



T3T Series

T3T-350 to T3T-9500

High Force Gas Springs



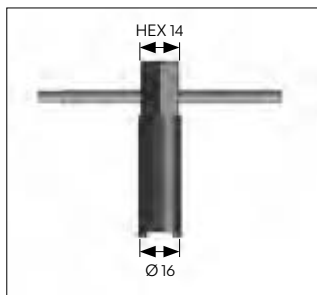
Product Value

- Deeper threads provide more secure mounting.
- Larger port provides higher nitrogen flow for quicker charge and discharge.
- T3T 350-750 models offer the most versatility with dual M6/G 1/8 port. This enables springs to be connected with DualSeal 24 or Micro24 hose systems.

Product Features

- Nine models with contact forces from 810 to 21,360 lbf.
- Extended stroke lengths to 125 mm/4.92 in.
- Variety of mounting options available.
- M6 port standard for 350, 500 and 750 models. G 1/8 port available with M6 port removal using valve plug tool below.

Valve Plug Tool



Valve Plug Installation Tool,
Models T3T-350, 500 and 750 only
Order No. 3022974



Product Specifications

Pressure medium	Nitrogen
Min. charging pressure	25 bar
Max. charging pressure	150 bar
Max. charging pressure for T3T-350 only.....	180 bar
Operating temperature	0° to 80°C
Force increase by temperature	±0.3% per °C
Recommended max strokes/min	~30-100 @20 °C
Max piston rod velocity	1.6 m/s
Valve Inlet	
1000, 9500	56-072-5500
350, 500, 1500, 6600, 2400 and T3T-750.....	4018112
Charge fitting	
T3T-350, T3T-500 and T3T-750	T2-770-T3
T3T-1000, T3T-1500, T3T-2400, T3T-6600 and T3T-9500.....	T2-770-G1/8-P

Ordering Options

T3T-1500	X	50
Model		Stroke (mm)
T3T-350		See
T3T-500		Dimensional
T3T-750		Information
T3T-1000		Charts
T3T-1500		
T3T-2400		
T3T-4200		
T3T-6600		
T3T-9500		

Repair Kits

Gas Spring	Repair Kit Order Number
T3T-350	3318845
T3T-500	3318846
T3T-750	3319903
T3T-1000	3318847
T3T-1500	3320434
T3T-2400	3318848
T3T-4200	3318849
T3T-6600	3319912
T3T-9500	3320614

Note: The T3-2400x16 and T3-2400x19 are not possible to repair.

Gas Spring Model	Page		
T3T-350	92	T3T-2400	102
T3T-500	94	T3T-4200	104
T3T-750	96	T3T-6600	106
T3T-1000	98	T3T-9500	108
T3T-1500	100		

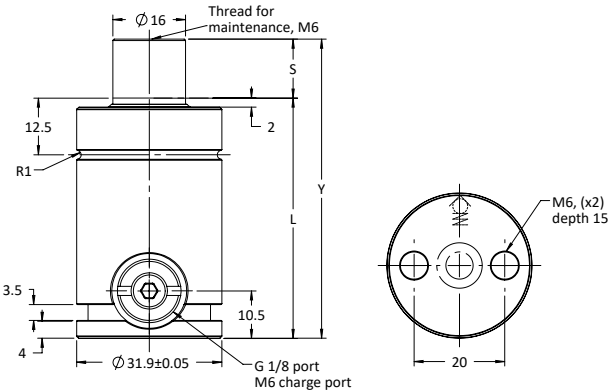
T3T-350 provides full stroke force between 5,200 N (1,190 lbf) and 5,900 N (1,330 lbf) and is available in 13 stroke lengths.

