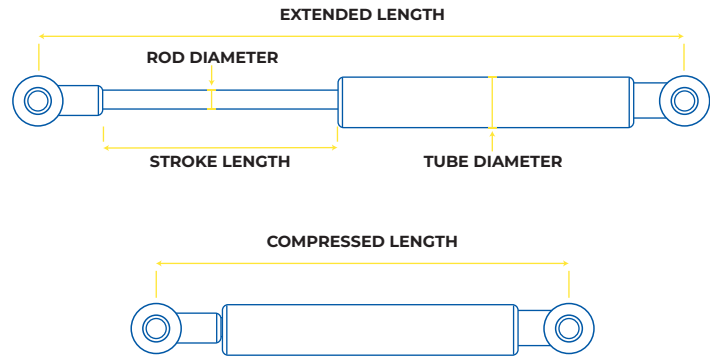


Universal Catalog Fitment Guide

Follow these easy steps to select the best universal replacement for your application:

1. Measure extended length
2. Measure compressed length (or stroke length)
3. Identify end connector type (eyelet or ball socket)
4. Select the Tuff Support part number from this chart that most closely matches your measurements



Important Notes

- Measure from the center of the attachment points
- Not all gas springs can be compressed by hand – you may need to take the compressed measurement while the gas spring is still installed in the application
- Always replace gas springs in pairs if there are two used in the application
- Install the new gas spring in the same orientation (rod and reservoir ends installed as they were originally)

Helpful Conversions

Newton to Pounds

Newton/4.448 = Force in Pounds

Pounds to Newton

Pounds * 4.448 = Force in Newtons

Millimeters to Inches

Millimeters/25.4 = Length in inches

Inches to Millimeters

Inches * 25.4 = Length in Millimeters

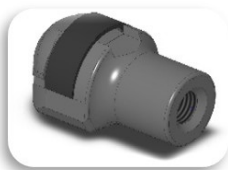
End Connector Identification



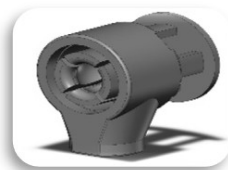
BSP
10mm Standard Plastic
Ball Socket M6/M8



