

Webstone

VALVE INNOVATION

HYDRO-CORE™



PATENTS PENDING

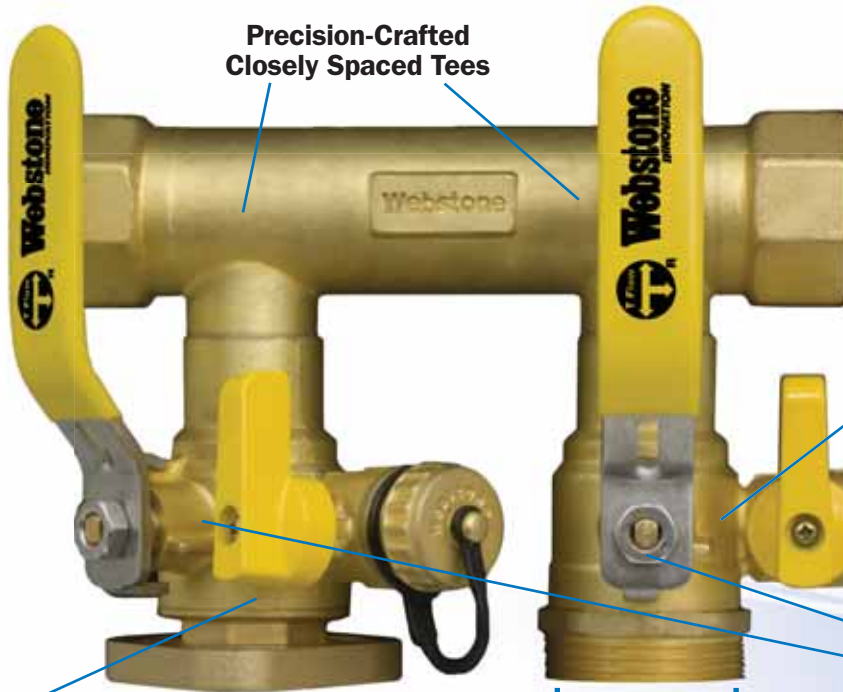
THE **CORE** OF ANY
PROFESSIONAL **HYDRONIC**
INSTALLATION

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

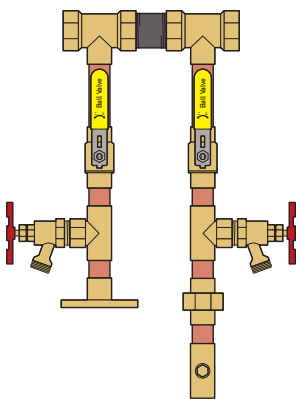


**With Multiple
Device Ports**

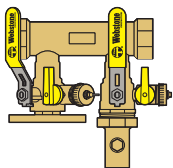
Plugged Connections for:

- (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**

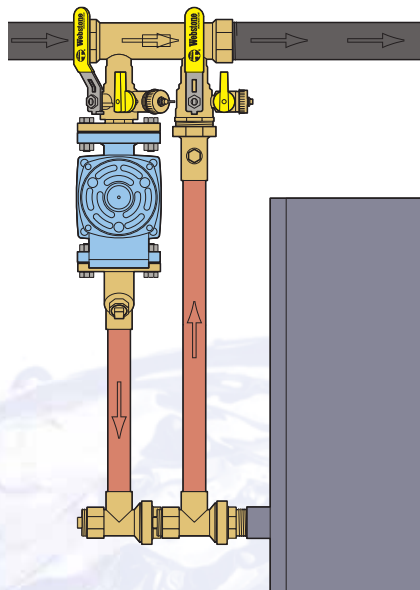


**No Flange
Double Ball Drain**

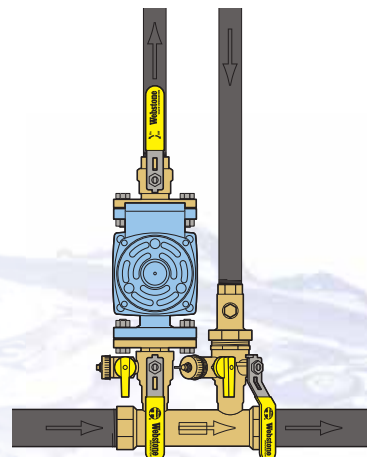
For boilers w/ integral circulator pumps

