

Webstone

VALVE INNOVATION

HYDRO-CORE™



PATENTS PENDING

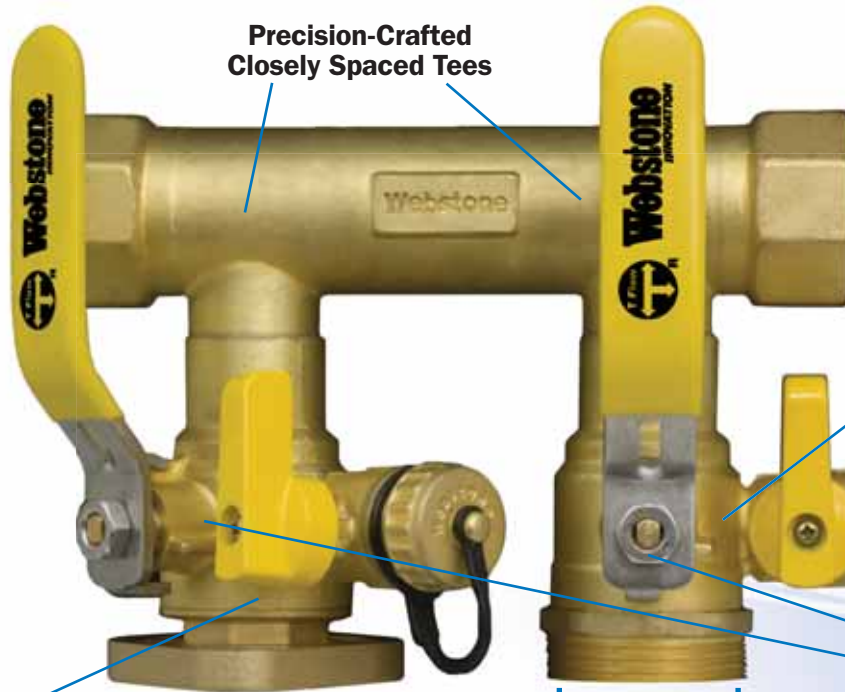
THE **CORE** OF ANY
PROFESSIONAL **HYDRONIC**
INSTALLATION

HYDRO-CORETM MANIFOLD

Fully-Insulated Body



Precision-Crafted Closely Spaced Tees



Webstone Ball DrainTM



Webstone Isolator[®] with Rotating Flange & Drain



T-Flow Ball for Compact Design



Directs flow into either the boiler or purge drain.

HYDRO-CORETM
UNION CONNECTION

- Separate component, required for installation
- Three distinct styles to meet your needs



With 1/4" Plugged Pressure Gauge Port



Connection Only

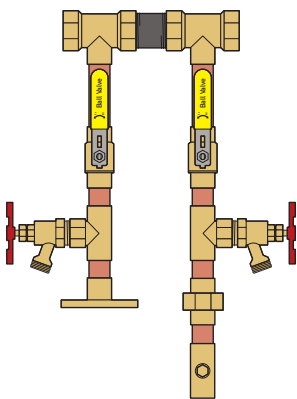


With Multiple Device Ports

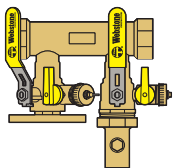
Plugged Connections for:

- (2) 3/4" devices (Pressure Relief Valve, Low Water Cutoff) OR
- (1) 3/4" device & (1) 1/4" Pressure Gauge

The Old Way



The Hydro-Core Way



- Replaces 15 individual components
- Eliminates 13 connections
- Saves space
- Saves nearly 2 hrs. of labor

HYDRO-CORETM
MANIFOLD

FLANGE OPTIONS



Flange Right



Flange Left

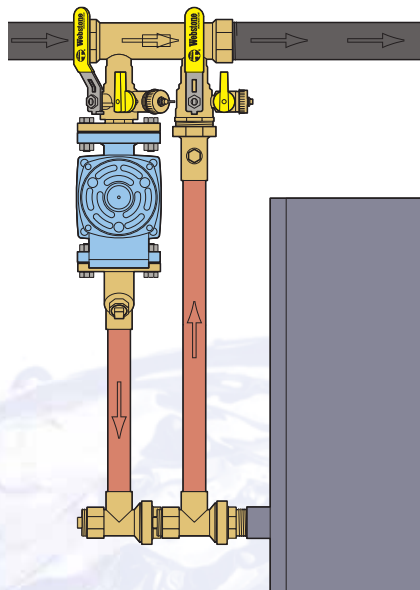


No Flange Double Ball Drain

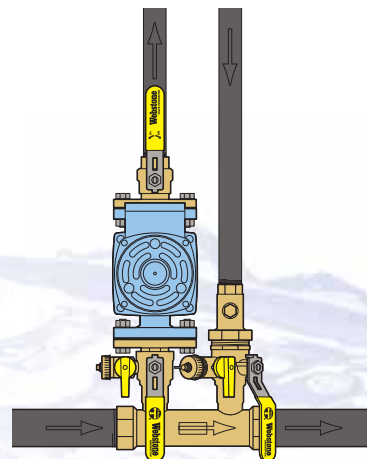
For boilers w/ integral circulator pumps

Near-Boiler Loops

- Complete Near Boiler Piping Kits available for select boiler models
- Components available for field fabricating numerous floor and wall hung boilers



