Note: Material properties for elongation must be compatible with bend requirements*

## JOINING:

### DC ORBITAL WELDING

12 UNITS ¼" to 3" O.D.

### MANUAL WELDING

(20) Manual Weld Stations

(2) VAC Atmosphere Weld Chambers

Load/Unload Chamber 24" x 36"; 15" x 72"

Work Area 36" x 80"

### INDUCTION BRAZING

10 KVA to 50KVA

### FURNACE BRAZING & HEAT TREATING

VFS MODEL HL 66

Work Zone 50" x 34" x 72"

Max. Temperature 2400°F

Vacuum 1.0 x 10<sup>-4</sup> Torr. To 2 Bar

CNC Control

### TORCH BRAZING

### MECHANICAL ATTACHED FITTINGS

Deutsch DMA, Deutsch Permaswage, Sierracin-Harrison, Elastomeryc Swage, Wiggins/Hydraflow, Rynglok

## END FORMING:

### ANNEALED FERROUS, NICKEL OR NON-FERROUS

Flaring: 3/16" to 3" O.D. x .065 Wall Max.

Beading: ¼" to 3" O.D. x .065 Wall Max.

Swaging: 2" O.D. Max. x .065 Wall Max.

## OUTSIDE SUBCONTRACT EXPERIENCE:

Plasma Coating

Plating

Dip Brazing

Resistance Welding

Grinding

Shot Peening

Sheet Metal Forming

Painting

## NON-DESTRUCTIVE TESTING:

### PRESSURE TEST

Air

Water

Inert Gas

### RADIOGRAPHIC INSPECTION

Maximum Material Thickness -1" Equivalent SST

Automatic Film Processing

### FLUORESCENT PENETRANT INSPECTION

Water Washable and Post - Emulsifiable System

Normal to High Sensitivity

### ULTRASONIC

Shear Wave Impulse Echo by Contact Method

## INSPECTION:

3 Eaton Leonard Laser Visions: (2) Optima (1) Standard

Non-Contact Tube Measuring Machine

Tolerance - Tube Envelope ± .005

- End Points ± .002

Networked to All Power Benders for Set-U[

Elongation/Springback Feedback

### MITUTOYO B706 COORDINATE MEASURING MACHINE

## ENGINEERING:

### CATIA V4, V5

### UNIGRAPHICS NX2 CAD/SYSTEM (4 STATION), WINDOWS PLATFORM

### IGES, STEP UGTRANSLATORS

3D Wire Frame & Solid Modeling

