

## COMMERCIAL TELESCOPIC CYLINDERS

These multi-stage telescopic hydraulic cylinders (commercial tipping cylinders) are typically used on small to medium-sized commercial tipping vehicles/road going tipping trailer applications and typically range between 2 tonne – 21 tonne lifting capacity in 2 to 5 stages. With our telescopic hydraulic cylinders you can choose from five different bore sizes and various length variations in each size.



### FEATURES

Standard Features throughout the range.

- Single-acting
- Trunnion or pin mounted
- Provision for grease nipples (not on all models)
- All stages are hard chrome plated for superior corrosion resistance & to maximise seal life
- Double lipped asymmetric rod seal design manufactured in high-performance polyurethane
- Heavy-duty wiper ring featuring a front flap that covers the tube face preventing a water/slurry trap so common with conventional wiper.
- Bearing rings fitted to all stages to give maximum internal support whilst extending through all stages.
- Bearing rings: fitted to all stages to give full support to the rod seal.

### SPECIFICATIONS

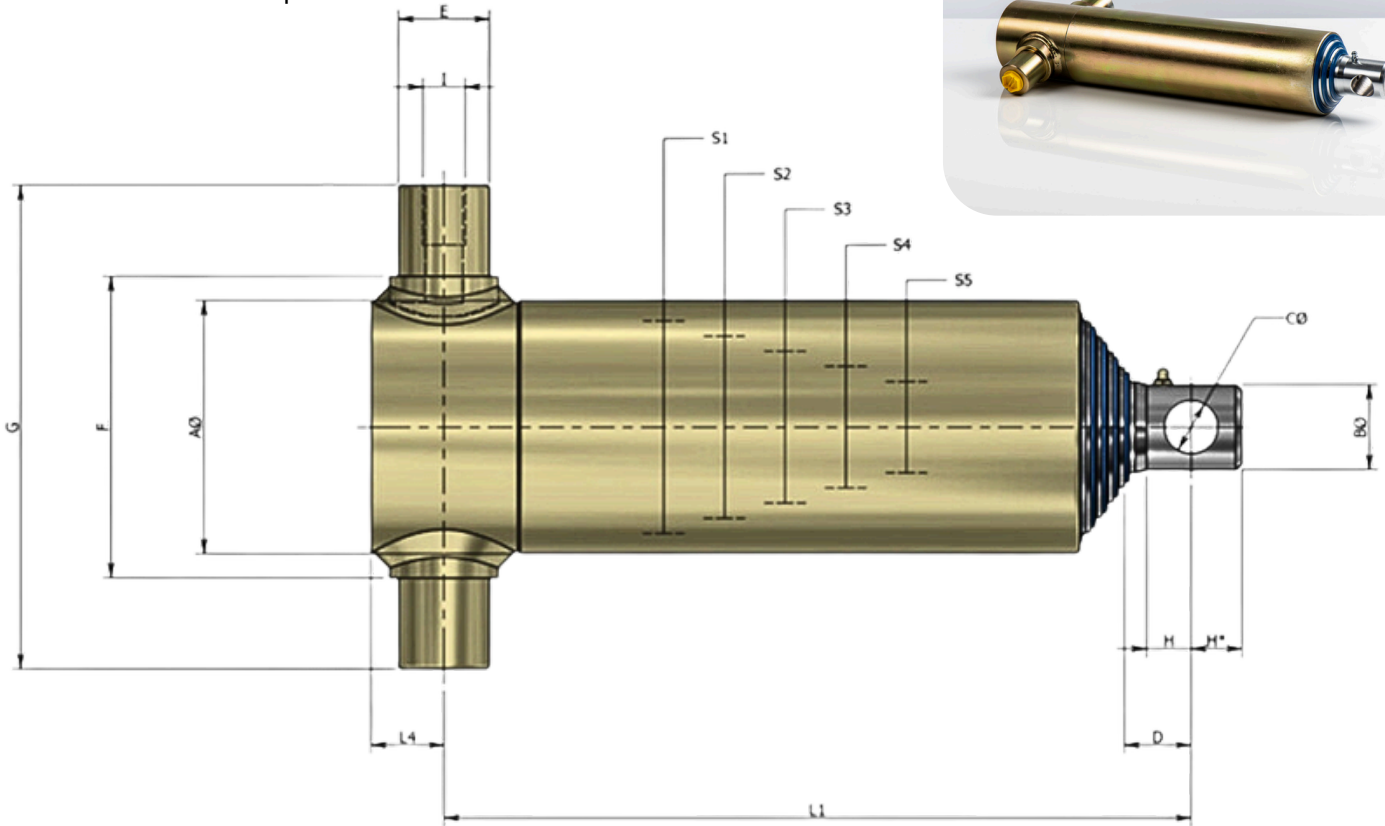
**TUBE:--:** All tubes manufactured from ready to use smooth bore, EN10305-2 specification, E355 steel grade, hard chrome plated with a minimum plate deposit thickness 0.025mm