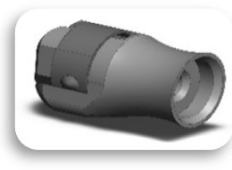
BSP Ø8
8mm Plastic Standard
Ball Socket



BSP Palio
10mm Compact Plastic
Ball Socket M6/M8



BSP PB
Push Button 10mm
Ball Socket



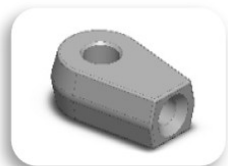
BSP WN
BSP WN 10mm Plastic
Ball Socket



BSS
Standard 10mm Steel
Ball Socket M6/M8



EYELET
Eyelet End Fitting M6/M8,
Various Diameters of the
Hole



ZAMAK
Zamak Eyelet End
Fitting M6/M8



BSP EZ
10mm Easy Release
Plastic Ball Socket



BSS Ø13
Standard 13mm Steel
Ball Socket M6/M8

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
610006	39.4	21.70	17.7	10	22	67.42	300	Eyelet End	Eyelet End Fitting
610033	35.2	19.20	16.1	10	22	84.27	375	Composite End 10mm	Composite End Fitting
610122	32.5	20.30	12.2	10	22	79.78	355	Metal End 13mm	Metal End Fitting
610139	31.3	18.50	12.8	10	22	112.36	500	Composite End 10mm	Composite End Fitting
610140	30.9	17.10	13.8	10	22	89.89	400	Composite End 10mm	Composite End Fitting
610145	29	16.00	13	10	22	149.44	665	Eyelet End	Composite End Fitting
610146	29	16.00	13	10	22	140.45	625	Eyelet End	Composite End Fitting
610147	29	16.00	13	10	22	120.22	535	Eyelet End	Composite End Fitting
610148	29	16.20	12.8	10	22	152.81	680	Metal End 10mm	Metal End Fitting
610188	30.3	17.20	13.1	10	22	191.01	850	Composite End 10mm	Composite End Fitting
610190	30.3	17.20	13.1	10	22	224.72	1000	Metal End 10mm	Metal End Fitting
610219	29.1	24.70	4.3	10	22	114.61	510	Composite End 10mm	Composite End Fitting
610228	29.5	17.10	12.4	10	22	84.94	378	Metal End 13mm	Metal End Fitting
610235	28.9	15.90	13	10	22	60.67	270	Threaded End	Threaded End
610236	28.9	15.90	13	10	22	13.48	60	Threaded End	Threaded End
610238	28.9	21.70	7.2	10	22	68.54	305	Special End	Special End Fitting
610240	28.9	20.90	8	10	22	184.27	820	Composite End 10mm	Composite End Fitting
610242	28.5	16.00	12.5	10	22	185.39	825	Composite End 10mm	Composite End Fitting
610276	29.1	19.90	9.3	10	22	146.07	650	Special End	Composite End Fitting
610314	28	15.50	12.5	10	22	122.47	545	Composite End 10mm	Composite End Fitting
610318	28	15.50	12.5	10	22	105.62	470	Composite End 10mm	Composite End Fitting
610328	28	15.50	12.5	10	22	149.44	665	Composite End 10mm	Composite End Fitting
610330	28	16.40	11.6	10	22	120	534	Metal End 13mm	Metal End 13mm
610331	28	16.40	11.6	10	22	101.12	450	Metal End 13mm	Metal End 13mm
610332	28	16.40	11.6	10	22	249.89	1112	Metal End 10mm	Metal End Fitting
610334	28	16.40	11.6	10	22	150.56	670	Metal End 13mm	Metal End 13mm
610335	28	16.40	11.6	10	22	200	890	Metal End 10mm	Metal End Fitting
610335	28	16.40	11.6	10	22	200	890	Metal End 10mm	Metal End Fitting
610338	28	16.40	11.6	10	22	210.11	935	Metal End 13mm	Metal End 13mm
610376	29	17.20	11.8	10	22	78.65	350	Metal End 13mm	Metal End 13mm
610402	27	15.20	11.8	10	22	56.18	250	Composite End 10mm	Composite End Fitting
610439	27	15.20	11.8	10	22	89.89	400	Composite End 10mm	Composite End Fitting
610440	27	15.20	11.8	10	22	157.3	700	Composite End 10mm	Composite End Fitting
610461	27	15.20	11.8	8	18	55.96	249	Eyelet End	Eyelet End Fitting
610468	27	15.20	11.8	10	22	67.42	300	Composite End 10mm	Composite End Fitting
610586	26	14.50	11.5	8	18	65.17	290	Composite End 10mm	Composite End Fitting
610587	26.3	15.40	10.8	8	18	56.18	250	Composite End 10mm	Composite End Fitting
610594	26.3	15.70	10.6	10	22	84.94	378	Metal End 13mm	Metal End 13mm
610599	26.3	15.40	10.8	10	22	84.94	378	Composite End 10mm	Composite End Fitting
610611	26.3	15.40	10.8	8	18	84.94	378	Composite End 10mm	Composite End Fitting
610620	26	14.60	11.4	8	18	81.57	363	Composite End 10mm	Composite End Fitting
610622	26	14.60	11.3	8	18	60.67	270	Composite End 10mm	Composite End Fitting
611254	23	13.20	9.8	8	18	22.47	100	Composite End 10mm	Composite End Fitting
611255	23	13.20	9.8	8	18	89.89	400	Composite End 10mm	Composite End Fitting