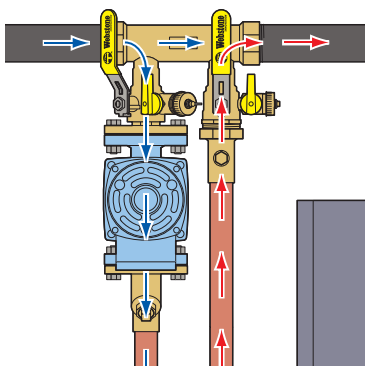
Secondary Circuit Loops



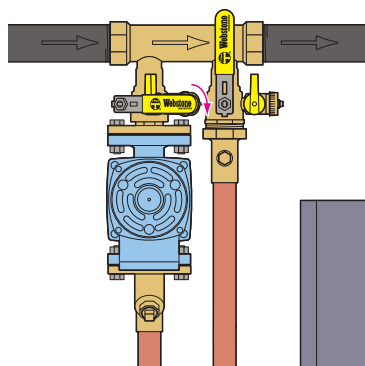
HYDRO-CORE™

ADVANTAGES

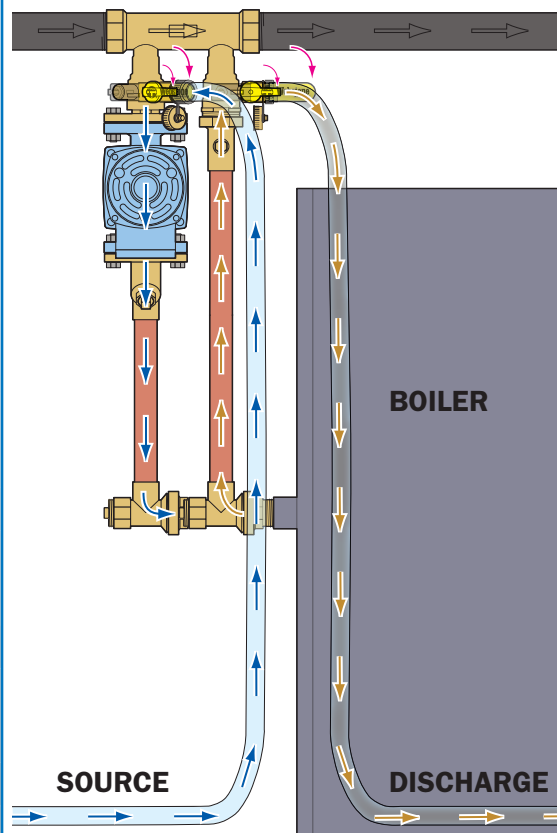
Precise Spacing for Hydraulic Separation



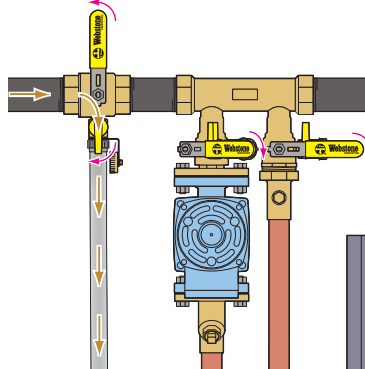
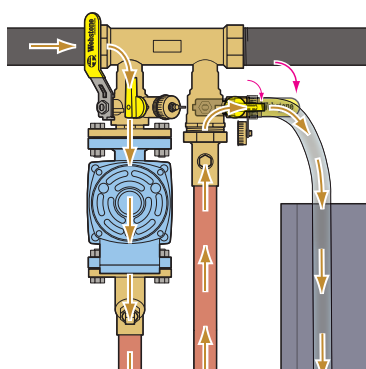
Simplifies Pump Isolation



Easily Purge, Fill, or Descale* a Boiler or Secondary Hydronic Loop



Simplifies System Purging Through the Boiler Outside the Boiler



*Descaling may not be recommended for all boilers. Consult boiler manufacturer for details.

