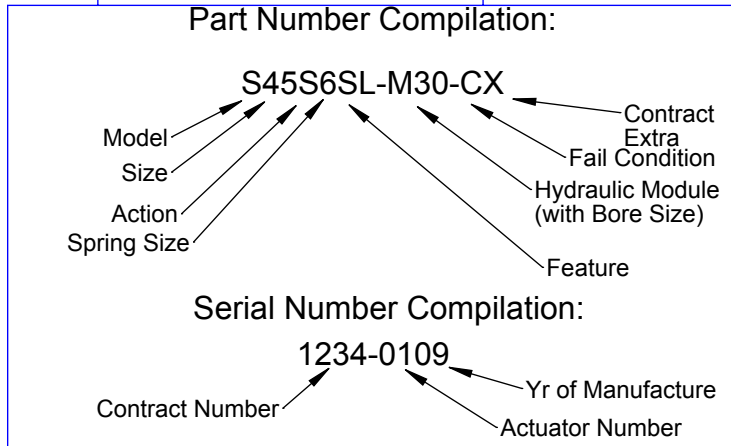


Camtorc Range

| <u>MODEL</u> | <u>SIZE</u> | <u>ACTION</u> | <u>SPRING SIZE</u> ¹⁰ | <u>FEATURE</u> | <u>MODULE</u> | <u>FAIL CONDITION</u> | <u>CONTRACT EXTRAS</u> |
|---|-------------|---------------------------------|----------------------------------|---|---|--|------------------------|
| A - Type A - Aluminium Body Construction ¹ | xxx | A - Single Acting Single Shot | 2 - 20 psi Spring | Blank - 316SS Shaft/ Nitrile Seals ⁴ | Blank - Pneumatic Actuator (Type A & S only) | Blank - A or D Actuator | Blank - No Extras |
| C - Type CS Carbon Steel Body Construction ² | | D - Double Acting | 3 - 30 psi Spring | E - EN8 Shaft ⁵ | Mxxx - Standard Hydraulic Module (w/ Size) | C - Fail Closed | X - See Note 1 below |
| S - Type S Carbon Steel Body Construction ³ | | S - Single Acting Spring Return | 4 - 40 psi Spring | D - 17-4PH St St Shaft ⁶ | Bxxx - Hydraulic Module incl Backup Seal (w/ Size) | O - Fail Open | |
| X - Type CX Stainless Steel Body Construction ¹¹ | | | | 5 - 50 psi Spring | S - Coated Spring | | |
| Z - Type SX Stainless Steel Body Construction ¹² | | | | 6 - 60 psi Spring | N - Actuator Bore Treated (eg Electro-Nickel) | Sxx - Type CS Single Cylinder (w/ Nominal Bore Size) | |
| | | | | 7 - 70 psi Spring | L - Low Temp Seals - EPDM ⁷ for T _{amb} -40°C to -20°C | Cxx - Type CS Dual Cylinder - Same Size (w/ Nominal Bore Size) | |
| | | | | 8 - 80 psi Spring | H - High Temp Seals - Viton ⁸ for T _{amb} = +100°C to =130°C | Yxxxx - Type CS Dual Cylinder - Different Size (w/ Nominal Bore Size - Air Cylinder First. eg. Y1625 indicates Ø160 Air Cyl & Ø250 Spring Cyl) | |
| KEY INFORMATION: | | | 9 - 90 psi Spring | B - 316SS (A4) External Fasteners ⁹ | | | |
| 1 - Aluminium BS1474 - HE30 TF or Equivalent Hard Anodised (Magnesium Content 0.6 - 1.2% by wt) | | | 10 - 100 psi Spring | Where multiple features apply, specify all relevant letters in Part No. | | | |
| 2 - Carbon Steel EN10277:1999 - 1.0718 or Equivalent Tyrods EN8 - BS/EN10083-1 Grade C4OE (ES1.1186) Cold Drawn Condition | | | 11 - 110 psi Spring | | | | |
| 3 - Carbon Steel EN10277:1999 - 1.0718 or Equivalent Welded 1.0401, 1.0402 or Equivalent | | | 12 - 120 psi Spring | | | | |
| 4 - 316SS BS970: 316S16 - Cold Drawn Condition Nitrile NBR 70 or equivalent (see data sheet for compound 366470) - Standard Feature | | | 13 - 130 psi Spring | | | | |
| 5 - EN8 - BS/EN10083-1 Grade C4OE (ES1.1186) Cold Drawn Condition - Nitrotec Treated | | | 14 - 140 psi Spring | | | | |
| 6 - 17-4PH - In annealed state | | | 15 - 150 psi Spring | | | | |
| 7 - EPDM 70 or equivalent (see data sheet compound 55914) | | | Blank - no spring | | | | |
| 8 - Viton or equivalent (see data sheet for compound 514670) | | | | | | | |
| 9 - A4 Standard Stainless Steel Fasteners | | | | | | | |
| 10 - The spring size indicates the specific spring set fitted within a given actuator. The spring is sized based on a pneumatic supply to enable the actuator to deliver a balanced torque profile on both pressure and spring strokes for the actuator at the air pressure indicated. The same spring sets are used in hydraulic actuators and are selected to match the application criteria. | | | | | | | |
| 11 - Design as type C but all Carbon Steel replaced by 316 Grade Stainless Steel | | | | | | | |
| 12 - Design as type S but all Carbon Steel replaced by 316 Grade Stainless Steel | | | | | | | |



NOTE 1:
Contract extras are designated in the contract file (identifiable from the Serial Number). Typical extras may be non-standard paint finish, extra tagging requests etc.

SERIAL NUMBERS:
Each Camtorc actuator manufactured is identifiable from its unique Serial Number. This comprises the Contract Number, the Number of the actuator on that contract and the year of manufacture

| REV | DRAWN | DATE | CHK'D | ECO |
|-----|-------|----------|-------|---------|
| | PT | 25.9.09 | | 09-1158 |
| A | PT | 26.11.09 | | 09-1259 |
| B | PT | 27.11.09 | | 09-1261 |
| C | PT | 9.8.10 | | 10-1438 |

TITLE:
Camtorc Range Master Model Description

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DEBUR AND BREAK SHARP EDGES
MATERIAL:
WEIGHT(g):

DWG NO. **A190219**

SCALE: 1:1

SHEET 1 OF 1

A4