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WALL DIVERTER VALVE

INSTALLATION INSTRUCTIONS
SS-WD2 & SS-WD3

IMPORTANT

All *Watermark Designs LLC* products are engineered to provide quality performance provided they are installed and operated properly. To fully enjoy the comfort, safety, and reliability of your new Wall Diverter Valve, please follow the instructions below.

Watermark Designs LLC reserves the right to make modification and specification changes at any time.
Please visit www.watermark-designs.com for most current technical data.

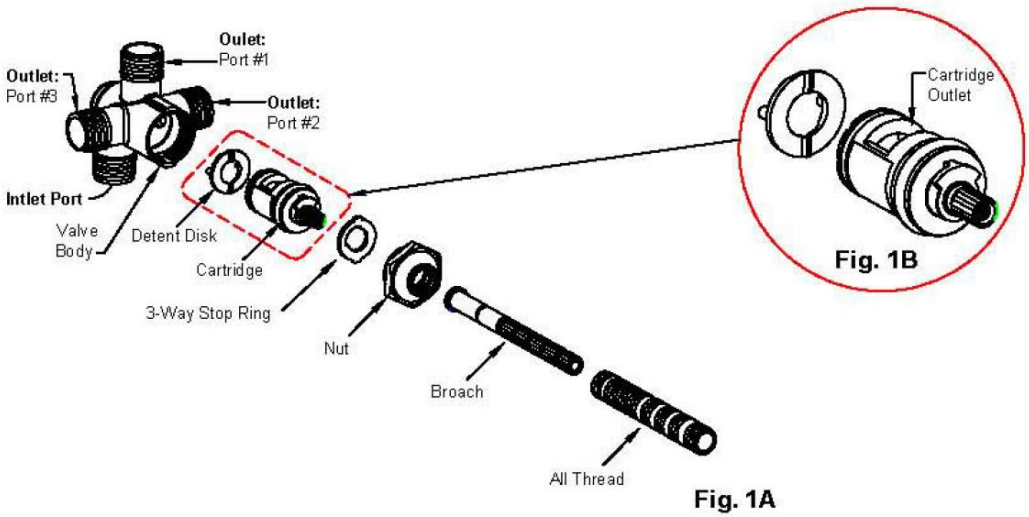


Fig. 1A

Fig. 1B

Inlet/Outlets: 1/2" NPT Male (or) 1/2" Copper Sweat.

Fig. 2A

Supplied on unit
3-Way Installation

Fig. 2B

Extra if needed for
2-Way Installation Left

Fig. 2C

Extra if needed for
2-Way Installation Right

Wall Diverter Installation

- Diverter valve has the capacity for 3-port/4-mode or 2-port/3-mode operation.
- Inlet is located at the back and bottom of the valve with an arrow for inlet identification.
- Outlets are marked with numbers 1, 2, and 3, respectively.

Connection Types: NPT Thread or Copper Sweat "Solder"

- For solder connections either directly to the valve or within 6" of the valve, the **CARTRIDGE MUST BE REMOVED** from the body. When soldering, do not apply excessive heat directly to the body. **Failure to follow these instructions can cause damage to the body, detent disk, and/or the cartridge and may nullify the warranty.**
- Remove all thread, broach, body nut, cartridge, and detent disk from the valve body.
- Valve comes as standard with default 3-port/4-mode and can be configured to 2-port/3-mode.
- Define how many ports/modes are needed for your application and install the valve according to the inlets/outlets to meet those requirements **(See Fig. 1A & 4)**.
- Connect the mixed water supply to the diverter valve inlet.
- Connect the outlets to the desired number of applications. For 3 way, use all 3 outlet ports. For 2 way, use outlets 1 and 2 to the right, or outlets 1 and 3 to the left. **Cap off any unused outlets to avoid potential water leakage behind the wall (See Fig. 1 & 4)**.
- Install adequate bracing support in the wall and secure the diverter valve to the bracing.
- Remove the 3 way stop ring from the cartridge **(See Fig. 1)**.
- Apply silicone grease to the detent disk and attach it to the bottom of the cartridge, aligning the two pins horizontal to the outlet opening of the cartridge **(See Fig. 1B)**.
- Align the cartridge outlet with the top outlet and insert the cartridge into the body and gently push it all the in so the detent disk pins fit into the holes inside the valve body. When fully inserted, the cartridge will be recessed in the valve.
- Install the stop ring according to the installation type, 2 way stop ring for 2-way function to the left or right, or 3 way for all outlets. **(See Fig. 2A, 2B, & 2C)**. Parts 2B and 2C are the same, and reversible for left or right installation.
- Install body not and tighten securely. Then install the broach and all-thread (do not overtighten all-thread onto body nut).

NOTE: WHEN INSTALLING VALVE ROUGH IN WALL, LEAVE A MINIMUM OF 1 1/8" HOLE TO MAINTAIN ACCESS TO STEM.