Strokes 38, 50, and 63 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	180 bar
Contact Force at max. pressure (N)	3600
Contact Force at max. pressure (lbf)	810
Recommended max strokes/min (at 20°C)	~ 50-100
Cylinder diameter (mm)	32
Charge port	M6, G 1/8"
Repair kit	3318845
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2610 psi at 68°F				Y ±0.25	Y ±0.010	L				
	mm	in	N	lbf.	mm	lbf.	N	ln	mm	in	ℓ	kg	lb
Preferred Stroke Lengths (optimal delivery)													
T3T-350x38	38	1.50	3,600	810	5,500	1,240	116	5.57	78	3.07	0.03	0.31	0.683
T3T-350x50	50	1.97			5,600	1,260	140	5.51	90	3.54	0.03	0.35	0.772
T3T-350x63	63	2.48			5,500	1,260	166	6.53	103	4.06	0.04	0.39	0.860
Alternative Stroke Lengths													
T3T-350x10	10	0.39	3,600	810	5,900	1,330	60	2.36	50	1.97	0.01	0.23	0.507
T3T-350x13	13	0.51			5,200	1,190	66	2.60	53	2.09	0.01	0.23	0.507
T3T-350x16	16	0.63			5,300	1,210	72	2.83	56	2.20	0.01	0.24	0.529
T3T-350x19	19	0.75			5,600	1,260	78	3.07	59	2.32	0.01	0.25	0.551
T3T-350x25	25	0.98			5,500	1,260	90	3.54	65	2.56	0.02	0.27	0.595
T3T-350x32	32	1.26			5,500	1,260	104	4.09	72	2.83	0.02	0.29	0.639
T3T-350x75	75	2.95			5,500	1,260	190	7.48	115	4.53	0.05	0.43	0.948
T3T-350x80	80	3.15			5,500	1,240	200	7.87	120	4.72	0.05	0.44	0.970
T3T-350x100	100	3.94			5,500	1,240	240	9.45	140	5.51	0.06	0.50	1.102
T3T-350x125	125	4.92			5,500	1,240	290	11.42	165	6.50	0.08	0.58	1.279

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



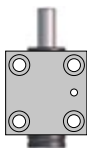
Mounting Possibilities



Body $\varnothing \begin{smallmatrix} +0.5 \\ -0.0 \end{smallmatrix}$
Top mount
FC, FCS



Foot mount
FFC



Body mount
HMF, S

Recommended Flanges



FC-350

235



FCS-32

238



FFC-T3T-350

240



HMF-150

243

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

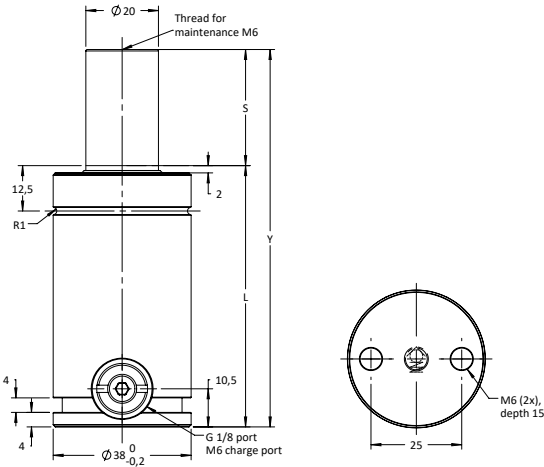
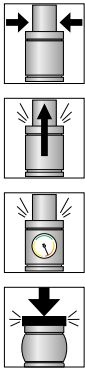
T3T-500 provides full stroke force between 7,100 N (1,600 lbf) and 7,400 N (1,660 lbf) and is available in 13 stroke lengths.