**ROD:--:** All rods are hard chrome plated.

**ALL TELESCOPIC HYDRAULIC CYLINDERS/ COMMERCIAL TIPPING CYLINDERS ARE PRESSURE TESTED ON A PURPOSE-BUILT RIG TO A PRESSURE OF 241 BAR (3500 PSI) AND THEN STAMPED WITH PART, JOB, & SERIAL NUMBERS, WEIGHT, MANUFACTURE DATE AND MAX W/PRESSURE FOR FULL IDENTIFICATION. ALL TONNAGES CALCULATED AT 2610 PSI (180 BAR).**

# BOTTOM MOUNTED CYLINDERS

Bottom Mounted Telescopic Cylinders are a type of hydraulic cylinder where the mounting point is located at the base or bottom of the cylinder. Often used in applications where the cylinder must push or lift from a lower point.



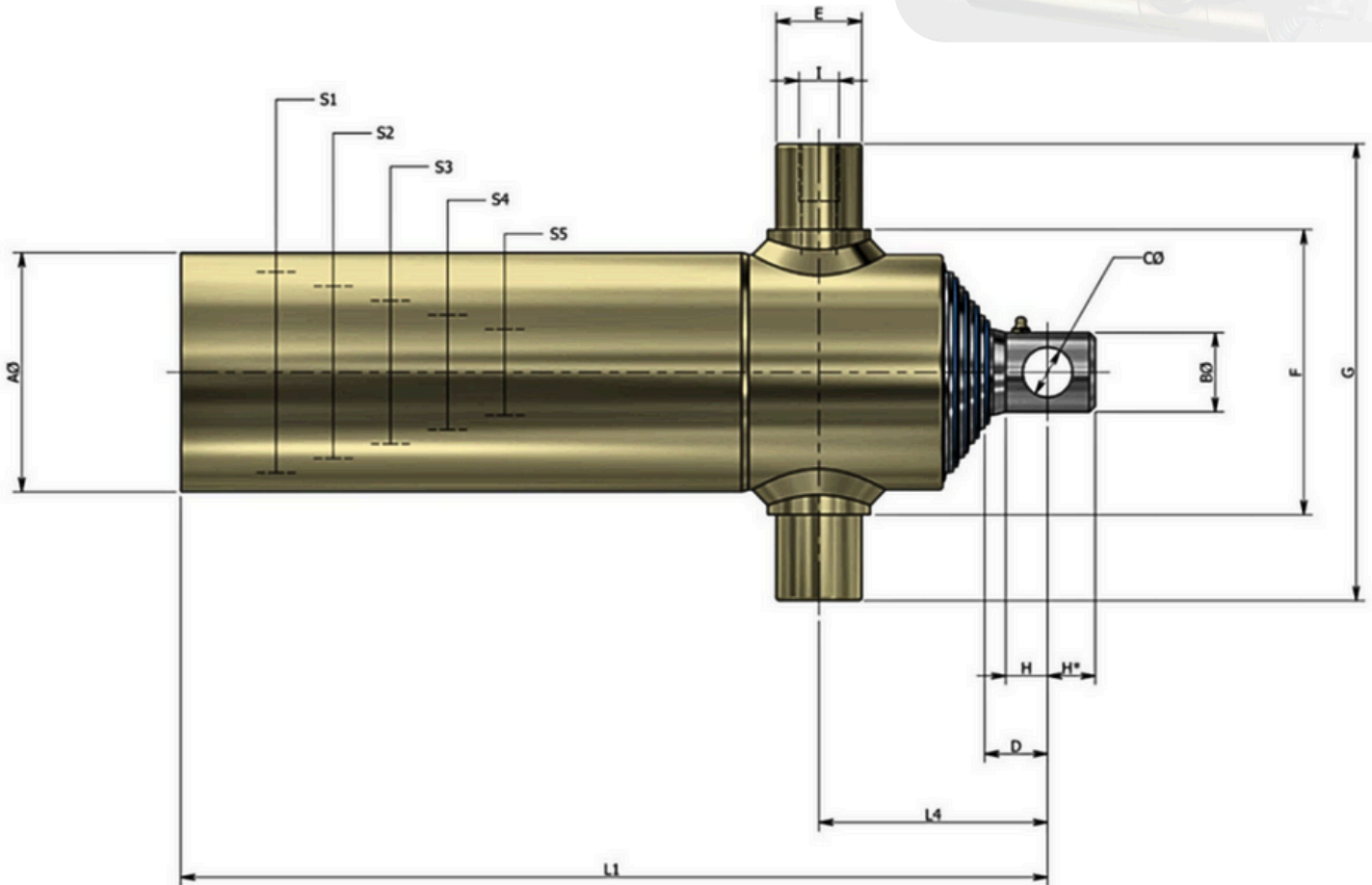
PART NUMBER	STAGES	TONNE/STAGE AT 2610 PSI (180 BAR)	L1 CLOSED CENTRES	STROKE	OPEN CENTRES	L4	S1 STAGE OD	S2 STAGE OD	S3 STAGE OD	S4 STAGE OD	S5 STAGE OD
D920/A	2	5 - 3	399	620	1019	70	60	45	X	X	X
D909/A	3	8 - 5 - 3	399	910	1309	61	75	60	45	X	X
D917/A	3	8 - 5 - 3	473	1057	1530	36	75	60	45	X	X
D918/A	4	12 - 8 - 5 - 3	417	1180	1597	36	90	75	60	45	X
D919A	5	16 - 12 - 8 - 5 - 3	417	1467.5	1884.5	36	105	90	75	60	45

