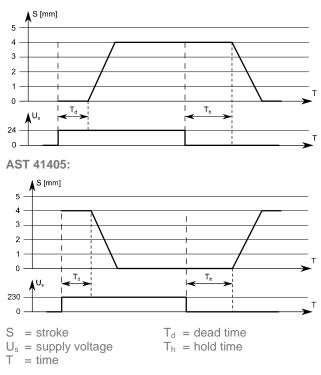


## THERMAL ACTUATORS AST 40405 AND AST 41405

AST 40405 and AST 41405 thermal actuators are designed for controlling control valves in HVAC automation systems. The thermal actuator can be controlled by 24 Vac/dc on/off control signal or PWM signal. AST 40405 is normally closed and AST 41405 is normally open.

The following figures illustrate the function principles of the thermal actuators.

AST 40405:



**NOTE:** Do not use ammoniac materials or glues near the thermal actuators.

Thermal actuators are mounted to the NV2 control valves by using a VA 80 adapter ring. Special adapter rings are also available for other valve manufacturers' valves.

AST 40405 thermal actuators are delivered in "First open" status which leaves the valve a bit open after actuator assembly. This allows the system filling and flushing even if the control system is not yet functioning. The actuator set to normal operation after the actuator is connected to the supply voltage for at least 6 minutes. You cannot activate the "First open" function again.



**Technical data:** 

Supply Power consumption Operating current Start-up current Force Stroke Running time De-energized position AST 40405 AST 41405 Mountina Fluid temperature Ambient temperature Housing Wiring: οv Blue 24 V Brown Ordering guide: Model AST 40405-1210041 00N00-0 AST 41405-1210046 10N00-0 BA-ALL.5.2.01 1220021 24 Vac/Vdc (22...28 V) 1,0 W 42 mA < 300 mA (max. 2 min.) 95...105 N 4 mm approx. 3,5 min (close / open) closed (NC), actuator in lower position

open (NO), actuator in upper position by using an adapter ring (sold separately) 0...100 °C 0...60 °C IP54, polyamide

Product number Description thermal actuator 24 V, NC, removable cable (sold separately) thermal actuator 24 V, NO, removable cable (sold separately) removable cable, 1 m BA-ALL.5.2.02 1220022 removable cable, 2 m BA-ALL.5.2.03 removable cable, 3 m 1220023 BA-ALL.5.2.05 1220025 removable cable, 5 m BA-ALL.5.2.10 1220026 removable cable, 10 m BA-ALL.5.2.15 1220027 removable cable, 15 m BA-ALL.5.2.20 1220028 removable cable, 20 m

Products fulfill the requirements of directives 2004/108/EC and 2006/95/EC and are in accordance with the standards EN60730-1, EN60730-2-14:2009-6 and EN60730-2-14/A2:2008.

Produal Ov

 Keltakalliontie 18, 48770 Kotka FINLAND
 Tel: +358 10 219 9100 / Fax: +358 5 230 9210

 Information is subject to change without prior notice.

info@produal.fi www.produal.com