Strokes 38, 50, and 63 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	4700
Contact Force at max. pressure (lbf)	1055
Recommended max strokes/min (at 20°C)	~ 50-100
Cylinder diameter (mm)	38
Charge port	M6, G 1/8"
Repair kit	3318846
Operating temperature	20 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L				
	mm	in	N	lbf.	mm	lbf.	N	ln	mm	in	ℓ	kg	lb
Preferred Stroke Lengths (optimal delivery)													
T3T-500x38	38	1.50	4,700	1,055	7,200	1,620	116	4.57	78	3.07	0.04	0.44	0.970
T3T-500x50	50	1.97			7,200	1,620	140	5.51	90	3.54	0.05	0.49	1.080
T3T-500x63	63	2.48			7,200	1,620	166	6.53	103	4.05	0.06	0.54	1.190
Alternative Stroke Lengths													
T3T-500x10	10	0.39	4,700	1,055	7,200	1,620	60	2.36	50	1.97	0.01	0.33	0.728
T3T-500x13	13	0.51			7,100	1,600	66	2.59	53	2.09	0.01	0.34	0.750
T3T-500x16	16	0.63			7,200	1,620	72	2.83	56	2.20	0.02	0.36	0.794
T3T-500x19	19	0.75			7,400	1,660	78	3.07	59	2.32	0.02	0.37	0.816
T3T-500x25	25	0.98			7,300	1,640	90	3.54	65	2.56	0.03	0.39	0.860
T3T-500x32	32	1.26			7,200	1,620	104	4.09	72	2.83	0.03	0.42	0.926
T3T-500x75	75	2.95			7,100	1,600	190	7.48	115	4.53	0.07	0.58	1.279
T3T-500x80	80	3.15			7,100	1,600	200	7.87	120	4.72	0.08	0.60	1.323
T3T-500x100	100	3.94			7,100	1,600	240	9.45	140	5.51	0.10	0.68	1.499
T3T-500x125	125	4.92			7,100	1,600	290	11.42	165	4.50	0.12	0.77	1.698

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



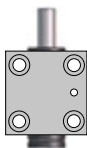
Mounting Possibilities



Body $\varnothing_{\pm 0.5}^{+0.5}$
Top mount
FC, FCS



Foot mount
FFC, LM-lug,
L



Body mount
HMF

Recommended Flanges



FC-250



235



FCS-250



238



FFC-T3T-250



240



HMF-250



243

Additional Flanges



FCSC-250



239



LM-LUG-250



242



L-250



244

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

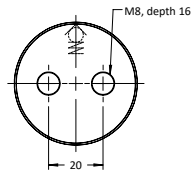
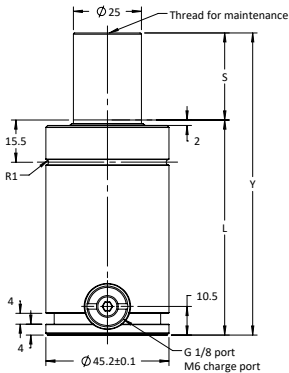
T3T-750 provides full stroke force between 11,700 N (2,630 lbf) and 12,100 N (2,720 lbf) and is available in 13 stroke lengths.

Strokes 38, 50, and 63 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	7400
Contact Force at max. pressure (lbf)	1665
Recommended max strokes/min (at 20°C)	~ 50-100
Cylinder diameter (mm)	45
Charge port	M6, G 1/8"
Repair kit	3319903
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L			ℓ	kg
	mm	in	N	lbf.	mm	lbf.	N	In	mm	in			
Preferred Stroke Lengths (optimal delivery)													
T3T-750x38	38	1.50	7,400	1,665	11,800	2,650	123	4.84	85	3.35	0.05	0.70	1.543
T3T-750x50	50	1.97			11,800	2,650	147	5.79	97	3.82	0.07	0.78	1.720
T3T-750x63	63	2.48			11,800	2,650	173	6.81	110	4.33	0.09	0.86	1.896
Alternative Stroke Lengths													
T3T-750x10	10	0.39	7,400	1,665	12,100	2,720	67	2.64	57	2.24	0.02	0.53	1.168
T3T-750x13	13	0.51			12,100	2,720	73	2.87	60	2.36	0.02	0.55	1.213
T3T-750x16	16	0.63			12,100	2,720	79	3.11	63	2.48	0.03	0.57	1.257
T3T-750x19	19	0.75			11,700	2,630	85	3.35	66	2.60	0.03	0.58	1.279
T3T-750x25	25	0.98			11,800	2,650	97	3.82	72	2.83	0.04	0.62	1.367
T3T-750x32	32	1.26			11,800	2,650	111	4.37	79	3.11	0.05	0.66	1.455
T3T-750x75	75	2.95			11,900	2,675	197	7.76	122	4.40	0.10	0.93	2.050
T3T-750x80	80	3.15			11,900	2,675	207	8.15	127	5.00	0.11	0.97	2.138
T3T-750x100	100	3.94			11,900	2,675	247	9.72	147	5.79	0.13	1.09	2.403
T3T-750x125	125	4.92			11,900	2,675	297	11.69	172	6.77	0.17	1.25	2.756

