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Introduction

Gaskets are categorized as either soil-tight (ST) – yellow gaskets creating an additional barrier at a pipe connection to prevent soil infiltration – or watertight (WT) – sturdy, black gaskets creating watertight connection as defined in *ASTM D3212*. Prinsco has designed watertight gaskets for integral bell & spigot connections (spigot gaskets) as well as gaskets to function when connecting field-cut, plain-end pipe to an oversized bell (saddle gaskets).

This guide is to be referenced for proper field installation steps. Larger diameter installations may require clamps, prying tool, and/or other equipment. Proper protective equipment such as gloves are recommended when working with pipe.

Gasket Identification

Table 1 outlines Prinsco's current gasket types and performance classifications.

Part numbers: GFGSK = GoldFlo Gasket U = Uvula: indicates a spigot gasket

Table 1 - Prinsco's current gasket part numbers.

	Watertight (WT)		Soil-Tight (ST)
	Saddle Gasket	Spigot Gasket	Spigot Gasket
4"	GFGSK04WT	GFGSKU04WT	-
6"	GFGSK06WT	GFGSKU06WT	-
8"	*GFGSK08WT	GFGSKU08WT	-
10"	GFGSK10WT	GFGSKU10WT	GFGSKU10ST
12"	*GFGSK12WT	*GFGSKU12WT	GFGSKU12ST
15"	*GFGSK15WT	*GFGSKU15WT	GFGSKU15ST
18"	*GFGSK18WT	GFGSKU18WT	GFGSKU18ST
24"	GFGSK24WT	GFGSKU24WT	GFGSKU24ST
30"	GFGSK30WT	GFGSKU30WT	GFGSKU30ST
36"	GFGSK36WT	GFGSKU36WT	GFGSKU36ST
42"	-	GFGSKU42WT	GFGSKU42ST
48"	-	GFGSKU48WT	GFGSKU48ST
60"	-	GFGSKU60WT	GFGSKU60ST

* = Indicates that there may be variations of gaskets and part numbers depending on pipe type and location



Figure 1 - Watertight (WT) Saddle Gasket



Figure 2 - Watertight (WT) Spigot Gasket



Figure 3 - Soil-Tight (ST) Spigot Gasket



Figure 4 - Standard corrugation characteristics

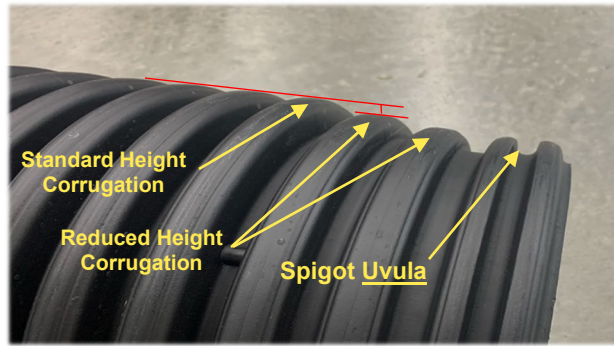


Figure 5 - Spigot pipe characteristics



4" – 10" Gasket Installation

Both saddle and spigot gaskets for 4" – 10" pipe are installed similarly and will follow the same procedures.

For 4" – 10" pipe, spigot gaskets can also be used as saddle gaskets.

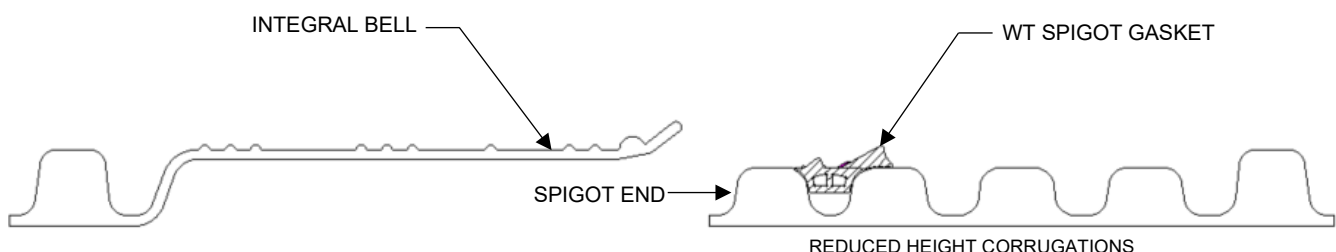
BE SURE THE PIPE IS CLEAR OF ANY DEBRIS.

