

NEW

Navigator[®] Digital Mixing Valves



Precise temperature control and programmable features bring safety and efficiency to your domestic hot water systems.

Celebrating the way the world washes.



SMARTER. SAFER. MORE ADVANCED TEMPERATURE CONTROL.

Bradley's new Navigator® digital mixing valve uses advanced technology to deliver and maintain water temperatures with incredible accuracy, especially during low demand periods.

To keep water clean and safe, the automatic daily ball rotation feature removes scale to keep the valve running smoothly and reduces cleaning and maintenance time. While the industry exclusive, programmable weekly thermal disinfection system raises temperatures to kill Legionella and other harmful bacteria.



According to the CDC, Legionnaires' disease in the U.S. has increased nearly 4x in the past 20 years.

The intuitive controller lets you take proactive control by setting the temperature for normal operation, and scheduling periodic thermal disinfection cycles. And with data logging and BMS integration allowing for remote monitoring, maintenance staff can be 100% confident the proper water temperature is being distributed.



KEY FEATURES



Durable, lead-free brass valve



High capacity flow rates



Tight temperature control +/- 3°F



Customizable thermal disinfection modes to kill Legionella



Self-cleaning for smooth operation



Connects to building management systems



Plug and play installation



Easy-to-use controller with data logging, alarming and status indication



COMPLETE ASSEMBLY FOR FAST INSTALLATION

DIGITAL CONTROLLER

RETURN WATER TEMPERATURE SENSOR

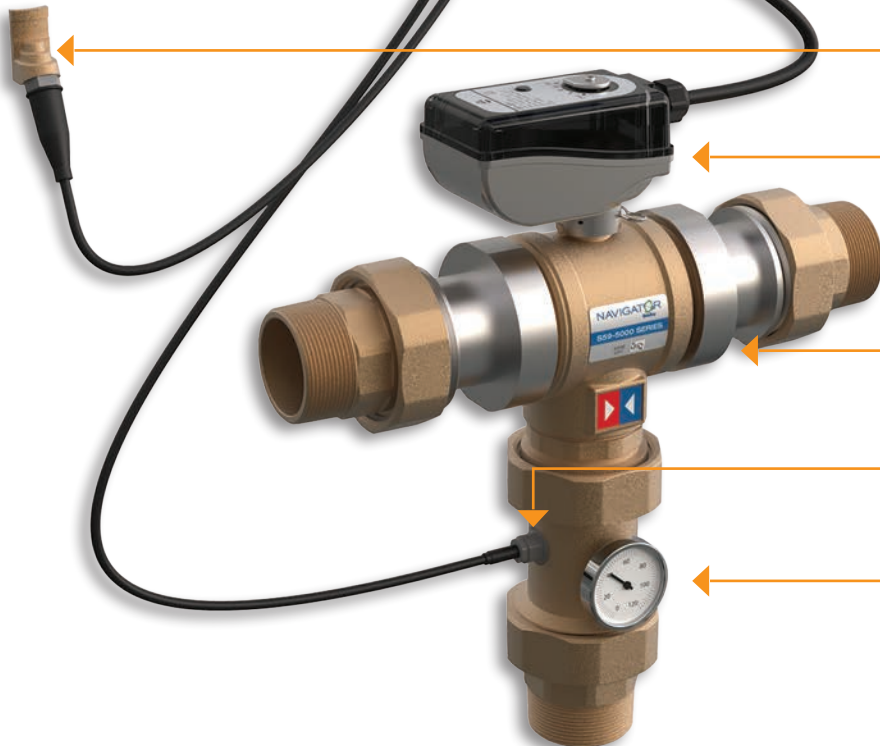
ACTUATOR

MIXING VALVE

INTEGRAL CHECK VALVES

MIXED OUTLET WATER TEMPERATURE SENSOR

MIXED OUTLET TEMPERATURE GAUGE



DIGITAL CONTROLLER FEATURES

The digital controller is the brains and mission control center for the valve — no computer or additional devices are needed. The large LCD screen displays key information such as the date, time, outlet and return water temperature. And LED status indicators and alarms let you know the valve is operating smoothly at a glance.