Near-Boiler Loops

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



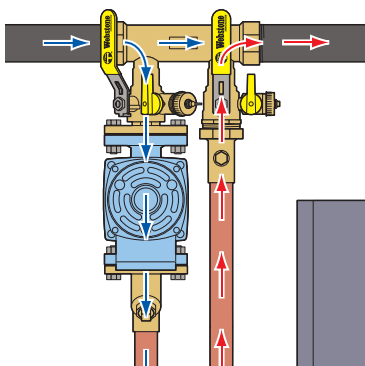
Secondary Circuit Loops



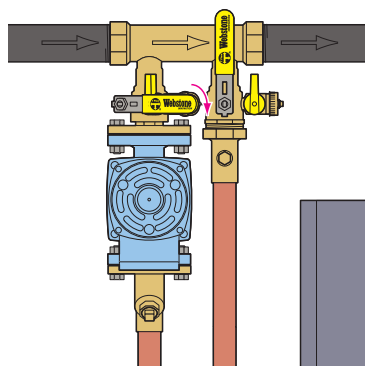
HYDRO-CORE™

ADVANTAGES

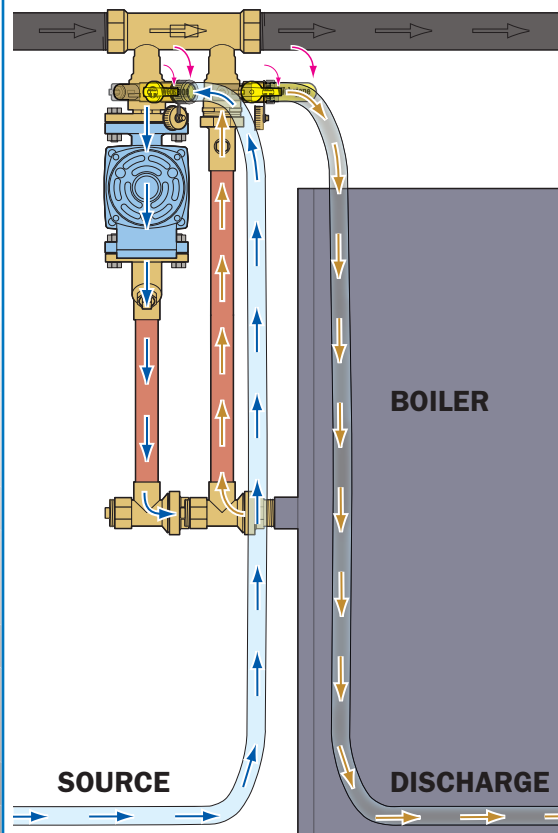
Precise Spacing for Hydraulic Separation



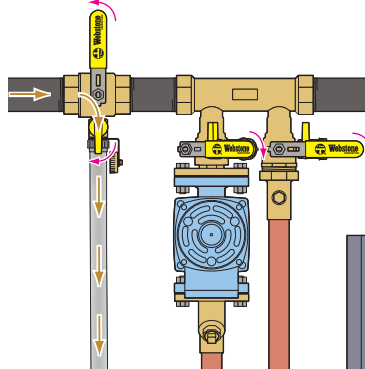
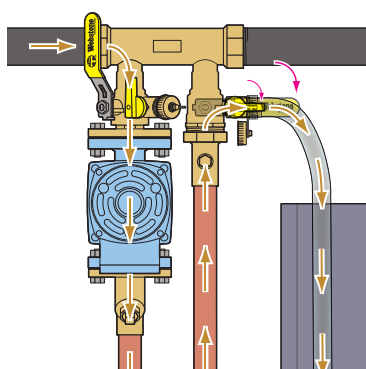
Simplifies Pump Isolation



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.

