

Webstone

VALVE INNOVATION

THE **ONLY WAY** TO ISOLATE
CIRCULATOR PUMPS

The ISOLATOR
UNI-FLANGE BALL VALVE®





PATENTED TECHNOLOGY



The ISOLATOR[®]

UNI-FLANGE BALL VALVE[®]

with ROTATING FLANGE

The features and benefits you trust in our original Isolator[®] line with two versatile enhancements. First, 360° flange rotation that allows for rotation to any degree necessary for your installation. Second, a multi-function drain that makes the Isolator **the only valve that drains from both sides of the pump!**

- Unique uni-body design is preserved
- Solid forged brass outer flange
- Fully removable outer flange secured by snap ring
- Prevents electrolysis
- Eliminates galvanic corrosion
- 3-way ball purges before or after the pump
- Guaranteed for life

AVAILABLE WITH PRESS CONNECTIONS



- Compatible with popular press tools



The ISOLATOR[®]
UNI-FLANGE BALL VALVE[®]
W/ ROTATING FLANGE & MULTI-FUNCTION DRAIN

**REPLACES 8 COMPONENTS
ELIMINATES 7 LEAK PATHS
SAVES 63 MINUTES OF LABOR**

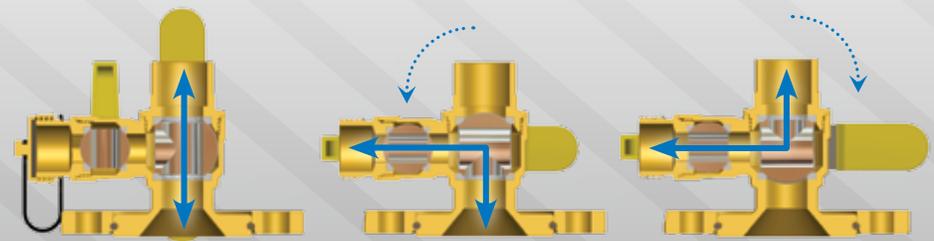
ADVANTAGES

- 360° rotation offers greater flexibility
- Snap ring provides greater control over installation
- Inner & outer flanges are designed to help prevent problems from over-torquing
- Twice the purging capabilities in a single component

SNUG-FIT ROTATING FLANGE



SECTION REMOVED TO SHOW INTERNAL CONSTRUCTION



MULTI-FUNCTION DRAIN - Purges Before or After Pump

AVAILABLE W/
LEAD-FREE
CLEAN BRASS
THE CLEAR CHOICE
FOR THE PROFESSIONAL

THE ISOLATOR® W/ ROTATING FLANGE

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

LEAD-FREE BRASS Certified to NSF/ANSI 61-G

IPS	SIZE	ITEM #	CTN/CS	STANDARD BRASS		LEAD-FREE BRASS	
				ITEM #	CTN/CS	ITEM #	CTN/CS
IPS	3/4"	41403	1/20	41403W	2/20	41403W	2/20
	1"	41404	1/20	41404W	2/20	41404W	2/20
	1 1/4"	41405	1/20	41405W	2/20	41405W	2/20
	1 1/2"	41406	1/20	41406W	2/10	41406W	2/10
	2"	-	-	-	41407WHV	1/10	41407WHV
SWT	3/4"	51403	1/20	51403W	2/20	51403W	2/20
	1"	51404	1/20	51404W	2/20	51404W	2/20
	1 1/4"	51405	1/20	51405W	2/20	51405W	2/20
	1 1/2"	51406	1/20	51406W	2/10	51406W	2/10
	2"	-	-	-	51407WHV	1/10	51407WHV
PRESS 250 CWP/ 250° F Max	3/4"	81403HV	1/20	-	-	-	-
	1"	81404HV	1/20	-	-	-	-
	1 1/4"	81405HV	1/20	-	-	-	-
	1 1/2"	81406HV	1/10	-	-	-	-
	2"	81407HV	1/10	-	-	-	-

