

Tensor Electric Assembly Tools

Tighten up on error proofing and productivity



Atlas Copco

Tensor – the operators' choice

The Tensor range of electric assembly tools covers all station and assembly line requirements for safety critical and quality critical fastening applications. At Atlas Copco we have a proud legacy of putting the operator first and we continuously improve the ergonomic features on each new generation of Tensor tools. Tensor is also one of the most advanced tool ranges on the market in terms of high power-to-weight ratios and operator guidance in the form of clear result feedback via LED's or audio signals.

Productivity gains

Atlas Copco's unique Tensor motors give the Tensor range outstanding spindle speeds and, thus, help you achieve lower cycle times in your operation. Exceptional ergonomics in terms of balance, grip and low weight make the tools a favorite of the operators and increase individual productivity.

Operator feedback

All Tensor tools are equipped with LED's that will indicate the tightening result, green light for tightening OK and red light for NOK. Tensor ST and STR have configurable LED's and an integrated speaker for indicating results via audio signals.

Lowest cost of operation

At Atlas Copco we believe that quality is the road to lowest cost of operation over time. A maintained Tensor tool produces the same performance year after year at minimum and predictable costs while ensuring highest possible uptime.

Tensor DL: quality critical

The Tensor DL range is used for quality critical screws. Optimized for small screw assembly, the DL is the electric choice in the low torque segment.

Tensor SL: low torque safety critical, configurable tool functions

The Tensor SL range is optimized for safety critical small screw assembly. It offers compact screwdriver ergonomics, combined with traceability and error proofing capabilities.

Tensor DS: quality critical

Tensor DS is used for quality critical applications not requiring traceable measured torque value. DS offers major productivity and quality gains compared with conventional tooling.

Tensor S: safety critical

Tensor S is the well proven range for safety critical applications where traceability and error proofing capability is required.

Tensor ST: safety critical, configurable tool functions

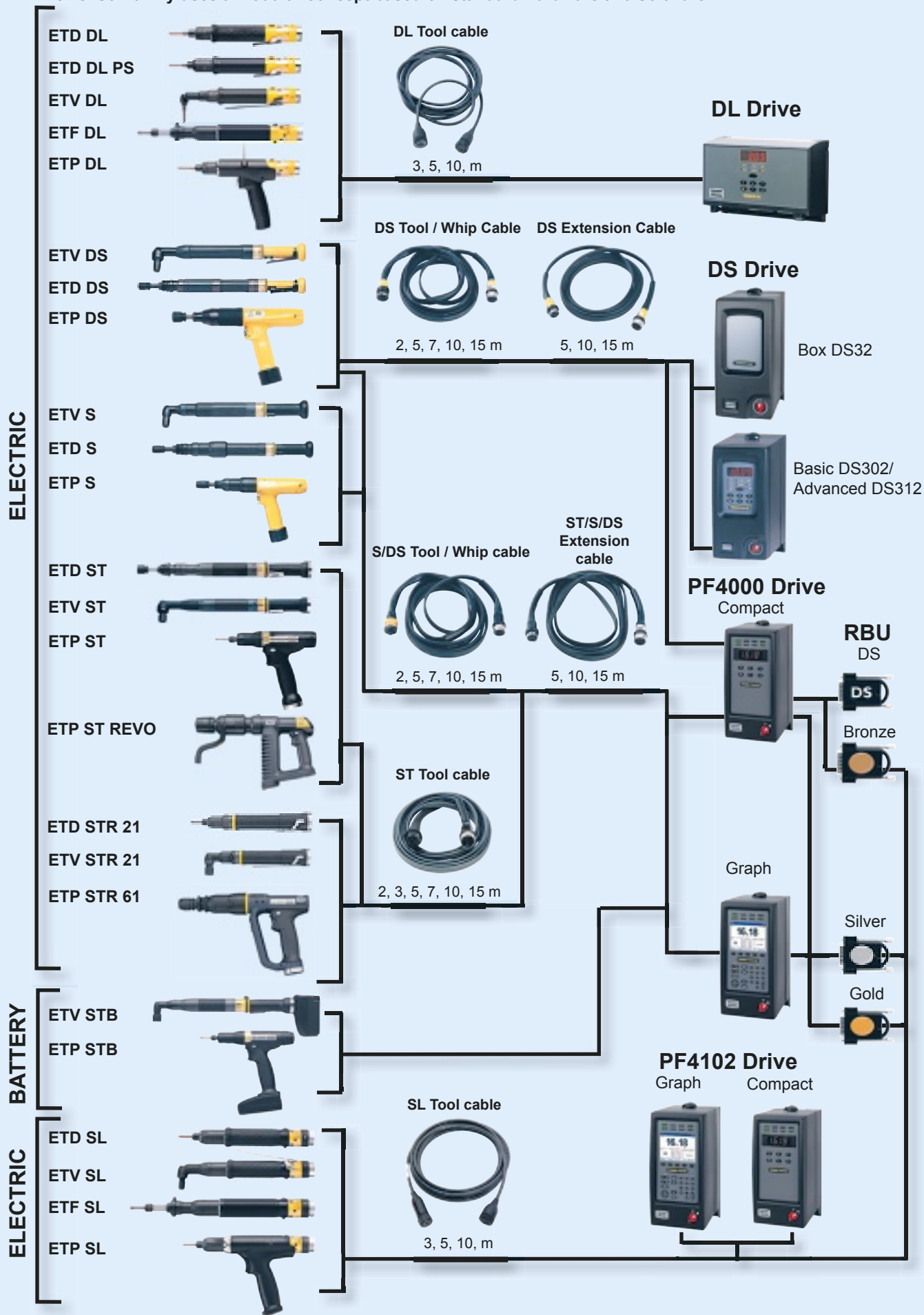
The second generation of Tensor tools was developed with low weight and productivity in mind. Tensor ST has an internal bus connection for intelligent accessories such as a barcode reader and torque selector switch.