DO NOT PRESTRETCH THE GASKET PRIOR TO INSTALLATION.

1. Set half of the properly orientated gasket into the bottom half of the pipe corrugation and hold in place with a thumb at each midpoint.
2. Work hands from the midpoint up and around the pipe pushing the gasket into the reduced height corrugation.
3. Adjust as necessary so that the gasket is seated correctly all around the pipe. The final installed gasket should resemble the gasket shown in the image.



Proper orientation of respective gaskets (6" example)





10" – 60" Spigot Gasket ST Installation

All size soil-tight (ST) gaskets follow similar installation steps, with 12" and up only offered as spigot gaskets.

Spigot gaskets are installed during manufacturing and should arrive to the field with the gaskets in place and covered in protective wrap.

NOTE: Larger diameters may require a second person to assist with the installation.

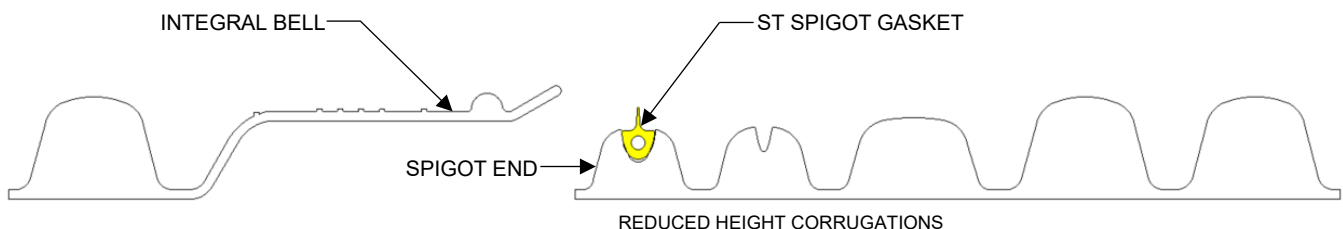
BE SURE THE SPIGOT IS CLEAR OF ANY DEBRIS.
DO NOT PRESTRETCH THE GASKET PRIOR TO INSTALLATION.

1. Elevate the end of the pipe off the ground with a block or other suitable object. Place the gasket into the uvula and use both hands to work the gasket around the pipe.
2. Careful not to over stretch the gasket, push/pull the remainder of the gasket to properly seat in the uvula.
3. Adjust as necessary so that the gasket is seated correctly all around the pipe. The final installed gasket should resemble the gasket shown in the image.



Profile view of soil-tight gaskets (30" example)

*no specific orientation for soil-tight gaskets





12" – 24" Saddle Gasket WT Installation

Saddle gaskets are used when connecting plain-end, field-cut pipe to an oversized bell.

NOTE: Larger diameters may provide more resistance than smaller diameters.

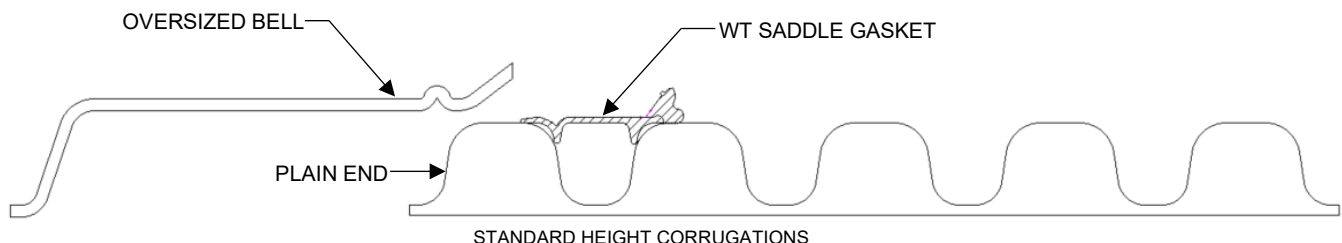
BE SURE THE PIPE IS CLEAR OF ANY DEBRIS.

DO NOT PRESTRETCH THE GASKET PRIOR TO INSTALLATION.