IPS	SIZE†	METRIC SIZE	ITEM #	STANDARD BRASS		LEAD-FREE BRASS	
				ITEM #	CTN/CS	ITEM #	CTN/CS
PP-R 355 PSI**	3/4"	25	91403WHV	1/20	91403WHV	1/20	91403WHV
	1"	32	91404WHV	1/20	91404WHV	1/20	91404WHV
	1 1/4"	40	91405WHV	1/20	91405WHV	1/20	91405WHV
	1 1/2"	50	91406WHV	1/10	91406WHV	1/10	91406WHV
	2"	63	91407WHV	1/10	91407WHV	1/10	91407WHV
PP-RCT 600 PSI**	3/4"	25	101403WHV	1/20	101403WHV	1/20	101403WHV
	1"	32	101404WHV	1/20	101404WHV	1/20	101404WHV
	1 1/4"	40	101405WHV	1/20	101405WHV	1/20	101405WHV
	1 1/2"	50	101406WHV	1/10	101406WHV	1/10	101406WHV
	2"	63	101407WHV	1/10	101407WHV	1/10	101407WHV

THE ISOLATOR® W/ ROTATING FLANGE & MULTI-FUNCTION DRAIN

AVAILABLE W/
LEAD-FREE
CLEAN BRASS
THE CLEAR CHOICE
FOR THE PROFESSIONAL

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Multi-Function Hi-Flow Hose Drain,
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

LEAD-FREE BRASS Certified to NSF/ANSI 61-G

IPS	SIZE	ITEM #	CTN/CS	STANDARD BRASS		LEAD-FREE BRASS	
				ITEM #	CTN/CS	ITEM #	CTN/CS
IPS	3/4"	41413	2/20	41413W	2/20	41413W	2/20
	1"	41414	2/20	41414W	2/20	41414W	2/20
	1 1/4"	41415	2/20	41415W	2/10	41415W	2/10
	1 1/2"	41416	2/10	41416W	2/10	41416W	2/10
	2"	-	-	-	41417WHV	1/10	41417WHV
SWT	3/4"	51413	2/20	51413W	2/20	51413W	2/20
	1"	51414	2/20	51414W	2/20	51414W	2/20
	1 1/4"	51415	2/20	51415W	2/10	51415W	2/10
	1 1/2"	51416	2/10	51416W	2/10	51416W	2/10
	2"	-	-	-	51417WHV	1/10	51417WHV
PRESS 250 CWP/ 250° F Max	3/4"	81413HV	1/20	-	-	-	-
	1"	81414HV	1/20	-	-	-	-
	1 1/4"	81415HV	1/10	-	-	-	-
	1 1/2"	81416HV	1/10	-	-	-	-
	2"	81417HV	1/10	-	-	-	-

IPS	SIZE†	METRIC SIZE	ITEM #	STANDARD BRASS		LEAD-FREE BRASS	
				ITEM #	CTN/CS	ITEM #	CTN/CS
PP-R 355 PSI**	3/4"	25	91413WHV	1/20	91413WHV	1/20	91413WHV
	1"	32	91414WHV	1/20	91414WHV	1/20	91414WHV
	1 1/4"	40	91415WHV	1/10	91415WHV	1/10	91415WHV
	1 1/2"	50	91416WHV	1/10	91416WHV	1/10	91416WHV
	2"	63	91417WHV	1/10	91417WHV	1/10	91417WHV
PP-RCT 600 PSI**	3/4"	25	101413WHV	1/20	101413WHV	1/20	101413WHV
	1"	32	101414WHV	1/20	101414WHV	1/20	101414WHV
	1 1/4"	40	101415WHV	1/10	101415WHV	1/10	101415WHV
	1 1/2"	50	101416WHV	1/10	101416WHV	1/10	101416WHV
	2"	63	101417WHV	1/10	101417WHV	1/10	101417WHV