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



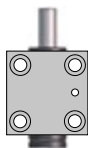
Mounting Possibilities



Body $\varnothing \begin{smallmatrix} 9.5 \\ +0.0 \\ -0.0 \end{smallmatrix}$
Top mount
FC, FCS
FCSC



Foot mount
FFC, LM-lug



Body mount
HMF

Recommended Flanges



FC-500



235



FCS-500



238



FFC-500



240



HMF-500



243

Additional Flanges



FCSC-500



239



LM-LUG-500



242

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

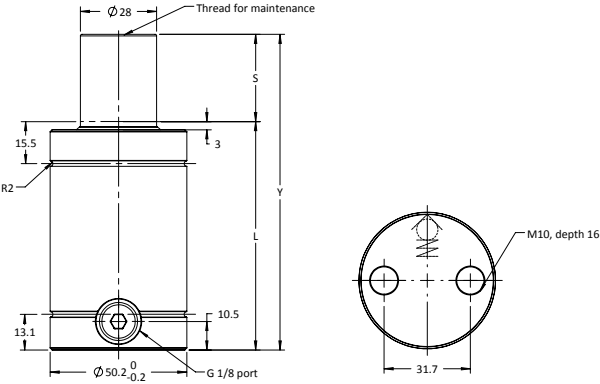
T3T-1000 provides full stroke force between 13,800 N (3,105 lbf) and 14,800 N (3,325 lbf) and is available in 12 stroke lengths.

Strokes 38, 50, and 63 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	9200
Contact Force at max. pressure (lbf)	2068
Recommended max strokes/min (at 20°C)	~ 50-100
Cylinder diameter (mm)	50
Charge port	G 1/8"
Repair kit	3318847
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L			kg	lb
	mm	in	N	lbf.	mm	lbf.	N	In	mm	In	ℓ		
Preferred Stroke Lengths (optimal delivery)													
T3T-1000x38	38	1.50	9,200	2,070	14,500	3,260	128	5.04	90	3.54	0.07	0.92	2.028
T3T-1000x50	50	1.97			14,600	3,280	152	5.98	102	4.02	0.09	1.02	2.249
T3T-1000x63	63	2.48			14,700	3,305	178	7.01	115	4.53	0.11	1.12	2.469
Alternative Stroke Lengths													
T3T-1000x13	13	0.51	9,200	2,070	13,800	3,105	78	3.07	65	2.56	0.03	0.73	1.609
T3T-1000x16	16	0.63			13,800	3,105	84	3.31	68	2.68	0.04	0.75	1.653
T3T-1000x19	19	0.75			14,000	3,145	90	3.54	71	2.80	0.04	0.77	1.698
T3T-1000x25	25	0.98			14,200	3,190	102	4.02	77	3.03	0.05	0.82	1.808
T3T-1000x32	32	1.26			14,300	3,215	116	4.57	84	3.31	0.06	0.88	1.940
T3T-1000x75	75	2.95			14,700	3,305	202	7.95	127	5.00	0.13	1.22	2.690
T3T-1000x80	80	3.15			14,800	3,325	212	8.35	132	5.20	0.14	1.26	2.778
T3T-1000x100	100	3.94			14,800	3,325	252	9.92	152	5.98	0.17	1.42	3.131
T3T-1000x125	125	4.92			14,800	3,325	302	11.89	177	6.97	0.21	1.61	3.549