Tool, Jig & Fixture Design

Reverse Engineering of Assemblies

## TESTING:

### CLASS 1000 MCLEAN ROOM CAPABILITIES

NVR Analysis

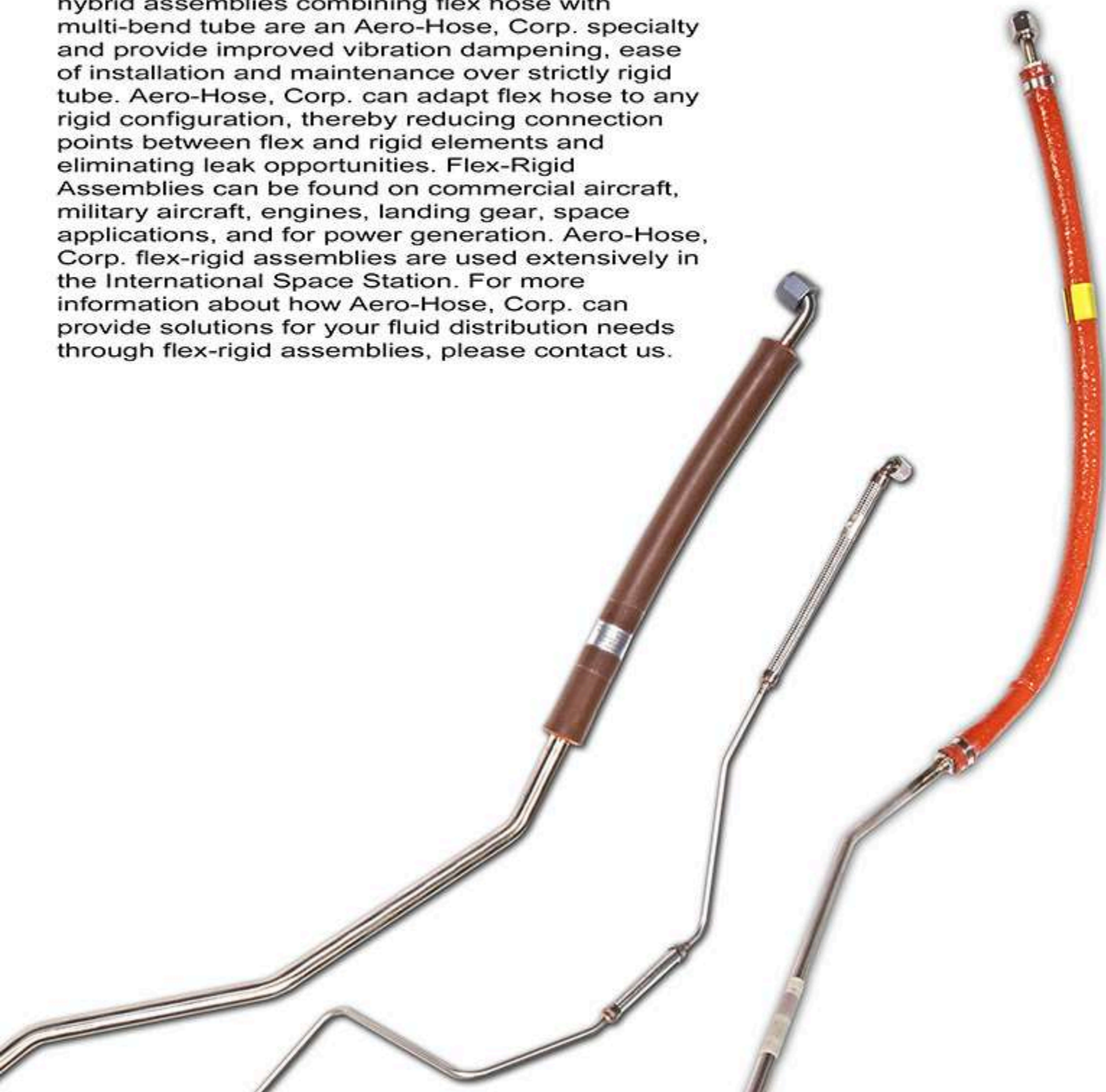
Particle Size & Weight Analysis

Packaging



# Flex-Rigid Hybrid Assemblies

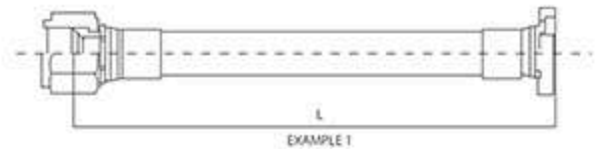
Aero-Hose, Corp. blends its vast experience in flexible hose fabrication and precision bending of rigid tubes to deliver flex-rigid assemblies. These hybrid assemblies combining flex hose with multi-bend tube are an Aero-Hose, Corp. specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tube. Aero-Hose, Corp. can adapt flex hose to any rigid configuration, thereby reducing connection points between flex and rigid elements and eliminating leak opportunities. Flex-Rigid Assemblies can be found on commercial aircraft, military aircraft, engines, landing gear, space applications, and for power generation. Aero-Hose, Corp. flex-rigid assemblies are used extensively in the International Space Station. For more information about how Aero-Hose, Corp. can provide solutions for your fluid distribution needs through flex-rigid assemblies, please contact us.



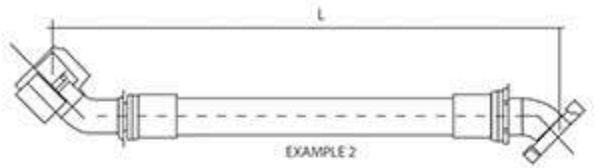


## HOW TO MEASURE LENGTHS OF HOSE ASSEMBLIES

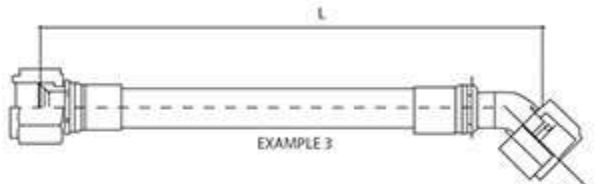
For hose assemblies with straight to straight fittings, 38° seat, DIN, BNAE and flange, measure between the faces of the inserts (including flange retainer insert) as shown in example 1.



For hose assemblies with 45° or 90° elbow fittings, 38° seat, DIN, BNAE and flange measure from the center of the elbow, as shown in example 2.



For hose assemblies with flareless fittings, DualSeal,\*\* the measurement is from the center of the gage point to the other gage point as shown in example 3.