1. Elevate the end of the pipe off the ground with a block or other suitable object. Set the properly orientated gasket in the bottom half of the first corrugation valley.
2. Hold the gasket to the pipe with one hand and use a pry bar with the other to slide the gasket the rest of the way into the valley. **Be careful not to over-stretch or damage the gasket with the pry bar.**
3. Adjust as necessary so that the gasket is seated correctly around the pipe. Ensure that the seal portion of the gasket is properly positioned over the top of the second corrugation for rear sealing gaskets.



Proper orientation of rear-sealing gaskets (15" example)





12" – 24" Spigot Gasket WT Installation

Spigot gaskets are installed during manufacturing and should arrive to the field with the gaskets in place and covered in protective wrap.

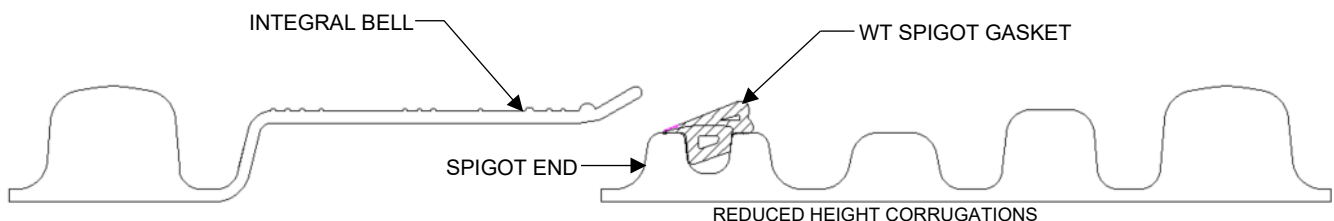
NOTE: Larger diameters may provide more resistance than smaller diameters.

BE SURE THE SPIGOT IS CLEAR OF ANY DEBRIS.
DO NOT PRESTRETCH THE GASKET PRIOR TO INSTALLATION.

1. Elevate the end of the pipe off the ground with a block or other suitable object. Set the properly orientated gasket in the bottom half of the uvula.
2. Slightly roll the gasket upwards and continue moving the gasket up the pipe while using both palms to push the gasket into the uvula.
3. Adjust as necessary so that the gasket is seated correctly all around the pipe. The final installed gasket should resemble the gasket shown in the image.



Proper orientation of respective gaskets (15" example)





30" – 36" Saddle Gasket WT Installation

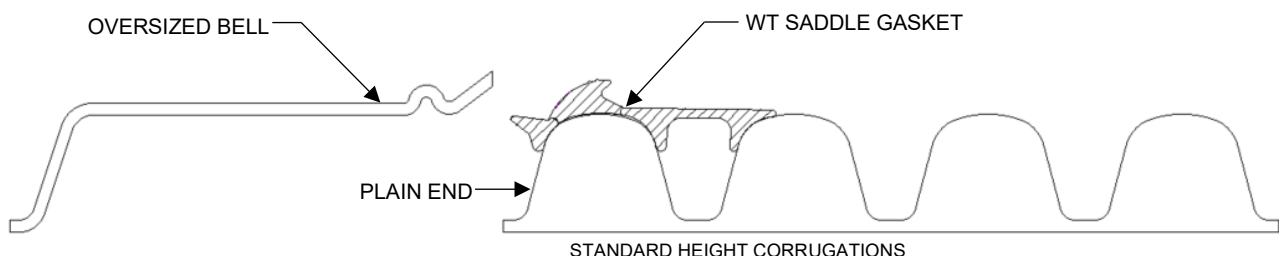
NOTE: A second person may assist with the installation while following the same steps below.

BE SURE THE PIPE IS CLEAR OF ANY DEBRIS.
DO NOT PRESTRETCH THE GASKET PRIOR TO INSTALLATION.

1. Elevate the end of the pipe off the ground with a block or other suitable object. Place the gasket on top of the first corrugation valley. **Carefully** use a clamp to hold the gasket in place.
2. Pull the gasket onto the corrugation, moving from the top of the pipe around to the bottom of the pipe. You may **carefully** use your foot if necessary.
3. Once you have reached a point close to the bottom of the pipe, apply a 2nd clamp and compress the gasket against the corrugation, securing that section of gasket to the pipe. Then begin to roll the gasket onto the corrugation **carefully** with a pry bar.
4. Remove the clamps and adjust as necessary so that the gasket is seated correctly all around the pipe.