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



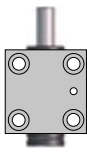
Mounting Possibilities



Body $\varnothing^{+0.5}_{-2.0}$
Top mount
FC, FCS,
FCSC



Foot mount
SF



Body mount
HMF, S

Recommended Flanges



FC-750



235



FCS-750



238



HMF-1000



243



S-750



248

Additional Flanges



FCSC-750



239



SF-750



249

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

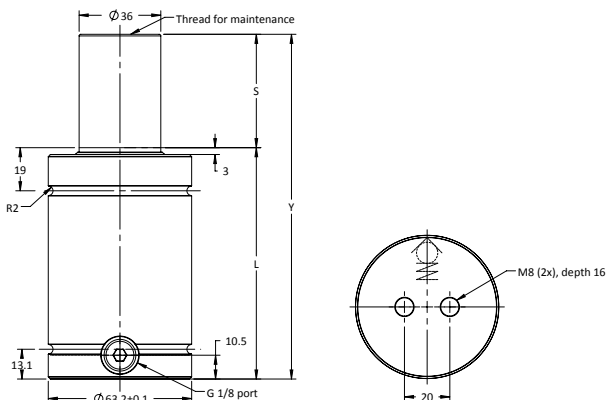
T3T-1500 provides full stroke force between 14,700 N (5,420 lbf) and 24,300 N (5,365 lbf) and is available in 12 stroke lengths.

Strokes 38, 50, and 63 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	15000
Contact Force at max. pressure (lbf)	3375
Recommended max strokes/min (at 20°C)	~ 50-100
Cylinder diameter (mm)	63
Charge port	G 1/8"
Repair kit	3320434
Operating temperature	20 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F		mm	lbf.	Y ±0.25	Y ±0.010	L			ℓ	kg
	mm	in	N	lbf.			N	In	mm	in			
Preferred Stroke Lengths (optimal delivery)													
T3T-1500x38	38	1.50	15,000	3,375	23,900	5,375	128	5.04	90	3.54	0.12	1.42	3.131
T3T-1500x50	50	1.97			24,000	5,395	152	5.98	102	4.02	0.15	1.55	3.417
T3T-1500x63	63	2.48			14,700	5,420	178	7.01	115	4.53	0.19	1.70	3.748
Alternative Stroke Lengths													
T3T-1500x13	13	0.51	15,000	3,375	24,000	5,395	78	3.07	65	2.56	0.05	1.16	2.557
T3T-1500x16	16	0.63			24,100	5,420	84	3.31	68	2.68	0.06	1.20	2.646
T3T-1500x19	19	0.75			24,200	5,440	90	3.54	71	2.80	0.07	1.23	2.712
T3T-1500x25	25	0.98			24,300	5,365	102	4.02	77	3.03	0.08	1.30	2.866
T3T-1500x32	32	1.26			23,800	5,355	116	4.57	84	3.31	0.11	1.35	2.976
T3T-1500x75	75	2.95			24,100	5,440	202	7.95	127	5.00	0.22	1.84	4.057
T3T-1500x80	80	3.15			24,200	5,440	212	8.35	132	5.20	0.24	1.90	4.189
T3T-1500x100	100	3.94			24,300	5,465	252	9.92	152	5.98	0.29	2.13	4.696
T3T-1500x125	125	4.92			24,300	5,465	302	11.89	177	6.97	0.36	2.42	5.335

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



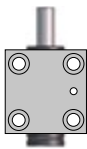
Mounting Possibilities



Top mount
FCS, FCSC



Foot mount
SF



Body mount
HMF

Recommended Flanges



FCSX-1500



239



HMF-1500



243

Additional Flanges



FCSCX-1500



239



SFX-1500



249

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

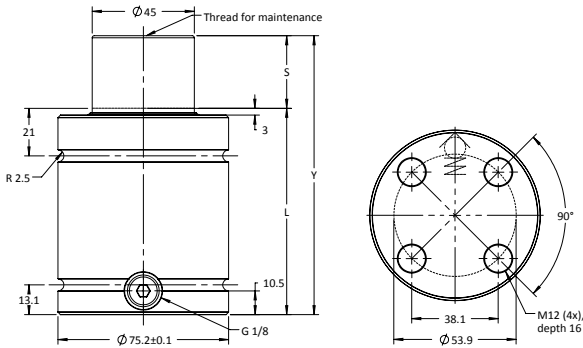
T3T-2400 provides full stroke force between 38,300 N (8,610 lbf) and 39,300 N (8,835 lbf) and is available in 11 stroke lengths.

