

Thermostatic Radiator Valves and Actuators

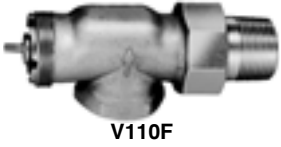
V110 High Capacity Thermostatic Radiator Valves



V110D



V110E



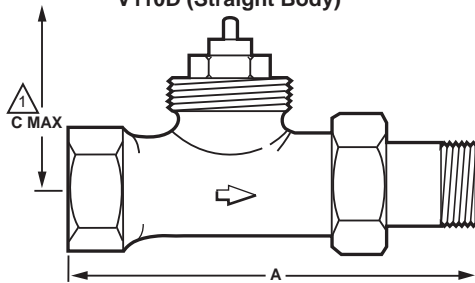
V110F

High Capacity Thermostatic Radiator Valves with T104 Thermostatic Actuators provide precise and automatic control of room temperature in two-pipe systems by modulating the flow of hot water or steam through free-standing radiators, convectors and other heating units with high capacity requirements.

- Designed with the higher capacity normally required by North American heating systems.
- Valve seat disc, which is made of resilient material (EPDM), ensures tight shutoff on steam or hot water systems.
- Nickel-plated bronze casted body with working parts in cartridge insert for ease of service.
- All working parts are replaceable using service tool (MT100C1011) while valve remains in service, in-line, under pressure.
- Valves normally open without control mounted.
- Valves may be used with T104 Thermostatic Actuators.
- Meet ASHRAE Standard 102-1989.

Dimensions in inches (millimeters)

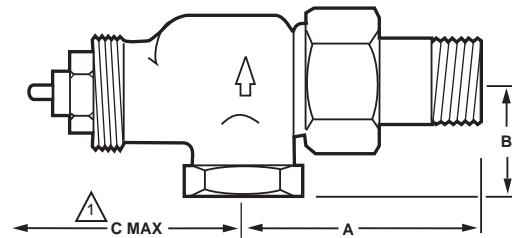
V110D (Straight Body)



PIPE SIZE	A IN. (MM)	C MAX IN. (MM)
1/2 INCH	3-3/4 (95)	4-3/4 (121)
3/4 INCH	4-1/8 (105)	4-3/4 (121)
1 INCH	4-15/16 (125)	4-3/4 (121)
1-1/4 INCH	5-7/8 (149)	5 (127)

\triangle C MAX DIMENSION IS WITH T104 CONTROL INSTALLED. M18959A

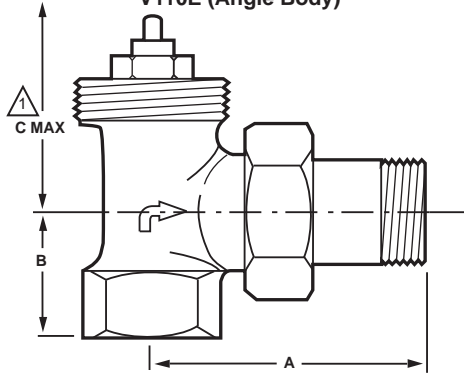
V110F (Horizontal Angle Body)



PIPE SIZE	A IN. (MM)	B IN. (MM)	C MAX IN. (MM)
1/2 INCH	2-1/4 (57)	1 (25)	5-1/8 (130)
3/4 INCH	2-9/16 (65)	1-1/8 (29)	5-1/4 (133)
1 INCH	2-15/16 (74)	1-3/16 (30)	5-1/4 (133)
1-1/4 INCH	3-1/2 (89)	2-3/16 (56)	5-1/4 (133)

\triangle C MAX DIMENSION IS WITH T104 CONTROL INSTALLED. M18961A

V110E (Angle Body)



PIPE SIZE	A IN. (MM)	B IN. (MM)	C MAX IN. (MM)
1/2 INCH	2-9/16 (65)	1 (25)	4-3/4 (121)
3/4 INCH	2-5/8 (67)	1-1/8 (29)	4-3/4 (121)
1 INCH	3 (76)	1-5/16 (33)	4-3/4 (121)
1-1/4 INCH	3-5/8 (90)	1-11/16 (43)	5 (127)

\triangle C MAX DIMENSION IS WITH T104 CONTROL INSTALLED. M18960A

Capacity: high

Materials (Body): Nickel Plated Bronze

Differential Pressure Rating: 17 psi maximum

Pressure Ratings (Hot Water): 150 psi maximum (1034 kPa maximum)

Pressure Ratings (Steam): 15 psi maximum (103 kPa)