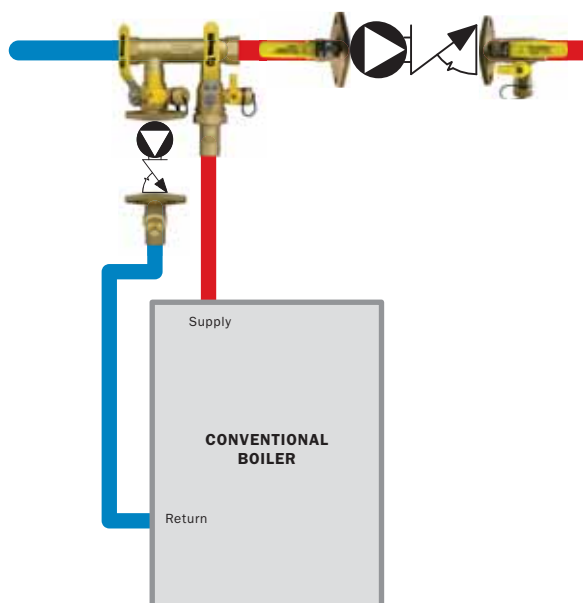
HYDRO-CORE™

APPLICATIONS

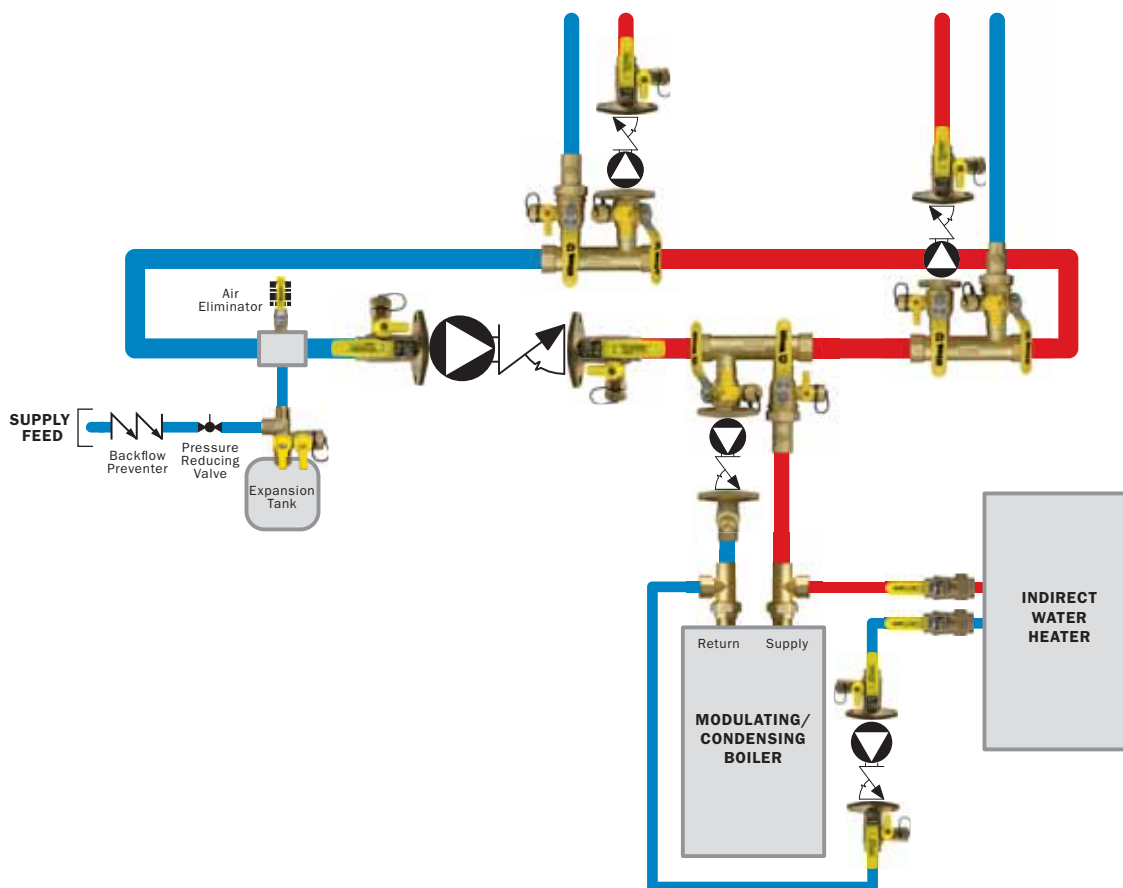
This revolutionary valve system streamlines the installation, performance and maintenance of a variety of boiler systems. *Hydo-Core is the core of any professional hydronic installation.*



