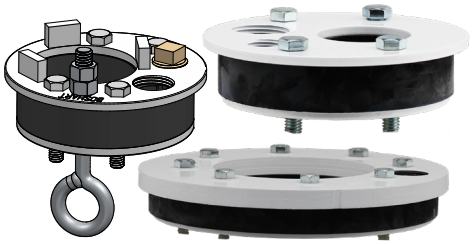
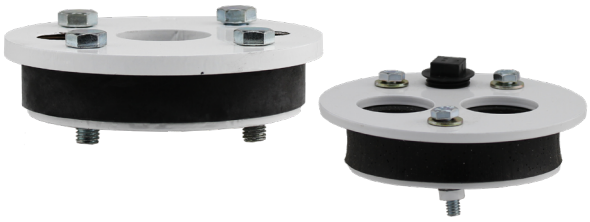
WELL SEALS

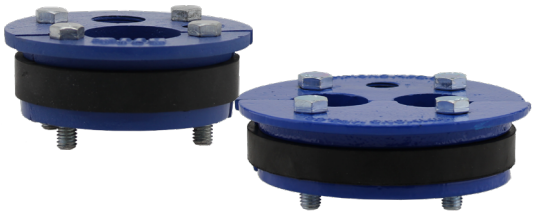
Product Booklet

Table of Contents



Steel Well Seals
WSS Series
Pages 2-8





Cast Iron Well Seals
WS Series
Pages 9-14





Plastic Well Seals
WSP Series
Pages 15-19





Replacement Parts
All Series
Pages 20-22



User Responsibility Statement: It is the user's sole responsibility to determine the product's suitability for its intended use. For full details, visit Boshart Industries Reference Documents for our User Safety Responsibility Statement and other important documents.

WSS SERIES - STEEL WELL SEALS

Boshart WSS Series Steel Well Seals provide a sanitary, watertight seal at the top of a well casing where the drop pipe and electrical cable enter the well, when properly installed. These well seals are available to accommodate a range of installation requirements in:

- single hole for submersible/shallow well jet pump
- heavy duty single hole for submersible pump applications
- double hole for jet pump applications

Manufactured from durable steel, WSS series well seals are designed for strength, rigidity, and dependable long-term performance in demanding water well applications. Their robust design provides reliable sealing performance for residential, agricultural and commercial applications.

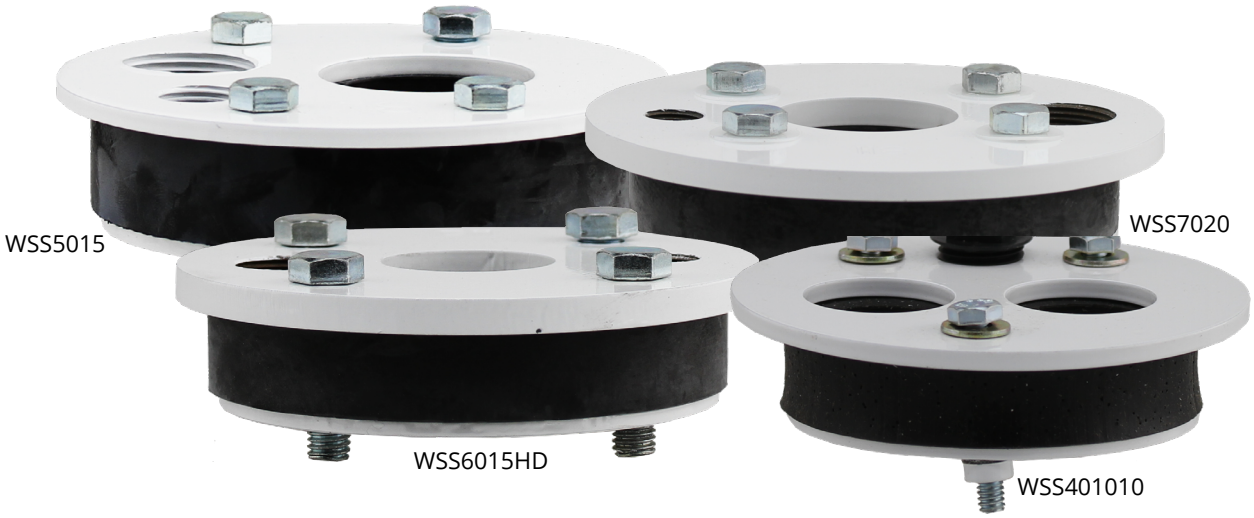
These well seals are suitable for installations of submersible pumps up to and including depths of 600 feet when used with Schedule 80 PVC drop pipe and 400 feet on Schedule 40 steel pipe. A compression style rubber gasket expands when the bolts are tightened during installation to form a tight seal, to prevent surface water, debris, and contaminants from entering the water well.

FEATURES:

- Unique gland design allows for wide range of casing sizes
- Half thread bolts provide smooth sealing surface and ensures watertight seal
- Extra thick rubber gland for positive sealing
- Eye-bolt option is available by adding -EB to the end of the part number (not available in all sizes)
- Grommet kit is not included
- Offset drop pipe allows for large conduit connection

SPECIFICATIONS:

- A36 hot rolled steel plates
- White powder coated steel plates for durable finish
- Zinc plated bolts and Eye bolt
- Rubber gland material: Styrene - Butadiene Rubber (SBR)
- Bolt ends are peened to prevent accidental disassembly when loosening the seal for removal



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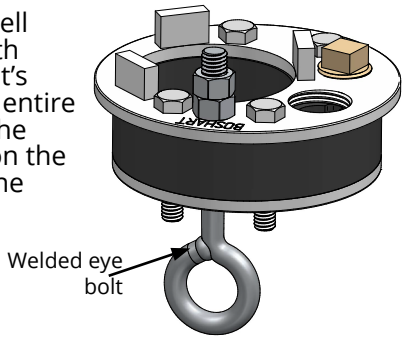
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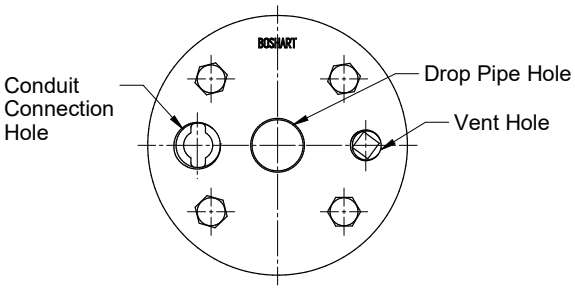
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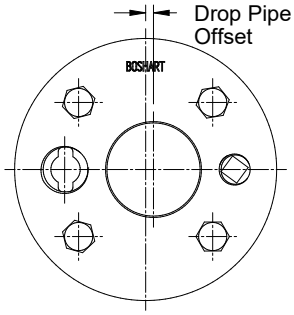
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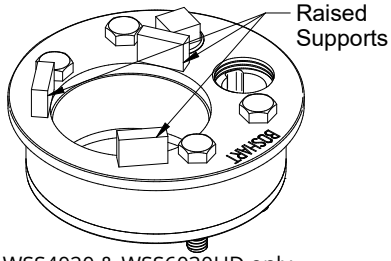


CAUTION: Eye bolt well seals are supplied with a welded eye bolt that's installed through the entire well seal to support the weight of the pump on the upper thick plate in the event of pipe failure.

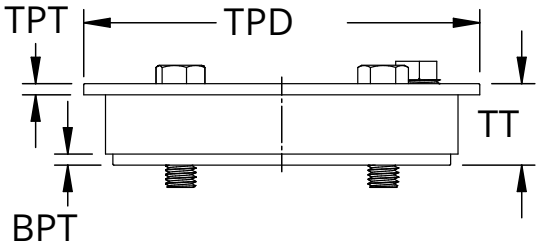


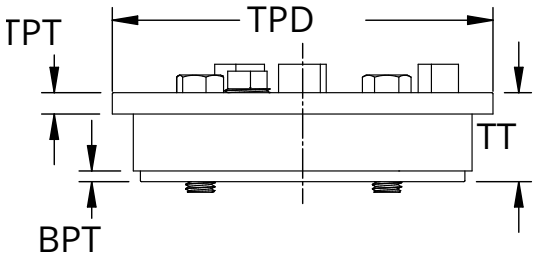






WSS4020 & WSS6030HD only
(Double hole not pictured here)





Single Hole Well Seals

Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter (inch)		Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
			Nominal	O.D.								
3-1/2" WSS Series												
WSS3510	3-1/2"	3.51	1"	1.32	0.93"	1/2"	1/2"	0.50	0.19	1.42	4.06	5/16"-18 UNC x 2"
4" WSS Series												
WSS4010	4" to 4-1/4"	3.95	1"	1.32	0.28"	3/4"	1/2"	0.19	0.19	1.38	4.50	5/16"-18 UNC x 1-3/4"
WSS4012	4" to 4-1/4"	3.95	1-1/4"	1.66	0.28"	3/4"	1/2"	0.19	0.19	1.38	4.50	
WSS4015	4" to 4-1/4"	3.95	1-1/2"	1.90	0.54"	3/4"	1/2"	0.19	0.19	1.38	4.50	
WSS4020*	4" to 4-1/4"	3.95	2"	2.38	0.54"	3/4"	1/2"	0.19	0.19	1.38	4.50	

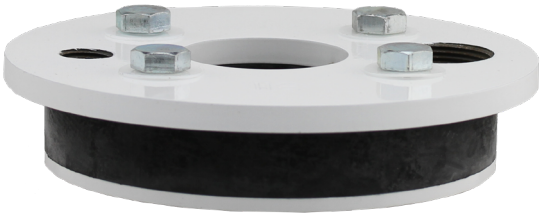
*WSS4020 has raised supports, making it possible to incorporate a 3/4" cable hole

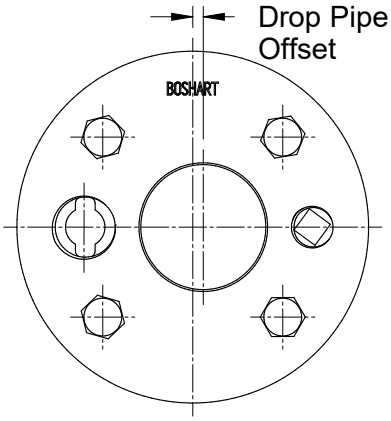
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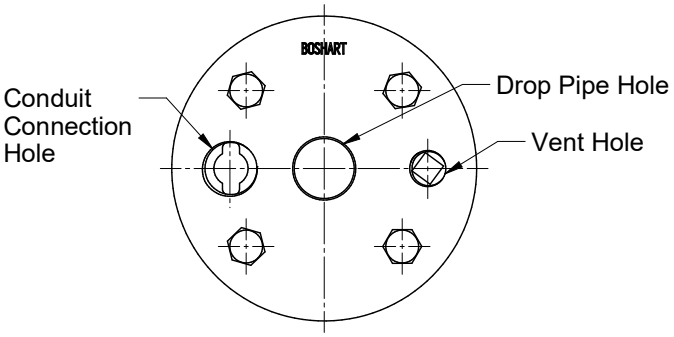
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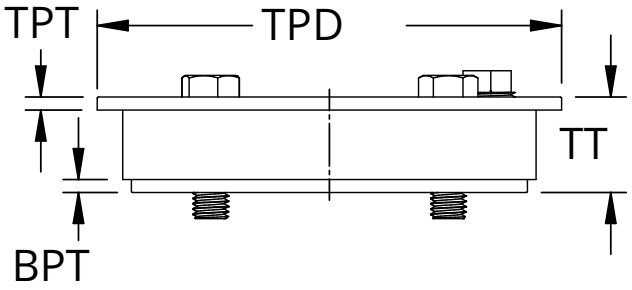
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Single Hole Well Seals