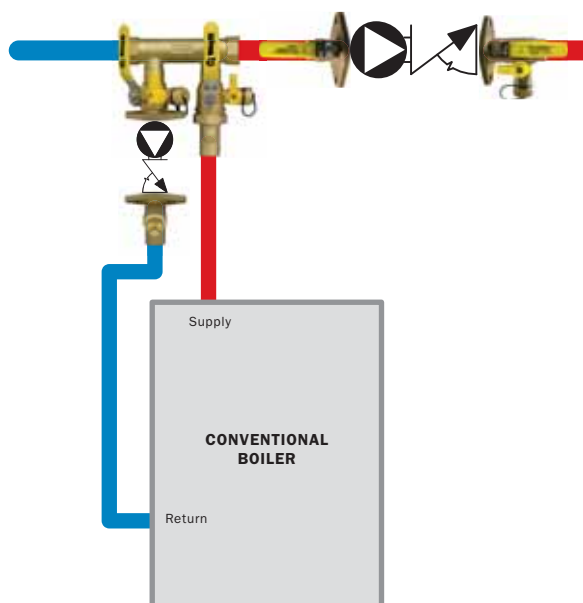
HYDRO-CORE™

APPLICATIONS

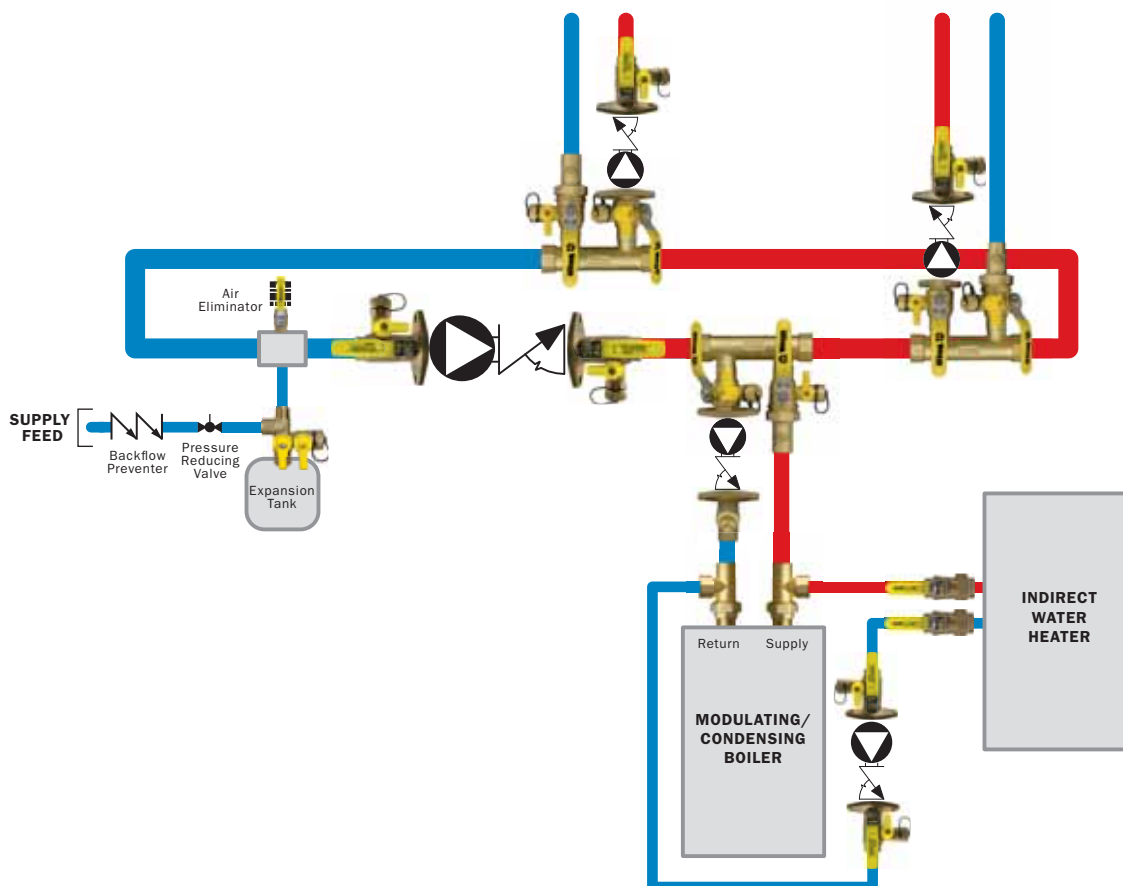
This revolutionary valve system streamlines the installation, performance and maintenance of a variety of boiler systems. *Hydo-Core is the core of any professional hydronic installation.*