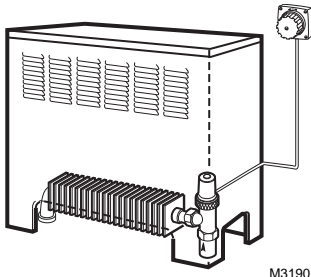
Temperature Rating: 248 F Maximum (120 C Maximum)

Cartridge Change Tool: Yes - Use MT110C1011

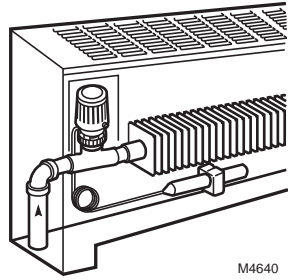
Actuator Connection: M40 x 1.5

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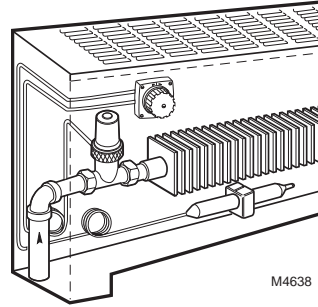
Typical Installations



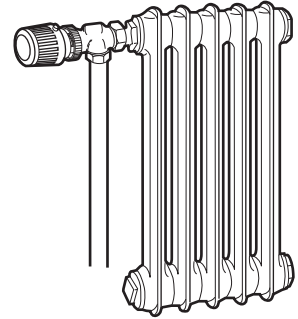
M3190



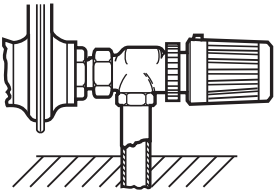
M4640



M4638



M4632



M12935

Product Number	Application	Pipe Size		Body Pattern	Capacity		Connection Type	Used With
		inch	DN		(Cv)	(Btu/hr-steam)		
V110D1000/U	Precise and automatic control of room temperature in two-pipe systems by modulating the flow of hot water or steam through high capacity heating units.	1/2 in.	DN15	Straight	4.6 Cv	127,000 Btu/hr	Threaded	T104
V110D1008/U		3/4 in.	DN20	Straight	5.8 Cv	162,000 Btu/hr	Threaded	T104
V110D1016/U		1 in.	DN25	Straight	7.0 Cv	193,000 Btu/hr	Threaded	T104
V110D1024/U		1 1/4 in.	DN32	Straight	8 Cv	193,000 Btu/hr	Threaded	T104
V110D5001/U		1/2 in.	DN15	Straight	4.6 Cv	127,000 Btu/hr	Sweat	T104
V110D5009/U		3/4 in.	DN20	Straight	5.8 Cv	162,000 Btu/hr	Sweat	T104
V110D5017/U		1 in.	DN25	Straight	7.0 Cv	193,000 Btu/hr	Sweat	T104
V110E1004/U	Precise and automatic control of room temperature in two-pipe systems by modulating the flow of hot water or steam through high capacity heating units when used with T104 Thermostatic Actuators	1/2 in.	DN15	Angle	4.6 Cv	127,000 Btu/hr	Threaded	T104
V110E1012/U		3/4 in.	DN20	Angle	5.8 Cv	162,000 Btu/hr	Threaded	T104
V110E1020/U		1 in.	DN25	Angle	7.0 Cv	193,000 Btu/hr	Threaded	T104
V110E1028/U		1 1/4 in.	DN32	Angle	8 Cv	193,000 Btu/hr	Threaded	T104
V110E5005/U		1/2 in.	DN15	Angle	4.6 Cv	127,000 Btu/hr	Sweat	T104
V110E5013/U		3/4 in.	DN20	Angle	5.8 Cv	162,000 Btu/hr	Sweat	T104
V110F1002/U		1/2 in.	DN15	Horizontal Angle	4.6 Cv	127,000 Btu/hr	Threaded	T104
V110F1010/U		3/4 in.	DN20	Horizontal Angle	5.8 Cv	162,000 Btu/hr	Threaded	T104
V110F1018/U		1 in.	DN25	Horizontal Angle	7.0 Cv	193,000 Btu/hr	Threaded	T104
V110F1026/U		1 1/4 in.	DN32	Horizontal Angle	8 Cv	193,000 Btu/hr	Threaded	T104
V110F5003/U		1/2 in.	DN15	Horizontal Angle	4.6 Cv	127,000 Btu/hr	Sweat	T104
V110F5011/U		3/4 in.	DN20	Horizontal Angle	5.8 Cv	162,000 Btu/hr	Sweat	T104