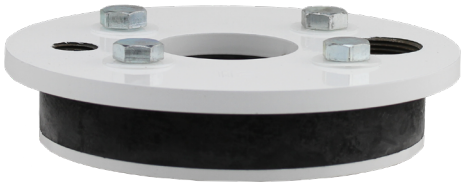
Part No.	Well Casing I.D.	Gasket O.D. (inch)	Drop Pipe Diameter (inch)		Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
			Nominal	O.D.								
4-1/2" WSS Series												
WSS4510	4-1/4" to 4-1/2"	4.20	1"	1.32	0.25"	3/4"	1/2"	0.19	0.19	1.38	5.00	5/16"-18 UNC x 1-3/4"
WSS4512	4-1/4" to 4-1/2"	4.20	1-1/4"	1.66	0.25"	3/4"	1/2"	0.19	0.19	1.38	5.00	
WSS4515	4-1/4" to 4-1/2"	4.20	1-1/2"	1.90	0.44"	3/4"	1/2"	0.19	0.19	1.38	5.00	
WSS4520	4-1/4" to 4-1/2"	4.20	2"	2.38	0.44"	1/2"	1/2"	0.19	0.19	1.38	5.00	
5" WSS Series												
WSS5010	5" to 5-1/4"	4.95	1"	1.32	0.16"	1"	1/2"	0.19	0.19	1.38	5.58	3/8"-16 UNC x 1-3/4"
WSS5012	5" to 5-1/4"	4.95	1-1/4"	1.66	0.16"	1"	1/2"	0.19	0.19	1.38	5.58	
WSS5015	5" to 5-1/4"	4.95	1-1/2"	1.90	0.58"	1"	1/2"	0.19	0.19	1.38	5.58	
WSS5020	5" to 5-1/4"	4.95	2"	2.38	0.58"	1"	1/2"	0.19	0.19	1.38	5.58	
6" WSS Series												
WSS6010	6" to 6-1/4"	5.95	1"	1.32	N/A	1"	1/2"	0.19	0.19	1.38	6.69	1/2"-13 UNC x 1-3/4"
WSS6012	6" to 6-1/4"	5.95	1-1/4"	1.66	N/A	1"	1/2"	0.19	0.19	1.38	6.69	
WSS6015	6" to 6-1/4"	5.95	1-1/2"	1.90	N/A	1"	1/2"	0.19	0.19	1.38	6.69	
WSS6020	6" to 6-1/4"	5.95	2"	2.38	0.20"	1"	1/2"	0.19	0.19	1.38	6.69	

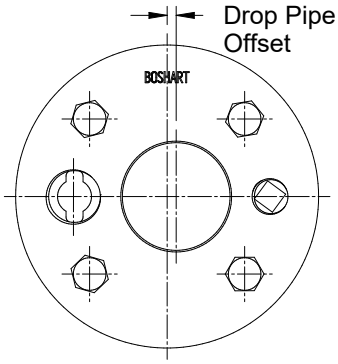
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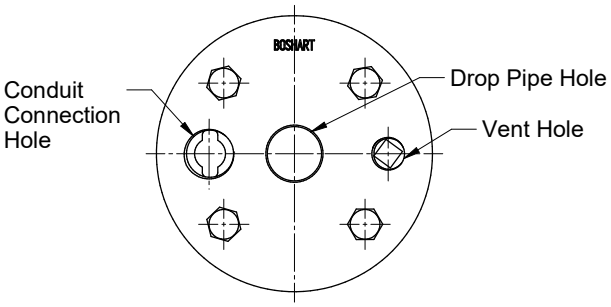
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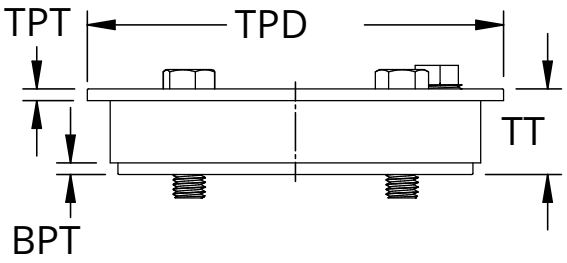
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Single Hole Well Seals

Part No.	Well Casing I.D.	Gasket O.D. (inch)	Drop Pipe Size		Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
			Nominal	O.D.								
6-1/4" WSS Series												
WSS6210	6-1/4"	6.20	1"	1.32	N/A	1"	1/2"	0.19	0.19	1.38	6.69	1/2"-13 UNC x 1-3/4"
WSS6212	6-1/4"	6.20	1-1/4"	1.66	N/A	1"	1/2"	0.19	0.19	1.38	6.69	
WSS6215	6-1/4"	6.20	1-1/2"	1.90	N/A	1"	1/2"	0.19	0.19	1.38	6.69	
WSS6220	6-1/4"	6.20	2"	2.38	0.20"	1"	1/2"	0.19	0.19	1.38	6.69	
7" WSS Series												
WSS7010	7"	6.59	1"	1.32	0.13"	1-1/4"	1/2"	0.38	0.19	1.56	7.75	1/2"-13 UNC x 2"
WSS7012	7"	6.59	1-1/4"	1.66	0.13"	1-1/4"	1/2"	0.38	0.19	1.56	7.75	
WSS7015	7"	6.59	1-1/2"	1.90	0.13"	1-1/4"	1/2"	0.38	0.19	1.56	7.75	
WSS7020	7"	6.59	2"	2.38	0.13"	1-1/4"	1/2"	0.38	0.19	1.56	7.75	
WSS7030	7"	6.59	3"	3.50	0.61"	1-1/4"	1/2"	0.38	0.19	1.56	7.75	
8" WSS Series												
WSS8010	8" to 8-1/4"	7.95	1"	1.32	N/A	1-1/4"	1/2"	0.38	0.19	1.56	8.69	1/2"-13 UNC x 2"
WSS8012	8" to 8-1/4"	7.95	1-1/4"	1.66	N/A	1-1/4"	1/2"	0.38	0.19	1.56	8.69	
WSS8015	8" to 8-1/4"	7.95	1-1/2"	1.90	N/A	1-1/4"	1/2"	0.38	0.19	1.56	8.69	
WSS8020	8" to 8-1/4"	7.95	2"	2.38	N/A	1-1/4"	1/2"	0.38	0.19	1.56	8.69	
WSS8025	8" to 8-1/4"	7.95	2-1/2"	2.88	N/A	1-1/4"	1/2"	0.38	0.19	1.56	8.69	
WSS8030	8" to 8-1/4"	7.95	3"	3.50	N/A	1-1/4"	1/2"	0.50	0.19	1.69	8.69	
WSS8040	8" to 8-1/4"	7.95	4"	4.50	0.48"	1-1/4"	1/2"	0.63	0.19	1.81	8.69	1/2"-13 UNC x 2-1/4"

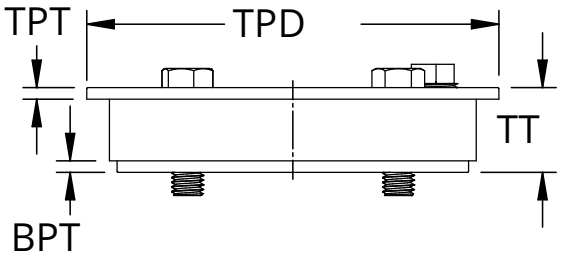
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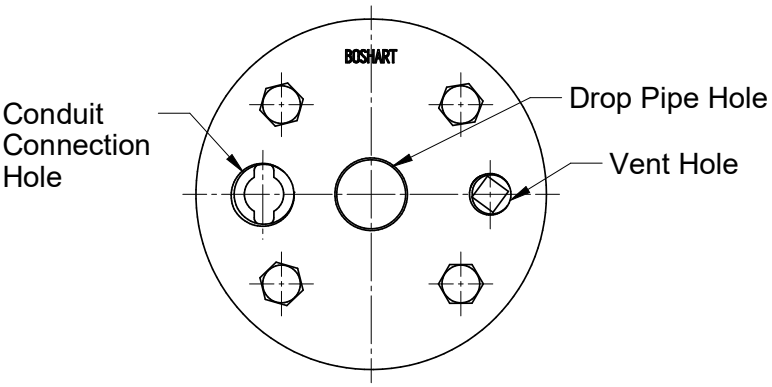
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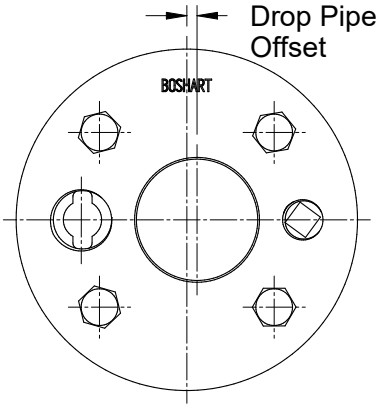
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Single Hole Well Seals

