

BISON™ VALVE BOXES



**LIGHTWEIGHT STRENGTH,
PROVEN UNDERGROUND
PERFORMANCE**

BR-BISON-BST (22A)

CHARLOTTE
PIPE AND FOUNDRY COMPANY
— INFRASTRUCTURE

BISON™ VALVE BOXES

Bison Valve Boxes combine thick-walled ABS plastic with cast iron rims and lids to deliver a durable, easier-to-handle solution for roadway utility access applications. Designed for strength and adaptability, Bison Valve Boxes weigh up to 80% less than comparable all-cast iron valve boxes, reducing handling and installation demands in the field. When properly installed in asphalt or concrete, the ASTM A48 Class 30 or 35 cast iron rim and lid system helps distribute roadway loads and protect the plastic body below grade, providing H-20 load-rated performance.

HEAVY-DUTY PERFORMANCE. LESS WEIGHT.

Comparison of typical weights for Bison vs. cast iron valve box assemblies.

BISON BOX EXTENSION RANGE (IN.)	WEIGHT (LBS.)	CAST IRON BOX SIZE (IN.)	WEIGHT (LBS.)
22 - 28	28.8	18	58.0
27 - 38	30.6	20	73.5
39 - 50	32.9	21	88.0
39 - 60	34.3	22	104.0
51 - 72	36.6	22 + 58 Extension	127.0

LIGHTWEIGHT STRENGTH & PERFORMANCE

Bison Valve Boxes weigh up to 80% less than comparable all-cast iron valve box assemblies, helping reduce handling demands during transportation, installation, and maintenance activities.

Bison Valve Boxes are designed to perform in demanding roadway environments while reducing overall assembly weight compared to all-cast iron systems.

The white interior improves visibility during maintenance and valve operation, making it easier to see into the box for valve adjustments and maintenance.

TWO-PIECE & THREE-PIECE ASSEMBLIES

Bison Valve Boxes are available in two-piece and three-piece assemblies. Both include a Bison top section with a permanently bonded cast iron rim and a cast iron lid.

Two-piece assemblies include a Bison top section and a Bison bottom section with an integrated bell. Three-piece assemblies add a Bison middle section between the top section and Bison bottom bell, providing greater extension range and installation flexibility. Both assemblies are available with either screw- or slide-type adjustment and include a standard round cast iron lid with WATER lettering. There are optional rim styles, lid types, and lettering to choose from.

Individual Bison Valve Box components are compatible with cast iron valve box components.

COMPLETE THE SOLUTION

Stabilizers are strongly recommended with Bison Valve Box assemblies to help maintain alignment, improve stability, and reduce debris intrusion during installation and backfill.

Extensions and paving risers are available to accommodate a wide range of installation depths and final surface grade requirements. A variety of lid styles, lettering options, and heavy-duty lids are also available to meet utility, roadway, and site-specific requirements.

See pages 6-7 for information on stabilizers, extensions, additional lid options, and accessories.

BISON 5¼" VALVE BOX TWO-PIECE ASSEMBLY

Bison Valve Box Two-Piece assemblies are designed to cover and protect the operating nut and stuffing box. Bison Valve Box Two-Piece assemblies include a Bison top section with a cast iron P500 rim, a standard round cast iron lid with WATER lettering, and a Bison 101 bottom section (equivalent to cast iron #62 or #64 bottoms). Choose either screw- or slide-adjustment style. There are optional rim styles, lid types, and lettering to choose from.