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
611263	23	13.20	9.8	8	18	134.83	600	Composite End 10mm	Composite End Fitting
611264	23	13.20	9.8	8	18	67.42	300	Composite End 10mm	Composite End Fitting
611267	23	13.20	9.8	8	18	44.94	200	Composite End 10mm	Composite End Fitting
611270	23	13.20	9.8	10	22	179.78	800	Composite End 10mm	Composite End Fitting
611271	23	13.20	9.8	8	18	89.89	400	Composite End 10mm	Composite End Fitting
611272	23	13.20	9.8	8	18	112.36	500	Composite End 10mm	Composite End Fitting
611273	23	13.20	9.8	10	22	157.3	700	Composite End 10mm	Composite End Fitting
611330	23.1	13.00	10.1	10	22	13.48	60	Threaded End	Threaded End
611336	23.1	13.00	10.1	10	22	13.48	60	Threaded End	Threaded End
611365	23	13.00	10	6	15	40	178	Composite End 10mm	Composite End Fitting
611380	23	12.80	10.1	8	18	13.48	60	Threaded End	Threaded End
611382	23	12.80	10.1	8	18	13.48	60	Threaded End	Threaded End
611410	23	12.50	10.5	8	18	112.36	500	Composite End 10mm	Composite End Fitting
611430	23	13.20	9.8	8	18	70.79	315	Composite End 10mm	Composite End Fitting
611519	23.5	13.60	9.8	10	22	11.24	50	Metal End 13mm	Metal End 13mm
611584	20.3	11.80	8.5	8	18	180	801	Composite End 10mm	Composite End Fitting
611586	20.3	11.80	8.5	8	18	180	801	Composite End 10mm	Composite End Fitting
611596	20.2	12.10	8.1	10	22	200	890	Metal End 13mm	Metal End 13mm
611690	22	13.00	9.1	10	22	152.81	680	Metal End 10mm	Metal End 10mm
611692	22	13.00	9.1	10	22	234.38	1043	Metal End 10mm	Metal End 10mm
611694	22	13.00	9.1	10	22	163.15	726	Metal End 10mm	Metal End 10mm
611754	21.7	13.30	8.4	8	18	60.67	270	Eyelet End	Metal End 10mm
611773	21.7	12.40	9.3	8	18	176.4	785	Metal End 10mm	Metal End 10mm
611777	21.7	12.40	9.3	8	18	102.25	455	Metal End 10mm	Metal End 10mm
611860	20	12.00	8	8	18	104.94	467	Composite End 10mm	Composite End Fitting
611926	20.7	12.00	8.7	8	18	134.83	600	Composite End 10mm	Composite End Fitting
611928	20.7	12.00	8.7	8	18	89.89	400	Composite End 10mm	Composite End Fitting
611931	20.7	12.00	8.7	8	18	67.42	300	Composite End 10mm	Composite End Fitting
611954	21.3	11.90	9.5	10	22	13.48	60	Threaded End	Threaded End
611956	21.3	11.90	9.5	10	22	13.48	60	Threaded End	Threaded End
612024	21	10.70	10.3	8	18	17.98	80	Threaded End	Threaded End
612035	21	10.70	10.3	8	18	17.98	80	Threaded End	Threaded End
612158	20.7	12.00	8.7	8	18	22.47	100	Composite End 10mm	Composite End Fitting
612159	20.7	12.00	8.7	8	18	179.78	800	Composite End 10mm	Composite End Fitting
612166	20.7	12.00	8.7	10	22	247.19	1100	Composite End 10mm	Composite End Fitting
612167	20.7	12.00	8.7	8	18	112.36	500	Composite End 10mm	Composite End Fitting
612293	20	12.00	8	6	15	20	89	Composite End 10mm	Composite End Fitting
612297	20	12.00	8	6	15	40	178	Composite End 10mm	Composite End Fitting
612299	20	12.00	8	6	15	54.83	244	Composite End 10mm	Composite End Fitting
612301	20	12.00	8	8	18	120	534	Composite End 10mm	Composite End Fitting
612303	20	12.00	8	8	18	149.89	667	Composite End 10mm	Composite End Fitting
612305	20	12.00	8	8	18	80	356	Composite End 10mm	Composite End Fitting
612313	20	12.00	8	6	15	29.89	133	Composite End 10mm	Composite End Fitting
612317	20	12.00	8	6	15	89.89	400	Composite End 10mm	Composite End Fitting