Strokes 38, 50, and 63 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	24000
Contact Force at max. pressure (lbf)	5396
Recommended max strokes/min (at 20°C)	~ 40-100
Cylinder diameter (mm)	75
Charge port	G 1/8"
Repair kit	3318848
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L				
	mm	in	N	lbf.	mm	lbf.	N	ln	mm	in	ℓ	kg	lb
Preferred Stroke Lengths (optimal delivery)													
T3T-2400x38	38	1.50	24,000	5,395	38,400	8,635	135	5.32	97	3.82	0.18	2.13	4.696
T3T-2400x50	50	1.97			39,200	8,815	159	6.26	109	4.29	0.23	2.33	5.137
T3T-2400x63	63	2.48			39,200	8,815	185	7.28	122	4.80	0.28	2.54	5.600
Alternative Stroke Lengths													
T3T-2400x16	16	0.63	24,000	5,395	38,300	8,610	91	3.58	75	2.95	0.09	1.81	3.990
T3T-2400x19	19	0.75			38,500	8,655	97	3.82	78	3.07	0.10	1.86	4.101
T3T-2400x25	25	0.98			38,700	8,700	109	4.29	84	3.31	0.13	1.93	4.255
T3T-2400x32	32	1.26			38,600	8,680	123	4.84	91	3.58	0.16	2.04	4.497
T3T-2400x75	75	2.95			39,200	8,815	209	8.23	134	5.28	0.33	2.73	6.019
T3T-2400x80	80	3.15			39,200	8,815	219	8.62	139	5.47	0.35	2.81	6.195
T3T-2400x100	100	3.94			39,300	8,835	259	10.20	159	6.26	0.43	3.13	6.900
T3T-2400x125	125	4.92			39,300	8,835	309	12.17	184	7.24	0.54	3.52	7.760

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



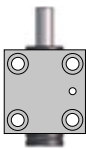
Mounting Possibilities



Top mount
FC, FCS,
FCSC



Foot mount
SF



Body mount
HMF, S

Recommended Flanges



FC-1500



235



FCS-1500



238



HMF-1500



243



S-1500



248

Additional Flanges



FCSC-1500



239



SF-1500



249

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

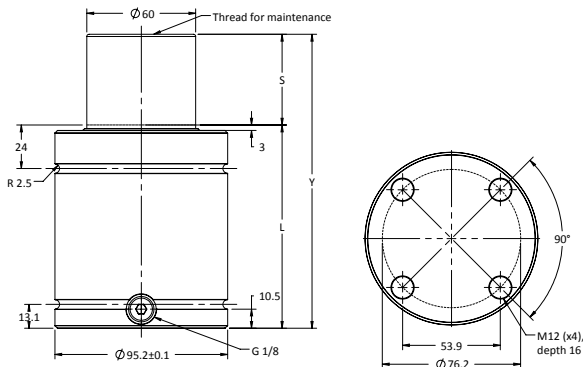
T3T-4200 provides full stroke force between 60,800 N (13,760 lbf) and 69,600 N (15,645 lbf) and is available in 11 stroke lengths.

Strokes 38, 50, 63, and 100 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	42000
Contact Force at max. pressure (lbf)	9440
Recommended max strokes/min (at 20°C)	~ 30-100
Cylinder diameter (mm)	95
Charge port	G 1/8"
Repair kit	3318849
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L			kg	lb
	mm	in	N	lbf.	mm	lbf.	N	ln	mm	in			
Preferred Stroke Lengths (optimal delivery)													
T3T-4200x50	50	1.97	42,000	9,440	67,000	15,065	162	6.38	112	4.41	0.40	3.79	8.356
T3T-4200x63	63	2.48			67,800	15,245	188	7.40	125	4.92	0.49	4.12	9.083
T3T-4200x75	75	2.95			68,000	15,290	212	8.35	137	5.39	0.58	4.42	9.744
T3T-4200x100	100	3.94			69,100	15,535	262	10.32	162	6.38	0.74	5.03	11.089
Alternative Stroke Lengths													
T3T-4200x16	16	0.63	42,000	9,440	61,700	13,870	94	3.70	78	3.07	0.15	3.03	6.680
T3T-4200x19	19	0.75			63,700	14,320	100	3.94	81	3.19	0.18	3.10	6.834
T3T-4200x25	25	0.98			60,800	13,670	112	4.41	87	3.43	0.26	3.18	7.011
T3T-4200x32	32	1.26			64,300	14,555	126	4.96	94	3.70	0.30	3.35	7.385
T3T-4200x38	38	1.50			65,800	14,795	138	5.43	100	3.94	0.32	3.50	7.716
T3T-4200x80	80	3.15			68,600	15,425	222	8.74	142	5.59	0.61	4.52	9.965
T3T-4200x125	125	4.92			69,600	15,645	312	12.28	187	7.36	0.91	5.64	12.434