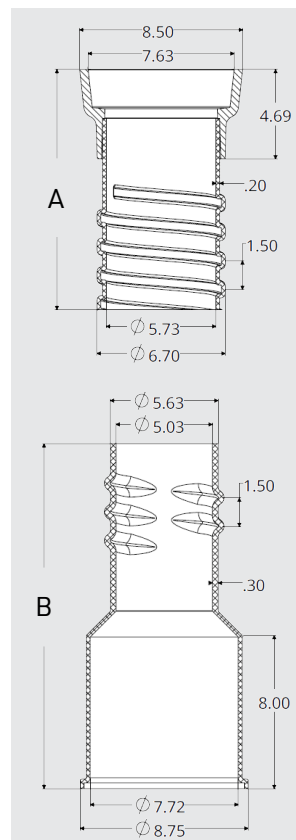


Bison 5¼" Valve Box Two-Piece assembly with standard P500 rim, standard 101 bell, screw-type adjustment, and optional Stabilizer

BISON VALVE BOX TWO-PIECE ASSEMBLY SELECTION

Build your Bison Valve Box Two-Piece assembly by selecting the adjustment type (screw or slide) and extension range. Additional bell options are shown on page 5, rim and lid options on page 6, and stabilizer options on page 7.

PART # SCREW-TYPE	PART # SLIDE-TYPE	EXTENSION RANGE (IN.)	TOP DIM. A (IN.)	BOTTOM DIM. B (IN.)
P05ZHC2228A1W	P05ZHS2228A1W	22 - 28	12¾	18
P05ZHC2738A1W	P05ZHS2738A1W	27 - 38	16¾	24
P05ZHC3648A1W	P05ZHS3648A1W	36 - 48	26¾	24
P05ZHC3950A1W	P05ZHS3950A1W	39 - 50	16¾	36
P05ZHC3960A1W	P05ZHS3960A1W	39 - 60	26¾	36
P05ZHC5172A1W	P05ZHS5172A1W	51 - 72	26¾	48



Detail drawing of the Bison 5¼" Valve Box Two-Piece assembly with standard P500 rim, screw-type adjustment, and standard 101 bottom bell

BISON 5¹/₄" VALVE BOX THREE-PIECE ASSEMBLY



Bison Valve Box Three-Piece assemblies are designed to fully enclose the valve while providing reliable access for operation and maintenance. Bison Valve Box Three-Piece assemblies include a Bison top section, a cast iron P500 rim, standard round cast iron lid with WATER lettering, a Bison middle (stem) section, and a Bison 107 bottom bell (equivalent to the cast iron #6 bell). Choose either screw- or slide-adjustment style. There are optional rim styles, lid types, and lettering to choose from. Additional bell styles are available to accommodate a variety of valve sizes.

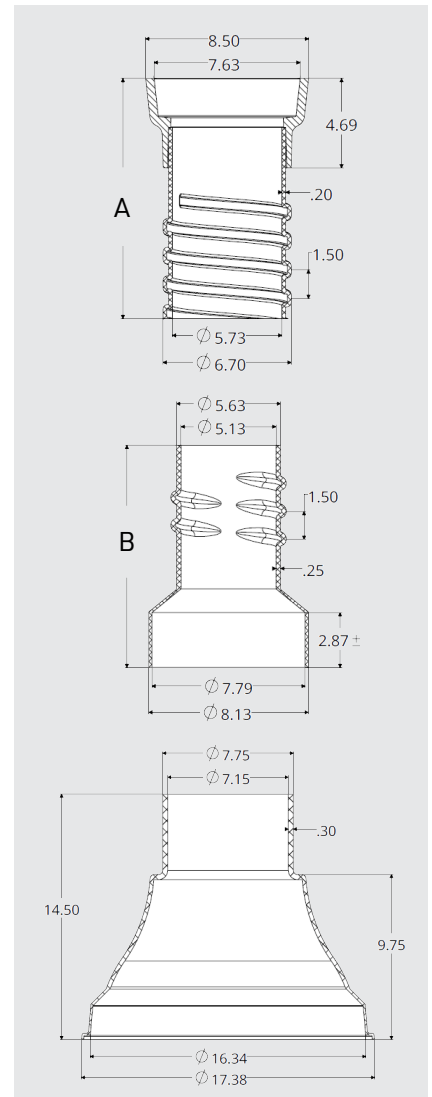
Bison Valve Box
Three-Piece assembly
detail drawing. The top
section fits over the
middle (stem) section,
which fits over the
bottom bell.

