

BALL VALVE ACCESS BOX SINGLE VALVE with DRAIN

687 SERIES

ServiceBox™

SPECIFICATION

Sioux Chief 687 Series ball valve access box shall be used where accessible, full-port ball valves are required. Ball valve shall be replaceable, 600 WOG, with forward-facing drain port and quarter-turn operation. Valve shall incorporate a union-style connection with brass tailpieces. Tailpiece connections shall comply with ASTM standards.

INSTALLATION

See www.siouxchief.com for full installation instructions. Install in a location that allows for operation, service, maintenance, etc. Make all connections per ASTM standards with compliant materials and processes. Test with water and inspect all connections for leaks before use.

MATERIALS

Valve body: No-lead brass²

Tailpieces: No-lead brass¹

Valve handle: Anodized aluminum

Union gaskets: EPDM

MainBlock tube anchors: ABS

Access box: Fire-rated ABS

CERTIFICATIONS/APPROVALS

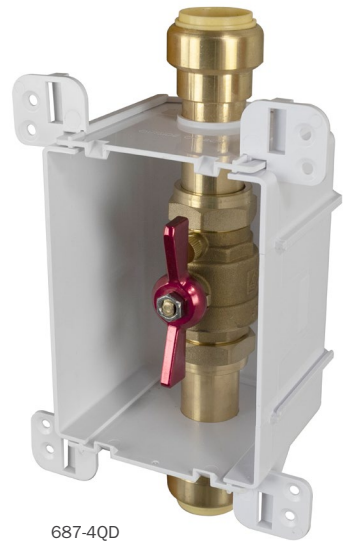
- ☞ Tested/Certified/Approved for use in fire-rated applications – See back for ratings
IAPMO Listed, Complies with ANSI/NSF 372, Meets ASME A112.18.1 and ASME A112.4.14
- End connections are manufactured to specifications called out in their respective ASTM standards.
 - Standards for Fittings and tube options include: CPVC D2846, PEX tube F876/F877, PEX fittings ASTM F1807 & F1960, PERT tube ASTM 2769, PE tube ASTM D2737, PVC pipe ASTM D1785, CTS push fittings (ASSE 1061) compatible with CTS tube, IPS push fittings compatible with IPS pipe

VALVE MAX PRESSURE

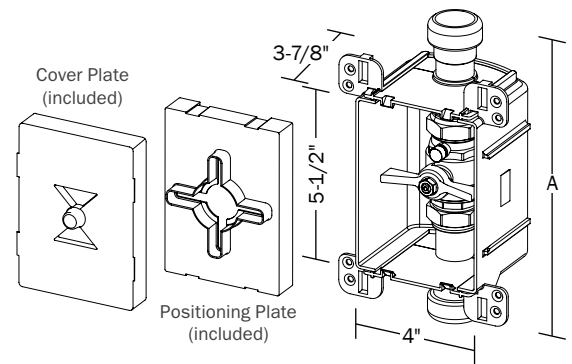
600 psig WOG

DIMENSIONS

A: Overall height	CPVC Socket	MSWT/Press/Push	Push (CTS)	PEX F1960
1/2" Nom	9"	9-7/8"	9"	9-1/8"
3/4" Nom	8-7/8"	10"	9"	9-1/8"
1" Nom	9-3/8"	10-3/8"	9-3/8"	9-5/8"
1-1/4" Nom	10-3/8"	11-7/8"	10"	10-1/2"
Overall height	PEX F1807	CPVC x F1960	CPVC x F1807	Push (IPS x CTS)
1/2" Nom	9-7/8"	–	–	–
3/4" Nom	9-7/8"	9"	9-3/8"	9"
1" Nom	9-7/8"	9-1/2"	9-5/8"	9-3/8"
1-1/4" Nom	10-3/8"	–	–	–



687-4QD



Create Item Number

687-AB

e.g. **687-3QD**: Access box and 600 WOG full-port ball valve with drain - 3/4" CTS Push x 3/4" CTS Push connection

CONNECTION SIZE A

- 2 = 1/2" Nom.
- 3 = 3/4" Nom.
- 4 = 1" Nom.
- 5 = 1-1/4" Nom.

CONNECTION TYPE B

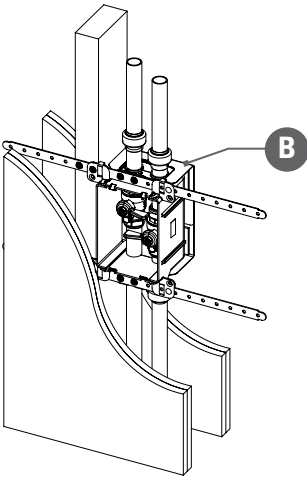
- CD = CPVC socket
- PD = MSWT/Press/Push
- QD = Push Socket (CTS)
- WD = PEX F1960 Expansion
- XD = PEX F1807 Crimp
- CWD = CPVC socket x PEX F1960 Expansion³
- CXD = CPVC socket x PEX F1807 Crimp³
- SQD = Push Socket (IPS) x Push Socket (CTS)³

Accessories - Available Separately:

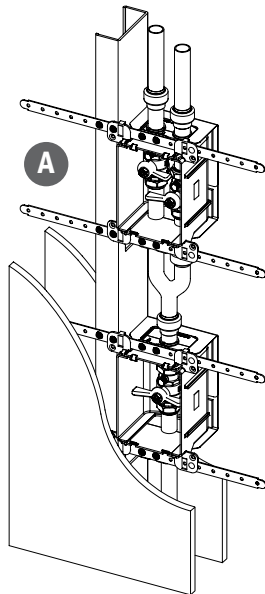
- 687-1F: Finish frame - fits all ServiceBox access boxes
- 696-EX: Frame extension - for multiple layers of drywall
- 696-SC: Solid frame insert
- 687-Y33: Wye splitter: 3/4" x 3/4" x 3/4"
- 687-Y43: Wye splitter: 1" x 3/4" x 3/4"

- 1 Tailpiece material is C693 on PEX F1807/F1960, and MSWT models, and is otherwise C46500. Materials are dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
- 2 Valve material is C69300. Dezincification and SCC resistant, and compliant with NSF-61 Annex G (California No Lead Plumbing Law)
- 3 Available in 3/4" x 3/4" and 1" x 1" sizes only.