Tensor STR: safety critical, configurable tool functions

The latest generation of Tensor tools where ergonomics and productivity are taken to a new level.



The Tensor family uses a modular concept based on standard hardware and software.



ETV S Mark II

Our new Tensor S 42/72/92 angle tool series is now equipped with spiral gears in the angle heads which have already been used successfully in other Atlas Copco tools. The new spiral gears improve the contact ratio between the gears, making the gears run more smoothly. The new molded ergonomic motor sleeve improves grip and comfort for the operator.

- ETV S II right angle tools are ideal for hand-held operations.
- Torque range from 1 to 4000 Nm (higher torque models available on request).
- Ball retainers for fast and easy socket changes.
- Female hex drive and quick chucks for bits.



ETV S Mark II

Model	Square drive in	Torque		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
		Nm	ft lb		kg	lb			
ETV S42									
ETV S42-05-06	1/4	1 - 6	0.7 - 3.6	1232	1.5	3.3	381	11	8433 1236 12
ETV S42-05-10	3/8	1 - 6	0.7 - 3.6	1232	1.5	3.3	381	13.5	8433 1236 26
ETV S42-10-06	1/4	3 - 15	2.2 - 11	798	1.5	3.3	381	11	8433 1236 35
ETV S42-10-10	3/8	3 - 15	2.2 - 11	798	1.5	3.3	381	13.5	8433 1236 51
ETV S42-20-10	3/8	4 - 25	2.9 - 18.3	447	1.5	3.3	382	13.5	8433 1236 91
ETV S42-30-10	3/8	6 - 35	4.4 - 27.7	268	1.6	3.5	384	15.5	8433 1237 04
ETV S42 Ball Retainer									
ETV S42-10-B10	3/8	3 - 15	2.2 - 11	798	1.5	3.3	381	11	8433 1236 62
ETV S42-20-B10	3/8	4 - 25	2.9 - 18.3	447	1.5	3.3	382	13.5	8433 1236 95
ETV S72									
ETV S72-28-10	3/8	5 - 29	4 - 21	1305	1.6	3.5	413	13.5	8433 1245 20
ETV S72-30-10	3/8	6 - 35	5 - 25	893	1.6	3.5	415	15.5	8433 1247 33
ETV S72-40-10	3/8	8 - 40	6 - 29	887	1.7	3.7	435	18	8433 1250 00
ETV S72-50-10	3/8	10 - 55	7 - 40	533	1.9	4.2	435	18	8433 1252 87
ETV S72-70-13	1/2	14 - 80	10 - 58	384	2.2	4.8	461	20	8433 1273 09
ETV S72-100-13	1/2	20 - 100	15 - 80	307	2.5	5.5	489	22.5	8433 1280 00
ETV S72-150-13	1/2	30 - 160	22 -117.3	190	2.9	6.4	525	25.5	8433 1288 67
ETV S72-180-13	1/2	40 - 180	29 - 132	142	3.0	6.6	525	25.5	8433 1291 17
ETV S72-200-20	3/4	40 - 210	29 - 154	142	3.2	10.4	527	27	8433 1291 35
ETV S72 Ball Retainer									
ETV S72-28-B10	3/8	5 - 29	4 - 21	1300	1.6	3.5	413	13.5	8433 1245 23
ETV S72-30-B10	3/8	6 - 35	5 - 25	893	1.6	3.5	415	15.5	8433 1247 35
ETV S72-40-B10	3/8	8 - 40	6 - 29	887	1.7	3.7	435	18	8433 1250 42
ETV S72-50-B10	3/8	10 - 55	7 - 40	533	1.9	4.2	435	18	8433 1252 62
ETV S72-70-B13	1/2	14 - 80	10 - 58	384	2.2	4.8	461	20	8433 1273 44
ETV S72-100-B13	1/2	20 - 110	15 - 80	307	2.5	5.5	489	22.5	8433 1280 31
ETV S72-150-B13	1/2	30 - 160	22 -117.3	190	2.9	6.4	525	25.5	8433 1288 46
ETV S72-180-B13	1/2	40 - 180	29 - 132	142	3.0	6.6	525	25.5	8433 1291 44