Bison Valve Box
Three-Piece assembly
with standard P500 rim,
107 bell, screw-type
adjustment, and optional
Stabilizer.

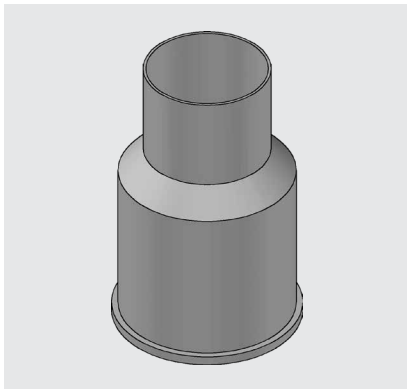
BISON THREE-PIECE VALVE BOX ASSEMBLY SELECTION

Build your Bison Valve Box Three-Piece assembly by selecting the adjustment type (screw or slide) and extension range. The chart below provides measurements for the top section, middle, and bell.

PART NUMBER SCREW-TYPE	PART NUMBER SLIDE-TYPE	EXTENSION RANGE (IN.)	TOP DIM. A (IN.)	BOTTOM DIM. B (IN.)	BELL HEIGHT (IN.)
P05ZHC3238A7W	P05ZHS3238A7W	33 - 38	16.7	24	9.75
P05ZHC3950A7W	P05ZHS3950A7W	39 - 50	16.7	36	9.75
P05ZHC4260A7W	P05ZHS4260A7W	42 - 60	26.7	36	9.75
P05ZHC4455A7W	P05ZHS4455A7W	44 - 55	16.7	42	9.75
P05ZHC4566A7W	P05ZHS4566A7W	45 - 66	26.7	42	9.75
P05ZHC5272A7W	P05ZHS5272A7W	52 - 72	26.7	24 + 30 Ext.	9.75

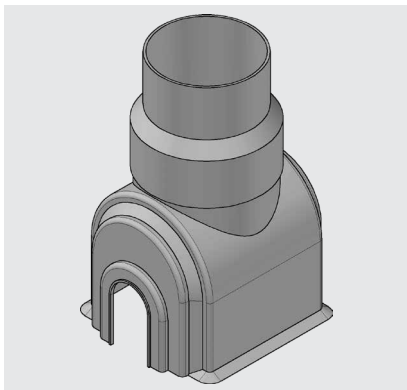


BISON 5 $\frac{1}{4}$ " VALVE BOX BELL OPTIONS



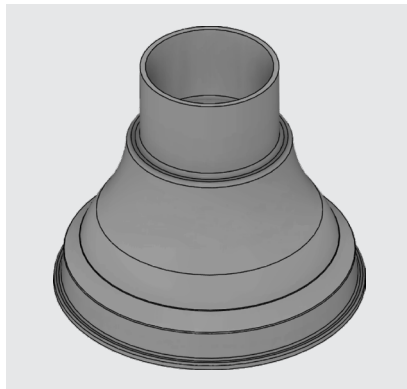
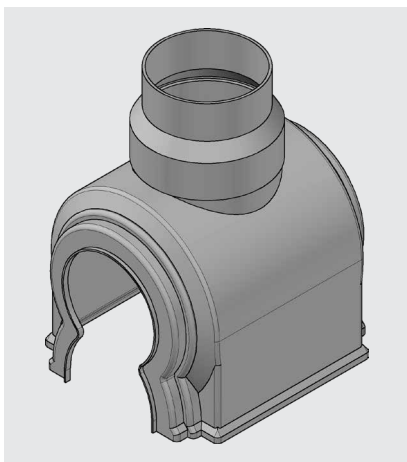
BISON 101 BELL

