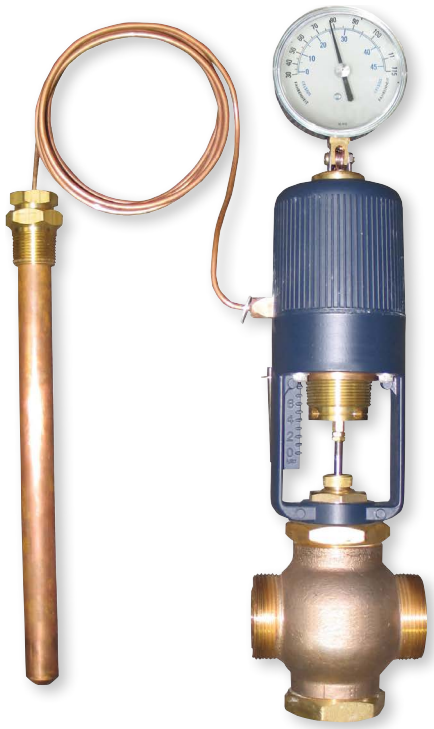
Dwyer

SERIES 38R | W.E. ANDERSON® BY DWYER

SELF-ACTING TEMPERATURE CONTROL VALVE

Requires No External Power



SERIES 38R Self-Acting Temperature Control Valves require no external power sources and are ideal for regulating the temperature of tanks, process streams and various types of industrial equipment. The actuators are made with a rugged die-cast aluminum housing with a fully enclosed bellow assembly and internal over-range protection. Valves are offered in 1/2″ through 6″ connection sizes and 1/8″ through 6″ port sizes. The valve bodies are available in single-seated direct or reverse-acting, double-seated direct or reverse-acting, and 3-way designs with four choices of body material: bronze, cast-iron, cast-steel, and 316 SS. Actuators are available with or without indicating dials or in Fail-Safe. Non-indicating actuators feature a lower profile and should be implemented where space constraints may be an issue while the indicating actuator allows the operator to verify the process temperature and aid in temperature adjustment. Fail-Safe actuators are designed to cause the valve to fail in the safe control position (open in cooling application, closed in a heating application) should some accidental damage occur to the terminal system, resulting in loss of pressure charge. Also available with the Series 38R are a wide range of capillaries, bulbs, and thermowells.

Please request a copy of our Valve Catalog, CT-VC, or visit our website at www.dwyer-inst.com to see full model information and ordering details for the Series 38R.

FEATURES/BENEFITS

- Self-operated design
- Internal over range protection
- Heavy duty die cast aluminum actuator

APPLICATIONS

- Temperature control without external power or control inputs

SPECIFICATIONS
VALVE BODY
Service: Compatible liquids, gases, and steam.
Line Size: 1/2″ to 2″.
Body Style: 2-way or 3-way.
End Connections: 1/2″ to 2″ female NPT.
Pressure Limit: 250 psi (17.2 bar).
Wetted Materials: Body material: Bronze or 316 SS; Trim: 316 SS; Packing: PTFE.
Temperature Limits: 410°F (210°C) @ 250 psi (17.24 bar).
ACTUATOR
Power Requirements: Fully self-contained, no external power required.
Indicator: 3-1/2″ dial thermometer, SS case, swivel and angle adjustable (available for indicating actuator only).
Housing: Die cast aluminum, epoxy powder coated blue finish.
Set Point Scale: Integral to housing.
Bellows: High-pressure brass, corrosion resistant, tinplated finish.
Adjustment Screws: Brass.
Range Adjustment Spring: Cadmium plated.
Overrange Protection: 100°F over upper range limit for temporary situations.
Note: See website for additional options.

