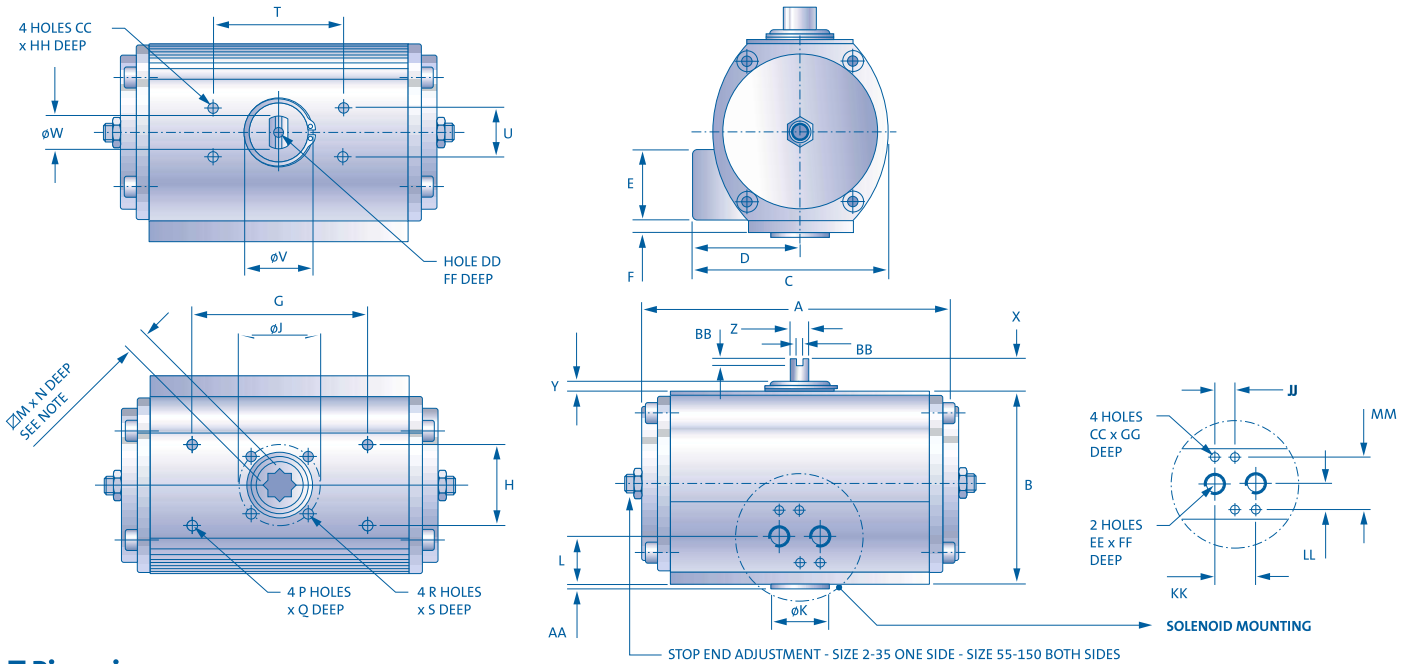


TruTorq Actuator Size 12/20/35/55 C-TYPE Double Acting and Spring Return



Dimensions

Metric		A	B	C	D	E	F	G	H	øJ	øK	L	∠M	N	P	Q	R	S	T
TT12	F07	194.0	118.5	121.0	67.0	43.0	8.0	107.0	49.0	70.0	55.0	29.5	17.0	19.0	M6	10.0	M8	10.0	80.0
TT20	F07	218.0	140.5	136.5	72.0	43.0	8.0	108.0	49.0	70.0	55.0	29.5	17.0	19.0	M6	10.0	M8	13.0	80.0
TT35	F10	266.0	166.5	156.0	78.0	43.0	8.5	161.0	73.0	102.0	70.0	30.0	22.0	24.0	M6	12.0	M10	16.0	80.0
TT55	F12	312.0	207.5	191.0	95.5	43.0	20.5	161.0	73.0	125.0	85.0	42.0	27.0	29.0	M8	15.0	M12	20.0	130.0

		U	øV	øW	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM
TT12	F07	30.0	46.0	20.0	20.0	5.5	11.5	3.0	4.0	M5	M6	G1/4"	12.0	8.0	5.0	12.0	24.0	16.0	32.0
TT20	F07	30.0	50.0	32.0	20.0	6.5	19.0	3.0	4.0	M5	M6	G1/4"	12.0	8.0	5.0	12.0	24.0	16.0	32.0
TT35	F10	30.0	61.0	32.0	20.0	7.0	19.0	3.0	4.0	M5	M6	G1/4"	12.0	8.0	5.0	12.0	24.0	16.0	32.0
TT55	F12	30.0	61.0	40.0	30.0	7.5	25.4	3.0	4.0	M5	M6	G1/4"	12.0	8.0	5.0	12.0	24.0	16.0	32.0

