

Thermal actuators and valves

Thermal actuator



Thermal actuators designed for the valve series FVR and VHR. The actuators used together with any of the valves below, are suitable for radiator circuits, solar heating systems, heating or cooling coils, for floor heating etc. Adapter VA54 is included on delivery.

- 24 V AC/DC or 230 V AC
- Position indicator

Technical data	
Supply voltage	24 V AC/DC or 230 V AC
Control signal	On/off, 0...10 V DC
Power consumption	24 V AC/DC, 2 VA, start-up 250 mA or 230 V AC, 2 VA, start-up 300 mA
Closing time	Approx. 3 min
Force	100 Nm
Stroke	4 mm
Ambient temperature	0...60°C
Cable length	1 m
Protection class	IP54

Description	Supply voltage	Control signal	Type	Notes
Thermal actuator	24 V AC/DC	On/off, NC	RTAM-24	
Thermal actuator	24 V AC/DC	On/off, NO	RTAOM-24	
Thermal actuator	230 V AC	On/off, NC	RTAM-230	
Thermal actuator	230 V AC/DC	On/off, NO	RTAOM-230	
Thermal actuator	24 V AC	2...10 V DC, NC	RTAM-24A	

2-way valve



2-way zone-valve to be used with the RTA & RTAO actuators.

Technical data	
Fluid temperature	-20...+100°C
Kvs	See below
Max diff pressure	80 kPa
Max closing pressure	250 kPa, DN25...32 50 kPa
Stroke	1.7 mm
Pressure rating	PN10

Description	Connection	Kvs	Type	Notes
2-way valve DN10	(3/8")	0.7	VHR10	
2-way valve DN15	(1/2")	0.7	VHR15	
2-way valve DN25	(1")	1.5	VHR25	

2-way valve



2-way zone-valve to be used with the RTA & RTAO... actuator.
Adjustable Kvs-value.

Technical data	
Fluid temperature	2...90°C
Kvs	0.01...0.9 (FVR20 0.01...1.1)
Stroke	1.7 mm
Max. diff. pressure	150 kPa
Pressure rating	PN10

Description	Connection	Type	Notes
2-way valve DN10	(3/8")	FVR10	
2-way valve DN15	(1/2")	FVR15	
2-way valve DN20	(3/4")	FVR20	

Accessories for thermal actuators & valves

Adapters



Adapters to adapt the RTAM & RTAOM actuators to other valve brands.

Actuator supplier	Dimensions	Type	Colour
TA	M28 x 1.5	VA32	green
TA	M30 x 1.5	VA80	white/grey
Oventrop	M30 x 1.5	VA39	white
Cazzaniga	M32 x 1.5	VA44H	grey
Honeywell	M30 x 1.5	VA50	dark grey
MMA	M28 x 1.5	VA54	dark blue
Danfoss RAV/L	M30 x 1.5	VA59	light grey
Danfoss RAV	M30 x 1.5	VA72	light grey
Danfoss RA	M30 x 1.5	VA78	white
Heimeier	M30 x 1.5	VA80	white/grey

Valve connections (FVR-valves)



Description	Connection	Type	Notes
Tail and nut	3/8'	4161201	
Tail and nut	1/2'	4161202	
Tail and nut	3/4'	4161203	
Nut and olive	3/8'	4161841	
Nut and olive	1/2'	4160801	
Connection inlet	1'	4806336	

Fitting for valve inlet (FVR-valves)



Description	Connection	Type	Notes
Male nut and olive	3/8', K10	4161402	
Male nut and olive	3/8', K12	4161403	
Male nut and olive	1/2', K10	4161101	
Male nut and olive	1/2', K12	4161102	
Male nut and olive	1/2', K15	4161103	

Pre-set tooling for FVR valves

Description	Type	Notes
Pre-set tooling for FVR-valves	FV5	