ALSO AVAILABLE FOR HIGH VELOCITY PUMPS - TO ORDER, ADD HV ONTO THE END OF THE PART #.
 †PP-R & PP-RCT SOCKETS ARE MANUFACTURED BASED ON METRIC UNITS OF MEASUREMENT. IMPERIAL NOMINAL DIAMETER IS PROVIDED AS REFERENCE ONLY.
 **VALVE SEAT/BODY MAXIMUM PRESSURE RATING AT 100° F. OVERALL VALVE PRESSURE RATING IS DETERMINED BY INTENDED OPERATING CONDITIONS AND LIMITATIONS SPECIFIC TO THE SYSTEM DESIGN.
 ††PP-R & PP-RCT SOCKETS ARE MANUFACTURED BASED ON METRIC UNITS OF MEASUREMENT. IMPERIAL NOMINAL DIAMETER IS PROVIDED AS REFERENCE ONLY.

SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET FOR ITEM DIMENSIONS & MATERIALS

AVAILABLE W/
LEAD-FREE
CLEAN BRASS
THE CLEAR CHOICE
FOR THE PROFESSIONAL



EVERYTHING BUT THE PUMP!

- 1 ISOLATOR® W/ ROTATING FLANGE
- 1 ISOLATOR® W/ ROTATING FLANGE & DRAIN
- 2 FULL-FACED FLANGE GASKETS
- 2 SETS OF NUTS & BOLTS

FOR USE WITH AQUATHERM PP-R PIPING SYSTEMS

PRO-CONNECT PPR PRO aquatherm



- Permanent leak-free heat fusion connections made in seconds
- Compatible with all Aquatherm PP-R piping systems
- Safe, clean, long-lasting, high performance materials
- Suitable for all potable applications
- Available exclusively at Aquatherm® dealers

PP-RCT FOR USE WITH ANY PP-R OR PP-RCT PIPING SYSTEM

PRO-CONNECT PPR PRO



- Permanent leak-free heat fusion connections made in seconds
- PP-RCT sockets compatible with all PP-R & PP-RCT piping systems†
- Safe, clean, long-lasting, high performance materials
- Suitable for all potable applications

†IN ACCORDANCE WITH PIPING MANUFACTURER'S INSTALLATION AND WARRANTY REQUIREMENTS.

THE ISOLATOR® CIRCULATOR PUMP INSTALLATION KIT

STANDARD BRASS

LEAD-FREE BRASS Certified to NSF/ANSI 61-G

IPS	SIZE	ITEM #	CTN/CS	STANDARD BRASS		LEAD-FREE BRASS	
				ITEM #	CTN/CS	ITEM #	CTN/CS
IPS	3/4"	41413KIT	1/10	41413WKIT	1/10	41413WKIT	1/10
	1"	41414KIT	1/10	41414WKIT	1/10	41414WKIT	1/10
	1 1/4"	41415KIT	1/10	41415WKIT	1/10	41415WKIT	1/10
SWT	3/4"	51413KIT	1/10	51413WKIT	1/10	51413WKIT	1/10
	1"	51414KIT	1/10	51414WKIT	1/10	51414WKIT	1/10
	1 1/4"	51415KIT	1/10	51415WKIT	1/10	51415WKIT	1/10

The ISOLATOR[®]

UNI-FLANGE BALL VALVE[®]

These valves have revolutionized the installation of circulator pumps. Our original Isolator[®] Uni-Flange Ball Valve design has evolved into the largest flanged ball valve program in the industry today.

- Heavy duty forged brass construction
- Unique uni-body design
- Blowout proof stem
- Conical inlet to minimize turbulence
- Available slotted holes for high velocity pumps
- Guaranteed for life

THE ISOLATOR[®] UNI-FLANGE BALL VALVE

Full Port Forged Brass Ball Valve ISO 9001
w/ Adjustable Packing Gland, 600 WOG
Nuts & Bolts