Menus are easy to navigate so you can quickly program the daily set point temperature and weekly thermal disinfection cycles, or check the comprehensive data log — which records temperatures every hour.

- 1 Large LCD screen
- 2 Time display: military or standard time
- 3 Mixed outlet water temperature (°C only)
- 4 Return water temperature (°C only)
- 5 Mixing valve Open/Close indicator
- 6 LED indicators for power, status, battery and alarms
- 7 Disinfection button activates thermal shock cycle
- 8 Navigation buttons
- 9 RS 485 front connection for fast data transfer



SCAN QR CODE TO WATCH VIDEOS ON HOW TO OPERATE THE CONTROLLER.

COMMERCIAL APPLICATIONS

Ideal for larger domestic hot water systems where sanitization, tight temperature control and frequent monitoring is of utmost importance.



SCHOOLS



HOSPITALS



HOTELS



APARTMENTS



NURSING HOMES



CORRECTIONAL FACILITIES

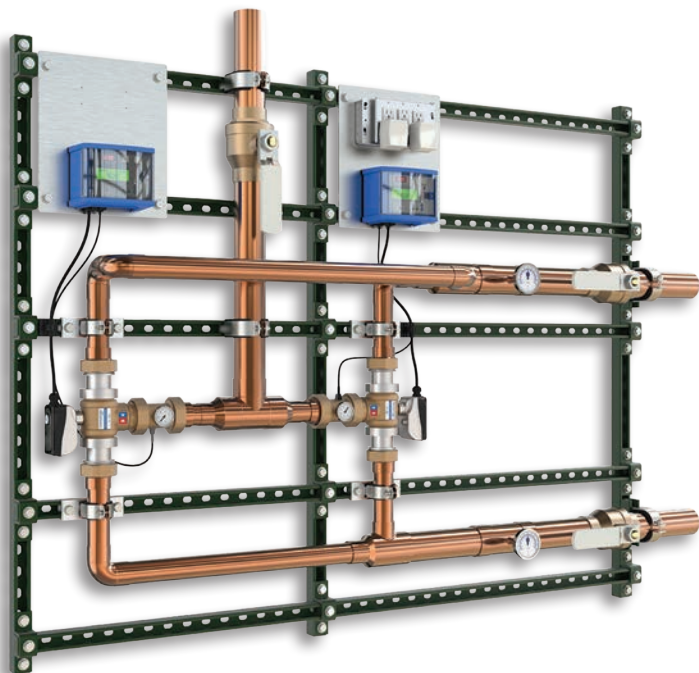
S59-5000 SERIES FLOW CAPACITIES — GPM

Model	Size	Min Flow	Pressure Drop – PSI									
			$C_v \backslash \Delta P$	5	7.5	10	15	20	30	45	60	
S59-5075	3/4"	2	9	20	25	29	35	41	50	61	70	
S59-5100	1"	3	19	43	53	61	75	87	106	130	150	
S59-5125	1-1/4"	4	24	53	65	75	91	106	129	158	183	
S59-5150	1-1/2"	7	42	95	116	134	164	189	232	284	328	
S59-5200	2"	9	46	102	125	145	177	204	250	307	354	

S59-5300 HIGH CAPACITY MANIFOLD SYSTEM & FLOW CAPACITIES — GPM

Combine two valves into a manifold system to deliver even higher flow rates up to 409 GPM at 20 psi drop.