USA: California Proposition 65
⚠WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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MODEL CHART								
Example	**38R**	**-D00VA32**	**-1**	**01**	**36**	**2**	**-R09**	**38R-D00VA32-101362-R09**
Series	38R							Self-acting temperature control valve
Valve		D00VA32						1/2″ NPT single seat two-way bronze valve, direct acting
		D01VA32						3/4″ NPT single seat two-way bronze valve, direct acting
		D02VA32						1″ NPT single seat two-way bronze valve, direct acting
		D03VA32						1-1/4″ NPT single seat two-way bronze valve, direct acting
		D04VA32						1-1/2″ NPT single seat two-way bronze valve, direct acting
		D05VA32						2″ NPT single seat two-way bronze valve, direct acting
		R00VA32						1/2″ NPT single seat two-way bronze valve, reverse acting
		R01VA32						3/4″ NPT single seat two-way bronze valve, reverse acting
		R02VA32						1″ NPT single seat two-way bronze valve, reverse acting
		R03VA32						1-1/4″ NPT single seat two-way bronze valve, reverse acting
		R04VA32						1-1/2″ NPT single seat two-way bronze valve, reverse acting
		R05VA32						2″ NPT single seat two-way bronze valve, reverse acting
		D00VA42						1/2″ NPT single seat two-way 316 SS valve, direct acting
		D01VA42						3/4″ NPT single seat two-way 316 SS valve, direct acting
		D02VA42						1″ NPT single seat two-way 316 SS valve, direct acting
		D03VA42						1-1/4″ NPT single seat two-way 316 SS valve, direct acting
		D04VA42						1-1/2″ NPT single seat two-way 316 SS valve, direct acting
		D05VA42						2″ NPT single seat two-way 316 SS valve, direct acting
		R00VA42						1/2″ NPT single seat two-way 316 SS valve, reverse acting
		R01VA42						3/4″ NPT single seat two-way 316 SS valve, reverse acting
		R02VA42						1″ NPT single seat two-way 316 SS valve, reverse acting
		R03VA42						1-1/4″ NPT single seat two-way 316 SS valve, reverse acting
		R04VA42						1-1/2″ NPT single seat two-way 316 SS valve, reverse acting
		R05VA42						2″ NPT single seat two-way 316 SS valve, reverse acting
		300WA31						1/2″ NPT three-way bronze valve
		301WA31						3/4″ NPT three-way bronze valve
		302WA31						1″ NPT three-way bronze valve
		303WA31						1-1/4″ NPT three-way bronze valve
		304WA31						1-1/2″ NPT three-way bronze valve
		305WA31						2″ NPT three-way bronze valve
		300WA41						1/2″ NPT three-way 316 SS valve
		301WA41						3/4″ NPT three-way 316 SS valve
		302WA41						1″ NPT three-way 316 SS valve
		303WA41						1-1/4″ NPT three-way 316 SS valve
		304WA41						1-1/2″ NPT three-way 316 SS valve
		305WA41						2″ NPT three-way 316 SS valve
Actuator			1					Non-indicating actuator
			2					Indicating actuator
Bulb and Capillary				01				Brass union connection
				02				316 SS union connection
				03				Brass adjustable union connection
				04				316SS adjustable union connection
				05				Brass plain bulb
				06				316 SS plain bulb
				07				FEP Covered brass bulb
				08				FEP Covered 316 SS bulb
				09				Brass union with stainless steel spiral armor
				10				316 SS union with stainless steel spiral armor
Capillary Length					36			Capillary length in feet. Example 36 is 36´ length
Thermowell						0		No thermowell
						1		316 SS thermowell, 1-1/4″ external connection
						2		Brass thermowell, 1-1/4″ external connection
Temperature Range							R03	30 to 115°F (-1 to 46°C)
							R04	50 to 140°F (10 to 60°C)
							R05	75 to 165°F (24 to 74°C)
							R06	105 to 195°F (41 to 91°C)
							R07	125 to 215°F (52 to 102°C)
							R09	155 to 250°F (68 to 121°C)
							R10	200 to 280°F (93 to 138°C)
							R11	225 to 315°F (107 to 157°C)
							R12	255 to 370°F (124 to 188°C)
							R13	295 to 420°F (146 to 216°C)
							R14	310 to 440°F (154 to 227°C)

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