## HOW TO SPECIFY A HOSE ASSEMBLY

### 1) Straight-To-Straight and Straight-to-Elbow configurations

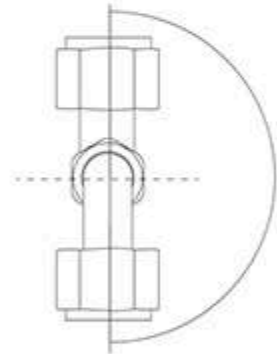
#### EXAMPLE 1 13000208-0124C

13	00	02	08	012	4	C
Hose Type	Fitting one end	Fitting other end	Hose size (Nom. ID in 1/16 inches)	Hose assembly length (L) in even inches	Hose assembly fractional in 1/8 inches	Special feature

*Explanation:* Titeflex "130 SERIES" hose assembly with a straight 38° seat SS fitting at one end and an elbow 90° 38° seat SS fitting at the other end. Hose size is -08 (Nominal inside diameter in 16th inches). Hose assembly length (L) is 12.5 inches (012=length in even inches, 4=length in fractional 1/8 inches). Assembly is equipped with a PTFE chafe sleeve.

### (2) Double Elbow Configuration

When ordering double elbow hose assemblies, hose size is indicated by a letter instead of number (see table below) and the dash is relocated (or deleted if a special feature code letter is added). Angular orientation between the elbows is expressed in three digits. The angle is measured in degrees counterclockwise from the centerline of the nearest fitting to the centerline of the other fitting as shown in the figure. If the desired orientation is 0 degrees, specify as 000.



#### EXAMPLE 2 130102G0256-180

*Explanation:* Titeflex "130 SERIES" hose assembly with 45° elbow 38° seat fitting SS at one end and a 90° elbow 38° seat fitting SS at the other end. Hose size is -12 (Nominal inside diameter in 16th inches). Hose assembly length (L) is 25 3/4 inches (025=length in even inches, 6=length in fractional 1/8 inches). Orientation between the elbows is 180°. The same assembly with a PTFE chafe sleeve would be specified by dropping the dash and inserting the special feature code letter "C". The number would be read as 130102G0256C180.

Substitution letters for hose size dash number

Hose Size	03	04	05	06	08	10	12	16	16Z	20	20Z	24Z	32	40	48
Substitution Letters	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R

\*\*Titeflex Trademark and patented product



# How to Order Hose Assemblies

## STRAIGHT-TO-STRAIGHT AND STRAIGHT-TO-ELBOW CONFIGURATIONS

XX	XX	XX	XX	XX	XX	XXX	X	X
		Fitting One End	Fitting Other End			Hose Assembly Length (L) in Even Inches		
Special Feature Prefix Letter	Hose Type Number	Fitting Number	Description	Hose Size (Nom. ID) in 1/16 Inches	Hose Assembly Fractional Length in 1/8 Inches	Special Feature Suffix Letter		
	19	SS	LW			A - Aluminum Flange or Nut with a Stainless Steel Insert		
	190 Series	00	20	Straight 38° Seat-JIC		B - Carbon Steel Nut or Flange with a SS Insert		
	13	01	21	45° Elbow Seat 38° JIC		C - Teflon Chafe Sleeve White (Natural)		
F	130 Series	02	22	90° Elbow Seat 38° JIC		C1 - Teflon Chafe Sleeve Black		
Silicone Extruded-on Fire Sleeve (RF)	18	05	25	Tube Adapter		H - 2 Tie Wire Holes		
	180 Series	06	26	Straight Flareless		HH - 3 Tie Wire Holes		
	22	07	27	Flange Straight MS20756		J - PTFE Spiral Chafe Sleeve		
M	220 Series	08	28	45° Elbow Flange MS20756		K - Polyolefin Chafe Sleeve, Clear		
Extruded Fire Sleeve 15Min. test (RM)	24	09	29	90° Elbow Flange MS20756		K1 - Polyolefin Chafe Sleeve, Black		
	240 Series	11	31	Male 38° - JIC		L - Clean for Oxygen Service		
	25	14	34	45° Elbow Flareless		M - Silvered Nut		
	250 Series	15	35	90° Elbow Flareless		S - Fire Sleeve TF 1072		
	37	16	36	Male Flareless		R - Step-up end-fitting ((One Size)		
P	370 Series	AI	AA	BNAE Straight		RR - Step-up end-fitting (Two Sizes)		
Polyester Braid Chafe Sleeve	41	BI	BA	45° Elbow BNAE		T - Step-down end-fitting (One Size)		
	410 Series	CI	CA	90° Elbow BNAE		TT - Step-down end-fitting (Two Sizes)		
	48	DI	DA	DIN Straight		W - Heliwrap firesleeve		
	480 Series	EI	EA	45° Elbow DIN		U - Titanium Nut		
	50	FI	FA	90° Elbow DIN				
W	500 Series	GI	GA	ARSAERO Short				
Urethane coating for Nomex Braid	51	HI	HA	ARSAERO				
	510 Series	JI	JA	BNAE Banjo				
	66							
	660 Series							
	S145							
	Standard pitch							
	S245							
	Close pitch							

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