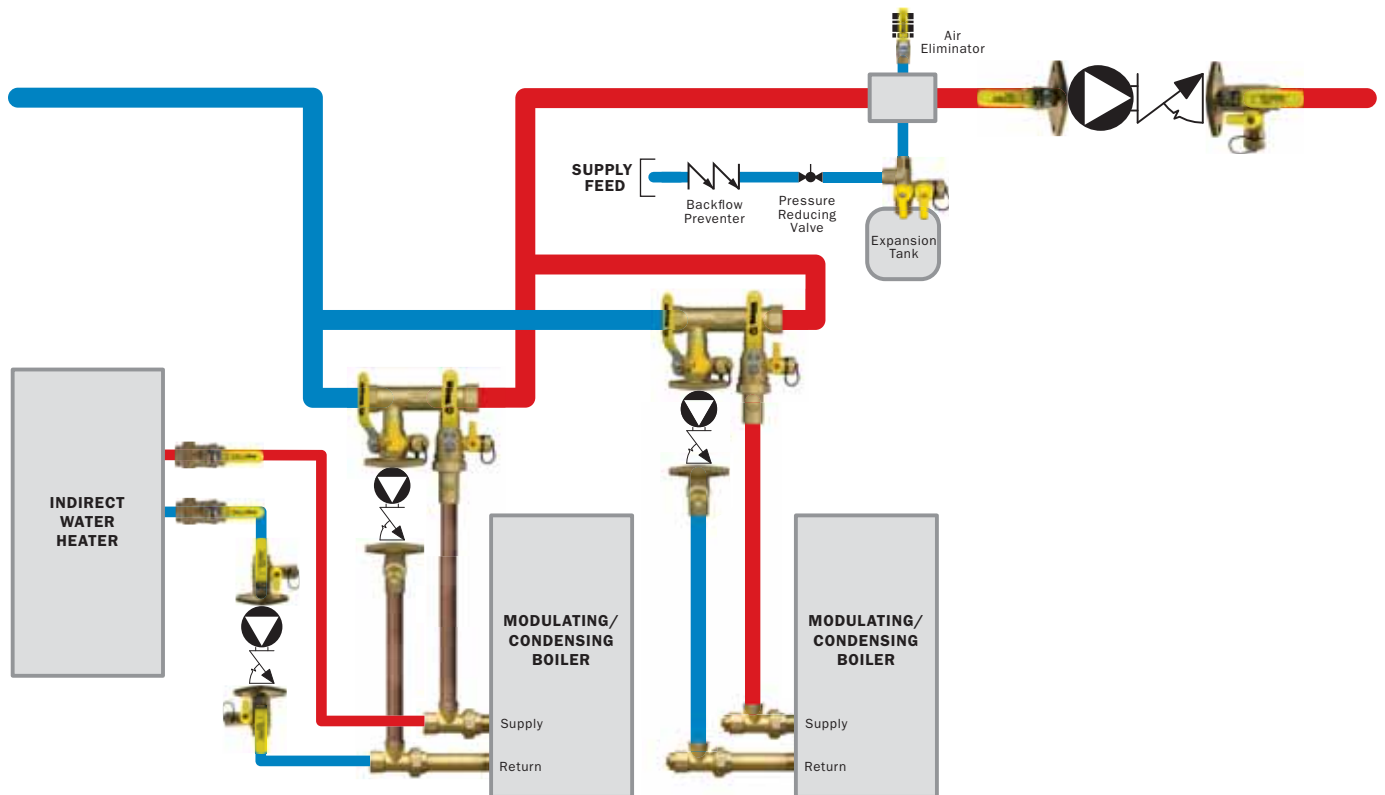
Cast Iron/Conventional



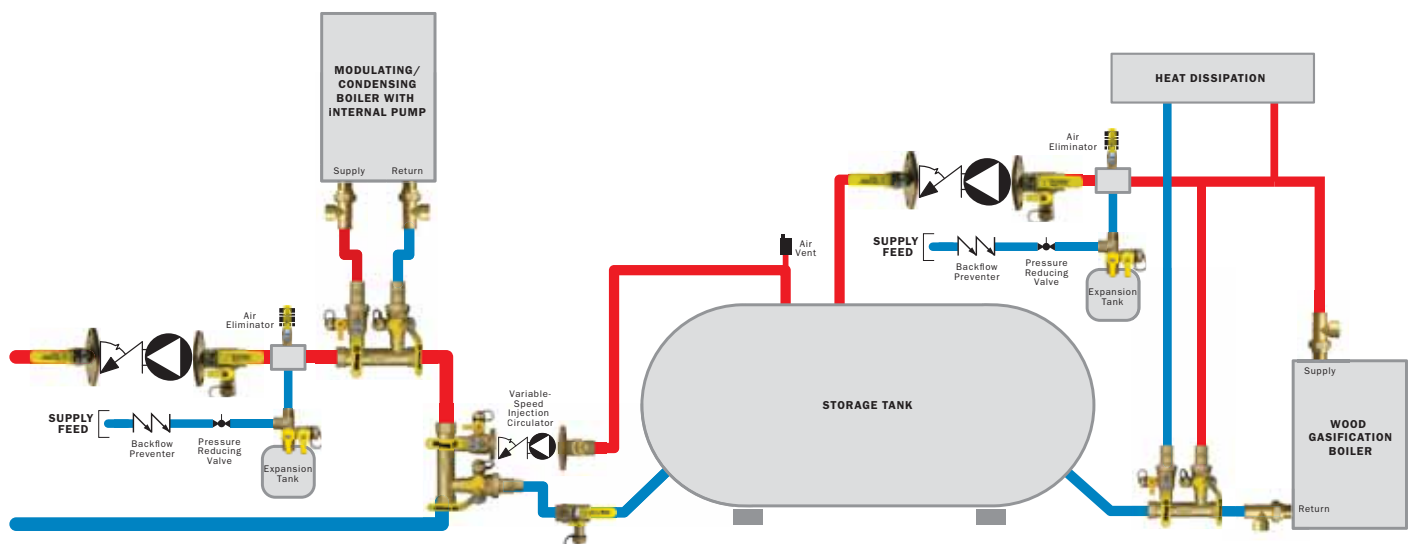
Near Boiler Mod/Con with Secondary Loop



Two Boilers in Parallel



Multiple Heat Sources



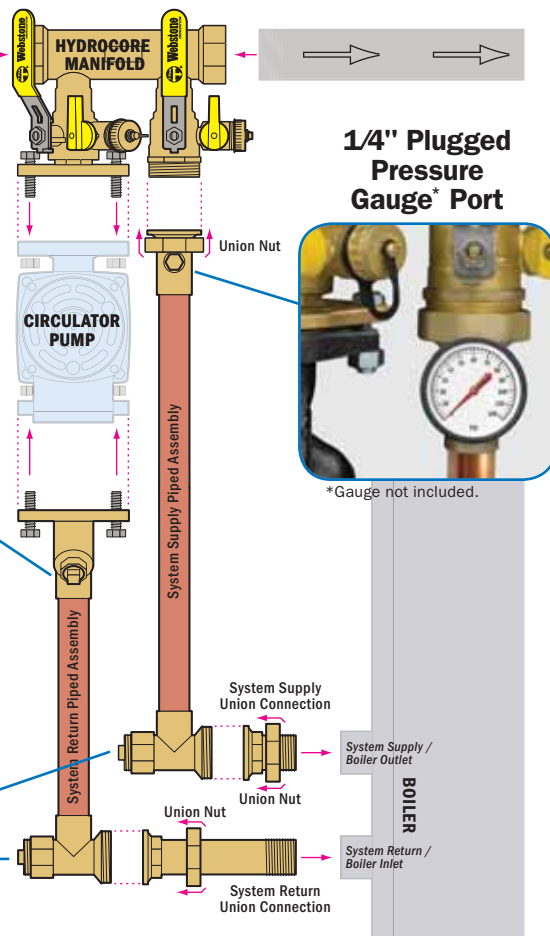
SAVE COMPONENTS, SPACE & LABOR

Complete Kit for Select Floor Mount Boilers

Integrated Mesh
"Y" Strainer with
Rotating Flange



Plugged 1" FIP
Connections to
Other Equipment



1/4" Plugged
Pressure
Gauge* Port



*Gauge not included.