1	Valve Body
2	Detent Disk
3	Cartridge
4	2-Way Stop Ring
5	3-Way Stop Ring
6	Body Nut
7	Broach O-Ring
8	Broach
9	All Thread

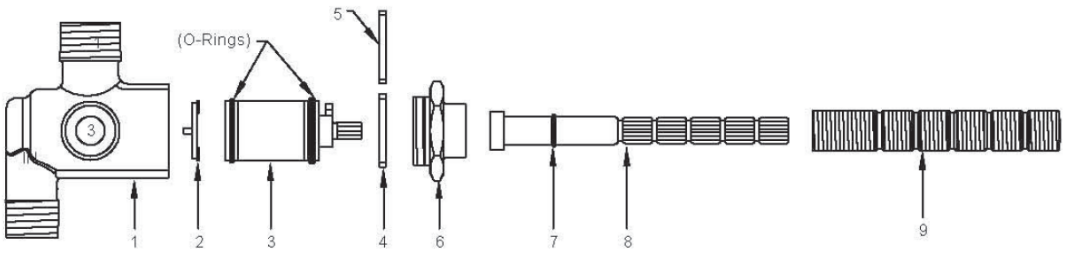


Fig. 3

Fig. 4

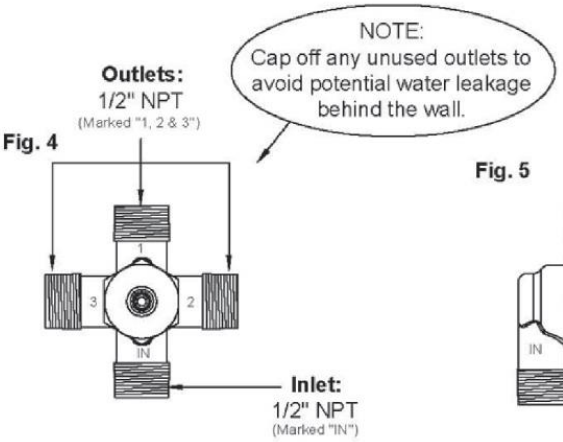
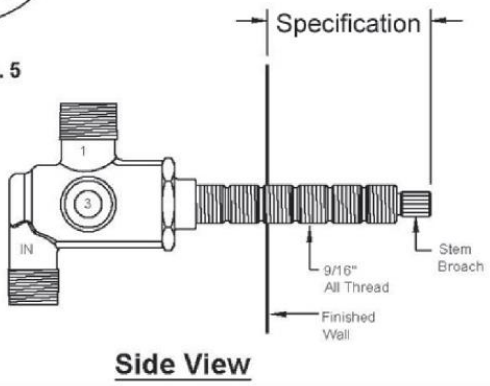


Fig. 5



Max Pressure: 125 PSI (8.6 Bar)
Max Hot Water Supply Temperature: 185°F (85°C)
CSA, ASSE, & IAPMO US & CA

SPECIFICATION FROM FINISHED WALL TO TIP OF BROACH STEM

Handle Trim	Measurement (in.)
A	3
AA	3 1/4
AQ	2
AX	3
AZ1	2 1/2
B4/B5	3
B9	2 1/8
BB/CC	3 1/4
BG4/BG5	2 3/4
BL1	1 3/8
BL2/BL3	1 1/2
BK	2 3/4
BV01/BV02/BV09	3
BV05	2
BV13	2 1/2
BV81	2 1/4
CC11	2 1/2
CC20/CC21/CC22	2 1/4
CC30/CC31	3
CC40/CC41/CC42	2 1/4

Handle Trim	Measurement (in.)
CC51	1 3/4
CC61	2 1/2
CL14/CL15/CLSL/CLSX	2 5/8
CL16	2 1/8
CRY4	3 1/8
CRY5	2 7/8
D	3
D5/D6	2 1/2
DD	3 1/4
DD2/DD3/DD4/DD5	1 7/8
E/F/G	3
E1◆/E2◆/E3◆	1
ED1/ED4	1 1/4
ED2/ED3	1 3/8
EV4	1 7/8
H	3 1/4
H4	2 1/4
HH/I	3
IN14/IN16	3
J5/J6	2 1/2

Handle Trim	Measurement (in.)
KK	2 1/4
L4/L5/L6/L8	1 3/4
L9	1 3/4
LLD4/LLP5/LLO6	1 3/4
MC1/MC2	1 1/2
MZ4/MZ5	2 7/8
N2/N3/N4/R3	2 1/4
N5	2 1/2
R1/R2	1 1/2
RG4/RG5	1 5/8
RNK8/RNS4	1 3/4
S/S1A	2 3/4
S1/S1A/S2/S3	2 1/4
SA2/SW	3
SL/SX	1 1/2
SP4/SP5	2 1/8
T/T1/T4	2 1/2
T6/T7/T8/T9	3
TIA/TIB	1 3/4
TL5	1 3/8