SIZE	STANDARD BRASS	
	ITEM #	CTN/CASE
1/2"	40402	1/20
3/4"	40403	1/20
1"	40404	1/20
1 1/4"	40405	1/20
1 1/2"	40406	1/20
2"	40407HV	1/10
IPS		
1/2"	50402	2/20
3/4"	50403	2/20
1"	50404	2/20
1 1/4"	50405	2/20
1 1/2"	50406	2/20
2"	50407HV	2/10

ALSO AVAILABLE FOR HIGH VELOCITY PUMPS - TO ORDER, ADD HV ONTO THE END OF THE PART #. 2" AVAILABLE IN HIGH VELOCITY ONLY, ALSO FITS STANDARD SIZE PUMPS. 2" ISOLATORS HAVE 1 1/2" PORT.

THE ISOLATOR[®] W/ DRAIN

Full Port Forged Brass Ball Valve ISO 9001
w/ Hi-Flow Hose Drain 600 WOG
w/ Adjustable Packing Gland, Nuts & Bolts

SIZE	STANDARD BRASS	
	ITEM #	CTN/CASE
3/4"	40413	2/20
1"	40414	2/20
1 1/4"	40415	2/20
1 1/2"	40416	2/10
2"	40417HV	1/10
IPS		
3/4"	50413	2/20
1"	50414	2/20
1 1/4"	50415	2/20
1 1/2"	50416	2/10
2"	50417HV	1/10

ALSO AVAILABLE FOR HIGH VELOCITY PUMPS - TO ORDER, ADD HV ONTO THE END OF THE PART #. 2" AVAILABLE IN HIGH VELOCITY ONLY, ALSO FITS STANDARD SIZE PUMPS. 2" ISOLATORS HAVE 1 1/2" PORT.

SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET
FOR ITEM DIMENSIONS & MATERIALS

EVERYTHING BUT THE PUMP!

- 1 ISOLATOR[®]
- 1 ISOLATOR[®] W/ DRAIN
- 2 FULL-FACED FLANGE GASKETS
- 2 SETS OF NUTS & BOLTS



THE ISOLATOR[®] CIRCULATOR PUMP INSTALLATION KIT

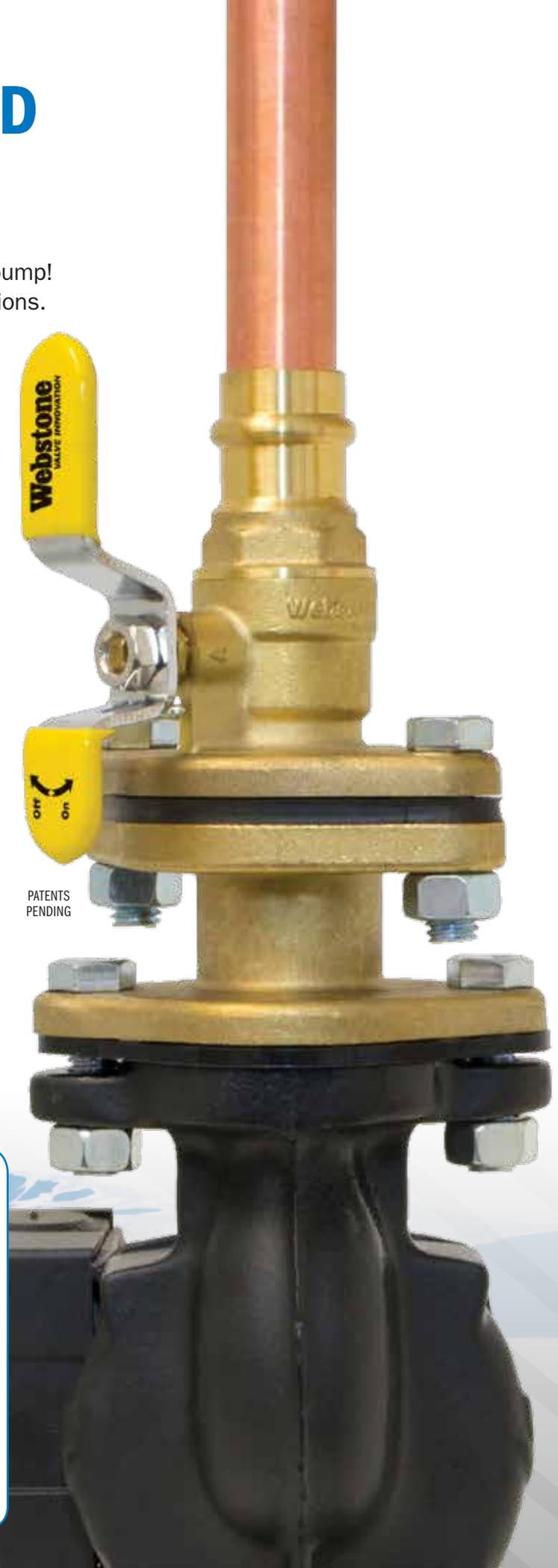
SIZE	STANDARD BRASS	
	ITEM #	CTN/CASE
3/4"	40413KIT	1/10
1"	40414KIT	1/10
1 1/4"	40415KIT	1/10
IPS		
3/4"	50413KIT	1/10
1"	50414KIT	1/10
1 1/4"	50415KIT	1/10