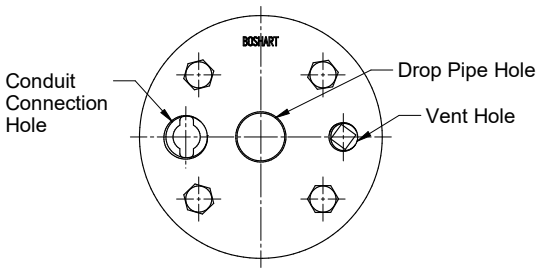
Part No.	Well Casing I.D.	Gasket O.D. (inch)	Drop Pipe Diameter (inch)		Drop Pipe Offset	FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
			Nominal	O.D.								
10" WSS Series												
WSS10010	10"	9.95	1"	1.32	N/A	1-1/4"	1/2"	0.38	0.19	1.56	10.75	1/2"-13 UNC x 2-1/4"
WSS10012	10"	9.95	1-1/4"	1.66	N/A	1-1/4"	1/2"	0.38	0.19	1.56	10.75	
WSS10015	10"	9.95	1-1/2"	1.90	N/A	1-1/4"	1/2"	0.38	0.19	1.56	10.75	
WSS10020	10"	9.95	2"	2.38	N/A	1-1/4"	1/2"	0.38	0.19	1.56	10.75	
WSS10025	10"	9.95	2-1/2"	2.88	N/A	1-1/4"	1/2"	0.50	0.14	1.64	10.75	
WSS10030	10"	9.95	3"	3.60	N/A	1-1/4"	1/2"	0.63	0.19	1.81	10.75	
WSS10040	10"	9.95	4"	4.50	N/A	1-1/4"	1/2"	0.63	0.19	1.81	10.75	
WSS10050	10"	9.95	5"	5.56	0.30"	1"	1/2"	0.75	0.19	1.94	10.75	
WSS10060	10"	9.95	6"	6.63	0.30"	1"	1/2"	0.75	0.19	1.94	10.75	
12" WSS Series												
WSS12012	12"	11.95	1-1/4"	1.66	N/A	1-1/4"	1/2"	0.38	0.19	1.56	12.75	1/2"-13 UNC x 2"
WSS12015	12"	11.95	1-1/2"	1.90	N/A	1-1/4"	1/2"	0.38	0.19	1.56	12.75	
WSS12020	12"	11.95	2"	2.38	N/A	1-1/4"	1/2"	0.50	0.19	1.69	12.75	
WSS12030	12"	11.95	3"	3.50	N/A	1-1/4"	1/2"	0.63	0.19	1.81	12.75	1/2"-13 UNC x 2-1/4"
WSS12040	12"	11.95	4"	4.50	N/A	1-1/4"	1/2"	0.63	0.19	1.81	12.75	
WSS12050	12"	11.95	5"	5.56	N/A	1-1/4"	1/2"	0.75	0.19	1.94	12.75	
WSS12060	12"	11.95	6"	6.63	N/A	1-1/4"	1/2"	0.75	0.19	1.94	12.75	

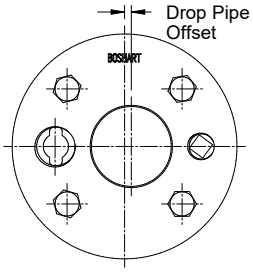
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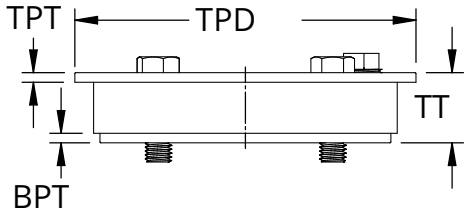
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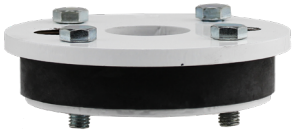
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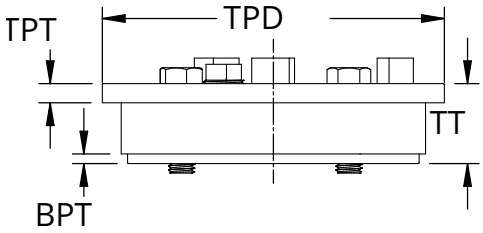
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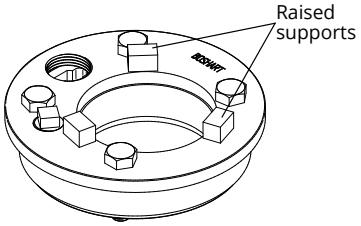










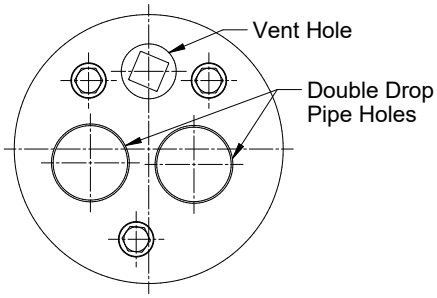


WSS4020 & WSS6030HD only
(Double hole not pictured here)

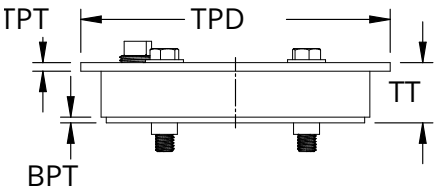
Heavy Duty, Single Hole Well Seals

Part No.	Well Casing I.D.	Gasket O.D. (inch)	Drop Pipe Size		Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (in)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
			Nominal	O.D.								
WSS6010HD	6" to 6-1/4"	5.95	1"	1.32	N/A	1"	1/2"	0.38	0.19	1.56	6.69	1/2"-13 UNC x 1-3/4"
WSS6012HD	6" to 6-1/4"	5.95	1-1/4"	1.66	N/A	1"	1/2"	0.38	0.19	1.56	6.69	
WSS6015HD	6" to 6-1/4"	5.95	1-1/2"	1.90	N/A	1"	1/2"	0.38	0.19	1.56	6.69	
WSS6020HD	6" to 6-1/4"	5.95	2"	2.38	0.20"	1"	1/2"	0.38	0.19	1.56	6.69	
WSS6030HD*	6" to 6-1/4"	5.95	3"	3.50	0.42"	1"	1/2"	0.38	0.19	1.56	6.69	

*WSS6030HD has raised supports, making it possible to incorporate a 1" cable hole







Double Holes Well Seals

Part No.	Well Casing I.D.	Gasket O.D. (inch)	Drop Pipe Size		FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
			Nominal	O.D.							
WSS351210	3-1/2"	3.51	1-1/4" x 1"	1.66 x 1.32	N/A	1/2"	0.50	0.19	1.42	4.06	5/16"-18 UNC x 2"
WSS401010	4"	3.75	1" x 1"	1.32 x 1.32	N/A	1/2"	0.19	0.12	1.12	4.75	1/4"-20 UNC x 1-3/4"
WSS601512*	6"	5.85	1-1/2" x 1-1/4"	1.90 x 1.66	N/A	1/2"	0.19	0.13	1.31	6.74	3/8"-16 UNC x 2"
WSS621512	6-1/4"	5.85	1-1/2" x 1-1/4"	1.90 x 1.66	N/A	1/2"	0.19	0.15	1.33	6.75	3/8"-16 UNC x 2-1/4"

*WSS601512 has Blue powder coated steel plate finish

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Installation Instructions

1. Ensure the well casing is cut off level and that the inside of the well casing is clean and free of debris (approx. 3" down from top edge)

2. Loosen the compression bolts to ensure they are not applying any compression to the rubber gasket

3. Insert the last section of drop pipe through the well seal, against the drop pipe coupling

4. Insert the pump cable through the wire hole

5. As you lower the drop pipe, insert the well seal into the top of the casing until the top plate rests directly on the well casing

6. Align any cable or pipe openings as required for the installation

7. Evenly tighten all the compression bolts until they are snug

8. Further tighten bolts in a crisscross/star pattern to apply even pressure

- First Round: 3 ft.lb
- Second Round: 6 ft-lb
- Third Round: 9 ft-lb
- Final Round: 10-12 ft-lb

CAUTION: Never tighten one bolt to full torque at a time. Doing so can cause uneven compression and result in damage to the top and bottom plates.

9. Install the grommet kit using the slotted rubber gasket for flat jacketed pump cable and the rounded for twisted cable as shown (FIG 2.). With grommet kit installed, fill gap between the pump cable and grommet bushing with silicone to ensure a water tight seal (this is extremely important when using twisted pump cable as the grommet gasket cannot seal the gaps between the separate wires)

FIG. 1

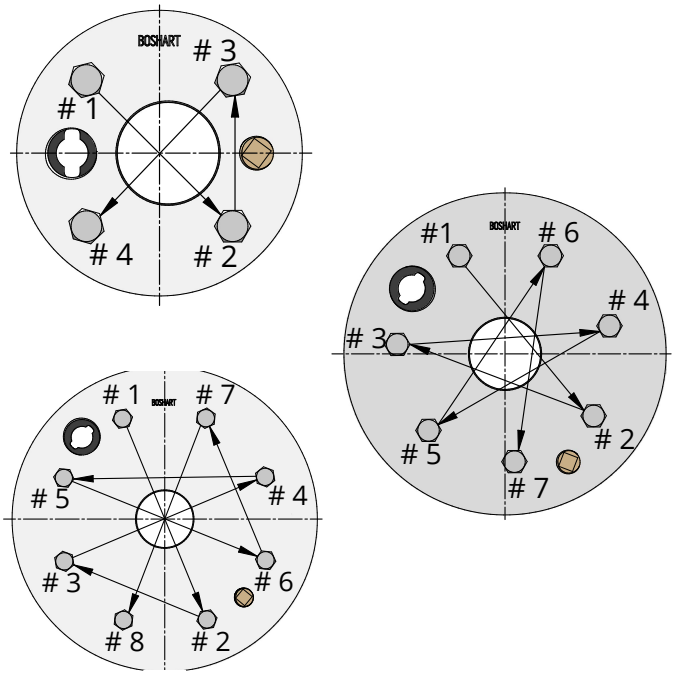
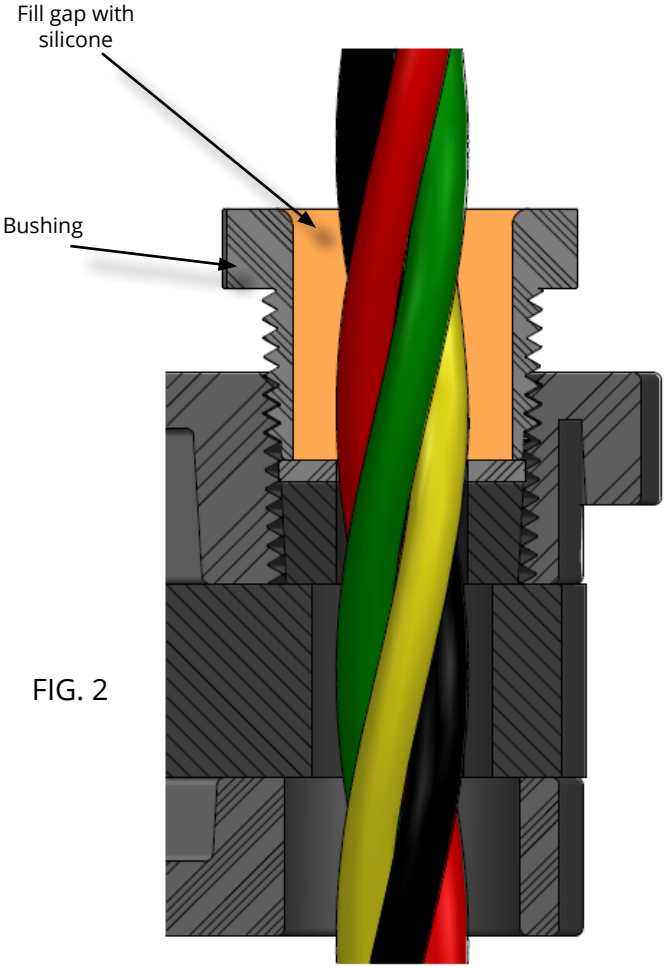


FIG. 2



Well Seal Removal

WARNING: Never loosen bolts off so far as to disengage the nuts, as it will result in the nuts and bottom plate falling down the well and possibly getting wedged, making it difficult to pull the pump for replacement.