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



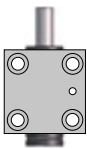
Mounting Possibilities



Body $\varnothing_{+0.5}^{-2.0}$
Top mount
FC, FCS,
FCSC



Foot mount
SF



Body mount
HMF, S

Recommended Flanges



FC-3000



235



FCS-3000



238



HMF-3000



243



S-3000



248

Additional Flanges



FCSC-3000



239



SF-3000



249

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

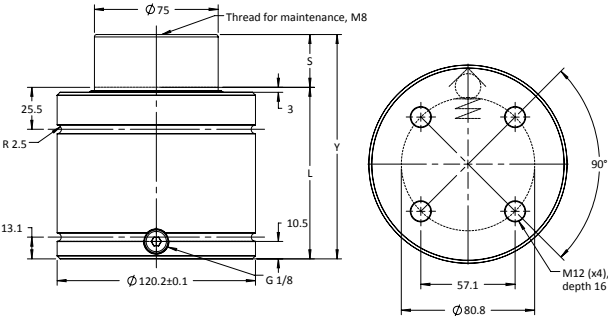
T3T-6600 provides full stroke force between 89,000 N (20,010 lbf) and 106,500 N (23,945 lbf) and is available in 11 stroke lengths.

Strokes 50, 63, 75, and 100 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	66300
Contact Force at max. pressure (lbf)	14905
Recommended max strokes/min (at 20°C)	~ 30-100
Cylinder diameter (mm)	120
Charge port	G 1/8"
Repair kit	3319912
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L			kg	lb
	mm	in	N	lbf.	mm	lbf.	N	In	mm	in			
Preferred Stroke Lengths (optimal delivery)													
T3T-6600x50	50	1.97	66,300	14,905	100,600	22,615	172	6.77	122	4.80	0.69	6.70	14.771
T3T-6600x63	63	2.48			102,400	23,020	198	7.80	135	5.32	0.83	7.20	15.873
T3T-6600x75	75	2.95			103,400	23,245	222	8.74	147	5.79	0.90	7.65	16.865
T3T-6600x100	100	3.94			105,400	23,695	272	10.71	172	6.77	1.23	8.62	19.004
Alternative Stroke Lengths													
T3T-6600x16	16	0.63	66,300	14,905	89,000	20,010	104	4.09	88	3.46	0.32	5.37	11.839
T3T-6600x19	19	0.75			91,000	20,460	110	4.33	91	3.58	0.35	5.48	12.081
T3T-6600x25	25	0.98			93,900	21,110	122	4.80	97	3.82	0.42	5.71	12.588
T3T-6600x32	32	1.26			96,100	21,605	136	5.35	104	4.09	0.49	5.98	13.184
T3T-6600x38	38	1.50			98,200	22,075	148	5.83	110	4.33	0.56	6.21	13.691
T3T-6600x80	80	3.15			104,100	23,405	232	9.13	152	5.98	1.01	7.85	17.306
T3T-6600x125	125	4.92			106,500	23,945	322	12.68	197	7.76	1.50	9.58	21.120

Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



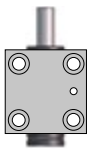
Mounting Possibilities



Body $\varnothing_{+0.5}^{-2.0}$
Top mount
FC, FCS,
FCSC



Foot mount
FFC, SF



Body mount
HMF, S

Recommended Flanges



FC-5000



235



FCS-5000



238



FFC-5000



240



HMF-5000



243



S-5000



248

Additional Flanges



FCSC-5000



239



SF-5000



249

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.

