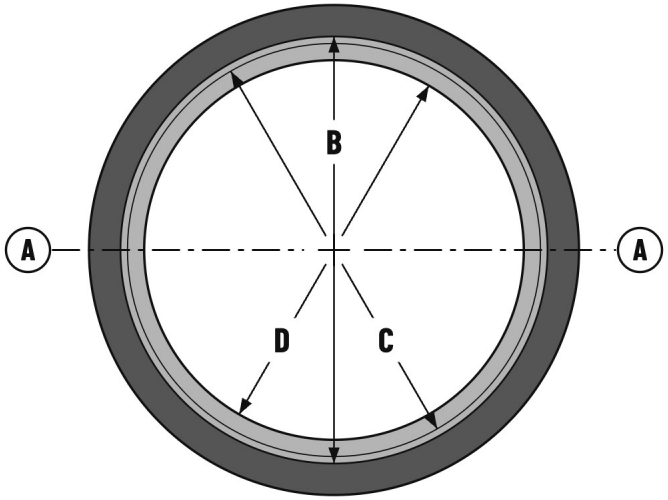
TURNER COMPANY

VALVE ADJUSTMENT RING

Composite Riser Ring · Product Cut Sheet

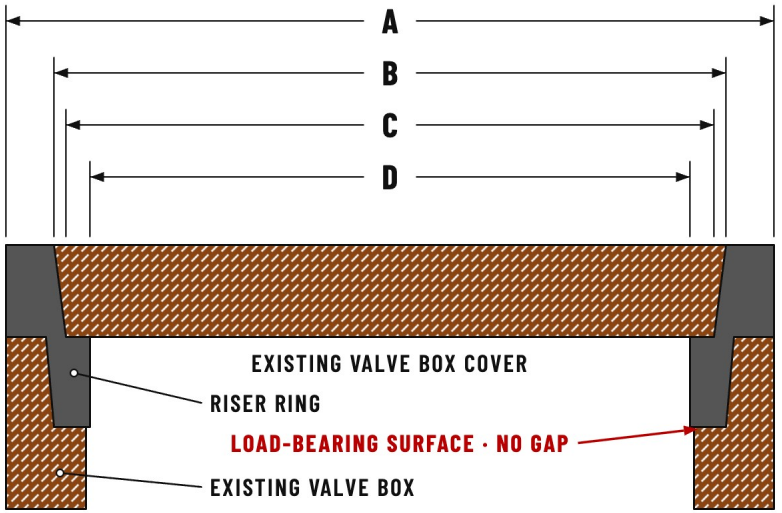


PLAN · N.T.S.

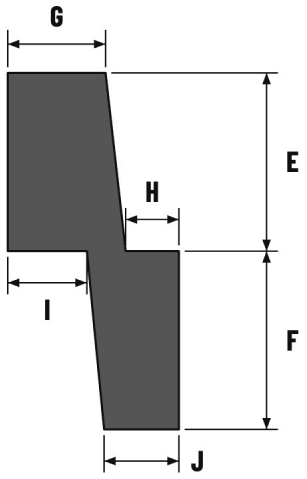
Composite valve extension ring.

SHEET INDEX

1 · Drawing
2 · Schedule & material data
3 · Ordering measurements
4 · Installation



SECTION A–A · THRU ADJUSTMENT RING & EXISTING VALVE BOX · N.T.S.



RING PROFILE · DIMENSION KEY

A	Outside diameter of ring
B	Inside diameter at top of ring
C	Cover seat diameter
D	Clear opening, inside diameter
E	Cover thickness
F	Rise height
G	Top wall width
H	Cover seat width
I	Ledge width over valve box rim
J	Leg width at bottom

Dimensions A–J for the common size are scheduled on Sheet 2. Measurements needed when ordering are on Sheet 3.

F.J. TURNER COMPANY · PO Box 20741, Raleigh, NC 27619 · 919.604.9490 · TurnerManholeRisers.com

DRAWN BY: JAMES TURNER

DATE: 11/12/26

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SCHEDULE · COMMON SIZE

A	B	C	D	E	F	G	H	I	J
8 ¾	7 ⅝	7 ⅜	6 ⅛	9/16	1 ½	9/16	9/16	½	½

Sizes are in inches. See Sheet 1 for dimension letters.

Note: The table above represents the common size. Rings are available in other circumferences, overlay and cover thicknesses as required. Consult manufacturer for additional specifications.

GENERAL

1. Dimensions may vary to meet existing field conditions. Any change in dimensions shall be approved by the Director, Materials Bureau.
2. Maximum adjustment height = 6".
3. Fabrication tolerances ± 1/16".

MATERIALS

Ring: composite ring.