Imperial		A	B	C	D	E	F	G	H	øJ	øK	L	∠M	N	P(unc)	Q	R(unc)	S	T
TT12	F07	7.64	4.67	4.76	2.64	1.69	0.31	4.21	1.93	2.76	2.165	1.16	0.669	0.75	1/4-20	0.39	5/16-18	0.47	3.15
TT20	F07	8.58	5.53	5.37	2.83	1.69	0.31	4.21	1.93	2.76	2.165	1.16	0.669	0.75	5/16-18	0.39	5/16-18	0.51	3.15
TT35	F10	10.47	6.56	6.14	3.07	1.69	0.33	6.34	2.87	4.02	2.756	1.18	0.866	0.94	5/16-18	0.47	3/8-16	0.63	3.15
TT55	F12	12.28	8.17	7.52	3.76	1.69	0.81	6.34	2.87	4.92	3.346	1.65	1.06	1.14	5/16-18	0.59	1/2-13	0.79	5.12

		U	øV	øW	X	Y	Z	AA	BB	CC(unf)	DD	EE	FF	GG	HH	JJ	KK	LL	MM
TT12	F07	1.18	1.81	0.79	0.79	0.22	0.45	0.12	0.16	10-32	M6	NPT1/4	0.50	0.31	0.20	0.47	0.94	0.63	1.26
TT20	F07	1.18	1.97	1.26	0.79	0.26	0.75	0.12	0.16	10-32	M6	NPT1/4	0.50	0.31	0.20	0.47	0.94	0.63	1.26
TT35	F10	1.18	2.40	1.26	0.79	0.28	0.75	0.12	0.16	10-32	M6	NPT1/4	0.50	0.31	0.20	0.47	0.94	0.63	1.26
TT55	F12	1.18	2.40	1.57	1.18	0.30	1.00	0.12	0.16	10-32	M6	NPT1/4	0.50	0.31	0.20	0.47	0.94	0.63	1.26

Torque

MODEL	AIR SUPPLY		DA TORQUE	SR TORQUE				
	BAR	PSI		Air-start	Air-end	Spring-start	Spring-end	Spring Qty
TT12	6.0		122.5 Nm	79.31	43.91	78.60	43.20	4x4
TT20	6.0		201.9 Nm	130.33	71.73	130.20	71.60	4x4
TT35	6.0		374.0 Nm	241.54	132.98	241.20	132.64	4x4
TT55	6.0		597.0 Nm	385.21	212.13	384.60	211.52	4x4
TT12		80.0	994 in.lbs	644	356	638	350	4x3
TT20		80.0	1638 in.lbs	1057	582	1056	581	4x3
TT35		80.0	3035 in.lbs	1959	1078	1957	1076	4x3
TT55		80.0	4742 in.lbs	3026	1622	3120	1716	4x3

Basic Operating Detail

- TDA = Double Acting
- Port 'A' = Air To Open (Anti-Clockwise)
- Port 'B' = Air To Close (Clockwise)
- TSR = Spring Return
- Port 'A' = Air To Open (Anti-Clockwise compressing springs)
- Port 'B' = Spring To Close (Clockwise)
- Fail Safe Open = Rotate Pistons 180° About Own Axis
- Drive Medium = Air (Dry or Lubricated); Non Corrosive Gas; Light Hydraulic Oil
- Temperature = Buna Nitrile 'O' Seals -40 to +100°C or -40 to +212°F
Viton 'O' Seals -25 to +250°C or -13 to +482°F

Actuator Size	Operating Time				Air Consumption				Overall Weight				Sol. VV Min. Cv
	DA Open	DA Close	SR Open	SR Close	Open (l)	Close (l)	Open (ci)	Close (ci)	DA Kg	SR Kg	DA lbs	SR lbs	
12	1.5	1.5	1.5	1.0	0.49	0.64	29.90	39.05	4.1	4.7	9.0	10.0	0.5
20	2.0	2.0	2.0	1.5	0.90	1.00	54.92	61.02	6.3	7.0	14.0	15.0	0.5
35	2.5	2.5	2.5	2.0	1.69	1.90	103.12	115.94	10.5	12.0	23.0	26.0	0.5
55	3.5	3.5	3.5	3.0	2.80	3.40	170.86	207.47	18.2	20.6	40.0	45.0	0.8