Model	Min Flow	Pressure Drop – PSI									
		$C_v \backslash \Delta P$	5	7.5	10	15	20	30	45	60	
S59-5300	18	91	204	250	289	354	409	501	613	708	



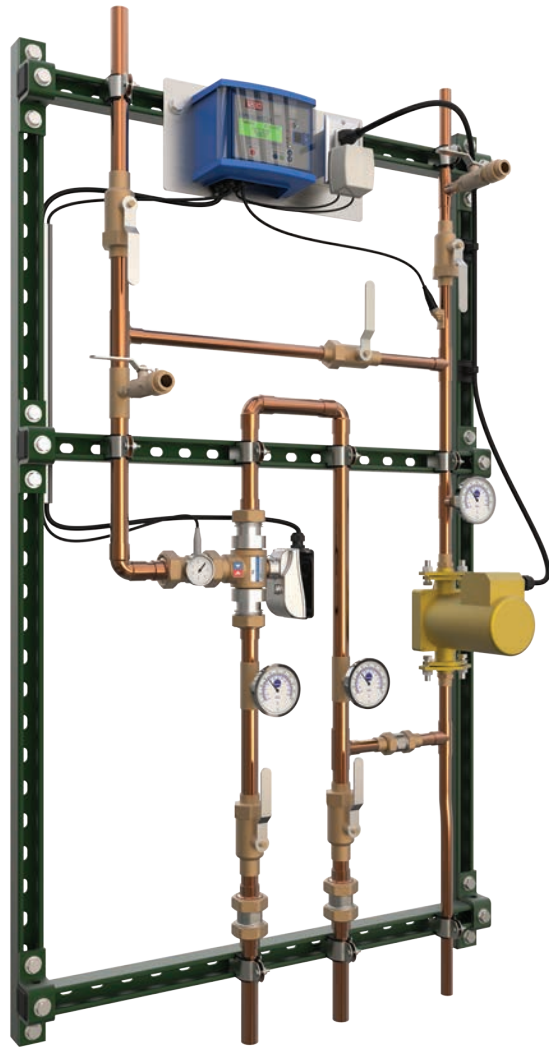
NAVIGATOR RECIRCULATION STATIONS

SAVE TIME & MONEY

Bradley's Navigator Recirculation Station takes the guesswork out of installing a digital mixing valve in a recirculation system. The pre-assembled, pre-tested recirculation station consists of a digital mixing valve and all necessary components making it easy to specify, and requires no factory technicians for installation.