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WS SERIES - CAST IRON WELL SEALS

Boshart WS Series Cast Iron Well Seals provide a sanitary, watertight seal at the top of a well casing where the drop pipe and electrical cable enter the well, when properly installed. These well seals are available to accommodate a range of installation requirements in:

- single hole forsubmersible/shallow well jet pump
- double hole for deep well jet pump
- blank configurations for sealing a well head

Cast iron well seals offer excellent durability, manufactured from high-strength, corrosion-resistant materials, for long-term performance. Their construction allows for easier handling and installation while maintaining reliable sealing performance in residential, agricultural, and light commercial water well applications.

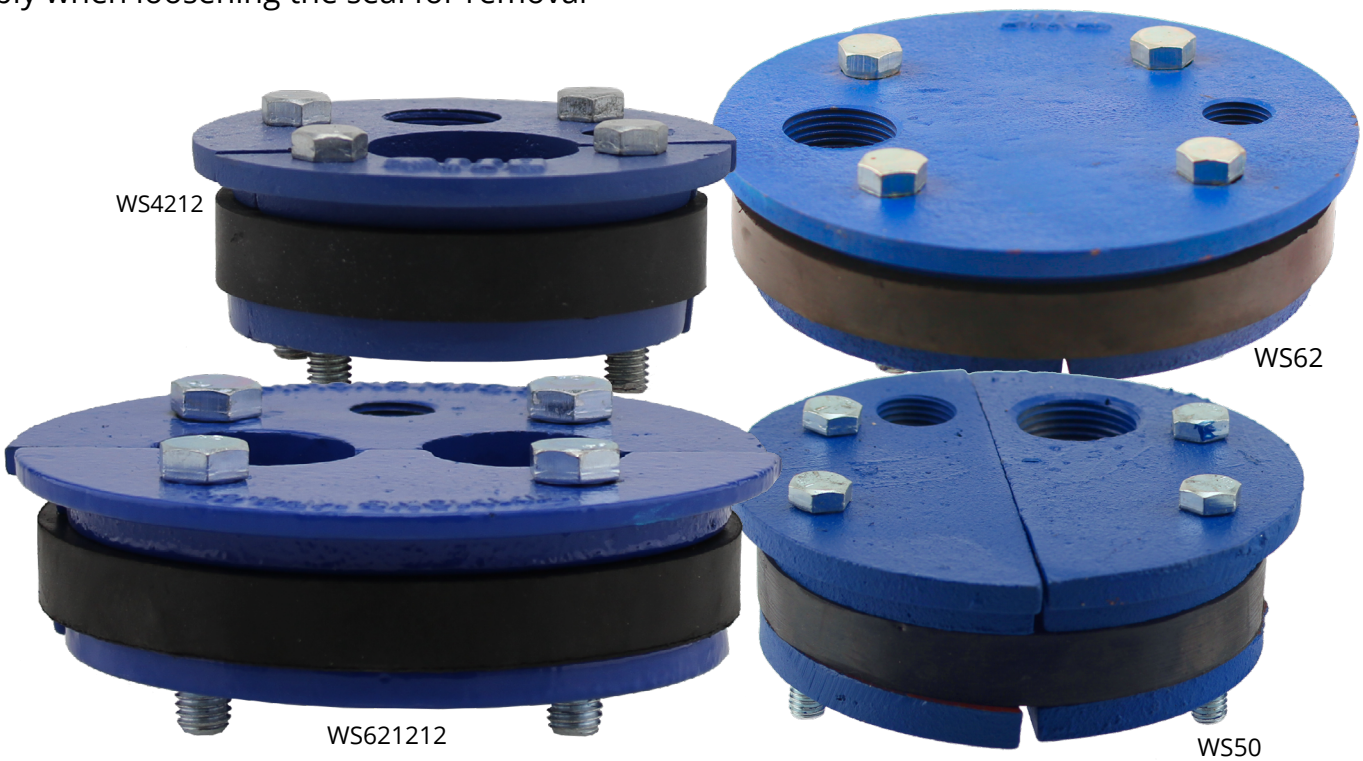
These well seals are suitable for installations of submersible pumps up to and including depths of 600 feet when used with Schedule 80 PVC drop pipe and 400 feet on Schedule 40 steel pipe. A compression style rubber gasket expands when the bolts are tightened during installation to form a tight seal and to prevent surface water, debris, and contaminants from entering the water well.

SPECIFICATION:

- Cast Iron top and bottom plates
- Zinc plated bolts and flanged nuts
- Grommet kit is included with all well seals, except for the clamp on's
- Bolt ends are peened to prevent accidental disassembly when loosening the seal for removal



WS2010



WS4212

WS62

WS621212

WS50

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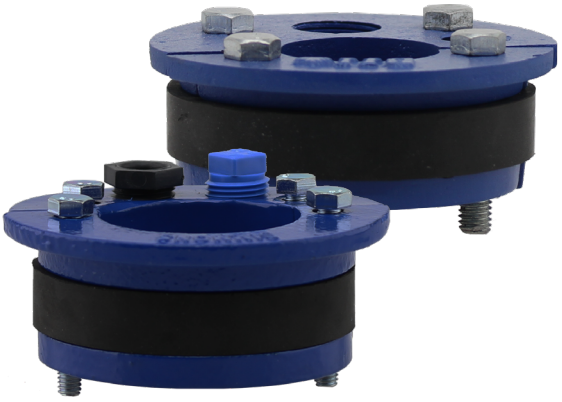
SINGLE HOLE:

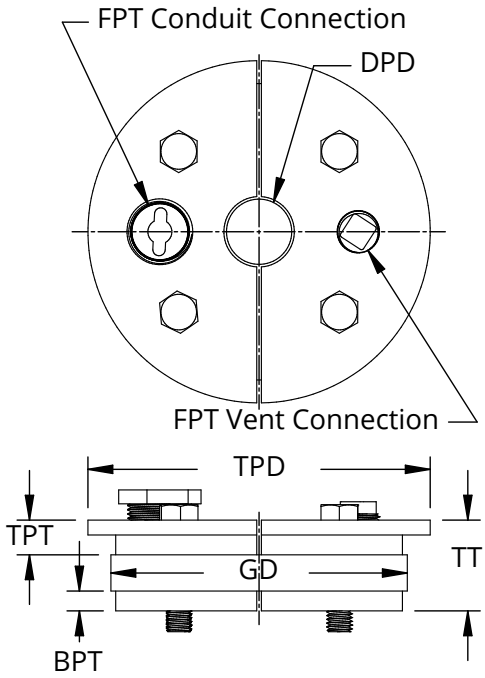
APPLICATIONS:

- Generally used for installing either a shallow well jet pump or a submersible pump
- Two tapping included on this style of well seal - one is vent tapping and one is a cable hole tapping

FEATURES:

- 5/16” - 18NC x 2-1/2” Zinc Plated Hex Bolts
- 3/4” 45 Durometer Molded Rubber
- Blue Class 25 Non-Toxic Lead Free Paint
- Grommet Kit included





DIMENSIONS												
Boshart Part No.	Simmons Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter (inch)		FPT Cable Hole Tapping	FPT Vent Tapping	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
				Nominal	O.D.							
3” WS Series												
*WS3010	108	3”	3.00	1”	1.32	3/8”	1/8”	0.63	0.53	1.84	3.56	3/8”-16 UNC x 2-1/4”
*WS3012	109	3”	3.00	1-1/4”	1.63	•5/16”	1/8”	0.63	0.53	1.84	3.56	
•Drilled hole - no thread												
4” WS Series												
*WS4010	111	4”	3.95	1”	1.27	3/4”	1/2”	0.68	0.40	1.81	4.63	
*WS4012	112	4”	3.95	1-1/4”	1.63	3/4”	1/2”	0.68	0.40	1.81	4.75	3/8”-16 UNC x 2-1/4”
*WS4015	113	4”	3.95	1-1/2”	1.90	3/4”	1/2”	0.52	0.40	1.65	4.75	
*WS4020	114	4”	3.95	2”	2.38	1/2”	1/2”	0.68	0.40	1.81	4.75	5/16”-18 UNC x 2-1/4”
4-1/4” WS Series												
*WS4210	116	4-1/4”	4.22	1”	1.32	3/4”	1/2”	0.68	0.40	1.81	4.63	3/8”-16 UNC x 2-1/4”
*WS4212	117	4-1/4”	4.22	1-1/4”	1.63	3/4”	1/2”	0.68	0.40	1.81	4.75	
4-1/2” WS Series												
*WS4510	165	4-1/2”	4.53	1”	1.32	1/2”	1/2”	0.68	0.40	1.81	4.92	3/8”-16 UNC x 2-1/4”
*WS4512	166	4-1/2”	4.53	1-1/4”	1.63	1/2”	1/2”	0.68	0.40	1.81	4.92	

NOTE: Simmons part number is what will appear on packaging.

* Split plate well seal

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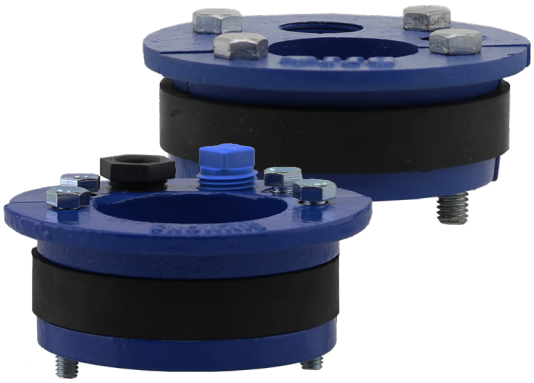
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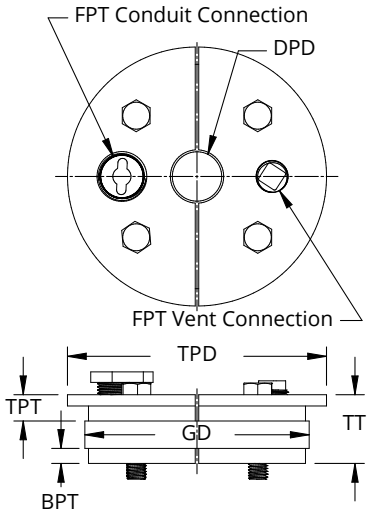
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SINGLE HOLE CONTINUED:





DIMENSIONS												
Boshart Part No.	Simmons Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter (inch)		FPT Cable Hole Tapping	FPT Vent Tapping	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
				Nominal	O.D.							
5" WS Series												
*WS5010	121	5"	5.02	1"	1.32	1/2"	1/2"	0.70	0.40	1.83	5.63	3/8"-16 UNC x 2-1/4"
*WS5012	122	5"	5.02	1-1/4"	1.63	1/2"	1/2"	0.70	0.40	1.83	5.63	
*WS5015	123	5"	5.02	1-1/2"	1.98	1/2"	1/2"	0.70	0.40	1.83	5.63	
*WS5020	124	5"	5.02	2"	2.38	1/2"	1/2"	0.70	0.40	1.83	5.63	
5-1/2" WS Series												
*WS5510	131	5-5/8"	5.64	1"	1.32	1/2"	1/2"	0.70	0.40	1.83	6.20	3/8"-16 UNC x 2-1/4"
*WS5512	132	5-5/8"	5.64	1-1/4"	1.63	1/2"	1/2"	0.70	0.40	1.83	6.20	
6" WS Series												
*WS6010	136	6"	5.98	1"	1.32	1/2"	1/2"	0.70	0.40	1.83	6.90	1/2"-13 UNC x 2-1/4"
*WS6012	137	6"	5.98	1-1/4"	1.63	1/2"	1/2"	0.70	0.40	1.83	6.90	
*WS6015	138	6"	5.98	1-1/2"	1.98	1/2"	1/2"	0.70	0.40	1.83	6.90	
*WS6020	139	6"	5.98	2"	2.38	1/2"	1/2"	0.70	0.40	1.83	6.90	
WS6030	021	6"	5.98	3"	3.50	1"	1/2"	0.70	0.40	1.83	6.73	3/8"-16 UNC x 2-1/4"
6-1/4" WS Series												
*WS6210	141	6-1/4"	6.25	1"	1.32	1/2"	1/2"	0.70	0.40	1.83	6.90	1/2"-13 UNC x 2-1/4"
*WS6212	142	6-1/4"	6.25	1-1/4"	1.63	1/2"	1/2"	0.70	0.40	1.83	6.90	
*WS6215	143	6-1/4"	6.25	1-1/2"	1.98	1/2"	1/2"	0.70	0.40	1.83	6.90	
*WS6220	144	6-1/4"	6.25	2"	2.38	1/2"	1/2"	0.70	0.40	1.83	6.90	
8" WS Series												
*WS8010	196	8"	7.98	1"	1.32	1/2"	1/2"	0.70	0.53	1.96	8.50	1/2"-13 UNC x 2-1/4"
*WS8012	197	8"	7.98	1-1/4"	1.63	1/2"	1/2"	0.70	0.53	1.96	8.50	
*WS8015	198	8"	7.98	1-1/2"	1.98	1/2"	1/2"	0.70	0.53	1.96	8.50	1/2"-13 UNC x 3"
*WS8020	199	8"	7.98	2"	2.38	1/2"	1/2"	0.70	0.53	1.96	8.50	1/2"-13 UNC x 2-1/4"
*WS8030	041	8"	7.98	3"	3.50	1/2"	1/2"	0.70	0.53	1.96	8.50	
*WS8040	042	8"	7.98	4"	4.50	1/2"	1/2"	0.70	0.53	1.96	8.50	

NOTE: Simmons part number is what will appear on packaging.

* Split plate well seal

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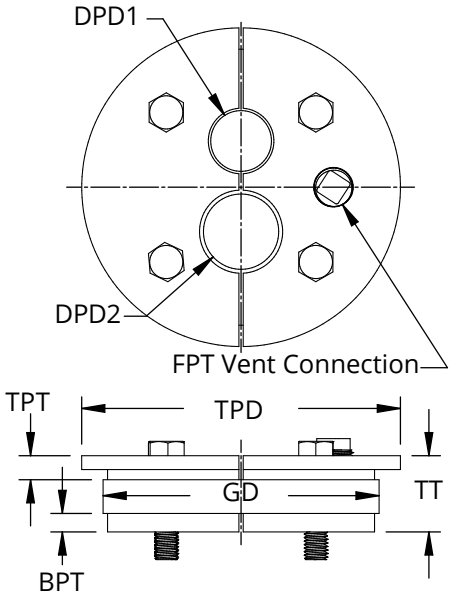
DOUBLE HOLE:

APPLICATIONS:

- Designed to allow two pipes to go down the well for a deep well jet pump installation
- Large hole is for the larger drop pipe that takes the water to the surface and the other hole is for the smaller drop pipe that sends a smaller voulme of water down the well
- One vent tapping only

FEATURES:

- 5/16" - 18NC x 2-1/2" Zinc Plated Hex Bolts
- 3/4" 45 Durometer Molded Rubber
- Blue Class 25 Non-Toxic, Lead Free Powder Coated
- 1/8" MPT Air Vent with Plastic Plug
- Grommet Kit included





DIMENSIONS											
Boshart Part No.	Simmons Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter (inch)		FPT Vent Tapping	Top Plate Thickness (TPT)	Bottom Plate Thickness (BPT)	Total Thickness (TT)	Top Plate Diameter (TPD)	Bolt Size
				Nominal	O.D.						
*WS401210	152	4"	3.95	1-1/4" x 1"	1.32 x 1.63	1/2"	0.68	0.40	1.81	4.63	3/8"-16 UNC x 2-1/4"
*WS401212	153	4"	3.95	1-1/4" x 1-1/4"	1.63 x 1.63	1/2"	0.68	0.40	1.81	4.63	
*WS421210	156	4-1/4"	4.22	1-1/4" x 1"	1.63 x 1.32	1/2"	0.68	0.40	1.81	4.63	
*WS501210	161	5"	5.02	1-1/4" x 1"	1.63 x 1.32	1/2"	0.70	0.40	1.83	5.63	
*WS601210	177	6"	5.98	1-1/4" x 1"	1.63 x 1.32	1/2"	0.52	0.40	1.65	6.90	1/2"-13 UNC x 2-1/4"
*WS601212	178	6"	5.98	1-1/4" x 1-1/4"	1.63 x 1.63	1/2"	0.66	0.40	1.79	6.90	
*WS621210	183	6-1/4"	6.25	1-1/4" x 1"	1.63 x 1.32	1/2"	0.52	0.40	1.65	6.90	
*WS621212	184	6-1/4"	6.25	1-1/4" x 1-1/4"	1.63 x 1.63	1/2"	0.66	0.40	1.79	6.90	

NOTE: Simmons part number is what will appear on packaging.

* Split plate well seal

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APPLICATIONS:

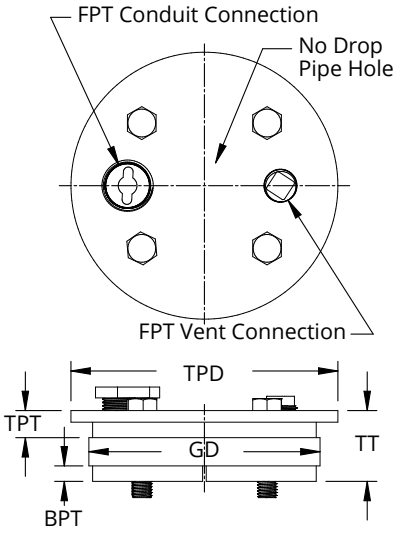
- Used for capping a well, or can also be used as a well cap if the submersible pump is on a pitless (this application is very uncommon).

FEATURES:

- 5/16” - 18NC x 2-1/2” Zinc Plated Hex Bolts.
- 3/4” 50 Durometer Molded Rubber
- Blue Class 25 Non-Toxic Lead Free Paint
- Grommet Kit included

NOTE: WS50 is made of steel and has a weight holding capacity of 1500 Lbs.





DIMENSIONS										
Boshart Part No.	Simmons Part No.	Well Casing I.D.	Gasket O.D. (inch)	FPT Cable Hole Tapping	FPT Vent Tapping	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
WS40	301B	4”	3.95	N/A	N/A	0.68	0.40	1.81	4.63	3/8”-16 UNC x 2-1/4”
WS50	3582A	5”	5.00	1”	1/2”	0.19	0.19	1.12	5.60	3/8”-16 UNC x 1-3/4”
WS60	313A	6”	5.98	BLANK	1/2”	0.70	0.40	1.83	6.90	1/2”-13 UNC x 2-1/4”
WS62	318B	6-1/4”	6.25	BLANK	1/2”	0.70	0.40	1.83	6.90	

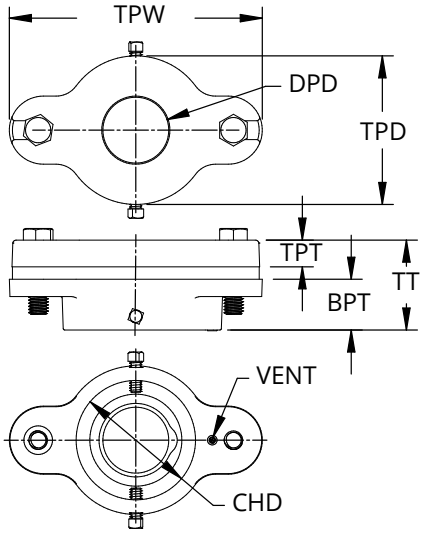
NOTE: Simmons part number is what will appear on packaging.

CLAMP ON:

FEATURES:

- Grommet Kit included on WS2012
- One piece cast iron top
- Provided with optional pointed set screws for threaded pipe





DIMENSIONS										
Boshart Part No.	Well Casing I.D.	(DPD) Drop Pipe Diameter (inch)		(CHD) Casing Hole Diameter (inch)	(TPW) Top Plate Width (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt Size
		Nominal	O.D.							
WS2010	2”	1”	1.33	2.41	5.11	0.54	1.03	1.82	3.00	3/8”-16 UNC x 1-1/2”
WS2012	2”	1-1/4”	1.68	2.41	5.11	0.54	1.03	1.82	3.00	

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Installation Instructions

1. Ensure the well casing is cut off level and that the inside of the well casing is clean and free of debris (approx. 3" down from top edge)

2. Ensure the bolts are not applying any compression to the gasket

3. Insert the last section of drop pipe through the well seal, against the drop pipe coupling

4. Insert the pump cable through the wire hole

5. As you lower the drop pipe, insert the well seal into the top of the casing until the top plate rests directly on the well casing

6. Align any cable or pipe openings as required for the installation

7. Evenly tighten all bolts until they are snug

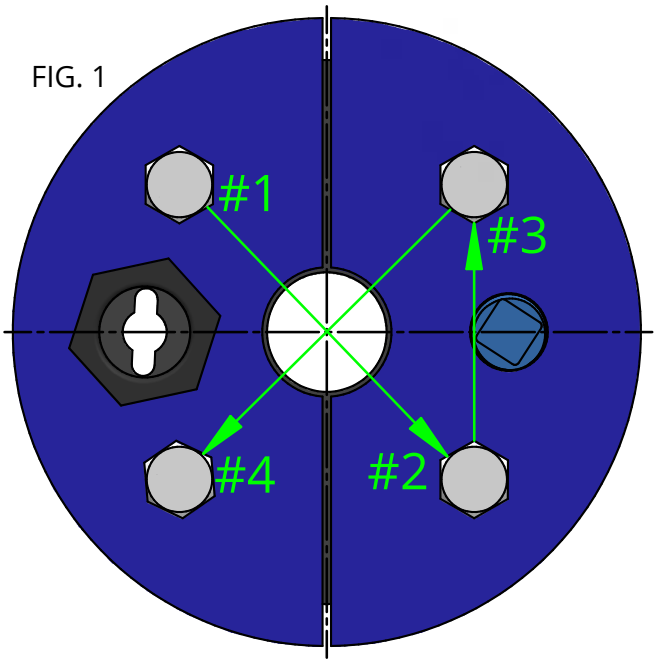
8. Further tighten bolts in a crisscross/star pattern to apply even pressure.