ETD S

- ETD S inline tools. The low torque series is ideal for hand-held bench assembly. The high torque tools are excellent for fixtured applications.
- Torque range from 1 to 4000 Nm.
- Telescopic spindles for fixtured applications.
- Female hex drives for bits.



ETD S

Model	Square drive in	Torque		Speed r/min	Weight		Length mm	CS distance mm	Spline/ Mounting	Ordering No.
		Nm	ft lb		kg	lb				
ETD S4										
ETD S4-04-10CTADS	3/8	1 - 5	0.7 - 3.6	1465	1.4	3.1	381	28	- / 1	8433 0237 81
ETD S4-10-10CTADS	3/8	3 - 14	2.2 - 10.3	690	1.4	3.1	381	28	- / 1	8433 0238 18
ETD S4-20-10CTADS	3/8	5 - 20	3.6 - 15	415	1.4	3.1	381	28	- / 1	8433 0239 72
ETD S4 Telescopic										
ETD S4-04-10CTADST	3/8	1 - 5	0.7 - 3.6	1465	1.5	3.3	419	28	2 / 2	8433 0237 94
ETD S4-10-10CTADST	3/8	3 - 14	2.2 - 10.3	690	1.5	3.3	419	28	2 / 2	8433 0238 79
ETD S4-20-10CTADST	3/8	5 - 20	3.6 - 15	415	1.5	3.3	419	28	2 / 2	8433 0239 84
ETD S4 Female Hex										
ETD S4-02-106CTADS	1/4	0.5 - 2.5	0.35 - 1.8	2930	1.4	3.1	372	28	- / 1	8433 0237 43
ETD S4-04-106CTADS	1/4	1 - 5	0.7 - 3.6	1465	1.4	3.1	372	28	- / 1	8433 0237 47
ETD S4-10-106CTADS	1/4	3 - 14	2.2 - 10.3	690	1.5	3.3	372	28	- / 1	8433 0238 06
ETD S7										
ETD S7-20-10CTADS	3/8	5 - 20	3.6 - 15	1380	1.6	3.6	411	28	- / 1	8433 0294 42
ETD S7-30-10CTADS	3/8	6 - 35	4.4 - 25	830	1.6	3.6	411	28	- / 1	8433 0295 07
ETD S7-50-13CTADS	1/2	10 - 55	7.3 - 40	595	2.1	4.7	456	28	2 / 2	8433 0297 37
ETD S7-70-13CTADS	1/2	14 - 80	11 - 58	410	2.4	4.7	477	29.5	2 / 2	8433 0298 04
ETD S7-90-13CTADS	1/2	20 - 95	15 - 69	335	2.8	6.2	477	29.5	2 / 2	8433 0299 11
ETD S7-120-13CTADS	1/2	25 - 125	18 - 91	280	2.9	6.5	477	29.5	2 / 2	8433 0299 72
ETD S7 Telescopic										
ETD S7-20-10CTADST	3/8	5 - 20	3.6 - 15	1380	1.7	3.8	450	28	2 / 2	8433 0294 81
ETD S7-20-10CTADS-T50	3/8	5 - 20	3.6 - 15	1380	1.8	4.0	500	28	2 / 2	8433 0294 85
ETD S7-30-10CTADST	3/8	6 - 35	4.4 - 25	830	1.7	3.8	450	28	2 / 2	8433 0295 21
ETD S7-30-10CTADS-T50	3/8	6 - 35	4.4 - 25	830	1.8	4.0	500	28	2 / 2	8433 0295 84
ETD S7-50-13CTADST	1/2	10 - 55	7.3 - 40	595	2.2	4.9	483	28	3 / 5	8433 0297 83
ETD S7-50-13CTADS-T50	1/2	10 - 55	7.3 - 40	595	2.3	5.1	540	28	3 / 5	8433 0297 94
ETD S7-70-13CTADST	1/2	14 - 80	11 - 58	410	2.5	5.6	504	29.5	3 / 5	8433 0298 34
ETD S7-70-13CTADS-T50	1/2	14 - 80	11 - 58	410	2.6	5.7	562	29.5	3 / 5	8433 0298 63
ETD S7-90-13CTADST	1/2	20 - 95	15 - 69	335	2.9	6.5	504	29.5	3 / 5	8433 0299 41
ETD S7-90-13CTADS-T50	1/2	20 - 95	15 - 69	335	3.0	6.6	562	29.5	3 / 5	8433 0299 43
ETD S7-120-13CTADST	1/2	25 - 125	18 - 91	280	3.0	6.7	504	29.5	3 / 5	8433 0299 85
ETD S7-120-13CTADS-T50	1/2	25 - 125	18 - 91	280	3.1	6.8	562	29.5	3 / 5	8433 0299 93
ETD S7-140-13CTADST	1/2	35 - 140	26 - 103	280	3.0	6.7	504	29.5	3 / 5	8433 0299 98
ETD S7 Ball Retainer										
ETD S7-30-B10CTADS	3/8	6 - 35	3.6 - 15	830	1.6	3.6	411	28	- / 1	8433 0295 09
ETD S7-50-B13CTADS	1/2	10 - 55	7.3 - 40	595	2.1	4.7	456	28	2 / 2	8433 0297 56
ETD S7-70-B13CTADS	1/2	14 - 80	11 - 58	410	2.4	4.7	477	29.5	2 / 2	8433 0298 07
ETD S7 Female Hex										
ETD S7-20-106CTADS	1/4	5 - 20	3.6 - 15	1380	1.6	3.6	402	28	- / 1	8433 0294 47