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
612321	20	12.00	8	6	15	60	267	Composite End 10mm	Composite End Fitting
612335	20	11.50	8.5	6	15	40	178	Composite End 10mm	Composite End Fitting
612336	20	11.50	8.5	6	15	114.16	508	Composite End 10mm	Composite End Fitting
612338	21	13.10	7.9	8	18	40	178	Composite End 10mm	Composite End Fitting
612363	19.9	12.00	7.9	10	22	67.42	300	Metal End 10mm	Metal End 10mm
612374	20	11.50	8.5	8	18	29.21	130	Composite End 10mm	Composite End Fitting
612401	19.7	11.80	7.9	8	18	150.56	670	Composite End 10mm	Composite End Fitting
612405	19.7	11.80	7.9	8	18	95.51	425	Composite End 10mm	Composite End Fitting
612409	19.7	11.80	7.9	8	18	59.55	265	Composite End 10mm	Composite End Fitting
612413	19.7	11.80	7.9	8	18	51.01	227	Composite End 10mm	Composite End Fitting
612416	19.7	11.80	7.9	8	18	121.35	540	Composite End 10mm	Composite End Fitting
612452	17	10.90	6.1	8	18	65.17	290	Composite End 10mm	Composite End Fitting
612518	19.7	11.30	8.4	8	18	105.62	470	Composite End 10mm	Composite End Fitting
612522	19.7	11.30	8.4	8	18	75.28	335	Composite End 10mm	Composite End Fitting
612523	19.7	11.30	8.4	8	18	84.94	378	Composite End 10mm	Composite End Fitting
612556	19.5	11.40	8.1	8	18	60	267	Composite End 10mm	Composite End Fitting
612580	21	12.70	8.3	8	18	67.42	300	Composite End 10mm	Composite End Fitting
612582	19.7	11.20	8.5	8	18	124.72	555	Composite End 10mm	Composite End Fitting
612652	19.5	11.40	8.1	8	18	114.61	510	Composite End 10mm	Composite End Fitting
612654	19.5	11.40	8.1	8	18	79.78	355	Composite End 10mm	Composite End Fitting
612706	19.5	11.60	7.9	14	27	292.13	1300	Special End	Special End Fitting
612799	19	10.70	8.3	8	18	60.67	270	Threaded End	Threaded End
612806	19	10.90	8.1	10	22	78.65	350	Threaded End	Threaded End
612808	19	10.70	8.3	8	18	60.67	270	Threaded End	Threaded End
612812	19	10.90	8.1	10	22	78.65	350	Threaded End	Threaded End
612816	19	11.20	7.9	8	18	87.64	390	Composite End 10mm	Composite End Fitting
612817	19.1	11.00	8.1	8	18	149.89	667	Composite End 10mm	Composite End Fitting
612840	19.1	11.10	8.1	8	18	111.91	498	Composite End 10mm	Composite End Fitting
612847	19.1	11.20	7.9	8	18	44.94	200	Composite End 10mm	Composite End Fitting
612848	19.1	11.20	7.9	8	18	112.36	500	Composite End 10mm	Composite End Fitting
612874	18.5	10.80	7.7	8	18	116.85	520	Composite End 10mm	Composite End Fitting
612876	18.5	10.80	7.7	8	18	98.88	440	Composite End 10mm	Composite End Fitting
612880	18.5	10.80	7.7	8	18	62.92	280	Composite End 10mm	Composite End Fitting
612882	18.5	10.80	7.7	8	18	49.44	220	Composite End 10mm	Composite End Fitting
612884	18.5	10.80	7.7	8	18	35.06	156	Composite End 10mm	Composite End Fitting
612932	19.1	11.20	7.9	8	18	67.42	300	Composite End 10mm	Composite End Fitting
612935	18.5	11.00	7.5	8	18	98.88	440	Composite End 10mm	Composite End Fitting
612954	18.5	10.70	7.7	8	18	114.61	510	Composite End 10mm	Composite End Fitting
612955	18.5	10.70	7.7	8	18	95.51	425	Composite End 10mm	Composite End Fitting
612956	18.5	10.70	7.7	8	18	78.65	350	Composite End 10mm	Composite End Fitting
612958	18.5	10.70	7.7	8	18	60.67	270	Composite End 10mm	Composite End Fitting
612959	18.5	10.70	7.7	8	18	44.94	200	Composite End 10mm	Composite End Fitting
612960	18.5	10.70	7.7	8	18	30.34	135	Composite End 10mm	Composite End Fitting
613058	15	9.00	6	8	18	129.89	578	Composite End 10mm	Composite End Fitting