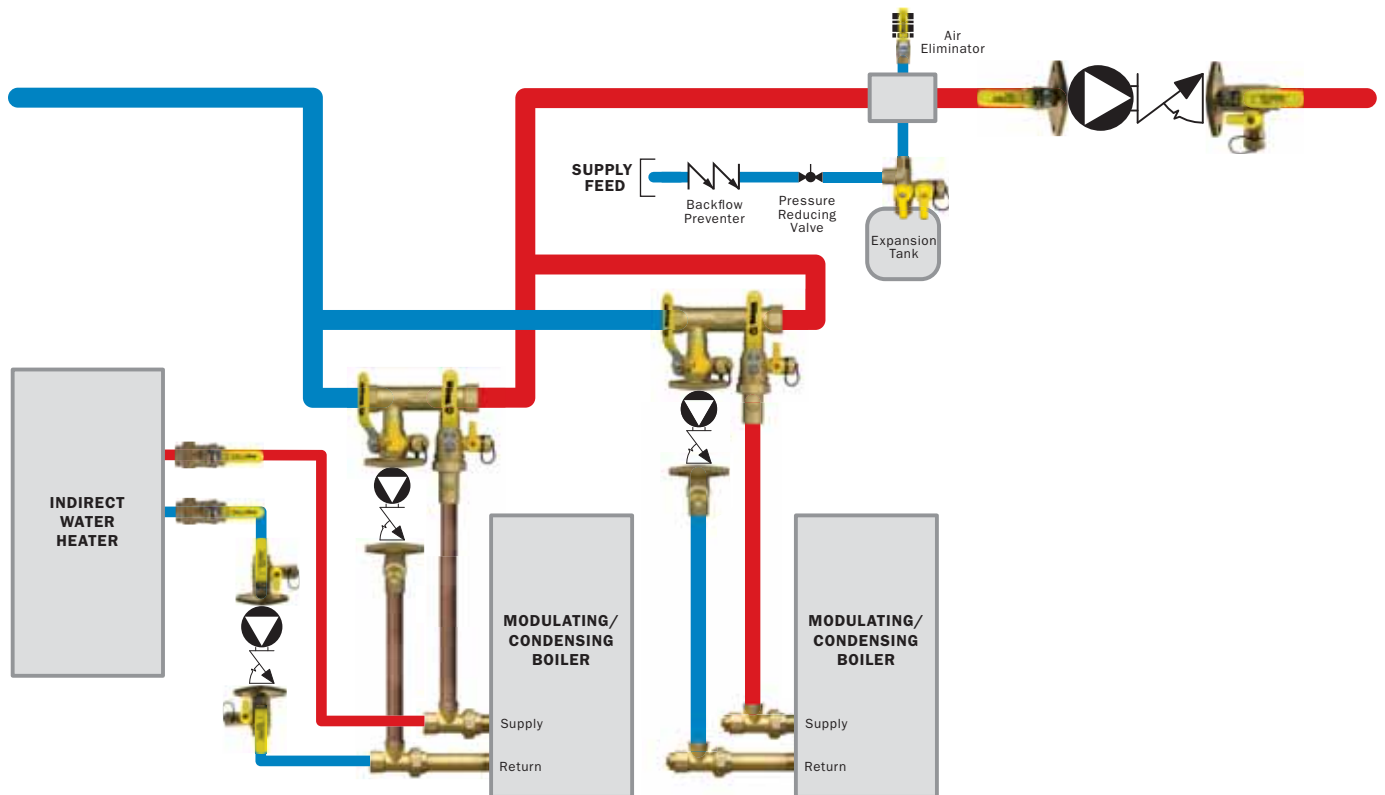
Cast Iron/Conventional



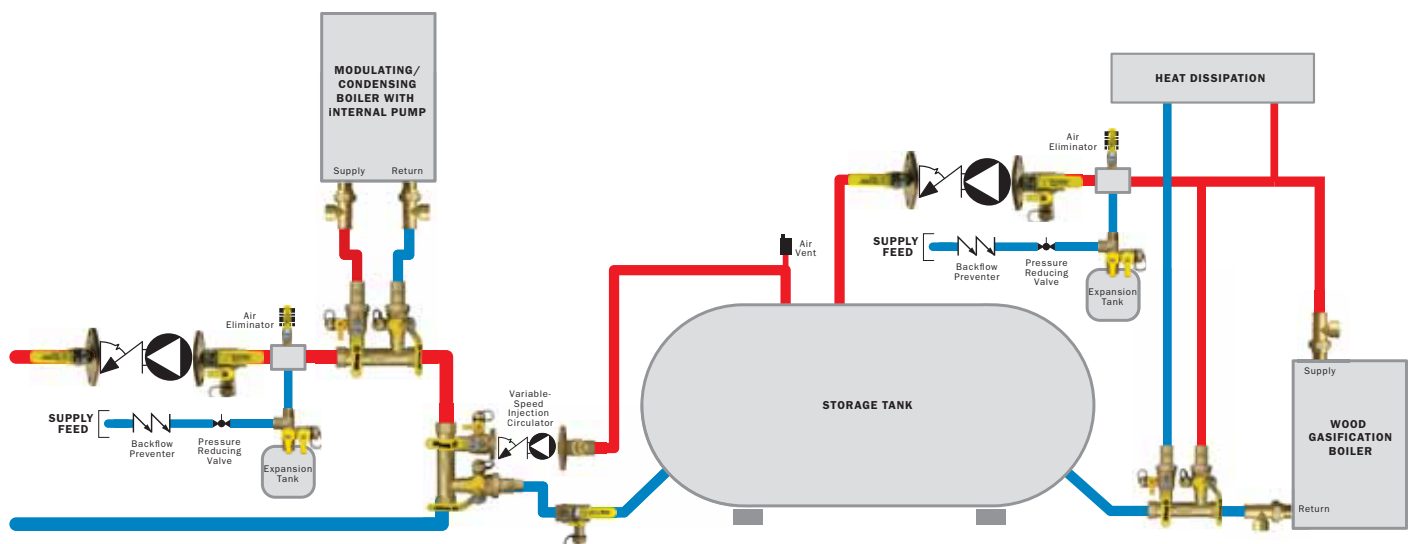
Near Boiler Mod/Con with Secondary Loop



Two Boilers in Parallel



Multiple Heat Sources



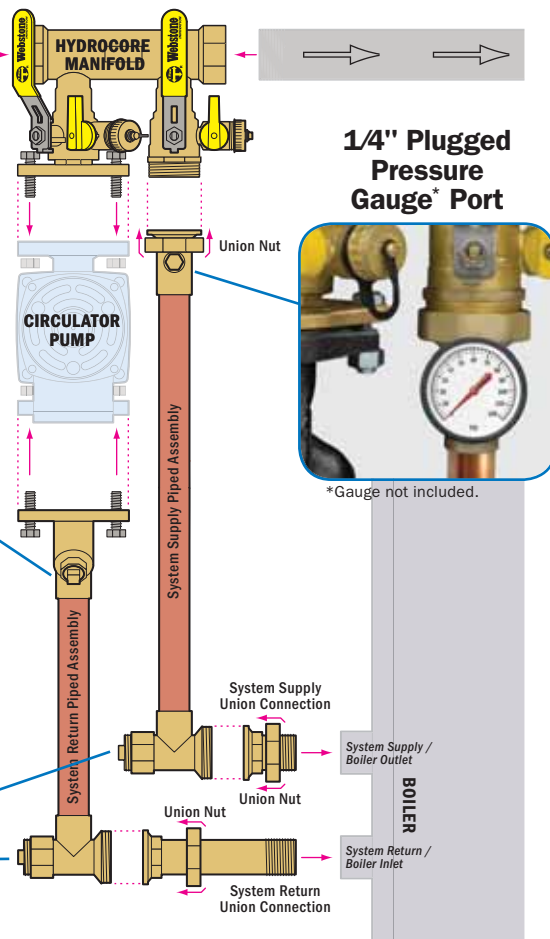
SAVE COMPONENTS, SPACE & LABOR

Complete Kit for Select Floor Mount Boilers

Integrated Mesh
"Y" Strainer with
Rotating Flange



Plugged 1" FIP
Connections to
Other Equipment



HYDRO-CORE™

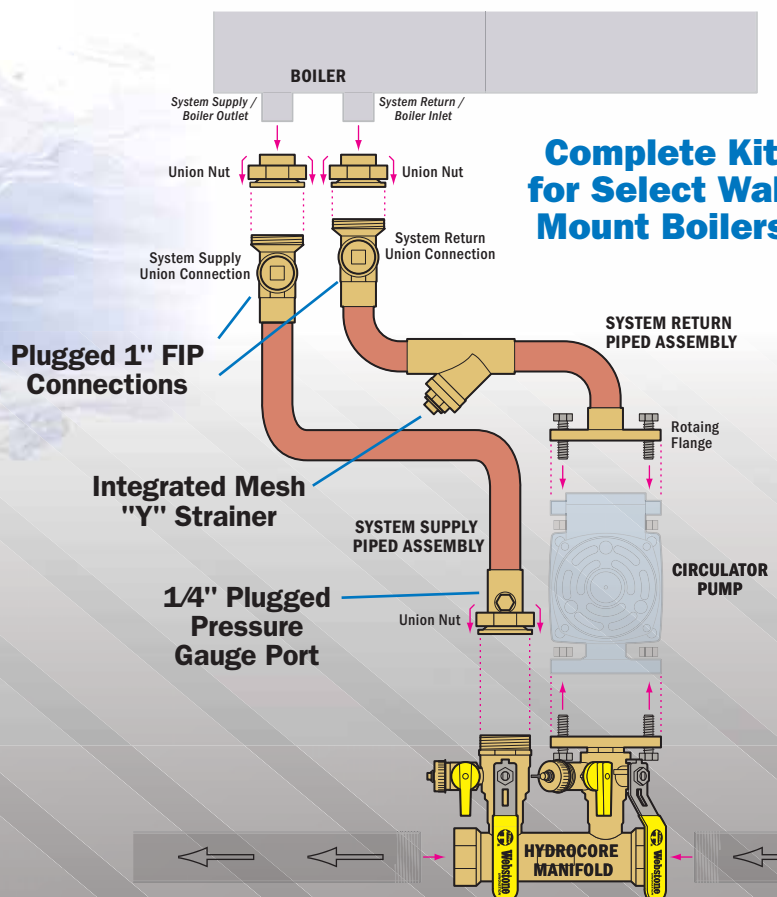
COMPLETE NEAR BOILER PIPING KITS

- Fully fabricated & insulated supply & return lines for select floor standing & wall hung boilers
- Requires Hydro-Core Manifold (Flange Right)
- Assembled with one-piece, type-L bent copper tubing
- Plugged 1/4" pressure gauge port
- Plugged 1/2" port in strainer cap for installation of drain valve (if desired)
- Plugged FIP ports for connection to other equipment. i.e. indirect water heater, heat exchanger, pressure relief valve, etc.
- Accommodates common circulator pumps (measuring 6½" in length)

Complete Near Boiler
Piping Kits Include
Full Foam Insulation
(Floor Kit Shown)



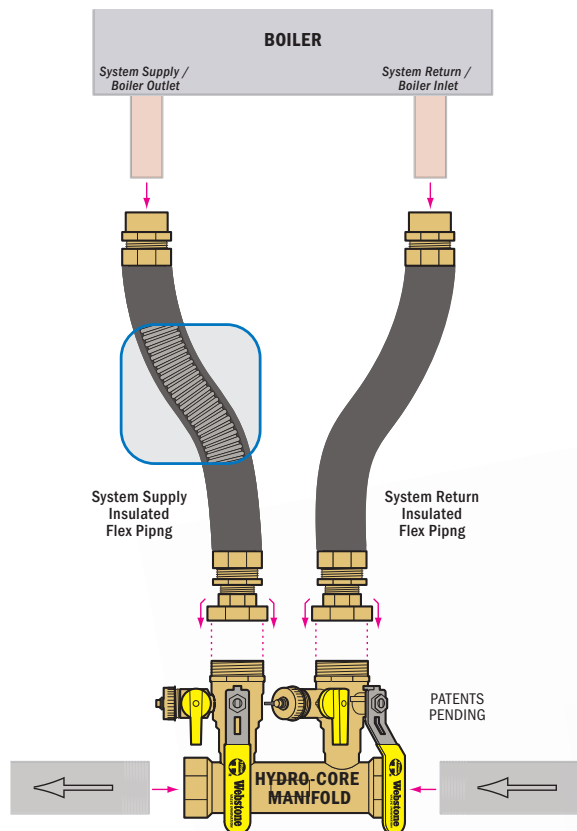
Complete Kit for Select Wall Mount Boilers