STANDARD ON TWO-PIECE ASSEMBLIES
FITS OVER THE BONNET ON VALVES UP
TO 10"; FITS BROEN $\frac{3}{4}$ " - 4" PLASTIC
VALVES



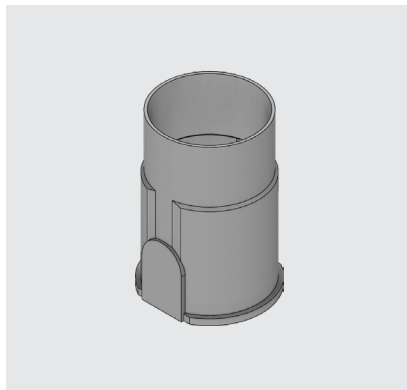
BISON 105 BELL

FITS 2", 4" & 6" REDUCED-PORT &
2" & 4" FULL-PORT PLASTIC VALVES
FITS BROEN 2" - 4" PLASTIC & $\frac{3}{4}$ " - 4"
STEEL VALVES



BISON 107 BELL

STANDARD ON THREE-PIECE ASSEMBLIES
FITS FULL-PORT 8" - 12" PLASTIC & STEEL
VALVES; FITS BROEN 6" - 8" PLASTIC
VALVES & 8" - 16" STEEL VALVES

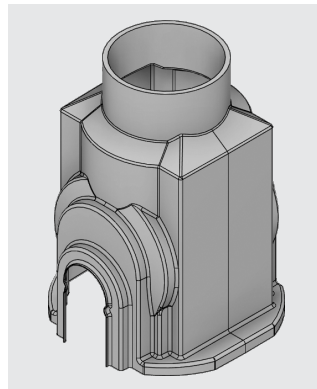


BISON 106 BELL

FITS 2" & 3" PLASTIC VALVES

BISON 108 BELL

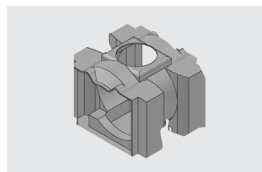
FITS 6" FULL-PORT PLASTIC VALVES,
8" FULL-PORT PLASTIC VALVES, &
BROEN 6" STEEL VALVES



BISON 104 BELL

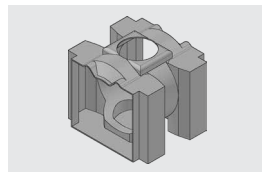
FITS $\frac{1}{2}$ " - 3" VALVES
VALVE SUPPORTS
STRONGLY
RECOMMENDED