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
613081	17.9	11.00	6.9	10	22	89.89	400	Metal End 10mm	Metal End 10mm
613083	15.9	9.60	6.3	8	18	89.89	400	Composite End 10mm	Composite End Fitting
613085	17.5	10.40	7.1	8	18	112.36	500	Composite End 10mm	Composite End Fitting
613086	17.5	10.40	7.1	8	18	44.94	200	Composite End 10mm	Composite End Fitting
613087	15.9	9.60	6.3	8	18	33.71	150	Composite End 10mm	Composite End Fitting
613088	15.9	9.60	6.3	8	18	67.42	300	Composite End 10mm	Composite End Fitting
613102	17.5	10.40	7.1	8	18	67.42	300	Composite End 10mm	Composite End Fitting
613103	17.5	10.40	7.1	8	18	89.89	400	Composite End 10mm	Composite End Fitting
613104	17.5	10.40	7.1	8	18	134.83	600	Composite End 10mm	Composite End Fitting
613106	17.5	10.40	7.1	8	18	157.3	700	Composite End 10mm	Composite End Fitting
613154	17.5	10.80	6.8	8	18	179.78	800	Eyelet End	Eyelet End Fitting
613168	17.3	10.30	7	8	18	100	445	Composite End 10 & 8mm	Composite End Fitting
613217	17.2	11.00	6.2	8	18	124.94	556	Composite End 10mm	Composite End Fitting
613218	17.2	10.10	7.1	8	18	29.21	130	Composite End 10mm	Composite End Fitting
613221	17.2	11.00	6.2	8	18	100	445	Composite End 10mm	Composite End Fitting
613224	17.2	10.10	7.1	8	18	146.07	650	Composite End 10mm	Composite End Fitting
613225	17.2	11.00	6.2	8	18	69.89	311	Composite End 10mm	Composite End Fitting
613229	17.2	11.00	6.2	8	18	55.06	245	Composite End 10mm	Composite End Fitting
613233	17.2	10.70	6.5	8	18	40	178	Composite End 10mm	Composite End Fitting
613245	18.5	12.20	6.3	6	15	89.89	400	Composite End 10mm	Composite End Fitting
613246	18.5	12.20	6.3	6	15	120	534	Composite End 10mm	Composite End Fitting
613249	18.5	12.20	6.3	6	15	60	267	Composite End 10mm	Composite End Fitting
613253	18.5	12.20	6.3	6	15	75.06	334	Composite End 10mm	Composite End Fitting
613257	18.5	12.20	6.3	6	15	29.89	133	Composite End 10mm	Composite End Fitting
613261	18.5	12.20	6.3	6	15	44.94	200	Composite End 10mm	Composite End Fitting
613268	17	10.00	7	8	18	143.82	640	Composite End 10mm	Composite End Fitting
613272	17	10.00	7	8	18	98.88	440	Composite End 10mm	Composite End Fitting
613274	17	10.00	7	8	18	84.27	375	Composite End 10mm	Composite End Fitting
613276	17	10.00	7	8	18	40.45	180	Composite End 10mm	Composite End Fitting
613277	17	11.00	6	6	15	89.89	400	Composite End 10mm	Composite End Fitting
613278	17	10.60	6.4	6	15	30.34	135	Composite End 10mm	Composite End Fitting
613281	17	11.00	6	6	15	49.89	222	Composite End 10mm	Composite End Fitting
613282	17	11.00	6	6	15	20	89	Composite End 10mm	Composite End Fitting
613283	17	11.00	6	6	15	60	267	Composite End 10mm	Composite End Fitting
613284	17	10.00	7	8	18	24.72	110	Composite End 10mm	Composite End Fitting
613285	17	11.00	6	6	15	29.89	133	Composite End 10mm	Composite End Fitting
613286	17	11.00	6	8	18	149.89	667	Composite End 10mm	Composite End Fitting
613287	17	11.00	6	8	18	120	534	Composite End 10mm	Composite End Fitting
613288	17	10.00	7	6	15	30.34	135	Composite End 10mm	Composite End Fitting
613292	16.1	9.80	6.3	8	18	249.66	1111	Composite End 10mm	Composite End Fitting
613344	16.9	9.80	7.1	8	18	13.48	60	Threaded End	Threaded End
613346	16.9	9.80	7.1	8	18	13.48	60	Threaded End	Threaded End
613378	16	10.20	5.8	8	18	111.91	498	Composite End 10mm	Composite End Fitting
613380	16	9.50	6.5	8	18	78.65	350	Composite End 10mm	Composite End Fitting