PART NUMBER	A Ø	B Ø	C Ø	D	E	F	G	H	H*	I (BSP)	OIL CAPACITY (LITRES)	WEIGHT (KG)
D920/A	80	43	26	40	40	100	180	30	25	1/2"	1.6	15
D909/A	92	42	26	35	40	118	198	22	25	1/2"	3.4	20.8
D917/A	92	42	26	35	40	118	198	22	25	1/2"	3.6	23.5
D918/A	110	42	26	35	45	133	223	22	25	1/2"	5.6	26.5
D919A	125	42	26	33	45	150	240	22	25	1/2"	8.6	32.5

# TOP MOUNTED CYLINDERS

Top Mounted Telescopic Cylinders are a type of hydraulic cylinder where the mounting point is located at the top of the cylinder, rather than at the bottom or the side.

The "top mounted" configuration means that the cylinder is attached at the top end, which is commonly used in applications where the cylinder needs to pull or lift from the top position.



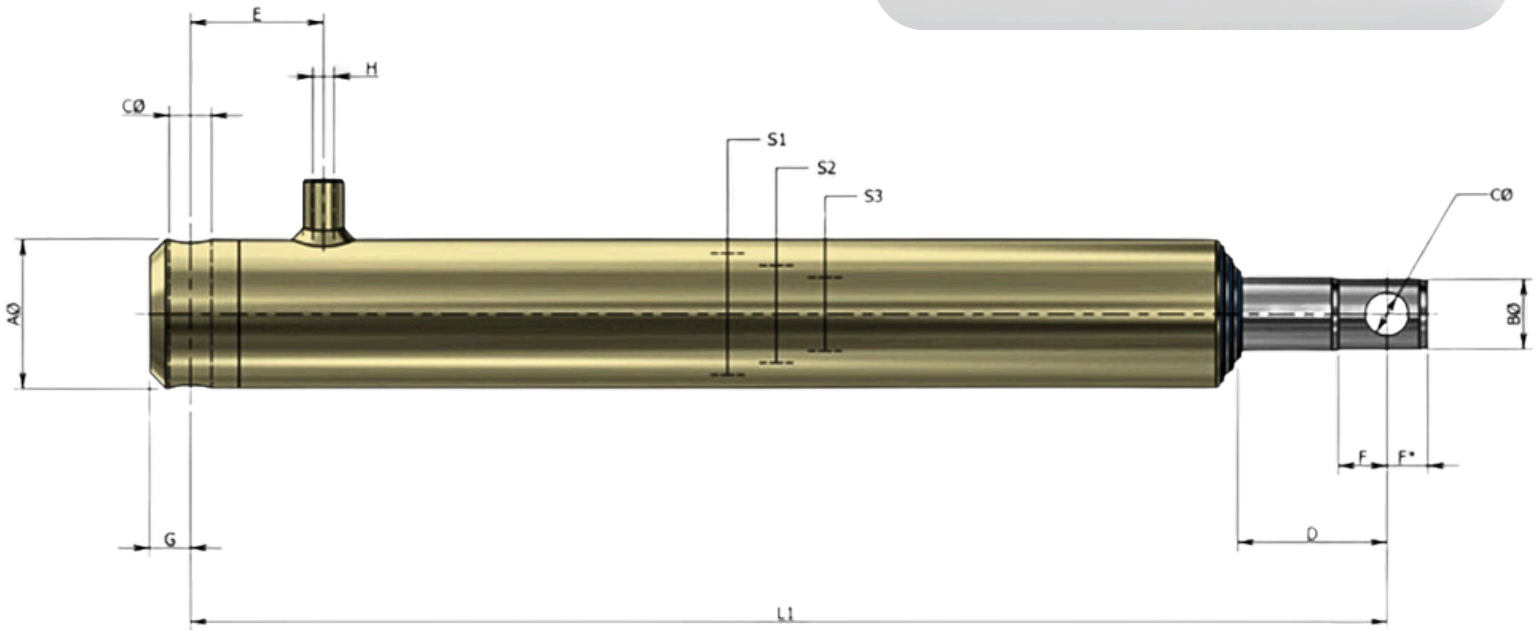
PART NUMBER	STAGES	TONNE/STAGE AT 2610 PSI (180 BAR)	L1 CLOSED CENTRES	STROKE	OPEN LENGTH	L4	S1 STAGE OD	S2 STAGE OD	S3 STAGE OD	S4 STAGE OD	S5 STAGE OD
D900/A	4	12 - 8 - 5 - 3	391	943	1334	150	90	75	60	45	X
D903/A	5	16 - 12 - 8 - 5 - 3	391	1157.5	1548.5	120	105	90	75	60	45