HYDRO-CORE™

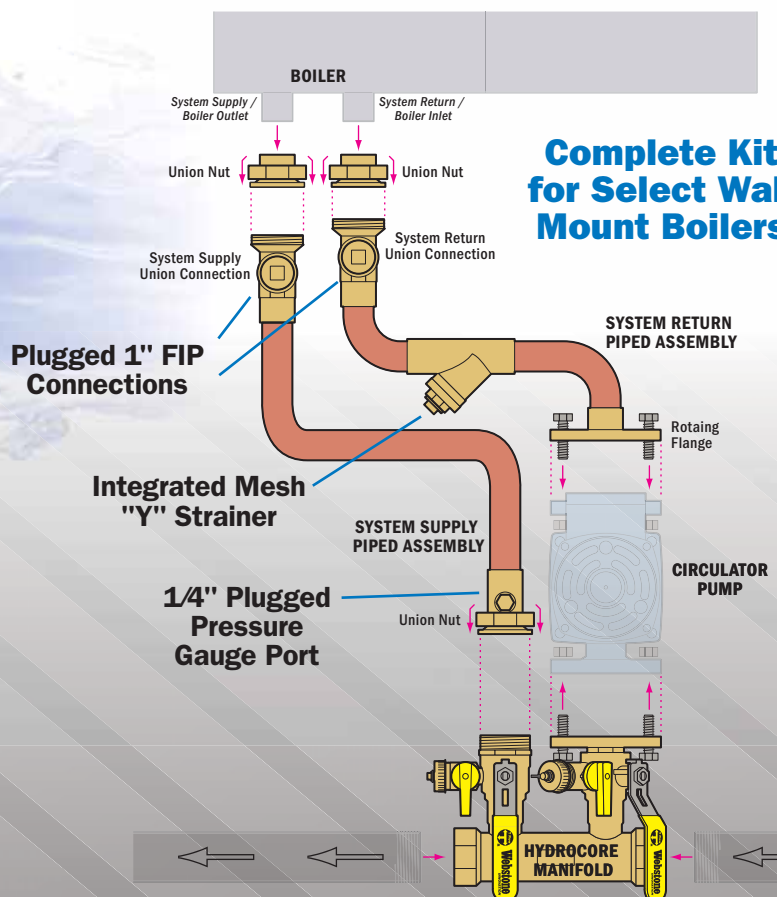
COMPLETE NEAR BOILER PIPING KITS

- 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



1/4" Plugged
Pressure
Gauge Port

Union Nut

SYSTEM SUPPLY
PIPED ASSEMBLY

Union Nut

SYSTEM RETURN
PIPED ASSEMBLY

Union Nut

SYSTEM SUPPLY
UNION CONNECTION

Union Nut

SYSTEM RETURN
UNION CONNECTION

Union Nut

SYSTEM SUPPLY /
Boiler Outlet

Union Nut

SYSTEM RETURN /
Boiler Inlet

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Union Nut

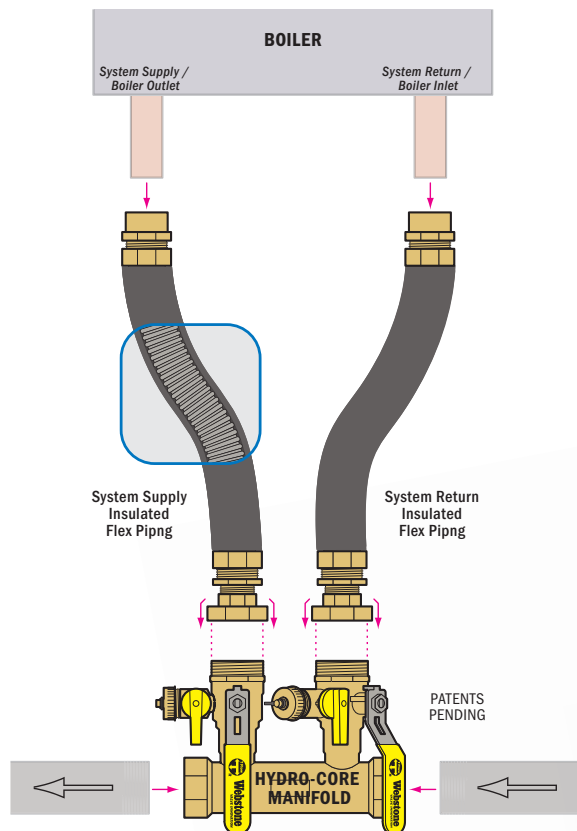
SYSTEM RETURN /
Boiler Inlet

Union Nut

- 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

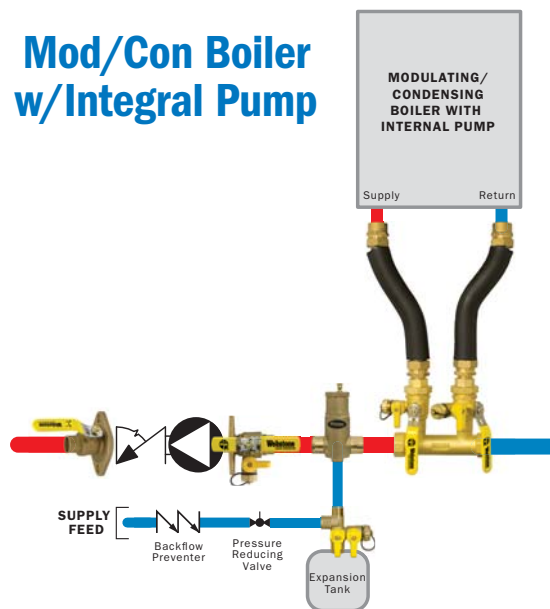
REPLACES 17 COMPONENTS

ELIMINATES 14 LEAK PATHS

SAVES 2 HOURS OF LABOR

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

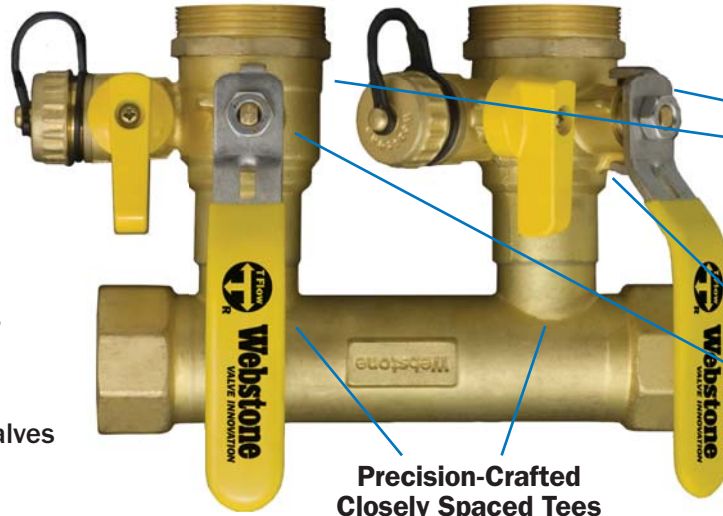
Mod/Con Boiler w/Integral Pump



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
				GreenStar Combi 151	ZWB42-3A