DOUBLE FLANGED CHECK VALVE

The easiest way to add a check valve to any pump!
Two sizes cover all standard Isolator® installations.

- Installs between the pump & Isolator® Uni-flanged Ball Valve
- Limits SKUs and saves space on the truck!
- 360° Rotating flange with snap-ring provides greater control during installation
- Inner & outer flanges are designed to help prevent problems from over-torquing
- Outfitted with slotted bolt holes that fit both standard and high velocity pumps
- Replacement check assemblies available
- Replaces the Isolator® w/ Integral Check (4240/5240 & 4340/5340 Series)
- Available to fit 3/4-1¼" and 1½-2"
- Guaranteed for life



SNUG-FIT ROTATING FLANGE



SECTION REMOVED TO SHOW INTERNAL CONSTRUCTION

DOUBLE FLANGED CHECK VALVE

Forged Brass Check Valve ISO 9001
w/ Rotating Flange 150 PSI @ 200°F
Includes One Set of Mounting Bolts
& Full-Faced Flange Gasket

SIZE	STANDARD BRASS ITEM #	CTN/CASE
¾" thru 1¼"	13703HV	1/10
1½" thru 2"	13706HV	1/10

FITS STANDARD AND HIGH VELOCITY PUMPS



REPLACEMENT INTEGRAL CHECK

	ITEM #	CTN/CASE
FITS 13703HV	C42404	1/1
FITS 13706HV	C42406	1/1

REPLACEMENT RETAINING RING

	ITEM #	CTN/CASE
FITS 13703HV	RR42404	1/1
FITS 13706HV	RR42405	1/1



SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET
FOR ITEM DIMENSIONS & MATERIALS

The ISOLATOR[®]

UNI-FLANGE BALL VALVE[®]

with ROUND FLANGE

The Isolator[®] with Round Flange features a round shape and bolt patterns specifically designed to accommodate the industry's most popular high efficiency variable speed pumps.

- Patented Technology
- Detachable rotating round flange
- Three flange styles designed specifically for each pump
- Sizes 1½" & 2"
- Guaranteed for life

**SPECIALLY DESIGNED TO
ACCOMMODATE *HIGH EFFICIENCY*
VARIABLE SPEED PUMPS INCLUDING:***

- Taco 00e
- Grundfos Magna3
- Armstrong E.2
- Bell & Gossett ecocirc XL
- Wilo Stratos



THE ISOLATOR® W/ ROUND FLANGE

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

	SIZE	ITEM #	CTN/CASE
FIP	1 1/2"	41406HV-RF375	1/6
SWT	1 1/2"	51406HV-RF375	1/6
Press†	1 1/2"	81406HV-RF375	1/6

THE ISOLATOR® W/ ROUND FLANGE & MULTI-FUNCTION DRAIN

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Multi-Function Hi-Flow Hose Drain,
Adjustable Packing Gland, Nuts & Bolts