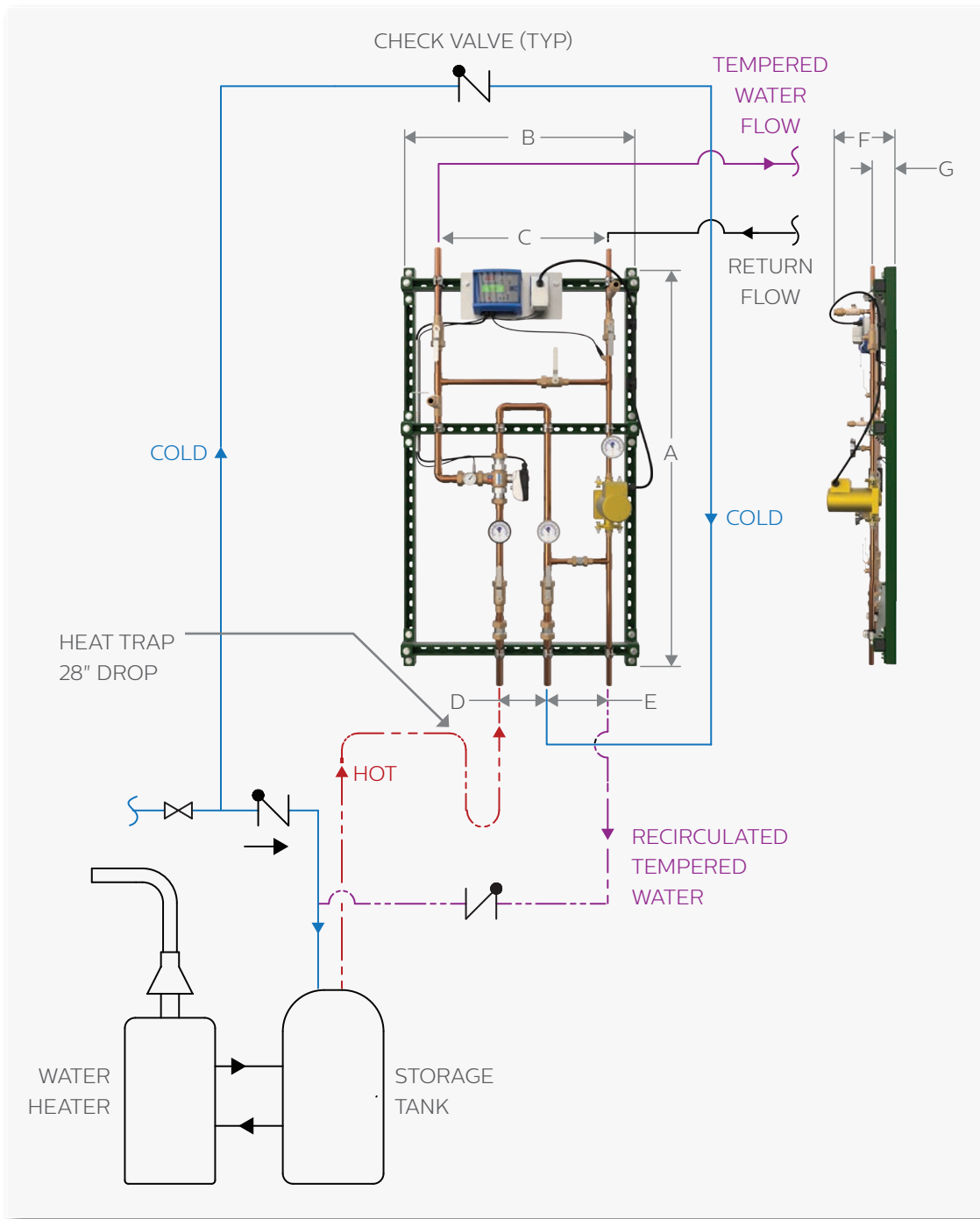
KEY FEATURES

- Pre-assembled and tested recirculation system
- Navigator® digital mixing valve
- Shutoff valves on inlets and outlets
- Temperature/pressure gauges on inlets
- Outlet setup and air purge connections
- Return line with circulating pump and check valves
- Easy installation and serviceability
- Electrical outlet
- Mounted to enamel-coated strut
- See technical data for available configurations



NRS SERIES FLOW CAPACITIES — GPM

Model	Size	Min Flow	Pressure Drop – PSI									
			Cv\ΔP	5	7.5	10	15	20	30	45	60	
NRS-D7	3/4"	2	9	20	25	29	35	41	50	61	70	
NRS-D10	1"	3	19	43	53	61	75	87	106	130	150	
NRS-D12	1-1/4"	4	24	53	65	75	91	106	129	158	183	
NRS-D15	1-1/2"	7	42	95	116	134	164	189	232	284	328	
NRS-D20	2"	9	46	102	125	145	177	204	250	307	354	