Proper orientation of forward-sealing gaskets (30" example)





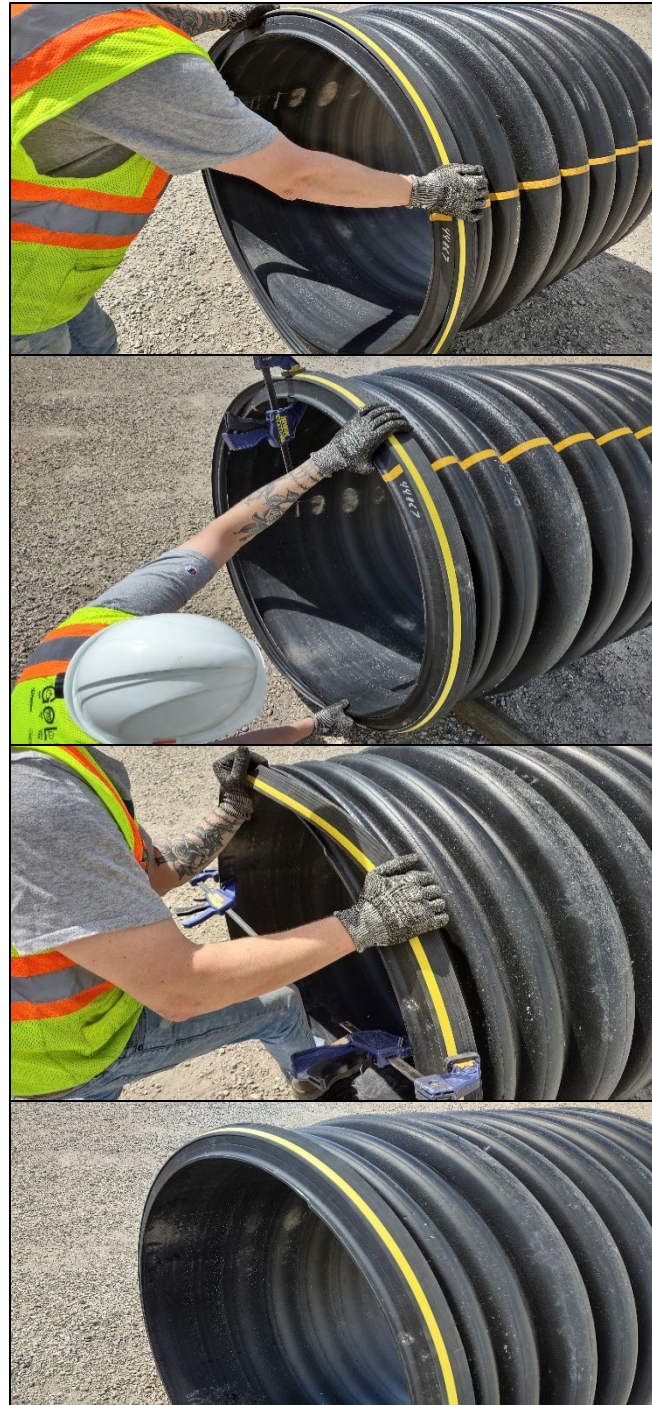
30" – 60" Spigot Gasket WT Installation

Spigot gaskets are installed during manufacturing and should arrive to the field with the gaskets in place and covered in protective wrap.

NOTE: Larger diameters may require a second person to assist with the installation while following the same steps below.

BE SURE THE SPIGOT IS CLEAR OF ANY DEBRIS.
DO NOT PRESTRETCH THE GASKET PRIOR TO INSTALLATION.

1. Elevate the end of the pipe off the ground with a block or other suitable object. Place the properly oriented gasket in the spigot uvula.
2. Using a clamp, **carefully** apply force between the gasket and the pipe spigot, anchoring the gasket to the pipe. Hold onto the pipe with one hand and use the other hand to work the gasket around the pipe from the clamp.
3. Once you have reached a point close to the bottom of the pipe, grip the gasket and apply a 2nd clamp and work the rest of the gasket around the pipe until the full gasket is lying in the uvula.
4. Work the gasket the rest of the way around the spigot into the valley until the full gasket is lying in the valley. Remove the clamps and adjust as necessary to match the gasket as shown.



Proper orientation of respective gaskets (42" example)

