

## Data sheet

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# Hytork XL

# High Temperature Actuator

## With a limited operational time and number of cycles.

These Hytork XL Actuators contain the same special soft parts and grease to enable them to remain functional at high temperatures, but now for a limited period of time. This requirement applies to applications which need to cycle a few times during the start of a fire. A typical sample to which this requirement applies are venting systems in tunnels.

Test Actuators have been subjected to a specific High Temperature / Functional test ;

### Test Procedure

1. Heat Actuator to 250°C / 482°F for 2 hours.
  - I. Cycle Actuator 4 times at beginning of 2 hour period.
  - II. Cycle Actuator 2 times every 15 minutes.
  - III. Cycle Actuator 4 times at end of 2 hour period.
2. Heat Actuator to 300°C / 572°F for 30 minutes.
  - I. Cycle Actuator 4 times at beginning of 30 minute period.
  - II. Cycle Actuator 2 times after 15 minutes.
  - III. Cycle Actuator 4 times at end of 30 minute period.

### Note :

When subjected to temperatures above 150°C / 302°F, carbon steel springs will lose output force at both spring start and spring end positions. Therefore allowances in sizing actuators must be made when using Carbon Steel Springs.

### Specifications:

Temperature range	: -20°C to +250°C for 2 hours -4°F to / +482°F for 2 hours
Dynamic O-ring seals	: Flourocarbon Rubber 9775 (Viton).
Static O-ring seals	: Nitrile Rubber (Buna-N)
Bearing material	: High Temp composite laminate L10/G
Grease	: Saphire HiTemp2, a synthetic hydrocarbon oil with a lithium complex thickener (NLGI No. 2).

Component Description	Material	Qty	Model Numbers
<b>Dynamic 'O'-ring Seals (to be exchanged)</b>			
'O' ring Pinion top	Flourocarbon Rubber 9775 (Viton).	1	XL26 - XL4581
'O' ring Pinion Bottom	Flourocarbon Rubber 9775 (Viton).	1	XL26 - XL4581
'O' ring Piston	Flourocarbon Rubber 9775 (Viton).	2	XL26 - XL4581
<b>Static 'O'-ring Seals (same as standard)</b>			
'O' ring End Cap	Nitrile Rubber (Buna-N)	2	XL26 - XL4581
'O' ring SAFEKEY Head	Nitrile Rubber (Buna-N)	2	XL26 - XL4581
Thread Seal	Stainless Steel / Rubber	2	XL26 - XL221
'O' ring Limit Stops	Nitrile Rubber (Buna-N)	2	XL281 - XL4581
'O' ring End Cap Stop bolt	Nitrile Rubber (Buna-N)	2	XL26 - XL4581
<b>Wear Strips and Bearings (to be exchanged)</b>			
Piston Wear Strips	High Temp composite laminate L10/G	2	XL26 - XL4581
Piston Head Glide Ring	High Temp composite laminate L10/G	2	XL26 - XL4581
Pinion Top Bearing	High Temp composite laminate L10/G	1	XL26 - XL4581
Pinion Bottom Bearing	High Temp composite laminate L10/G	1	XL26 - XL4581



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USA: +1 813 630 2255 (fax 630 9449) UK: +44 191 5180020 (fax 5180032)



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