ETP S

- ETP S pistol grip tool for both hand-held and fixtured applications.
- Torque range from 1 to 4000 Nm.
- Telescopic spindles for fixtured applications.
- Female hex quick change drives for bits.



Model	Square drive in	Torque				Speed r/min	Weight		Length mm	CS distance mm	Spline/ Mounting	Ordering No.
		Nm		ft lb			kg	lb				
ETP S4												
ETP S4-10-06CTADS	1/4	3 -	12	2.2 -	8.8	735	1.2	2.7	192	21.3	- / -	8433 0235 11
ETP S4-10-10CTADS	3/8	3 -	12	2.2 -	8.8	735	1.2	2.7	194	21.3	- / -	8433 0235 39
ETP S4-20-10CTADS	3/8	5 -	20	3.6 -	15	415	1.7	3.7	243	21.3	- / -	8433 0235 64
ETP S4 Female Hex												
ETP S4-02-106CTADS	1/4	0.5 -	2.5	0.35 -	1.8	2930	1.2	2.7	200	21.3	- / -	8433 0233 50
ETP S4-04-106CTADS	1/4	1 -	5	0.7 -	3.6	1465	1.2	2.7	200	21.3	- / -	8433 0234 75
ETP S4-10-106CTADS	1/4	3 -	12	2.2 -	8.8	735	1.2	2.7	200	21.3	- / -	8433 0235 01
ETP S4 Ball Retainer												
ETP S4-10-B10CTADS	3/8	3 -	12	2.2 -	8.8	735	1.2	2.7	194	21.3	- / -	8433 0235 53
ETP S7												
ETP S7-20-10CTADS	3/8	5 -	20	3.6 -	15	1380	1.9	4.2	274	21.5	- / 1	8433 0313 84
ETP S7-30-10CTADS	3/8	6 -	35	4.4 -	25	830	1.9	4.2	274	21.5	- / 1	8433 0314 03
ETP S7-50-13CTADS	1/2	10 -	55	7.3 -	40	595	2.2	4.9	318	26.8	2 / 2	8433 0314 91
ETP S7-70-13CTADS	1/2	14 -	80	11 -	58	410	2.4	5.4	340	29.5	2 / 2	8433 0315 02
ETP S7-90-13CTADS	1/2	20 -	95	15 -	69	335	2.5	5.6	340	29.5	2 / 2	8433 0315 27
ETP S7-120-13CTADS	1/2	25 -	125	18 -	91	280	2.7	6.0	340	29.5	2 / 2	8433 0315 43
ETP S7 Telescopic												
ETP S7-30-10CTADST	3/8	6 -	35	4.4 -	25	830	2.0	4.4	313	21.5	2 / 2	8433 0314 15
ETP S7-120-13CTADST	1/2	25 -	125	18 -	91	280	2.9	6.4	367	29.5	3 / 5	8433 0315 59
ETP S7 Female Hex												
ETP S7-20-106CTADS	1/4	5 -	20	3.6 -	15	1380	1.9	4.2	265	21.5	- / 1	8433 0313 61
ETP S7-30-106CTADS	1/4	6 -	35	4.4 -	25	830	1.9	4.2	265	21.5	- / 1	8433 0314 28
ETP S7 Ball Retainer												
ETP S7-30-B10CTADS	3/8	6 -	35	4.4 -	25	830	1.9	4.2	274	21.5	- / 1	8433 0314 18