- Replaces 28 Individual Components
- Avoids 25 Leak Paths
- Saves Nearly 4 Hours of Labor

Webstone

VALVE INNOVATION



INSULATED FLEX PIPING



- Stainless steel 304 tubing (ASTM A 240)
- High density EPDM insulation
- Connects directly to the Hydro-Core Manifold
- Choice of female, male, or SWT connections to the boiler (see compatibility chart on the reverse)

	3/4"	1"
Inner Diameter	0.83"	1.03"
Min Bend	3"	3"
Straight Length w/Fittings	14"	14"
Operating Temperature	300°	300°
Max Working Pressure	176 PSI	147 PSI

HYDRO-CORE

FLEX

COMPLETE NEAR BOILER PIPING KITS for Wall Hung Boilers with Integral Pumps

SIMPLE...EASY...BRILLIANT

Applications

- Simplifies boiler installation
- Provides precise spacing for hydraulic separation
- Simplifies system purging
- Simplifies boiler purging, filling and descaling

Features

- Insulated supply and return lines fabricated w/ connections for your specific boiler
- Assembled with **FLEXIBLE** stainless steel tubing
- Tubing may be cut for installations in close quarters, longer lines are available upon request
- Includes fully insulated Hydro-Core Double Ball Drain Manifold
- Guaranteed for life