BISON 104 BELL VALVE SUPPORTS



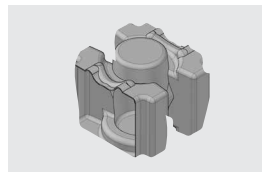
VL000

FOR LYALL 2" VALVES



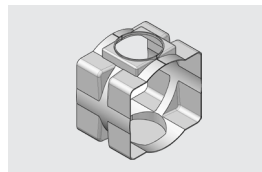
VN230

FOR KEROTEST & POLY
2" & 3" VALVES



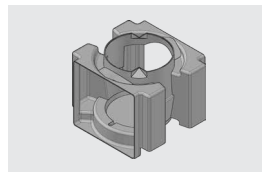
VPVS1

FOR PERFECTION
 $\frac{1}{2}$ " - 1 $\frac{1}{4}$ " VALVES



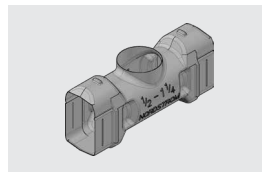
VPVS2

FOR POLY
4" REDUCED PORT VALVES



VPVS3

FOR PERFECTION 2" VALVES

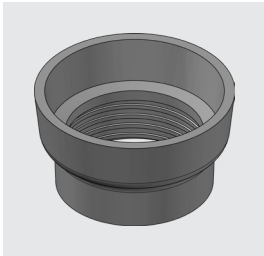


VTVS1

FOR KEROTEST & POLY
 $\frac{1}{2}$ " - 1 $\frac{1}{4}$ " BALL VALVES

BISON 5¼" VALVE BOX RIM STYLES

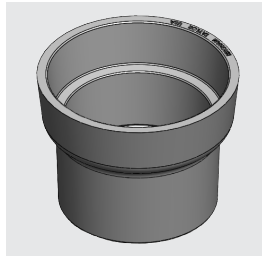
The P500 cast iron rim comes standard on both Bison Two-Piece and Three-Piece 5¼" Valve Boxes. There are two optional rim styles: the PI rim with full flange or the P500 extended rim.



CUL5R500R
P500 RIM WITH
NO FLANGE



CUL5API
PI RIM WITH
FULL FLANGE

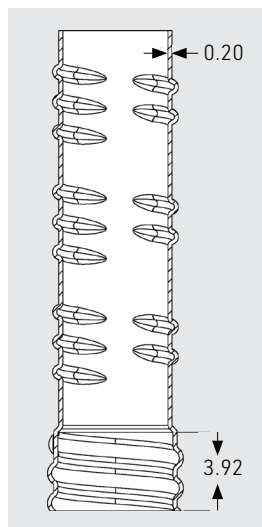


CUL5R500RT
P500 EXTENDED RIM
6.34" HIGH

BISON 5¼" VALVE BOX EXTENSIONS

For use with Bison Two-Piece and Three-Piece Valve Box assemblies, Extensions increase the overall height of the valve box to accommodate varying installation depths. Multiple Extensions can be stacked to achieve the desired height. Offered in screw- and slide-type adjustment.

PART NUMBER		OVERALL LENGTH (IN.)
SCREW-TYPE	SLIDE-TYPE	
P05EHC24	P05EHS24	24
P05EHC30	P05EHS30	30



P05EH
EXTENSION FOR BISON 5¼" VALVE BOXES; SCREW-TYPE ADJUSTMENT SHOWN

BISON 5¼" VALVE BOX CAST IRON LIDS

Bison 5¼" Valve Boxes come with a standard cast iron round lid with a 1½" skirt. Choose from the optional round lid with 2½" skirt or the universal locking lid.

- Lids come standard with WATER lettering but you can choose your own lettering, logo, or colors.
- Powder coating can significantly reduce the risk of corrosion, ensuring the longevity of the product, and is available in almost any choice of color.
- Optional heavy-duty lids provide increased protection against dangerous lid pop-outs caused by traffic vibration and roadway movement.

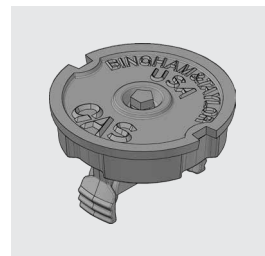
PART NUMBER	SKIRT SIZE (IN.)	WEIGHT (LB.)
CUL5L-RDB	1½	13.5
CUL5L-LSK	2½	14.5
I5LB-UL	-	16