- First Round: 3 ft.lb
- Second Round: 6 ft-lb
- Third Round: 9 ft-lb
- Final Round: 10-12 ft-lb

CAUTION: Never tighten one bolt to full torque at a time. Doing so can cause uneven compression and result in an improper seal or damage.

9. Install the grommet kit using the slotted rubber gasket for flat jacketed pump cable and the rounded for twisted cable as shown (FIG 2.). With grommet kit installed, fill gap between the pump cable and grommet bushing with silicone to ensure a water tight seal (this is extremely important when using twisted pump cable as the grommet gasket cannot seal the gaps between the separate wires)

FIG. 1



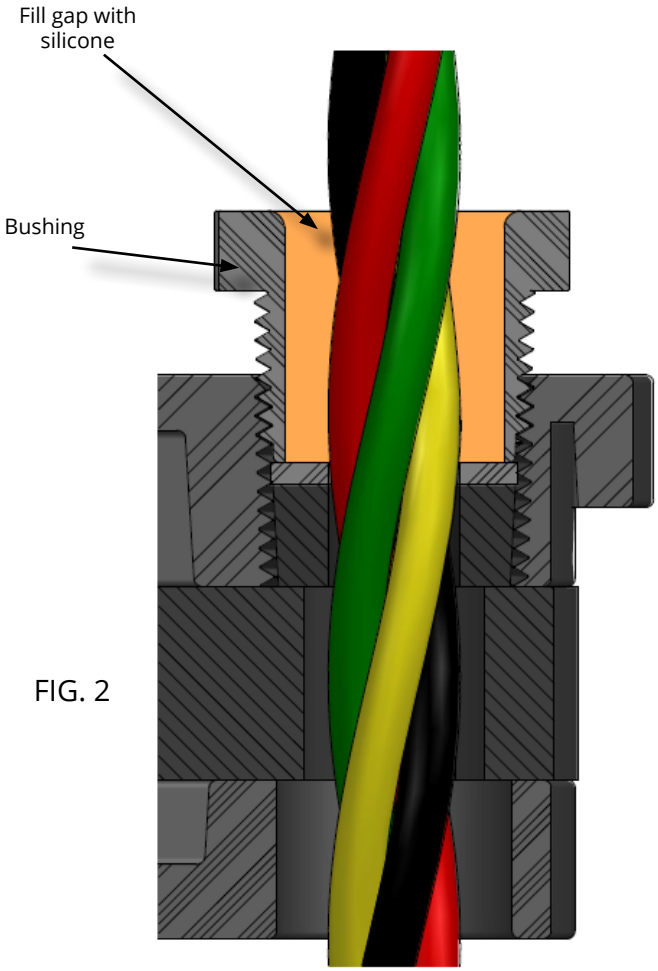


FIG. 2

Well Seal Removal

WARNING: Never loosen bolts off so far as to disengage the nuts, as it will result in the nuts and bottom plate falling down the well and possibly getting wedged, making it difficult to pull the pump for replacement.

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WSP SERIES - PLASTIC WELL SEALS

Typically used in warmer climates where there is no risk of freezing. They are sometimes used inside of a heated pump house in cold climates and that protects the pump pipes from freezing. Boshart's WSP Series Plastic Well Seals provide a sanitary, watertight seal at the top of a well casing where the drop pipe and electrical cable enter the well, when properly installed. These well seals are available to accommodate a range of installation requirements in:

- single hole for submersible/shallow well jet pump
- double hole for deep well jet pump
- blank configurations for sealing a well head

WSP well seals offer excellent durability, manufactured from high-strength, corrosion-resistant materials, for long-term performance. Their lightweight construction allows for easier handling and installation while maintaining reliable sealing performance in residential, agricultural, and light commercial water well applications.

These well seals are suitable for installations of submersible pumps up to and including depths of 600 feet when used with Schedule 80 PVC drop pipe and 400 feet on Schedule 40 steel pipe. A compression style rubber gasket expands when the bolts are tightened during installation to form a tight seal and to prevent surface water, debris, and contaminants from entering the water well.

SPECIFICATION:

- ABS (Acrylonitrile Butadiene Styrene) top and bottom plates
- Zinc plated bolts and flanged nuts - Stainless steel hardware is available upon request (add -SH to the end of the part number)
- Grommet kit is included for all single hole and blank well seals
- Offset drop pipe allows for large conduit connection
- Bolt ends are peened to prevent accidental disassembly when loosening the seal for removal



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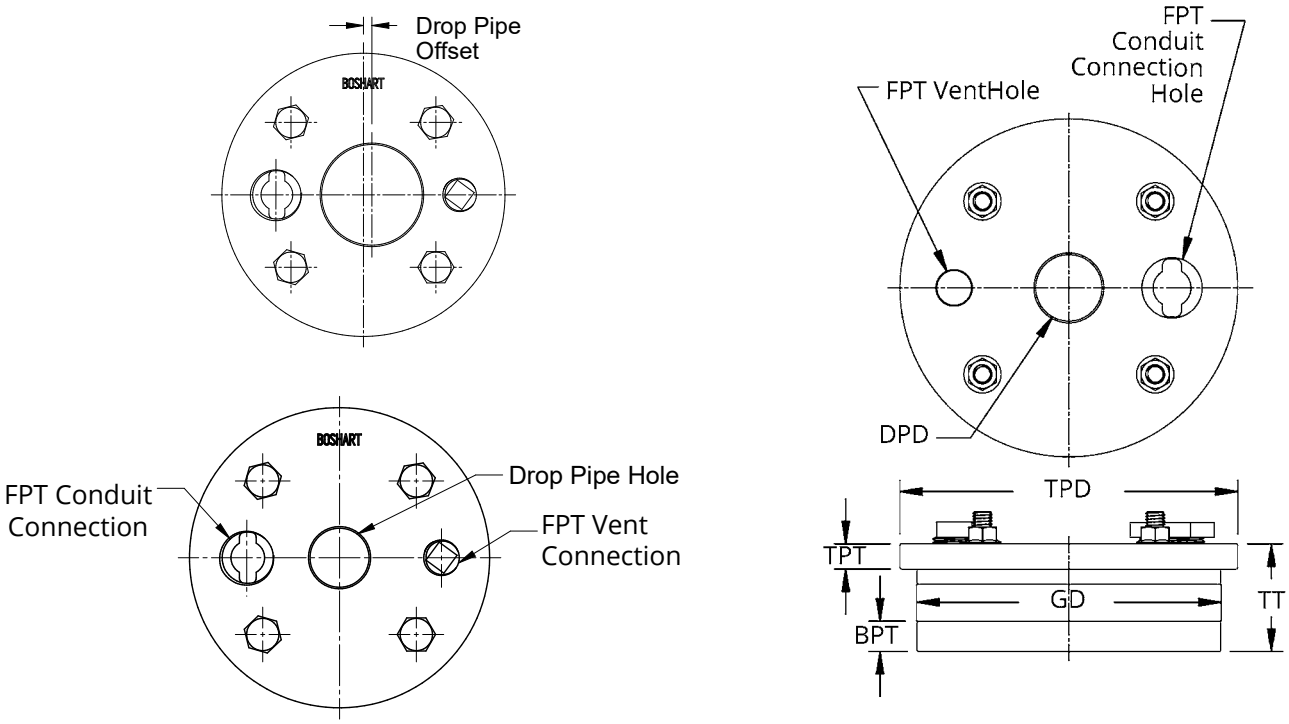
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Single Hole Well Seals

■ Single hole are designed for subermsible pump applications



DIMENSIONS												
Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter		Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	(FPT) Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt & Flanged Nut Size
			Nominal	O.D.								
4" WSP Series												
WSP4010	4"	3.99	1"	1.32	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	3/8”-16 UNC x 2-1/2”
WSP4012	4"	3.99	1-1/4"	1.66	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	
WSP4015	4"	3.99	1-1/2"	1.90	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	
WSP4020*	4"	3.99	2"	2.38	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	5/16”-18 UNC x 2-1/2”
***WSP4020 has raised supports, making it possible to incorporate a 3/4” cable hole**												
4-1/4" WSP Series												
WSP4210	4-1/4"	4.08	1"	1.32	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	3/8”-16 UNC x 2-1/2”
WSP4212	4-1/4"	4.08	1-1/4"	1.66	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	
WSP4215	4-1/4"	4.08	1-1/2"	1.90	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	
WSP4220	4-1/4"	4.08	2"	2.38	0.50	3/4"	1/2"	0.50	0.60	2.13	4.56	5/16”-18 UNC x 2-1/2”
5" WSP Series												
WSP5010	5"	5.01	1"	1.32	0.90	1"	1/2"	0.50	0.60	2.13	5.62	3/8”-16 UNC x 2-1/2”
WSP5012	5"	5.01	1-1/4"	1.66	0.90	1"	1/2"	0.50	0.60	2.13	5.62	
WSP5015	5"	5.01	1-1/2"	1.90	0.90	1"	1/2"	0.50	0.60	2.13	5.62	
WSP5020	5"	5.01	2"	2.38	0.90	1"	1/2"	0.50	0.60	2.13	5.62	