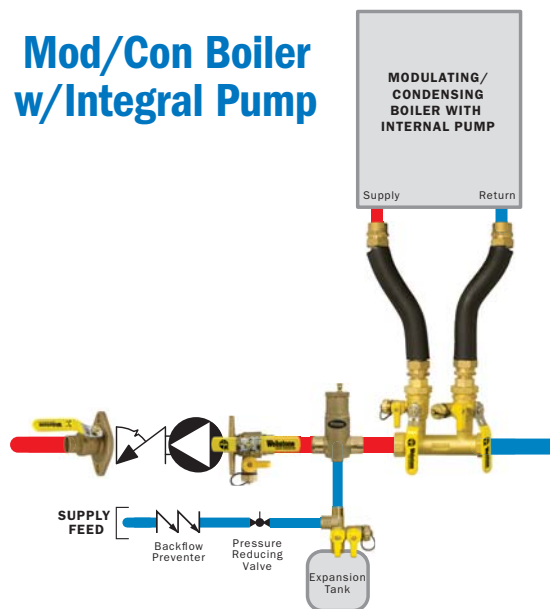
REPLACES 17 COMPONENTS

ELIMINATES 14 LEAK PATHS

SAVES 2 HOURS OF LABOR

**PLUS IMMEASURABLE SAVINGS
WHEN TIGHT ON TIME OR SPACE**

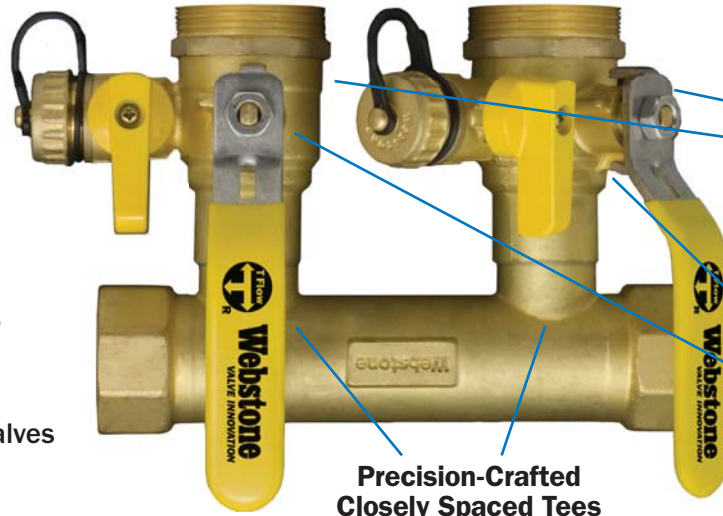
Mod/Con Boiler w/Integral Pump



Fully Insulated Body



- 1 1/4" run × 1" valve brass manifold
- Available in SWT or IPS
- T-flow feature on both main valves
- 2 Independent purge valves
- 1" MIP connections to flex pipe assemblies



Webstone Ball Drain™



Divert fluids from the main flow channel into the drain from either side of the ball

**Precision-Crafted
Closely Spaced Tees**

FLEX KIT PART NUMBERS

IPS MANIFOLD	SWT MANIFOLD		MANUFACTURER	MODEL	NUMBER
4FK3-WIF	5FK3-WIF	Flex Complete Kit w/ 3/4" Female Boiler Connections	Raypak	Xpak	Xpak-120 Xpak-85
4FK4-WIF	5FK4-WIF	Flex Complete Kit w/ 1" Female Boiler Connections	Bosch	GreenStar 57	ZBR16-3A
				GreenStar 100	ZBR28-3A
				GreenStar 131	ZBR35-3A
				GreenStar 151	ZBR42-3A
				GreenStar Combi 100	ZWB28-3A
4FK3-WIS	5FK3-WIS	Flex Complete Kit w/ 3/4" SWT Boiler Connections	GreenStar Combi 151	ZWB42-3A	
			New York Thermal NTI	Trinity Tx	Tx132C/151C
			Sime	Planet Dewy	60 BFR
			Baxi	Luna	HT 380 HT 1.33
				Luna 3	Comfort 310 Comfort 1.31
			Biasi	Riva Compact	M130.30CR
				Riva Combi	M35.30CB
				Riva Plus Combi	M135.30CM
				Riva Plus Compact	M135.30CR
			Crown Boiler	Maui	MWC116E*L
				Maui Combi	MWC116E*T
			Laars	Mascot II	LMH
			Peerless	Combi	Combi 160
4FK4-TTS	5FK4-TTS	Flex Complete Kit w/ 1" FIP Boiler Connections	Triangle Tube	Solenne	PCC 34 PCH 18 PCH 34B PCH 50B PCI 18/8 PCI 34/20
				Format Zip	35-BF
				Planet Dewy	30/50 BF
				VSL	VSL-160C
				Prestige Excellence	PTE 110 PTE 110 LP
				Prestige Solo	110

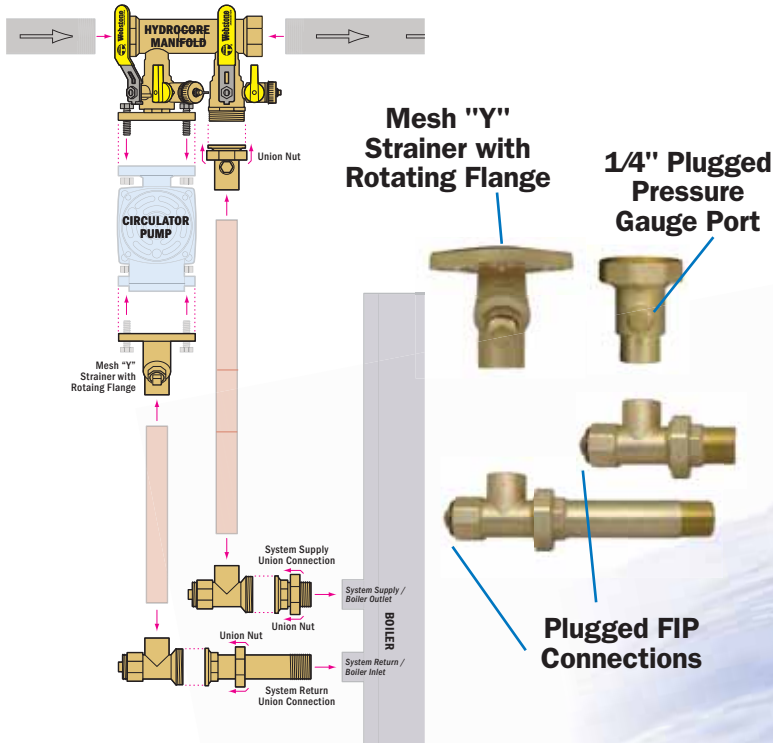
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VALVE INNOVATION