TECHNICAL DATA

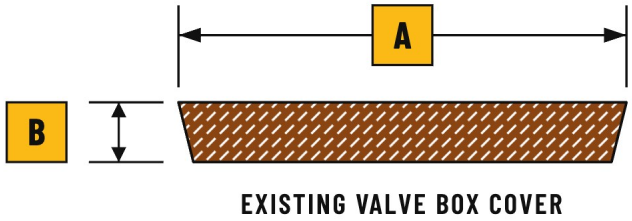
TECHNICAL PROPERTY DATA	RANGE OF VALUES	ASTM METHOD
Fiberglass content, %	13–17	—
Melt flow, g/10 min.	2–4	D1238
Specific gravity	.99–1.02	D792
Tensile strength, psi @ 73°F (23°C)	3,000–4,000	D638
Flexural modulus (tangent), psi	375,000–425,000	D790
Izod impact, ft-lb/in @ 73°F (23°C), notched ½" × ⅛"	1.3–1.7	D256
Gardner impact, in-lb	8–12	D3029
Heat deflection, °F @ 264 psi	250–270	D648
Heat deflection, °F @ 66 psi	270–290	D648
Hardness, Shore "D"	64–68	D2240

MEASUREMENTS NEEDED WHEN ORDERING

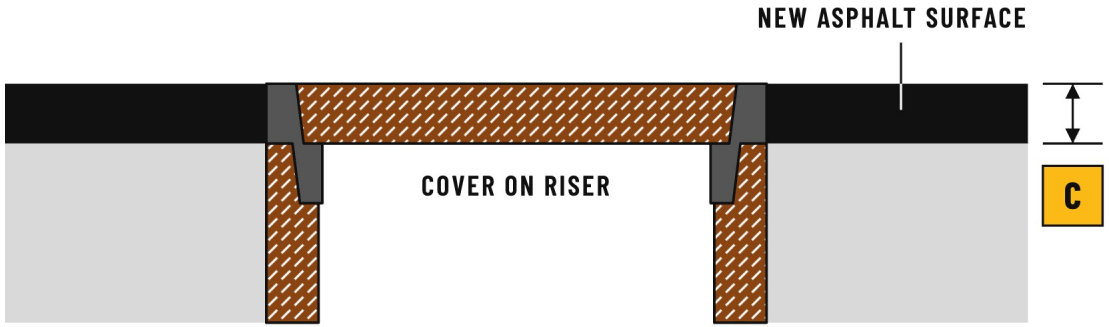
If you have the following measurements handy, please include them with your order or quote request:

- **A** **Lid diameter**
- **B** **Lid thickness (seat depth)**
- **C** **Rise needed (1", 1.5" or 2")**

The riser height equals the thickness of the asphalt overlay after compaction.



EXISTING VALVE BOX COVER



Top: existing valve box cover. Bottom: cover reinstalled on the riser ring at the new asphalt surface.

QUOTES & SIZING

For quote requests and sizing, contact:

James Turner

Phone **919-604-9490**

Email **james@turnermanholerisers.com**

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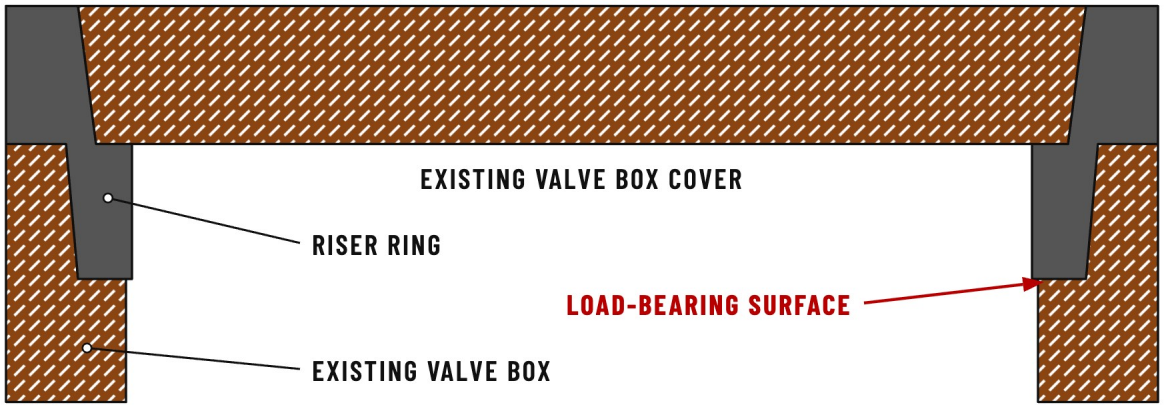
INSTALLATION INSTRUCTIONS

1. Remove cover from valve box.
2. Clean valve box with wire brush or tool to be free of any debris impeding seating of riser ring.
3. Place ring into valve box to ensure that both flat surfaces of the extension are supported by the valve box. Extensions can be cut to allow seating.
4. Install extension into valve box.
5. Place cover into extension.
6. Ready for resurfacing.

INSTALLATION REQUIREMENT

The riser ring must seat FLUSH on the existing valve box. There must be NO GAP between the bottom of the riser and the valve box. This contact face is the load-bearing surface — full, continuous contact is required to transfer load into the valve box.

- **NO GAP ALLOWED AT LOAD-BEARING SURFACE**



Cross-section: FJ Turner riser ring seated in existing valve box, supporting the cover.