Handle Trim	Measurement (in.)
TR14/TR15	3
TR24/TR25	2 1/8
U	2 1/2
U1	3 1/2
U3/U4/U5/U6/U7	3 1/4
U8	1 3/4
V	2 1/4
V1	1 1/2
V2/W	2
WA/WB/WC/WD	2 1/2
WW	3 1/2
X	2 3/4
XJ/XM/XN/XO/XQ	2
XX	3
Y	2 3/4
Y2	2 1/4
YY	3
Z	2 3/4
ZZ	3
ZEN	1 1/8

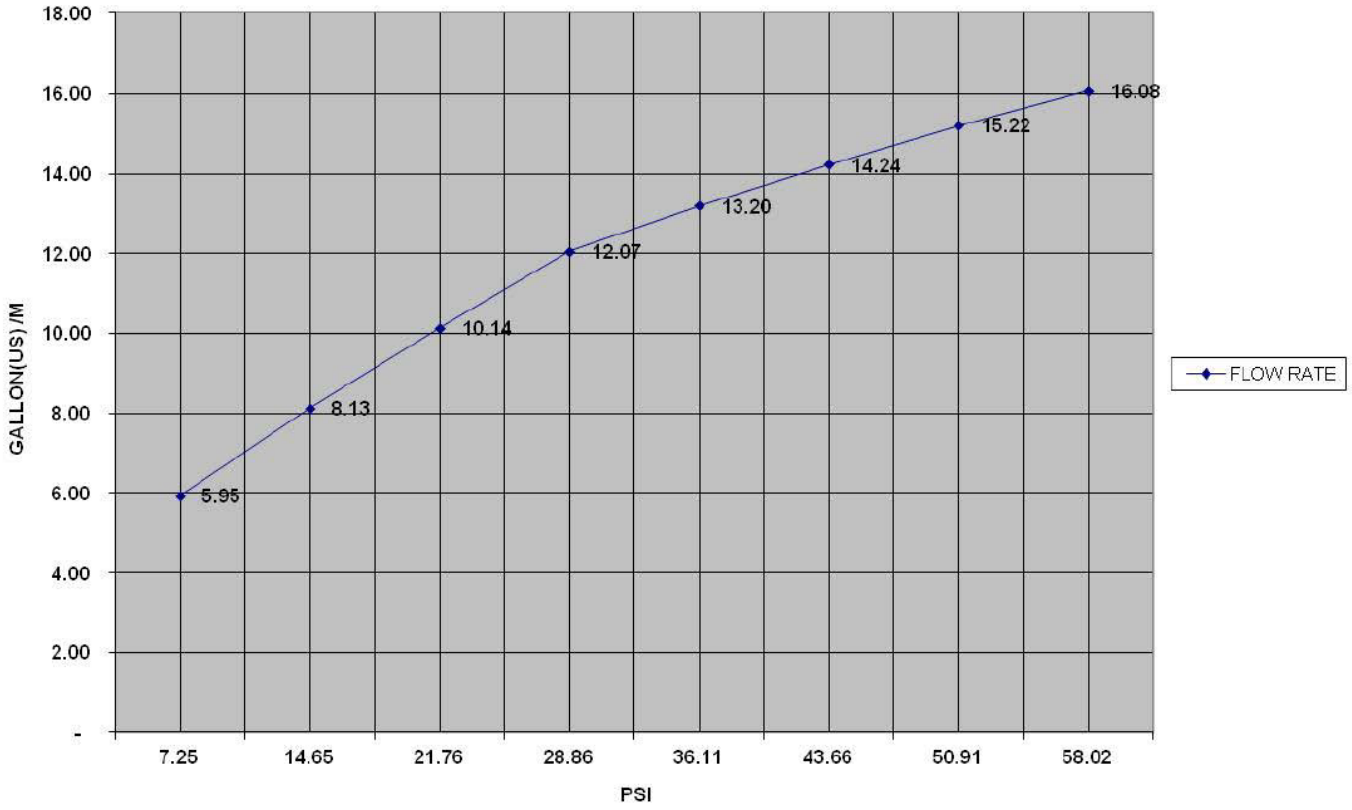
NOTE: WHEN FITTING HANDLE IT MAY BE NECESSARY TO SHORTEN BROACH STEM AND/OR ALL-THREAD TO ELIMINATE GAP

TROUBLESHOOTING

1. Leak at body nut, and/or between broach and all-thread.	The cartridge O-ring is damaged. To replace the O-ring, remove trim, body nut, then the cartridge.
2. While using one outlet, there is water leaking from the other outlet.	Replace cartridge. The O-ring on cartridge is defective. To replace, remove the all-thread, broach, body nut, and cartridge. Fit new O-ring and apply silicone grease. Reinstall cartridge as described in the previous instructions.

FLOW RATE CHARTS

BV-630,631 (SINGLE PORT)



BV630,631 (TWO PORTS)
90%-90%