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
613398	16	9.70	6.3	8	18	61.12	272	Composite End 10mm	Composite End Fitting
613405	15.2	9.10	6.1	8	18	120	534	Composite End 10mm	Composite End Fitting
613408	16	9.50	6.5	8	18	65.17	290	Composite End 10mm	Composite End Fitting
613409	15.9	9.40	6.5	8	18	149.89	667	Composite End 10mm	Composite End Fitting
613412	16	9.50	6.5	8	18	35.96	160	Composite End 10mm	Composite End Fitting
613481	15	8.70	6.3	6	15	29.89	133	Composite End 10mm	Composite End Fitting
613485	15	8.70	6.3	6	15	80	356	Composite End 10mm	Composite End Fitting
613487	15	9.40	5.6	6	15	30.34	135	Eyelet End	Eyelet End Fitting
613489	15	9.30	5.7	6	15	44.94	200	Composite End 10mm	Composite End Fitting
613503	15	9.50	5.5	6	15	20	89	Eyelet End	Eyelet End Fitting
613515	15.2	11.00	4.3	6	15	80	356	Composite End 10mm	Composite End Fitting
613522	15	9.00	6	8	18	143.82	640	Composite End 10mm	Composite End Fitting
613524	15	9.00	6	6	15	71.91	320	Composite End 10mm	Composite End Fitting
613529	15	9.30	5.7	6	15	26.07	116	Composite End 10mm	Composite End Fitting
613533	15	9.50	5.5	6	15	60	267	Composite End 10mm	Composite End Fitting
613536	15	8.90	6.1	8	18	60.67	270	Threaded End	Threaded End
613540	15	8.90	6.1	8	18	60.67	270	Threaded End	Threaded End
613548	15	9.00	6	6	15	49.44	220	Composite End 10mm	Composite End Fitting
613550	15	9.00	6	6	15	40.45	180	Composite End 10mm	Composite End Fitting
613552	15	9.00	6	6	15	35.96	160	Eyelet End	Eyelet End Fitting
613558	15	9.00	6	6	15	33.71	150	Composite End 10mm	Composite End Fitting
613597	14.5	9.30	5.2	8	18	89.89	400	Composite End 10mm	Composite End Fitting
613601	14.5	9.00	5.5	8	18	24.94	111	Composite End 10mm	Composite End Fitting
613603	15.2	8.70	6.5	8	18	149.44	665	Composite End 10mm	Composite End Fitting
613604	12	8.50	3.5	8	18	120.22	535	Composite End 10mm	Composite End Fitting
613605	12	8.50	3.5	8	18	150.56	670	Composite End 10mm	Composite End Fitting
613615	14.5	11.50	3	6	15	35.06	156	Composite End 10mm	Composite End Fitting
613616	14.5	8.30	6.2	8	18	120.22	535	Composite End 10mm	Composite End Fitting
613617	14.5	9.30	5.2	8	18	100	445	Composite End 10mm	Composite End Fitting
613620	14.5	8.50	6	8	18	75.28	335	Composite End 10mm	Composite End Fitting
613623	14.5	9.50	5	6	15	80	356	Composite End 10mm	Composite End Fitting
613625	14.5	9.30	5.2	8	18	60.67	270	Composite End 10mm	Composite End Fitting
613627	17.5	10.30	7.2	8	18	120	534	Eyelet End	Eyelet End Fitting
613629	14.5	9.30	5.2	8	18	44.94	200	Composite End 10mm	Composite End Fitting
613633	14.5	8.80	5.7	8	18	32.58	145	Composite End 10mm	Composite End Fitting
613650	14.5	9.00	5.5	10	22	224.72	1000	Composite End 10mm	Composite End Fitting
613661	10	6.10	3.9	6	15	80	356	Composite End 10mm	Composite End Fitting
613672	14.4	8.90	5.5	8	18	33.71	150	Eyelet End	Eyelet End Fitting
613704	14	8.30	5.8	8	18	130.34	580	Composite End 10mm	Composite End Fitting
613726	14	8.50	5.5	8	18	66.29	295	Composite End 10mm	Composite End Fitting
613728	14	8.60	5.4	8	18	37.08	165	Composite End 10mm	Composite End Fitting
613735	13.7	8.10	5.6	6	15	56.18	250	Composite End 10mm	Composite End Fitting
613760	14	8.40	5.6	8	18	122.47	545	Composite End 10mm	Composite End Fitting
613782	13	7.90	5.1	8	18	17.98	80	Threaded End	Threaded End