			New York Thermal NTI	Trinity Tx	Tx132C/151C
			Sime	Planet Dewy	60 BFR
4FK3-WIS	5FK3-WIS	Flex Complete Kit w/ 3/4" SWT Boiler Connections	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
			Pensotti	Solenne	PCC 34
					PCH 18
					PCH 34B
					PCH 50B
					PCI 18/8
					PCI 34/20
			Sime	Format Zip	35-BF
				Planet Dewy	30/50 BF
			Slant Fin	VSL	VSL-160C
4FK4-TTS	5FK4-TTS	Flex Complete Kit w/ 1" FIP Boiler Connections	Triangle Tube	Prestige Excellence	PTE 110
				Prestige Solo	PTE 110 LP 110

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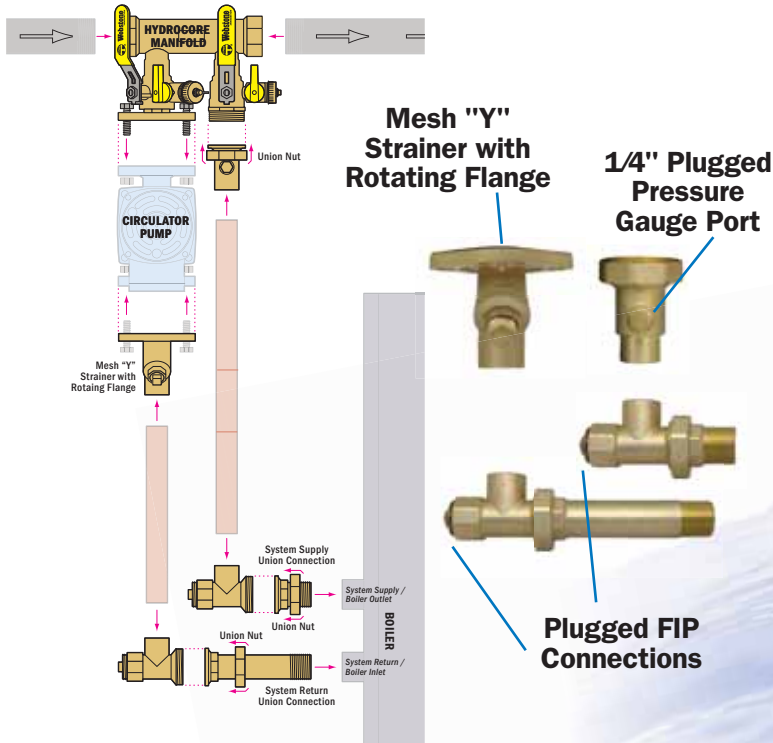
This content has been provided for the express purpose of demonstrating a product's function in a system and should not be used as a reference for designing or assembling any working installation. The user is solely responsible for ensuring that all products are used and all systems are designed in accordance with all applicable federal, state and local codes.