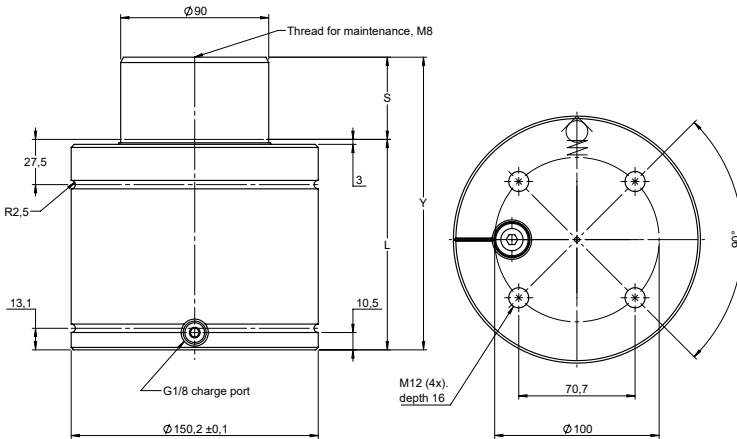
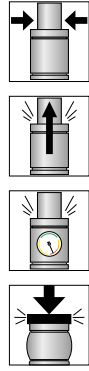
T3T-9500 provides full stroke force between 135,000 N (30,050 lbf) and 152,000 N (34,175 lbf) and is available in 10 stroke lengths.

Strokes 50, 63, 75, and 100 are offered as a part of the Hyson Preferred Program which provides optimal delivery.

Basic Information

For general information see “About Gas Springs”.

Min. charging pressure (at 20°C)	25 bar
Max. charging pressure (at 20°C)	150 bar
Contact Force at max. pressure (N)	95000
Contact Force at max. pressure (lbf)	21360
Recommended max strokes/min (at 20°C)	~ 30-100
Cylinder diameter (mm)	150
Charge port	G 1/8"
Repair kit	3320614
Operating temperature	0 to +80°C
Max piston rod velocity	1.6 m/s
Force increase by temperature	±0.3%/°C
Pressure medium	Nitrogen



Order Number Model X Stroke	Stroke		Contact Force		Full Stroke Force		Cylinder Height		Body Height		Gas Volume	Weight	
	S		2175 psi at 68°F				Y ±0.25	Y ±0.010	L				
	mm	in	N	lbf.	mm	lbf.	N	In	mm	in	ℓ	kg	lb
Preferred Stroke Lengths (optimal delivery)													
T3T-9500x50	50	1.97	95,000	21,360	146,000	32,825	178	7.01	128	5.04	0.99	11.84	26.103
T3T-9500x63	63	2.48			148,000	33,275	204	8.03	141	5.55	1.20	12.66	27.911
T3T-9500x75	75	2.95			149,000	33,500	228	8.98	153	6.02	1.39	13.41	29.564
T3T-9500x100	100	3.94			151,000	33,950	278	10.94	178	7.01	1.79	14.97	33.003
Alternative Stroke Lengths													
T3T-9500x19	19	0.75	95,000	21,360	135,000	30,350	116	4.57	97	3.82	0.49	9.91	21.848
T3T-9500x25	25	0.98			139,000	31,250	128	5.04	103	4.06	0.58	10.29	22.686
T3T-9500x32	32	1.26			142,000	31,925	142	5.59	110	4.33	0.70	10.72	23.634
T3T-9500x38	38	1.50			143,000	32,150	154	6.06	116	4.57	0.80	11.10	24.471
T3T-9500x80	80	3.15			150,000	33,725	238	9.37	158	6.22	1.47	13.72	30.247
T3T-9500x125	125	4.92			152,000	34,175	328	12.91	203	7.99	2.20	16.54	36.464

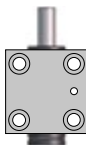
Note! All dimensions are nominal. Data shown are typical. Actual data for any particular unit may vary.



Mounting Possibilities



Body $\varnothing^{+0.5}_{-2.0}$
Top mount
FC, FCS,
FCSC



Body mount
HMF, S

Recommended Flanges



FC-7500

235



FCS-7500

238



HMF-7500

243



S-7500

248

Additional Flanges



FCSC-7500

239

Note!

For dimensions on all mounting flanges, refer to “Flanges” in chapter 3.