1 Box



2 Boxes Stacked



ASTM E814

1 Hr Walls:

F: 60 min

T: 34.5 min

H: ✓

2 Hr Walls:

F: 120 min

T: 58.5 min

H: ✓

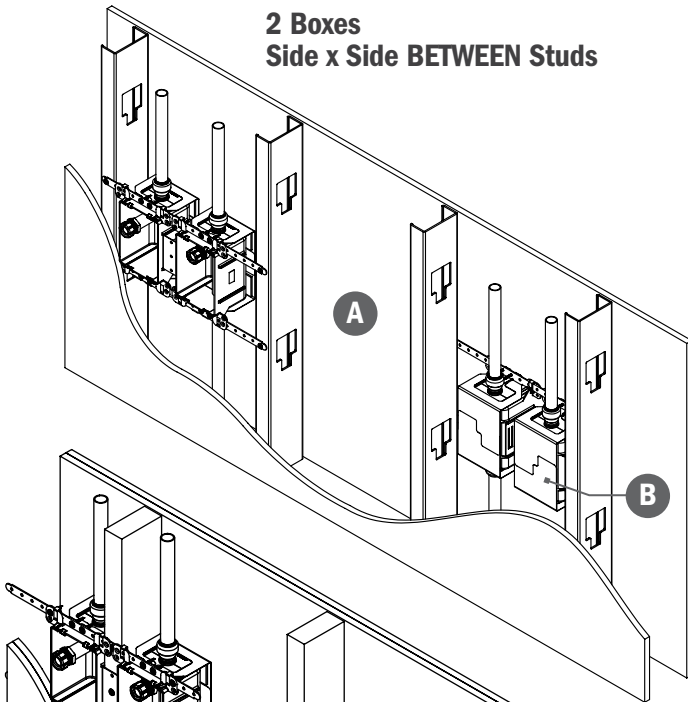
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face

Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad must be installed on all boxes in fire-rated walls

2 Boxes Side x Side BETWEEN Studs



ASTM E814

1 Hr Walls:

F: 60 min

T: 27.5 min

H: ✓

2 Hr Walls:

F: 120 min

T: 60 min

H: ✓

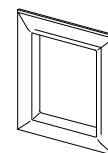
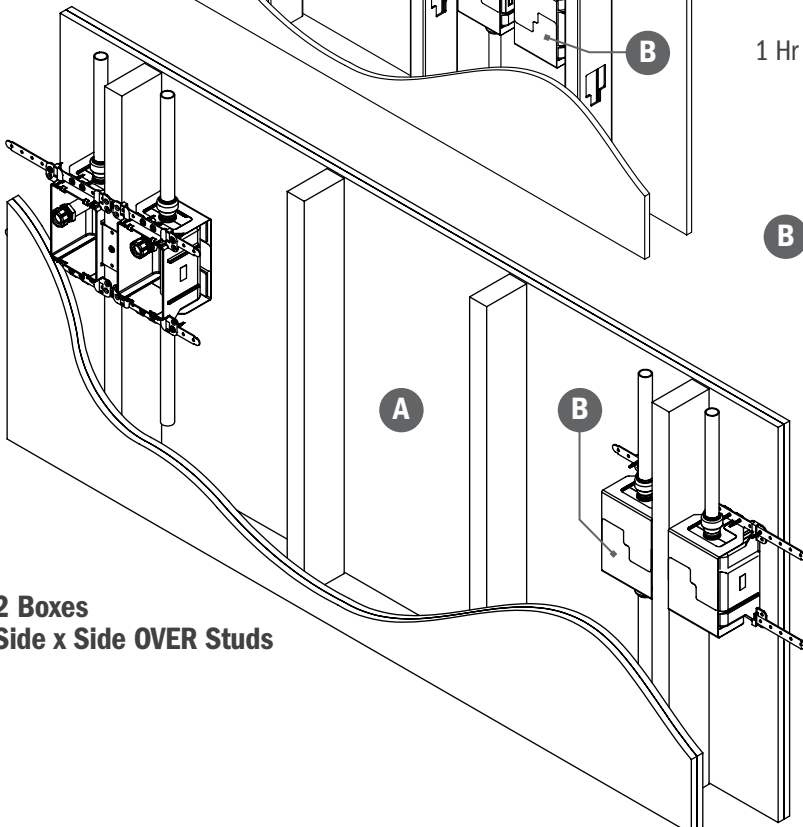
1 Hr = 1 layer 5/8" each face | 2 Hr = 2 layers 5/8" each face

Wood or Steel Studs | No back-to-back installations

A NO penetrations in adjacent stud cavity

B Interlocked metal fire-shield with intumescent pad must be installed on all boxes in fire-rated walls

2 Boxes Side x Side OVER Studs



No.
687-1F

Frames sold separately

