

**Title: ACTUATOR & MODULAR ADD-ON UNIT MATERIALS  
OF CONSTRUCTION & STANDARD FINISHES**

| <b><u>PART</u></b><br><b>(Actuator Model No.)</b>                                              |  |  | <b><u>STANDARD FINISH</u></b> | <b><u>MATERIAL</u></b>         |
|------------------------------------------------------------------------------------------------|--|--|-------------------------------|--------------------------------|
| Actuator Casing<br>(OM, 01, 02,)                                                               |  |  | Epoxy thermoset powder        | Zinc alloy                     |
| Actuator Casing<br>(03, 05, 07, 08, 09, 10, 12, 14, 15)<br>(16, 18, 20, 21, 30, 40, 60)        |  |  | Epoxy thermoset powder        | Aluminium alloy                |
| Spring Casing<br>(02, 03)                                                                      |  |  | Epoxy thermoset powder        | Zinc alloy                     |
| Spring Casing<br>(03, 05, 07, 08, 09, 10, 12, 14, 15)<br>(16, 18, 20, 21, 30, 40, 60)          |  |  | Epoxy thermoset powder        | Aluminium alloy                |
| ULS/VLS Limit Switch box<br>Casing                                                             |  |  | Epoxy thermoset powder        | Aluminium alloy                |
| AP & EL Positioner Casing                                                                      |  |  | Epoxy thermoset powder        | Zinc alloy                     |
| EHD Control Box<br>Hydraulic Pump & Motor                                                      |  |  | Epoxy thermoset powder        | Zinc alloy                     |
| Vane<br>(07, 08, 09, 10, 12, 14, 15,<br>16, 18, 20, 21, 30, 40, 60)                            |  |  | Zinc Plate                    | S.G.iron                       |
| Vane<br>(OM, 01, 02, 03, 05)                                                                   |  |  | -                             | Investment cast stainless iron |
| Couplings                                                                                      |  |  | Zinc Plate                    |                                |
| Carbon steel                                                                                   |  |  |                               |                                |
| Side Plates<br>(OM, 01, 02, 03, 05, 07, 08, 09, 10,<br>12, 14, 15, 16, 18, 20, 21, 30, 40, 60) |  |  | -                             | Moulded polymer                |
| Side Plates<br>(18, 20, 21, 30, 40, 60)                                                        |  |  | Epoxy thermoset powder        | Carbon steel                   |
| Side Plate Space filling<br>(05, 07, 10, 14, 16, 18)                                           |  |  |                               | Moulded polymer                |
| Seal Expanders                                                                                 |  |  | -                             | Stainless steel                |
| Clock Type Spring<br>(01, 02, 03, 05, 07, 08, 09, 10, 12, 14, 15, 16, 18)                      |  |  | -                             | Carbon spring steel            |

|       |        |        |                                                |               |
|-------|--------|--------|------------------------------------------------|---------------|
| Issue | Signed | Date   | KINETROL Trading Estate Farnham Surrey England | Doc.No. TD 14 |
| BB    | T.L.   | DEC-25 |                                                | Page 1 of 2   |

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|-----------------------------------------------------------------|-------------------------------|------------------------------------------|
| Vane Seals (Std. & Low temp.)<br>(High Temp.)                   | -                             | Polyurethane<br>Fluorocarbon rubber      |
| Shaft Seals (Std.)<br>(High Temp.)<br>(Low Temp.)               | -                             | NBR<br>Fluorocarbon rubber<br>EPDM       |
| Limit switch coupling: (Refer to<br>product I.O.M. for details) | -<br>Zinc Plate               | Moulded polyamide,<br>or carbon steel    |
| Spring return & EHD coupling                                    | Zinc Plate                    | Carbon steel                             |
| Actuator Case Screws                                            | -                             | Stainless Steel                          |
| Actuator Bearing - all actuators                                | -                             | PTFE/Bronze backed Steel                 |
| Spring Return Bearing                                           | -                             | PTFE/Bronze backed Steel                 |
| Din Flange<br>(03)                                              | Epoxy thermoset powder        | Zinc alloy                               |
| Din Flange<br>(05, 07, 08, 09, 12, 14, 15)                      | Epoxy thermoset powder        | Aluminium alloy                          |
| Din Flange Fixing Screws                                        | Zinc Plate or Natural         | High tensile steel<br>or Stainless Steel |
| Position Indicator                                              | -                             | Moulded polymer                          |
| Namur Adaptor                                                   | Epoxy thermoset powder        | Aluminium alloy                          |
| ISO Adaptor (03)                                                | Epoxy thermoset powder        | Zinc alloy                               |
| (05, 07, 08, 09)                                                | Epoxy thermoset powder        | Aluminium alloy                          |
| Position Monitor – Std.                                         | -                             | Polycarbonate                            |
| – Chemically resistant                                          | -                             | Polyurethane                             |
| – Anti-static                                                   | -                             | Polycarbonate                            |
| K-Box – casing                                                  | Epoxy thermoset powder        | Aluminium alloy                          |
| – handwheel (sizes 05,<br>07, 08, 09, 10 & 12)                  | Epoxy thermoset powder        | Aluminium alloy                          |
| – handwheel (size 14)                                           | Epoxy thermoset powder        | Carbon steel                             |
| – input shaft                                                   | -                             | Stainless steel                          |
| – output shaft                                                  | Zinc Plate                    | Carbon steel                             |
| 180° / 120° units – Housing                                     | Epoxy thermoset powder        | 05-15 Aluminium alloy                    |
| - Base plate                                                    | Epoxy thermoset powder        | Carbon steel                             |
| - input shaft                                                   | -                             | Carbon steel                             |
| - output shaft                                                  | Zinc Plate                    | Carbon steel                             |

**KINETROL RESERVES THE RIGHT TO USE SUPERIOR MATERIALS WITHOUT PRIOR NOTICE.  
FOR MORE DETAILS CONTACT KINETROL.**

|              |               |             |                 |                                      |                      |
|--------------|---------------|-------------|-----------------|--------------------------------------|----------------------|
| <b>Issue</b> | <b>Signed</b> | <b>Date</b> | <b>KINETROL</b> | <b>Trading Estate Farnham Surrey</b> | <b>Doc.No. TD 14</b> |
| BB           | T.L.          | DEC-25      |                 | England                              | Page 2 of 2          |