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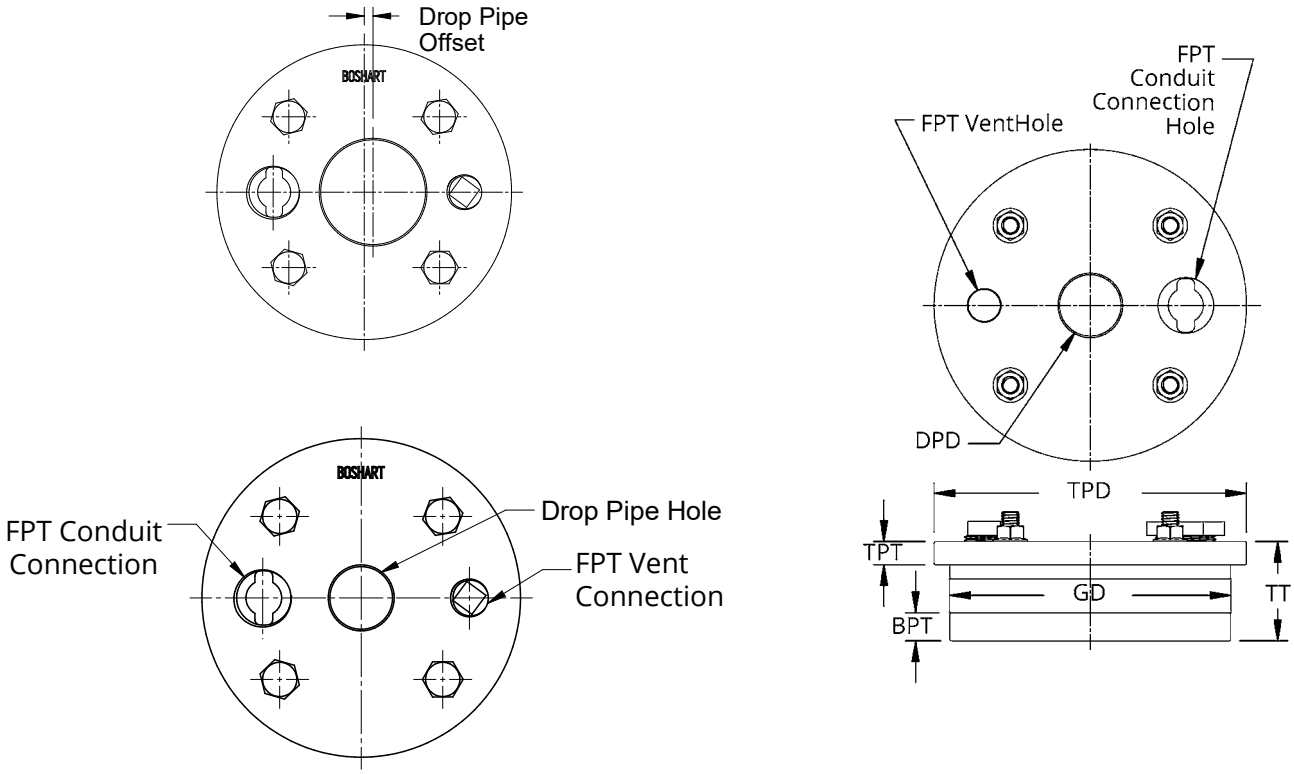
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Single Hole Well Seals

■ Single hole are designed for subermsible pump applications



DIMENSIONS												
Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter		Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	(FPT) Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt and Flanged Nut Size
			Nominal	O.D.								
5-1/4" WSP Series												
WSP5210	5-5/8"	5.15	1"	1.32	0.90	1"	1/2"	0.50	0.60	2.13	5.62	3/8"-16 UNC x 2-1/2"
6" WSP Series												
WSP6010	6"	6.03	1"	1.32	N/A	1"	1/2"	0.50	0.60	2.13	6.69	3/8"-16 UNC x 2-1/2"
WSP6012	6"	6.03	1-1/4"	1.66	N/A	1"	1/2"	0.50	0.60	2.13	6.69	
WSP6015	6"	6.03	1-1/2"	1.90	0.35	1"	1/2"	0.50	0.60	2.13	6.66	
WSP6020	6"	6.03	2"	2.38	0.35	1"	1/2"	0.50	0.60	2.13	6.66	
6-1/4" WSP Series												
WSP6210	6-1/4"	6.21	1"	1.32	N/A	1"	1/2"	0.50	0.60	2.13	6.69	3/8"-16 UNC x 2-1/2"
WSP6212	6-1/4"	6.21	1-1/4"	1.66	N/A	1"	1/2"	0.50	0.60	2.13	6.69	
WSP6215	6-1/4"	6.21	1-1/2"	1.90	0.35	1"	1/2"	0.50	0.60	2.13	6.66	
WSP6220	6-1/4"	6.21	2"	2.38	0.35	1"	1/2"	0.50	0.60	2.13	6.69	

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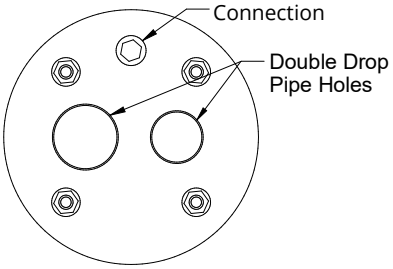
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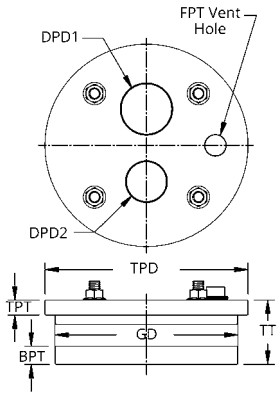
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Double Holes Well Seals

- Designed for jet pump applications

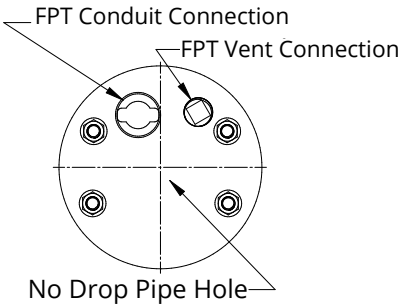


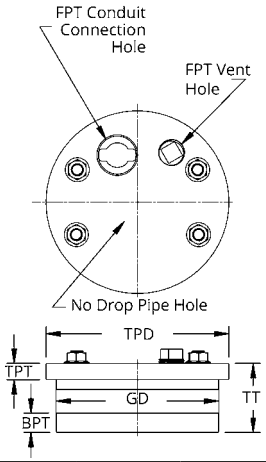


DIMENSIONS										
Part No.	Well Casing I.D.	Gasket O.D. (inch)	(DPD) Drop Pipe Diameter		FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt and Flanged Nut Size
			Nominal	O.D.						
WSP401210	4"	3.99	1-1/4" x 1"	1.66 x 1.32	1/2"	0.50	0.60	2.13	4.56	3/8"-16 UNC x 2-1/2"
WSP421210	4-1/4"	4.08	1-1/4" x 1"	1.66 x 1.32	1/2"	0.50	0.60	2.13	4.56	
WSP501210	5"	5.01	1-1/4" x 1"	1.66 x 1.32	1/2"	0.50	0.60	2.13	5.62	
WSP601210	6"	6.03	1-1/4" x 1"	1.66 x 1.32	1/2"	0.50	0.60	2.13	6.69	
WSP601212	6"	6.03	1-1/4" x 1-1/4"	1.66 x 1.66	1/2"	0.50	0.60	2.13	6.69	
WSP621210	6-1/4"	6.21	1-1/4" x 1"	1.66 x 1.32	1/2"	0.50	0.60	2.13	6.69	
WSP621212	6-1/4"	6.21	1-1/4" x 1-1/4"	1.66 x 1.66	1/2"	0.50	0.60	2.13	6.69	

Blank Well Seals

- Supplied with a plug for the conduit connection





DIMENSIONS											
Part No.	Well Casing I.D.	Gasket O.D. (inch)	Drop Pipe Size	Drop Pipe Offset (inch)	FPT Conduit Conn. (inch)	FPT Vent Size (inch)	(TPT) Top Plate Thickness (inch)	(BPT) Bottom Plate Thickness (inch)	(TT) Total Thickness (inch)	(TPD) Top Plate Diameter (inch)	Bolt and Flanged Nut Size
WSP40	4"	3.99	Blank	N/A	3/4"	1/2"	0.50	0.60	2.13	4.56	3/8"-16 UNC x 2-1/2"
WSP42	4-1/4"	4.08	Blank	N/A	3/4"	1/2"	0.50	0.60	2.13	4.56	
WSP50	5"	5.01	Blank	N/A	1"	1/2"	0.50	0.60	2.13	5.62	
WSP52	5-1/4"	5.15	Blank	N/A	1"	1/2"	0.50	0.60	2.13	5.62	
WSP60	6"	6.03	Blank	N/A	1"	1/2"	0.50	0.60	2.13	6.69	
WSP62	6-1/4"	6.21	Blank	N/A	1"	1/2"	0.50	0.60	2.13	6.69	

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Installation Instructions

1. Ensure the well casing is cut off level and that the inside of the well casing is clean and free of debris (approx. 3" down from top edge)

2. Loosen the compression bolts to ensure they are not applying any compression to the rubber gasket

3. Insert the last section of drop pipe through the well seal, against the drop pipe coupling

4. Insert the pump cable through the wire hole

5. As you lower the drop pipe, insert the well seal into the top of the casing until the top plate rests directly on the well casing

6. Align any cable or pipe openings as required for the installation

7. Evenly tighten all the compression bolts until they are snug

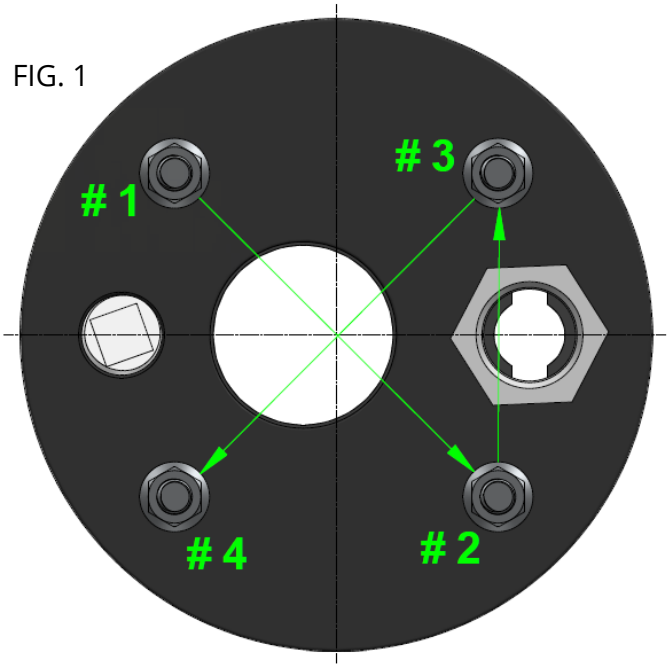
8. Further tighten bolts in a crisscross/star pattern to apply even pressure

- First Round: 3 ft.lb
- Second Round: 6 ft-lb
- Third Round: 9 ft-lb
- Final Round: 10-12 ft-lb

CAUTION: Never tighten one bolt to full torque at a time. Doing so can cause uneven compression and result in damage to the top and bottom plates.