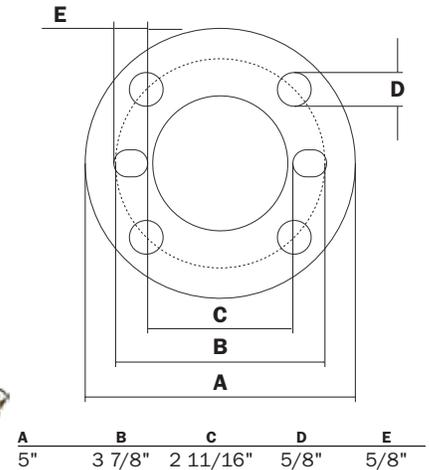
STANDARD BRASS

	SIZE	ITEM #	CTN/CASE
FIP	1 1/2"	41416HV-RF375	1/6
SWT	1 1/2"	51416HV-RF375	1/6
Press†	1 1/2"	81416HV-RF375	1/6

†PRESS 250 CWP/250° F MAX

DESIGNED FOR USE WITH:*

TACO 00E - VR15-1



SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET FOR FULL ITEM DIMENSIONS & MATERIALS

THE ISOLATOR® W/ ROUND FLANGE

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

	SIZE	ITEM #	CTN/CASE
FIP	2"	41407HV-RF400	1/6
SWT	2"	51407HV-RF400	1/6
Press†	2"	81407HV-RF400	1/6

THE ISOLATOR® W/ ROUND FLANGE & MULTI-FUNCTION DRAIN

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Multi-Function Hi-Flow Hose Drain,
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

	SIZE	ITEM #	CTN/CASE
FIP	2"	41417HV-RF400	1/6
SWT	2"	51417HV-RF400	1/6
Press†	2"	81417HV-RF400	1/6

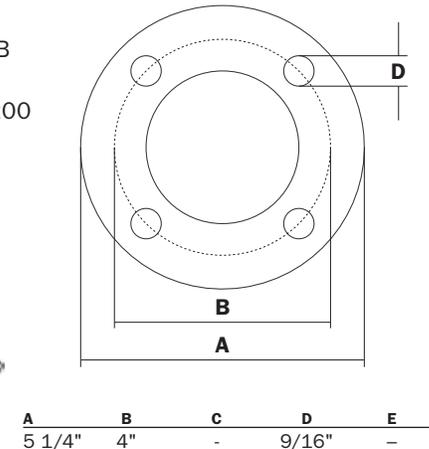
†PRESS 250 CWP/250° F MAX

DESIGNED FOR USE WITH:*

ARMSTRONG E.2 SERIES - E16.2/E16.2B, E30.2/E30.2B

BELL & GOSSETT ECOCIRC - XL 15-75, XL 20-140, XL 40-200

WILO STRATOS - 2.0 X 3-35



SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET FOR FULL ITEM DIMENSIONS & MATERIALS

THE ISOLATOR® W/ ROUND FLANGE

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

	SIZE	ITEM #	CTN/CASE
FIP	2"	41407HV-RF475	1/6
SWT	2"	51407HV-RF475	1/6
Press†	2"	81407HV-RF475	1/6

THE ISOLATOR® W/ ROUND FLANGE & MULTI-FUNCTION DRAIN

Full Port Forged Brass Uni-Flange Ball Valves ISO 9001
w/ Detachable Rotating Flange, 600 WOG
Multi-Function Hi-Flow Hose Drain,
Adjustable Packing Gland, Nuts & Bolts