PART NUMBER	A Ø	B Ø	C Ø	D	E	F	G	H	H*	I (BSP)	OIL CAPACITY (LITRES)	WEIGHT (KG)
D900/A	110	42	26	33	45	133	223	22	25	1/2"	4.5	23
D903/A	125	42	26	33	45	148	238	22	25	1/2"	6.8	27

# PIN MOUNTED CYLINDERS

Pin Mounted Telescopic Cylinders are a specific type of hydraulic cylinder used in applications requiring linear motion and heavy lifting.

These cylinders are designed with multiple nested stages (or sections) that extend sequentially, allowing them to achieve long strokes from a compact retracted length.



PART NUMBER	STAGES	TONNE/STAGE AT 2610 PSI (180 BAR)	L1 CLOSED CENTRES	STROKE	OPEN CENTRES	S1 STAGE OD	S2 STAGE OD	S3 STAGE OD
E403/A	2	5 - 3	400	399/5	799.5	60	45	X
E403/B	2	5 - 3	544.5	688.5	1233	60	45	X
D805	2	5 - 3	711	985	1696	70	45	X
D793	3	8 - 5 - 3	737	1446	2183	75	60	45

PART NUMBER	A Ø	B Ø	C Ø	D	E	F	F*	G	H (BSP)	OIL CAPACITY (LITRES)	WEIGHT (KG)
E403/A	75	43	26	39	95	30	25	24	3/8"	0.89	11.8
E403/B	75	43	26	39	95	30	25	24	3/8"	1.52	15.2
D805	75	43	26	58.5	95	30	25	24	3/8"	2.9	21
D793	92	43	26	92	82	30	25	25	3/8"	5.5	31