9. Install the grommet kit using the slotted rubber gasket for flat jacketed pump cable and the rounded for twisted cable as shown (FIG 2.). With grommet kit installed, fill gap between the pump cable and grommet bushing with silicone to ensure a water tight seal (this is extremely important when using twisted pump cable as the grommet gasket cannot seal the gaps between the separate wires)

FIG. 1



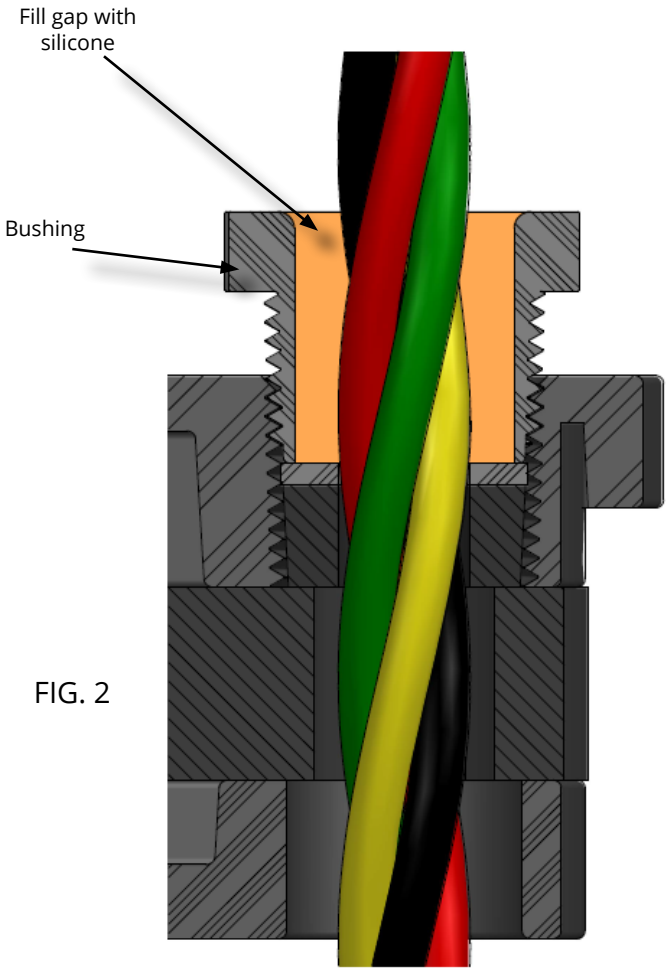


FIG. 2

Well Seal Removal

WARNING: Never loosen nuts off so far as to disengage the bolts, as it will result in the bolts falling down the well and possibly getting wedged between the well casing and the submersible pump, making it difficult to pull the pump for replacement.

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REPLACEMENT PARTS

WS-GK Series - Grommet Kits

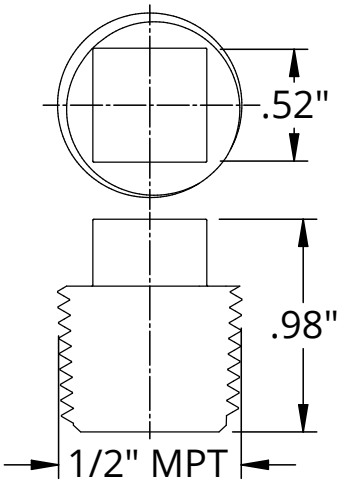
FEATURES

- Includes a PVC vent plug, PVC conduit bushing, PVC washer, slotted rubber gasket and round rubber gasket
- It is recommended that silicone sealant is applied to fill the conduit bushing above the washer and grommet kit after cables are installed
- Round hole grommet is for 3-4 twisted cables
- Slotted hole is for flat jacketed cable

NOTE: the replacement grommet kit will look different than the one supplied with the cast iron well seals only



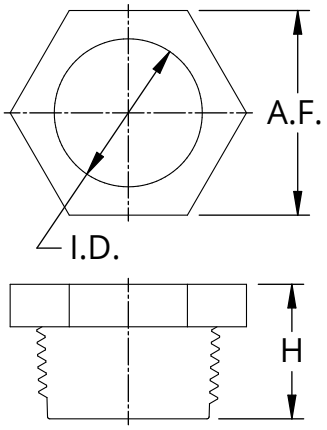
PVC Vent Plug



GROMMET KITS	
Part No.	**Size**
WS-GK-07	3/4″
WS-GK-10	1″

PVC Conduit Bushing

DIMENSIONS						
Size (MPT)	**Inside Diameter (I.D.)**		**(A.F.)**		**Height (H)**	
	in	**mm**	**in**	**mm**	**in**	**mm**
3/4″	0.83	21.08	1.17	29.72	0.95	24.13
1″	1.05	26.67	1.45	36.83	0.95	24.13



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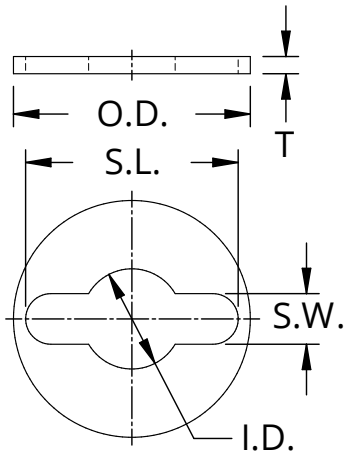
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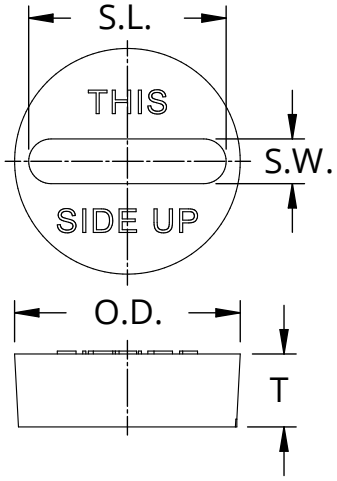
PVC Washer

DIMENSIONS										
Size	Inside Diameter (I.D.)		Outside Diameter (O.D.)		Slot Length (S.L.)		Slot Width (S.W.)		Thickness (T)	
	in	mm	in	mm	in	mm	in	mm	in	mm
3/4″	0.50	12.70	0.93	23.62	0.82	20.83	0.25	6.35	0.09	2.29
1″	0.50	12.70	1.17	29.72	1.05	26.67	0.25	6.35	0.09	2.29



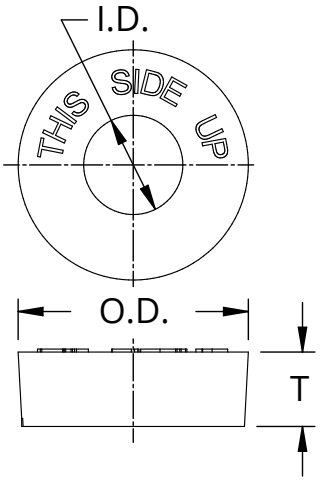
Slotted Rubber Grommet

DIMENSIONS								
Size	Outside Diameter (O.D.)		Slot Length (S.L.)		Slot Width (S.W.)		Thickness (T)	
	in	mm	in	mm	in	mm	in	mm
3/4″	0.92	23.37	0.77	19.56	0.24	6.10	0.39	9.91
1″	1.16	29.46	1.02	25.91	0.24	6.10	0.39	9.91



Round Rubber Grommet

DIMENSIONS						
Size	Inside Diameter (I.D.)		Outside Diameter (O.D.)		Thickness (T)	
	in	mm	in	mm	in	mm
3/4″	0.50	12.70	0.92	23.37	0.39	9.91
1″	0.50	12.70	1.16	29.46	0.39	9.91



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WS-V05 Series - Black PVC Well Seal Air Vent

APPLICATIONS:

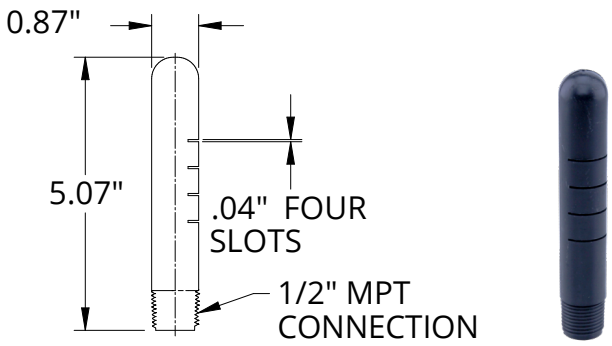
- These air vents are threaded into the well seal air vent connection for water well ventilation, allowing air into the well during the pumping phase and to release air as the static level of the water rises between pumping cycles
- Air vents must be plumbed to ensure the intake screen of the vent will never be submersed in water if the well pit were to get flooded with surface water in heavy rain or flood condition

FEATURES:

- Vents have four 0.04" (1.016 mm) slots on each side
- Slots make vermin proof

SPECIFICATIONS:

- WS-V05: 1/2" MPT Black PVC, 0.059 lbs (26.76 grams)



WS-V05-G Series - Galvanized Well Seal Air Vent

APPLICATIONS:

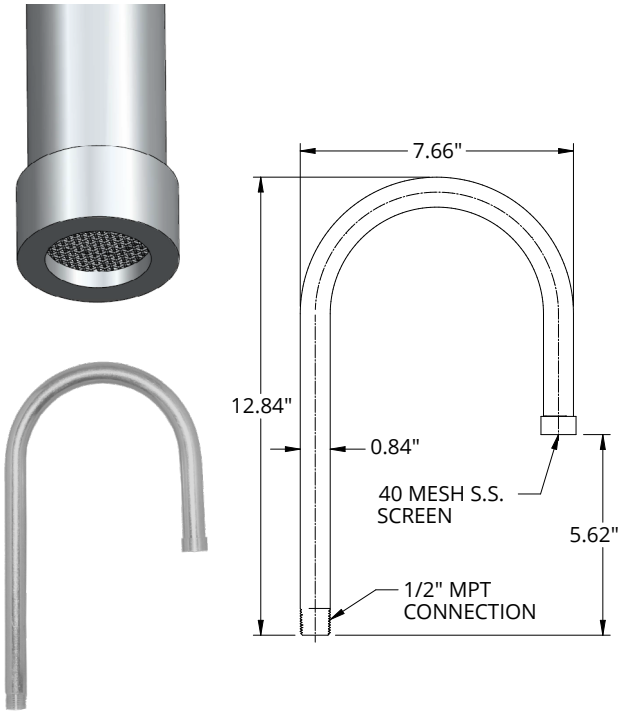
- These air vents are threaded into the well seal air vent connection for water well ventilation, allowing air into the well during the pumping phase and to release air as the static level of the water rises between pumping cycles
- Air vents must be plumbed to ensure the intake screen of the vent will never be submersed in water if the well pit were to get flooded with surface water in heavy rain or flood condition

FEATURES:

- Steel: 40 mesh - equivalent to 0.015" (0.381 mm) slot size of PVC slotted well screen / points, 36% open area, 1/64" (0.397 mm) openings
- Screen makes vermin proof

SPECIFICATIONS:

- WS-V05-G: 1/2" MPT Zinc Plated Steel tube, 1.520 lbs (689.5 grams)



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