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HYDRO-CORE™

NEAR BOILER COMPONENT KITS

For Floor Standing Boilers with Side Mount Connections

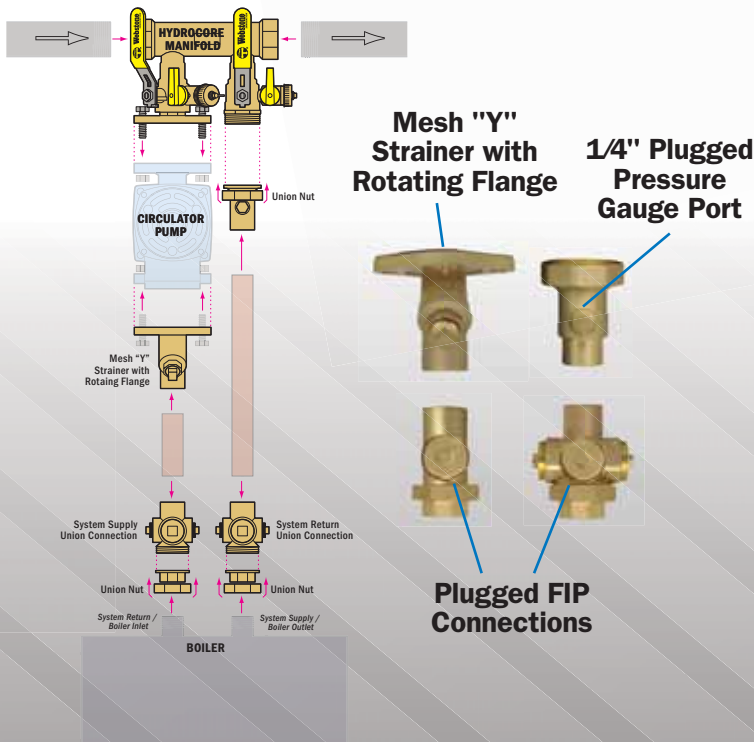


- Sets of components required for field fabricating the near boiler loop
- Available for numerous boiler models
- Requires designated Hydro-Core Manifold
- Plugged 1/4" pressure gauge port
- Plugged 1/2" port in strainer cap for installation of drain valve (floor standing kits only)
- Plugged FIP ports for connection to other equipment.
i.e. indirect water heater, heat exchanger, pressure relief valve, etc.

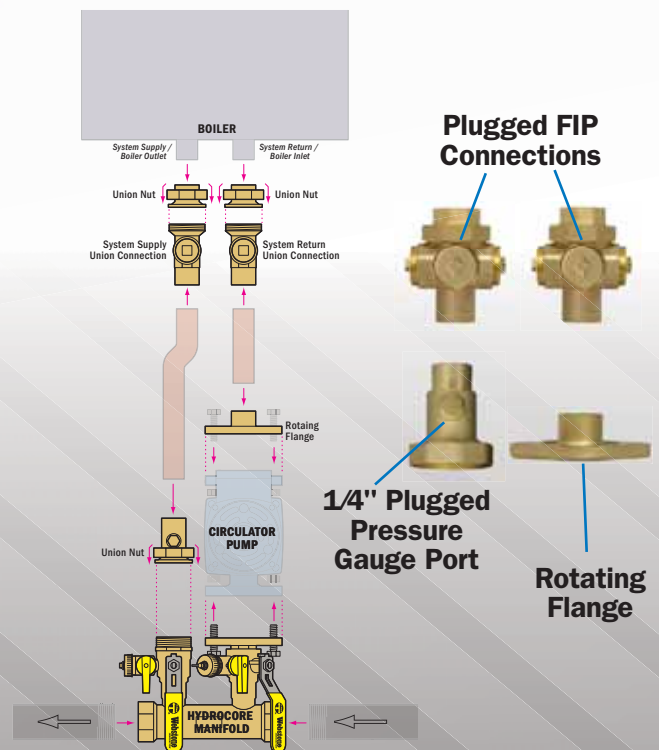
Each kit includes:

- (2) Boiler Connection Fittings
- (1) Rotating Flange or Rotating Flange w/ "Y" Strainer
- (1) Hydro-Core Union Connection w/ Plugged Gauge Port

For Floor Standing Boilers with Top Connections



For Wall Hung Boilers



SEE BOILER COMPATIBILITY CHART TO FIT YOUR PARTICULAR BOILER

HYDRO-CORE MANIFOLDS

600 WOG

Manifold Type	Hydro-Core End Size	Run Connection	Run Size	Valve Size	Ctn/Case	Part #
Flange Right Requires (1) Hydro-Core Union Connection 	1" UNION CONNECTION	FIP	1 1/4"	1"	1/6	48754-0
			1 1/2"	1"	1/6	48764-0
			1"	1"	1/6	58744-0
		SWT	1 1/4"	1"	1/6	58754-0
			1 1/2"	1"	1/6	58764-0
			2"	1"	1/4	58774-0
	1 1/4" UNION CONNECTION	FIP	1 1/4"	1 1/4"	1/6	48755-0
			1 1/2"	1 1/4"	1/6	48765-0
			1 1/4"	1 1/4"	1/6	58755-0
		SWT	1 1/2"	1 1/4"	1/6	58765-0
2"			1 1/4"	1/4	58775-0	
2"			1 1/4"	1/4	58775-0	
1 1/2" UNION CONNECTION	FIP	1 1/2"	1 1/2"	1/4	48766-0	
		1 1/2"	1 1/2"	1/4	58766-0	
		2"	1 1/2"	1/4	58776-0	
	SWT	1 1/2"	1 1/2"	1/4	58766-0	
		1 1/2"	1 1/2"	1/4	58766-0	
		2"	1 1/2"	1/4	58776-0	
Flange Left Requires (1) Hydro-Core Union Connection 	1" UNION CONNECTION	FIP	1 1/4"	1"	1/6	48854-0
			1 1/2"	1"	1/6	48864-0
			1 1/4"	1"	1/6	58854-0
		SWT	1 1/2"	1"	1/6	58864-0
			1 1/4"	1"	1/6	58854-0
			1 1/2"	1"	1/6	58864-0
	1 1/4" UNION CONNECTION	FIP	1 1/4"	1 1/4"	1/6	48855-0
			1 1/2"	1 1/4"	1/6	48865-0
			1 1/4"	1 1/4"	1/6	58855-0
		SWT	1 1/4"	1 1/4"	1/6	58855-0
1 1/2"			1 1/4"	1/6	58865-0	
1 1/2"			1 1/4"	1/6	58865-0	
Double Ball Drain Requires (2) Hydro-Core Union Connections 	1" UNION CONNECTION	FIP	1 1/4"	1"	1/6	48354-0
			1 1/2"	1"	1/6	58354-0
		SWT	1 1/4"	1"	1/6	58354-0
			1 1/2"	1"	1/6	58354-0