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
613784	13	7.90	5.1	8	18	17.98	80	Threaded End	Threaded End
613788	13	8.00	5	6	15	65.17	290	Composite End 10mm	Composite End Fitting
613791	13	7.90	5.1	8	18	116.85	520	Composite End 10mm	Composite End Fitting
613792	13	8.00	5	6	15	25.17	112	Composite End 10mm	Composite End Fitting
613796	13	8.00	5	6	15	101.12	450	Composite End 10mm	Composite End Fitting
613797	13.1	7.80	5.3	8	18	111.24	495	Eyelet End	Eyelet End Fitting
613798	13	8.00	5	8	18	159.55	710	Composite End 10mm	Composite End Fitting
613799	13	8.00	5	8	18	65.17	290	Composite End 10mm	Composite End Fitting
613816	13	7.90	5.1	8	18	171.91	765	Composite End 10mm	Composite End Fitting
613823	13	7.90	5.1	6	15	55.06	245	Composite End 10mm	Composite End Fitting
613834	12.8	8.10	4.7	8	18	44.94	200	Composite End 10mm	Composite End Fitting
613835	12.8	8.10	4.7	8	18	89.89	400	Composite End 10mm	Composite End Fitting
613848	13	8.00	5	6	15	35.96	160	Composite End 10mm	Composite End Fitting
613854	12.5	7.80	4.7	8	18	66.29	295	Composite End 10mm	Composite End Fitting
613919	12	7.50	4.5	8	18	42.7	190	Composite End 10mm	Composite End Fitting
613924	12.8	8.10	4.7	8	18	30.56	136	Composite End 10mm	Composite End Fitting
613929	12	8.10	3.9	8	18	100	445	Composite End 10mm	Composite End Fitting
613933	12	8.10	3.9	6	15	80	356	Composite End 10mm	Composite End Fitting
613937	12	8.10	3.9	6	15	40	178	Composite End 10mm	Composite End Fitting
613941	12	8.50	3.5	6	15	20	89	Composite End 10mm	Composite End Fitting
613945	12	8.50	3.5	6	15	60	267	Composite End 10mm	Composite End Fitting
613949	12	8.50	3.5	6	15	29.89	133	Composite End 10mm	Composite End Fitting
613950	12	7.90	4.1	6	15	34.83	155	Composite End 10mm	Composite End Fitting
613954	14.4	8.90	5.5	8	18	67.42	300	Composite End 10mm	Composite End Fitting
613957	12	8.10	3.9	8	18	110.11	490	Composite End 10mm	Composite End Fitting
613961	12	8.10	3.9	8	18	89.89	400	Composite End 10mm	Composite End Fitting
613965	12	8.10	3.9	8	18	69.89	311	Composite End 10mm	Composite End Fitting
613969	12	8.10	3.9	8	18	55.06	245	Composite End 10mm	Composite End Fitting
613973	12	8.10	3.9	8	18	30.34	135	Composite End 10mm	Composite End Fitting
614016	11.8	7.30	4.5	6	15	67.42	300	Composite End 8mm	Composite End 8mm
614053	10	6.10	3.9	6	15	60.67	270	Composite End 10mm	Composite End Fitting
614138	11	7.00	4	6	15	69.66	310	Composite End 10mm	Composite End Fitting
614139	11	7.00	4	6	15	35.96	160	Composite End 10mm	Composite End Fitting
614140	11	7.00	4	6	15	24.72	110	Composite End 10mm	Composite End Fitting
614146	11	7.00	4	6	15	75.28	335	Composite End 10mm	Composite End Fitting
614152	11	7.00	4	6	15	35.96	160	Composite End 10mm	Composite End Fitting
614154	11	7.00	4	6	15	31.01	138	Composite End 10mm	Composite End Fitting
614162	11	7.00	3.9	8	18	35.73	159	Composite End 10mm	Composite End Fitting
614186	10	6.50	3.5	8	18	120.22	535	Composite End 10mm	Composite End Fitting
614202	10	6.50	3.5	6	15	81.57	363	Composite End 10mm	Composite End Fitting
614204	10	6.50	3.5	6	15	64.27	286	Composite End 10mm	Composite End Fitting
614216	10	6.50	3.5	6	15	84.49	376	Composite End 10mm	Composite End Fitting
614258	10	6.10	3.9	6	15	25.84	115	Composite End 10mm	Composite End Fitting
614260	11.2	7.40	3.8	6	15	15.73	70	Composite End 10mm	Composite End Fitting