ETP S9												
ETP S9-70-13CTADS	1/2	25 -	70	18 -	49	1180	3.7	8.3	395	31.8	2 / 2	8433 0367 19
ETP S9-100-13CTADS	1/2	40 -	100	29 -	73	795	3.9	8.7	395	31.8	2 / 2	8433 0367 45
ETP S9-200-13CTADS	1/2	50 -	200	36 -	146	370	3.9	8.7	395	31.8	2 / 2	8433 0367 86
ETP S9-270-20CTADS	3/4	65 -	270	47 -	198	250	6.5	14.5	451	36	6 / 8	8433 0368 52
ETP S9-450-20CTADS	3/4	110 -	450	80 -	330	140	7.9	17.6	487	40.5	6 / 8	8433 0368 99
ETP S9-600-20CTADS	3/4	150 -	600	110 -	440	120	7.9	17.8	487	40.5	6 / 8	8433 0369 38
ETP S9-1000-25CTADS	1	250 -	1000	180 -	730	76	12	26.5	620	47	7 / 11	8433 0370 11
ETP S9-1200-25CTADS	1	300 -	1200	220 -	880	62	12	26.5	620	47	7 / 11	8433 0370 50
ETP S9-1500-38CTADS	1 1/2	375 -	1500	280 -	1100	47	16.8	37.0	572	68	8 / 12	8433 0370 62
ETP S9-2000-38CTADS	1 1/2	500 -	2000	440 -	1475	38	16.8	37.0	572	68	8 / 12	8433 0371 05
ETP S9-3000-38CTADS	1 1/2	750 -	3000	550 -	2200	24	21.7	47.8	654	68	8 / 12	8433 0372 12
ETP S9-4000-38CTADS	1 1/2	1000 -	4000	730 -	2950	18	21.7	47.8	654	68	8 / 12	8433 0372 55
ETP S9 Telescopic												
ETP S9-100-13CTADST	1/2	40 -	100	29 -	73	795	4.0	8.8	422	31.8	3 / 5	8433 0367 51
ETP S9-270-20CTADST	3/4	65 -	270	47 -	198	250	6.7	14.8	501	36	6 / 8	8433 0368 63
ETP S9-450-20CTADST	3/4	110 -	450	80 -	330	140	8.0	17.6	537	40.3	6 / 8	8433 0369 07
ETP S9-600-20CTADST	3/4	150 -	600	110 -	440	120	8.0	17.6	537	40.3	6 / 8	8433 0369 53
ETP S9-1000-25CTADST	1	250 -	1000	180 -	730	76	12.2	26.9	669	47	7 / 11	8433 0370 31
ETP S9-1200-25CTADST	1	300 -	1200	220 -	880	62	12.2	26.9	669	47	7 / 11	8433 0370 55
ETP S9-1500-38CTADST	1 1/2	375 -	1500	280 -	1100	47	17	37.5	669	68	8 / 12	8433 0370 66
ETP S9-2000-38CTADST	1 1/2	500 -	2000	440 -	1475	35	17	37.5	669	68	8 / 12	8433 0371 08
ETP S9-3000-38CTADST	1 1/2	750 -	3000	550 -	2200	24	21.9	48.3	750	68	8 / 12	8433 0372 24
ETP S9-4000-38CTADST	1 1/2	1000 -	4000	730 -	2950	18	21.9	48.3	750	68	8 / 12	8433 0372 62