MANIFOLDS REQUIRE HYDRO-CORE UNION CONNECTIONS

HYDRO-CORE UNION CONNECTIONS

Component Type	Hydro-Core End Size	Tailpiece Connection	Tailpiece Size	Ctn/Case	Part #
Union Connection 	1" UNION CONNECTION	FIP	3/4"	6/24	HCE4-43
			1"	6/24	HCE4-44
			3/4"	6/24	HCE4-53
		SWT	1"	6/24	HCE4-54
			1"	6/24	HCE5-44
	1 1/4" UNION CONNECTION	FIP	1"	6/24	HCE5-44
			1 1/4"	6/24	HCE5-45
			1"	6/24	HCE5-54
		SWT	1 1/4"	6/24	HCE5-55
			1 1/4"	6/24	HCE5-55
Union Connection w/ 1/4" NPT Gauge Port (Plugged) 	1" UNION CONNECTION	FIP	3/4"	6/24	HCE4-63
			1"	6/24	HCE4-64
			3/4"	6/24	HCE4-73
		SWT	1"	6/24	HCE4-74
			1"	6/24	HCE5-64
	1 1/4" UNION CONNECTION	FIP	1"	6/24	HCE5-64
			1 1/4"	6/24	HCE5-65
			1"	6/24	HCE5-74
		SWT	1 1/4"	6/24	HCE5-75
			1 1/4"	6/24	HCE5-75
Union Connection w/ Multiple Device Ports Plugged Connections for (2) 3/4" devices or (1) 3/4" device & (1) 1/4" Pressure Gauge 	1" UNION CONNECTION	SWT	1"	6/24	HCE4-94

HYDRO-CORE PUMP CONNECTIONS

Component Type	Connection	Size	Ctn/Case	Part #
Rotating Flange 	SWT	1"	6/24	RF4-54
		1 1/4"	6/24	RF5-55
Rotating Flange w/ "Y" Strainer 	SWT	1"	6/24	FSTR4-54
		1 1/4"	6/24	FSTR5-55

HYDRO-CORE COMPLETE NEAR BOILER PIPING KITS

Fully Fabricated Supply & Return Lines

REQUIRES MANIFOLD • INCLUDES UNION CONNECTION

Boiler Type	Hydro-Core End Size	Connection to Boiler	Ctn/Case	Custom Fit For	Part #
Floor Mount 	1" UNION CONNECTION	1" MIP	1/6	Burnham ALP080/Lochinvar KBN080	NBP4-080
			1/6	Burnham ALP105/Lochinvar KBN105	NBP4-105
			1/6	Burnham ALP150/Lochinvar KBN150	NBP4-150
			1/6	Burnham ALP210/Lochinvar KBN210	NBP4-210
			1/6	Burnham ALP210/Lochinvar KBN210	NBP4-210
Wall Hung 	1" UNION CONNECTION	1" SWT	1/6	Lochinvar WBN050/080/105/150/210	NBP4-WBN
			1/6	Lochinvar WHN055/085/110/155	NBP4-WHN
			1/6	Lochinvar WHN055/085/110/155	NBP4-WHN

HYDRO-CORE NEAR BOILER COMPONENT KITS

See Boiler Compatibility Chart To Fit Your Particular Boiler

REQUIRES MANIFOLD • INCLUDES UNION CONNECTION

Boiler / Kit Type	Hydro-Core End Size	Tailpiece Connection	Ctn/Case	Part #
Floor Standing / Side Mount Kit 1 	1" UNION CONNECTION	1" FIP	1/6	FS-144
		1" MIP	1/6	FS-184
	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	FS-145
		1 1/4" MIP	1/6	FS-185
		1 1/4" MIP	1/6	FS-185
Floor Standing / Side Mount Kit 2 	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	FS-245
		1 1/4" FIP	1/6	FS-245
Floor Standing / Side Mount Kit 3 	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	FS-345
		1 1/4" FIP	1/6	FS-345

Floor Standing / Top Mount Kit 1 	1" UNION CONNECTION	1" FIP	1/6	FT-144
Floor Standing / Top Mount Kit 2 		1 1/4" FIP	1/6	FT-245
Floor Standing / Top Mount Kit 3 	1 1/4" UNION CONNECTION	1" FIP	1/6	FT-245
Floor Standing / Top Mount Kit 3 		1" FIP	1/6	FT-2R45
Floor Standing / Top Mount Kit 3 	1" UNION CONNECTION	1" FIP	1/6	FT-344
Floor Standing / Top Mount Kit 3 		1" FIP	1/6	FT-344

Wall Hung Kit 1 	1" UNION CONNECTION	1" FIP	1/6	WH-144
		1" SWT	1/6	WH-154
		3/4" FIP	1/6	WH-1R44
Wall Hung Kit 2 	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	WH-245
		1 1/4" FIP	1/6	WH-245
		1 1/4" SWT	1/6	WH-255
Wall Hung Kit 3 	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	WH-345

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