STANDARD BRASS

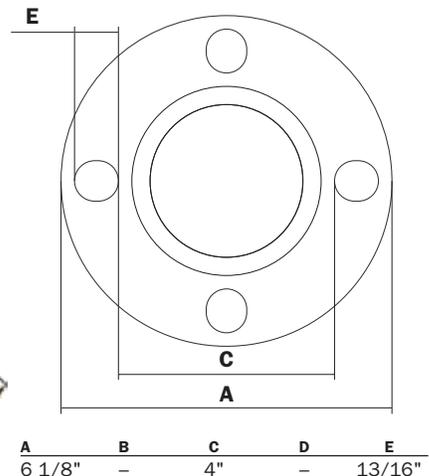
	SIZE	ITEM #	CTN/CASE
FIP	2"	41417HV-RF475	1/6
SWT	2"	51417HV-RF475	1/6
Press†	2"	81417HV-RF475	1/6

†PRESS 250 CWP/250° F MAX

DESIGNED FOR USE WITH:*

TACO 00E - VR20-1

GRUNDFOS MAGNA3 - 50-80 F, 50-150 F



SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET FOR FULL ITEM DIMENSIONS & MATERIALS

The ISOLATOR[®]

UNI-FLANGE BALL VALVE[®]

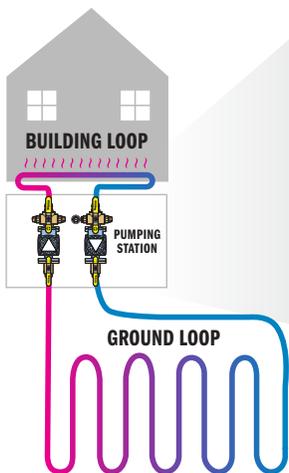
SELECT[™] WITH 4-WAY SELECTABLE FLOW PATH

IDEAL FOR **GEOTHERMAL APPLICATIONS**

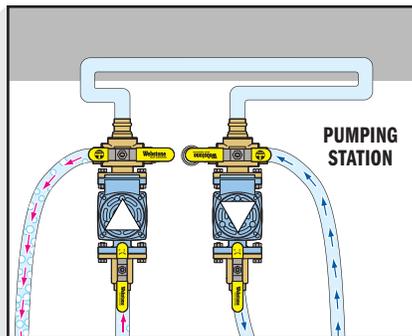
- Easily fill, purge, sample or add a pressure gauge right at the pump
- 1" side ports enable quicker filling and purging – ideal for Geothermal applications
- Easily direct fluid between 4 available ports
- Easily isolate the pump for replacement
- 1" Press connection compatible with popular press tools
- Heavy duty forged brass construction
- Blowout proof stem & adjustable packing gland
- Guaranteed for life



2-PUMP GEOTHERMAL SYSTEM OVERVIEW*



FILLING & PURGING



Configure the valves to isolate the building loop. Connect a source to the outer port on one valve in the ground loop and a drain hose to the other. Air in the ground loop will be forced out of the purging port by the incoming water.

* Winter/heating operation shown.

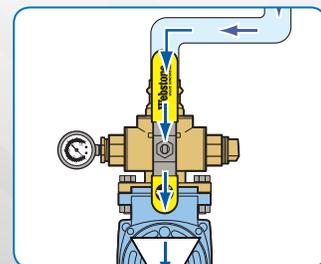
THE ISOLATOR[®] SELECT

Full Port Forged Brass ISO 9001
 Uni-Flange Ball Valve 250 CWP/250°F
 w/ 4-Way Selectable Flow Path, Plugged
 FIP Ports, Adjustable Packing Gland, Nuts,
 Bolts, & Flange Gasket

PRESS	STANDARD BRASS	
	SIZE	ITEM # CTN/CASE
	1"	81424 1/10

SEE WWW.WEBSTONEVALVES.COM/SPEC_SHEET
 FOR ITEM DIMENSIONS & MATERIALS

ADD A PRESSURE GAUGE OR BOILER DRAIN



Webstone

VALVE INNOVATION

ONE APPIAN WAY WORCESTER, MA 01610
 P.O. BOX 59 WORCESTER, MA 01613
 P: (800) 225-9529 • F: (800) 336-5133
www.webstonevalves.com

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.

The Isolator[®] is a trademark of Webstone © 2016 Webstone, a brand of NIBCO FORM: ISO-0916