Tuff Support	Extended	Compressed	Stroke	ROD Ø mm	TUBE Ø mm	F (Lbs)	F (N)	Rod End Format	Tube End Format
	Length (Inch)								
614261	10	7.00	3	6	15	20	89	Eyelet End	Eyelet End Fitting
614263	11	7.00	4	8	18	110.11	490	Composite End 10mm	Composite End Fitting
614264	14	8.60	5.4	8	18	25.17	112	Composite End 10mm	Composite End Fitting
614265	10	6.80	3.2	6	15	80	356	Eyelet End	Eyelet End Fitting
614267	10	6.80	3.2	6	15	20.22	90	Composite End 10mm	Composite End Fitting
614269	10	6.80	3.2	6	15	60	267	Eyelet End	Eyelet End Fitting
614272	11.9	8.10	3.8	8	18	124.94	556	Composite End 10mm	Composite End Fitting
614273	10	6.80	3.2	6	15	40	178	Eyelet End	Eyelet End Fitting
614280	10	6.50	3.5	8	18	174.16	775	Composite End 10mm	Composite End Fitting
614282	10	7.00	3	10	22	188.76	840	Composite End 10mm	Composite End Fitting
614285	10	6.30	3.7	8	18	78.88	351	Composite End 10mm	Composite End Fitting
614289	10	6.80	3.2	6	15	110.11	490	Eyelet End	Eyelet End Fitting
614291	10	6.60	3.4	6	15	34.83	155	Composite End 10mm	Composite End Fitting
614293	10	6.80	3.2	6	15	89.89	400	Eyelet End	Eyelet End Fitting
614294	10	6.50	3.5	6	15	55.06	245	Composite End 10mm	Composite End Fitting
614297	10	6.80	3.2	6	15	69.89	311	Eyelet End	Eyelet End Fitting
614301	10	6.80	3.2	6	15	50.56	225	Eyelet End	Eyelet End Fitting
614303	10	6.40	3.6	6	15	100	445	Composite End 10mm	Composite End Fitting
614304	10	6.40	3.6	6	15	100	445	Eyelet End	Eyelet End Fitting
614305	10	6.80	3.2	6	15	25.84	115	Eyelet End	Eyelet End Fitting
614307	10	6.40	3.6	6	15	40	178	Composite End 10mm	Composite End Fitting
614322	10	6.50	3.5	6	15	49.44	220	Composite End 10mm	Composite End Fitting
614356	6.9	5.10	1.8	8	18	44.94	200	Composite End 10mm	Composite End Fitting
614364	9.7	6.50	3.2	8	18	67.42	300	Composite End 10mm	Composite End Fitting
614374	9.6	6.50	3.2	8	18	89.89	400	Composite End 10mm	Composite End Fitting
614375	9.6	6.50	3.2	6	15	79.78	355	Composite End 10mm	Composite End Fitting
614386	9.6	6.50	3.2	6	15	64.94	289	Composite End 10mm	Composite End Fitting
614388	8	5.40	2.6	6	15	69.66	310	Eyelet End	Eyelet End Fitting
614470	7.5	5.40	2.1	6	15	44.94	200	Composite End 10mm	Composite End Fitting
614471	7.5	5.40	2.1	6	15	24.94	111	Composite End 10mm	Composite End Fitting
614473	7.5	5.50	2	6	15	20	89	Composite End 10mm	Composite End Fitting
614475	7.5	5.30	2.2	6	15	60.67	270	Composite End 10mm	Composite End Fitting
614477	7.5	5.50	2	6	15	80	356	Composite End 10mm	Composite End Fitting
614480	7.5	5.30	2.2	6	15	34.83	155	Composite End 10mm	Composite End Fitting
614481	7.5	5.50	2	6	15	40	178	Composite End 10mm	Composite End Fitting
614488	7.4	5.10	2.4	6	15	76.4	340	Composite End 10mm	Composite End Fitting
614493	5.9	3.70	2.2	6	15	33.71	150	Metal End 8mm	Metal End 8mm
614494	4.7	3.70	1	6	15	33.71	150	Metal End 8mm	Metal End 8mm
614496	6.5	4.90	1.6	6	15	11.24	50	Metal End 10mm	Metal End 10mm
616275	23	13.40	9.7	8	18	35.96	160	Metal End 10mm	Metal End
618947	12	7.60	4.4	8	18	60	267	Composite End 10mm	Composite End Fitting