CUL5L-RDB
STANDARD ROUND LID
WITH 1½" SKIRT



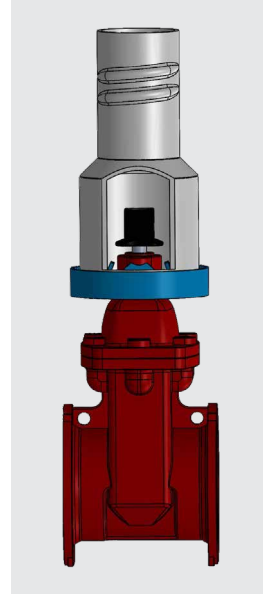
CUL5L-LSK
ROUND LID
WITH 2½" SKIRT



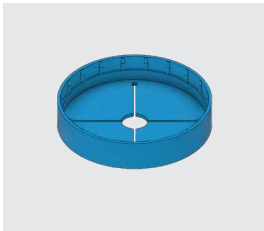
I5LB-UL
UNIVERSAL LOCKING LID

STABILIZERS FOR BISON 5¼" VALVE BOXES

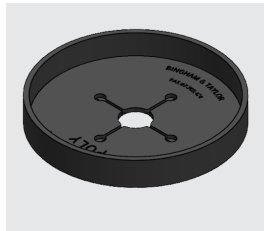
Designed for use with Bison Valve Box assemblies, Stabilizers help maintain proper alignment, minimize settling and shifting, reduce backfill intrusion, and protect the valve's epoxy coating. Available for a variety of valve and bell types, they enhance long-term performance and reliability. Multi-Fit Stabilizers provide added versatility and are available in a range of sizes to accommodate numerous valve types.



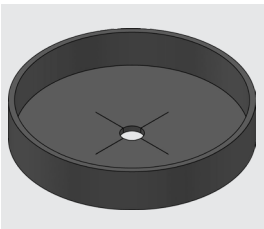
Stabilizer installed on a Bison Two-Piece Valve Box assembly. The Stabilizer fits over the valve with the valve box covering the operating nut and stuffing box.



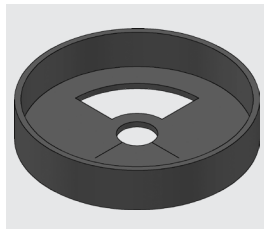
ADP90010
FOR BISON 101 & 106 BELLS



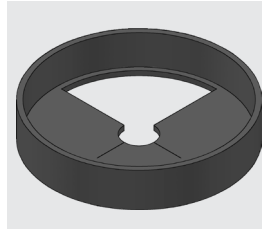
ADP4001006P
FOR BISON 107 BELL
FITS POLY VALVES



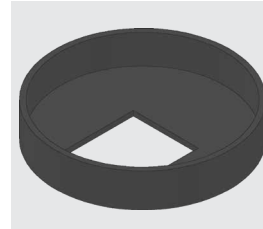
ADP5001006S
FOR BISON 107 BELL
FITS 8" - 16" BROEN
PLASTIC & STEEL VALVES
WITH STANDARD STEEL
OP NUT ONLY



ADP4001006PGB
FOR BISON 107 BELL
FITS 8" - 16" BROEN
GEARED VALVES



ADP4001006PGC
FOR BISON 107 BELL
FITS GEARED CAMERON
VALVES



ADP4001006PGK
FOR BISON 107 BELL
FITS WITH KEROTEST
GEARED VALVES

PART NUMBER	TYPE	INNER DIAMETER (IN.)	CENTER HOLE DIAMETER (IN.)	COMPATIBLE BELLS & VALVES
ADP90010	Multi-Fit	8.81	1.63	Bison 101 & 106 Bells
ADP4001006P	107 Bell	18.0	3.25	Bison 107 Bell with Poly Valve
ADP5001006S	107 Bell	18.0	2.00	Bison 107 Bell with BROEN plastic and steel valves with standard steel OP Nut only
ADP4001006PGB	107 Bell	18.0	3.25	Bison 107 Bell with Geared BROEN Valve
ADP4001006PGC	107 Bell	18.0	3.25	Bison 107 Bell with Geared Cameron Valve
ADP4001006PGK	107 Bell	17.8	N/A	Bison 107 Bell with Geared Kerotest Valve

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in the USA – supporting domestic jobs, reliable
supply chains, and federal compliance.**



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steadfast name, crafting the foundation of homes and buildings.
Our commitment to meeting the expectations of our customers,
associates, and owners is supported by our ironclad conviction of
making things right.**

We bring the wisdom of a 125-year legacy and the grit of a modern
powerhouse to projects, and now, our reputation extends beyond the
building to the core of our communities through our Infrastructure
Division. Our Bingham & Taylor product line is the most diverse in
the industry, providing reliable cast iron products made in the USA.

BINGHAM & TAYLOR

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