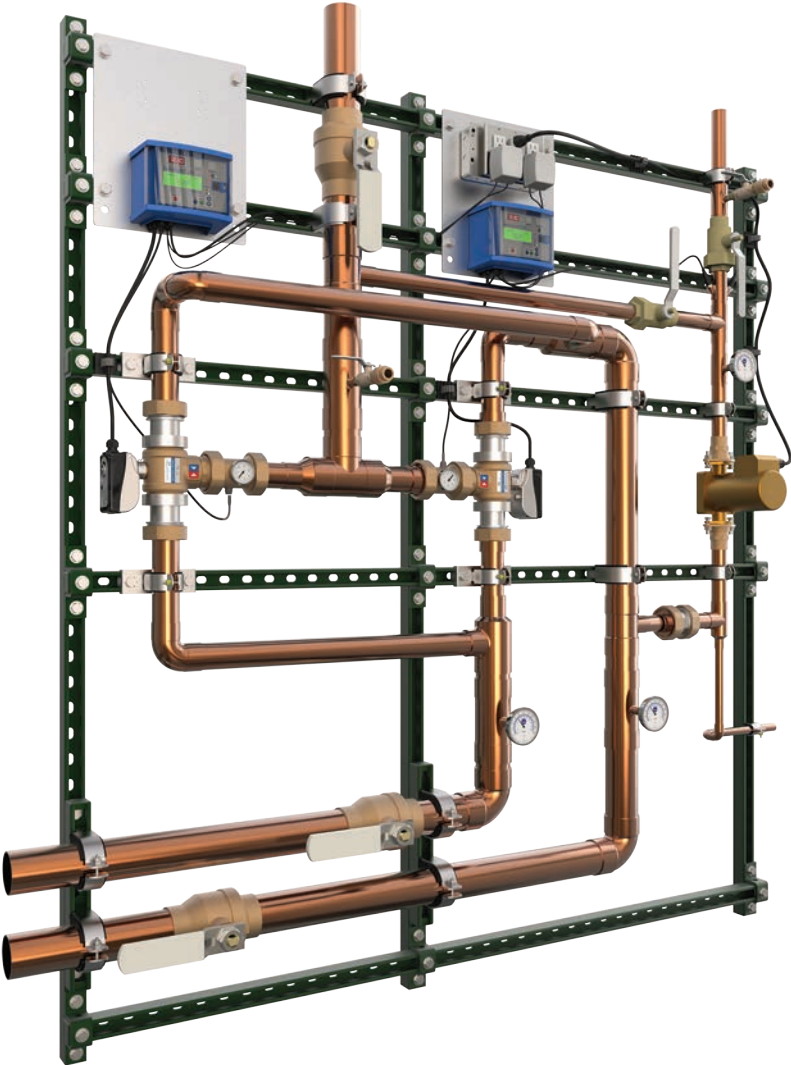
Model	Dimensions - Inches (mm)									
	A	B	C	D	E	F	G	X ^{NCT}	Y ^{NCT}	Z ^{NCT}
NRS-D7	60 (1524)	33 (838)	23-1/2 (597)	7 (178)	9 (229)	11 (279)	4 (102)	3/4 (19)	3/4 (19)	3/4 (19)
NRS-D10	60 (1524)	35 (889)	25 (635)	7 (178)	9 (229)	11 (279)	4 (102)	1 (25)	1 (25)	1 (25)
NRS-D12	60 (1524)	37 (940)	26 (660)	7 (178)	9 (229)	11 (279)	4 (102)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)
NRS-D15	66 (1676)	43 (1092)	31-1/4 (794)	10 (254)	9-1/4 (235)	11 (279)	4 (102)	1-1/2 (38)	1-1/2 (38)	1-1/2 (38)
NRS-D20	74 (1880)	45 (1143)	35 (889)	10-1/2 (267)	12 (305)	11 (279)	4 (102)	2 (51)	2 (51)	2 (51)

NOTE: Dimensions are reference only. Actual dimensions may vary ±1/2" (13 mm).

NAVIGATOR MANIFOLD RECIRCULATION STATIONS

NRS SERIES HIGH CAPACITY MANIFOLD RECIRCULATION STATION & FLOW CAPACITIES - GPM

All the components of a Navigator Recirculation System with two model S59-5300 digital mixing valves to provide flow rates up to 409 GPM at 20 psi drop.



Model	Min Flow	Pressure Drop – PSI								
		Cv\ΔP	5	7.5	10	15	20	30	45	60
NRS-D30	18	91	204	250	289	354	409	501	613	708

Advanced Temperature Control. Brought to Life.
 VALVES | EMERGENCY SAFETY | ELECTRIC TANKLESS HEATERS
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