

# SERIES 3000 PO TO PUSH-ON RESTRAINTS

## 35U — PVC PIPE TO PUSH-ON FITTING RESTRAINT

### KITS FOR 4"–12" APPLICATIONS: 4"–12" FOR DIOD & 4"–12" FOR IPS PIPE

Revised 2/2025 (Current revisions for the noted Standards apply)

Restrains AWWA C900 PVC pipe in sizes 4"–12" to Push-on AWWA C153 ductile iron fittings.

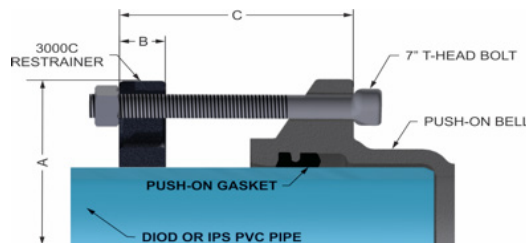
Restrains \*IPS diameter PVC pipe in sizes 4"–12" to Push-on AWWA C153 ductile iron fittings. **\*Transition gasket required**

### FEATURES & ADVANTAGES

- Available for PVC sizes 4"–12" for both ductile iron outside diameter (DIOD) pipe or iron pipe size (IPS) outside diameter pipe.
- Restraints and fasteners rated at the listed pressure on the PVC pipe and restraint shall have a 2:1 safety factor.
- Full 360° contact, no pipe distortion or point loading.
- Connecting T-head bolts, clamp assembly bolts and hex nuts consist of low-alloy, high-strength steel and comply with applicable requirements of ANSI/AWWA C111/A21.11.
- System pressure rating \*305 psi for DR14, \*235 psi for DR18, \*165 psi for DR25. **\*Derated if all T-head bolts provided cannot be installed.**
- For easy identification, IPS pipe diameter clamps are grey and DI pipe diameter clamps are black.

### SAMPLE SPECIFICATIONS

All clamps are made of high-strength grade 65-45-12 ductile iron in accordance with the requirements and specifications of ASTM A536. Clamps coated with alkyd resin-based baking enamel. Clamps provide 360 degree contact with the PVC pipe, and internal serrations are machined to exact tolerances. Restrainers approved per applicable requirements of ASTM F1674, current revisions apply. Kits include 1 each 3000C restrainer, 2 each hex head clamping bolts and nuts for restrainer assembly, and restraint to fitting connecting T-head bolts and hex nuts. For use on water or wastewater pipelines subject to hydrostatic pressure, and tested in accordance with ASTM D2774 or AWWA C600. **\*Note: 10" and 12" fittings may have a single top/bottom restraining lug, contact Tyler Union for restraint pressure rating.**



4"–12" Assembly

SERIES 3000PP RESTRAINT DIMENSIONS AND WEIGHTS													
Nom Size	Series 3000PO For PVC Pipe With Ductile Pipe O.D.		Series 3000PO For PVC Pipe With IPS Pipe O.D.		*A	*B	*C Max.	T-head Connecting Bolt		Quantity, Sizing and Torque For Clamp Assembly Bolts			*Kit (lbs.)
	Nom. Pipe O.D.	DIOD Part #	Nom. Pipe O.D.	IPS Part #				Qty	Size	Qty	Size	Torque	Wt.
4	4.80	462521	4.50	CALL	9.12	1.12	6.00	2	3/4 X 7	2	5/8 X 3 1/2	100 ft-lb	8
6	6.90	462538	6.63	CALL	11.12	1.12	6.00	2	3/4 X 7	2	5/8 X 3 1/2	100 ft-lb	10
8	9.05	462545	8.63	CALL	14.74	1.25	6.00	2	3/4 X 7	2	3/4 X 5	150 ft-lb	15
10	11.10	462552	10.75	CALL	16.81	1.38	6.00	4	3/4 X 7	2	7/8 X 5	150 ft-lb	24
12	13.20	462569	12.75	CALL	19.45	1.38	6.00	4	3/4 X 7	2	7/8 X 5	150 ft-lb	26

**NOTE:** Approximate dimensions

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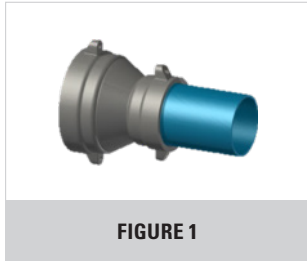


FIGURE 1

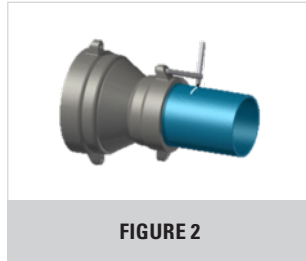


FIGURE 2

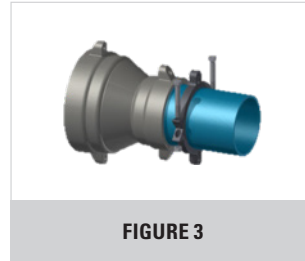


FIGURE 3

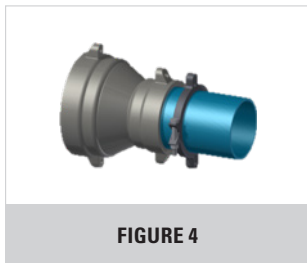


FIGURE 4

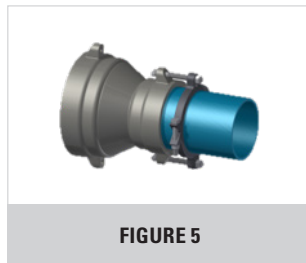


FIGURE 5

**INSTALLATION INSTRUCTIONS FOR SIZES 4"–12" SERIES 3000PO:**

- Figure 1, Push-On joint assembly per AWWA C600 — make sure the pipe spigot is beveled, ensure the fitting gasket seat is clean and dry prior to joint assembly. Insert the gasket into the fitting gasket seat and evenly lubricate the inside surface of the gasket only. Confirm the exterior pipe wall of the spigot end of the pipe is clean and free from raised or rough areas. Keeping the pipe straight with the fitting socket, insert the spigot end of the pipe fully against the pipe stop inside the fitting socket.
- Per Figure 2, use a 7" T-head bolt (included) as a guide and mark the location on the pipe where the restrainer will be assembled.
- Assemble restrainer per Figure 3, leaving sufficient threads on the end of the T-head bolt to fully engage nut.
- Tighten the restrainer clamp assembly bolts on each side evenly to the recommended torque maintaining even gaps between the clamp pads (100 ft-lb for 4"-6" and 150 ft-lb for 8"-12").
- Connect restrainer to fitting per Figure 5. Insert the 7" T-head bolt (bolts and hex nuts provided) through the fitting ear and tighten the hex nut up to the restrainer hand tight plus a half turn. Do not over tighten T-head bolts thus forcing the spigot further into the joint.