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HYDRO-CORE™

NEAR BOILER COMPONENT KITS

For Floor Standing Boilers with Side Mount Connections

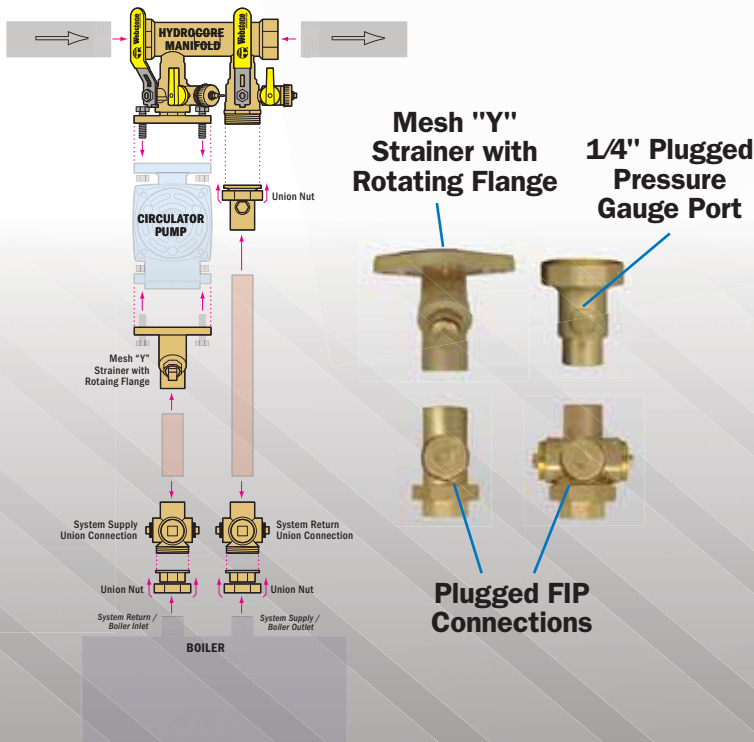


- Sets of components required for field fabricating the near boiler loop
- Available for numerous boiler models
- Requires designated Hydro-Core Manifold
- Plugged 1/4" pressure gauge port
- Plugged 1/2" port in strainer cap for installation of drain valve (floor standing kits only)
- Plugged FIP ports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

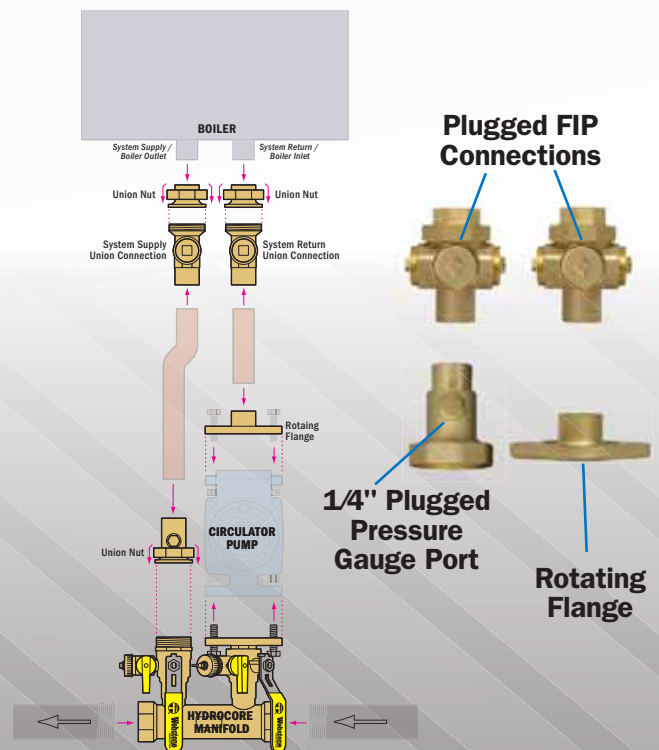
Each kit includes:

- (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 <i>Requires (1) Hydro-Core Union Connection</i> 	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
		1 1/4" UNION CONNECTION	2"	1"	1/4	58774-0
		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
Flange Left <i>Requires (1) Hydro-Core Union Connection</i> 	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"	1/6	58864-0
		1 1/4" UNION CONNECTION	1 1/4"	1 1/4"	1/6	48855-0
		FIP	1 1/2"	1 1/4"	1/6	48865-0
			1 1/4"	1 1/4"	1/6	58855-0
			1 1/2"	1 1/4"	1/6	58865-0
		SWT	1 1/4"	1 1/4"	1/6	58855-0
Double Ball Drain <i>Requires (2) Hydro-Core Union Connections</i> 	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
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

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
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-345
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
		1" FIP	1/6	FT-245
Floor Standing / Top Mount Kit 2 	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	FT-245
		1" FIP	1/6	FT-2R45
Floor Standing / Top Mount Kit 3 	1" UNION CONNECTION	1" FIP	1/6	FT-344
		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" SWT	1/6	WH-255
Wall Hung Kit 3 	1 1/4" UNION CONNECTION	1 1/4" FIP	1/6	WH-345
		1 1/4" FIP	1/6	WH-345

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