

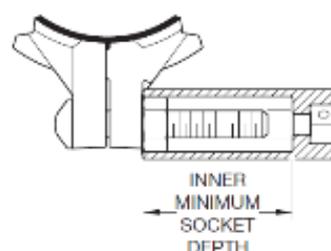
**GENERAL INFO - BEFORE YOU START**

- Installers should be trained or experienced to install and understand the product.
- Read and understand all technical datasheets and installation instructions before attempting to install, remove or adjust any Profit piping products.
- Depressurize and drain the sprinkler installation system before attempting to install, remove or adjust any Profit piping products.
- Never work on piping-systems that are pressurized and/or filled with water or air.
- Use the necessary Personal Protection Equipment (PPE) to avoid personal injury (helmet, safety shoes, goggles, Profit gloves).

- Use appropriate tooling:
  - Profit groove meter.
  - Impact-wrench and torque-wrench.
  - Correct Socket Size and Depth:

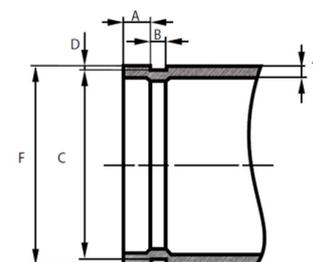


	Socket size	Minimum socket Depth
M10	17 mm	35 mm
M12	22 mm	40 mm



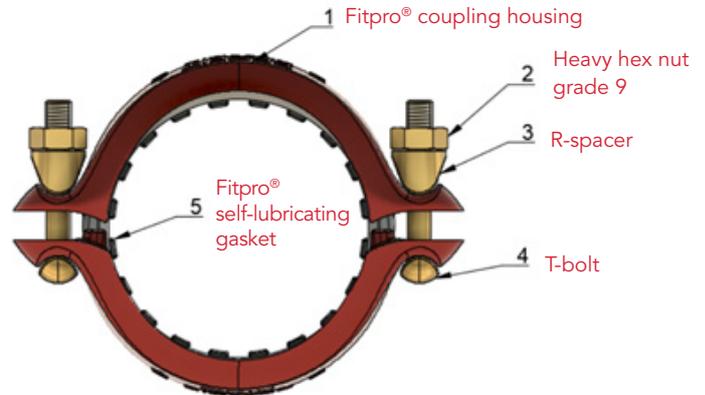
- Installation is intended for grooved pipe systems according to AWWA C606-06. We refer to the table below for Rolled groove dimensions:

Nominal pipe size	Outside diameter			Gasket seat A	Groove width B	Groove diameter C		Groove depth* D	Maximum outspread F	
	NPS (DN)	Size mm	+ mm			- mm	Size			Tolerance mm
1¼	32	42,4	0,50	0,60	15,9	7,1	39,0	+0/-0,4	1,6	43,3
1½	40	48,3	0,44	0,52	15,9	7,1	45,1	+0/-0,4	1,6	49,4
2	50	60,3	0,61	0,61	15,9	8,7	57,2	+0/-0,4	1,6	62,2
2½	65	76,1	0,76	0,76	15,9	8,7	72,3	+0/-0,4	2,0	77,7
3	80	88,9	0,89	0,79	15,9	8,7	84,9	+0/-0,4	2,0	90,6
4	100	114,3	1,14	0,79	15,9	8,7	110,1	+0/-0,5	2,2	116,2

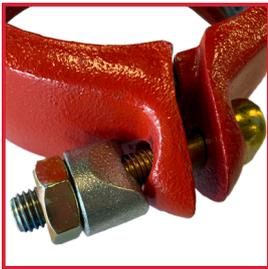


- Generally red painted couplings are used for wet systems, galvanised couplings are generally used in dry systems.
- Do not dis-assemble Fitpro® couplings prior to installation, Fitpro® is ready for installation.

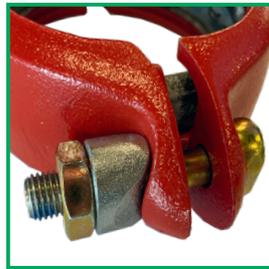
- Check that the coupling is complete. Every Profit Fitpro® coupling consists of 2 cast iron housings [1], 1 self-lubricating gasket [5], 2 T-bolts [4], 2 R-spacers [3] and 2 heavy hex nuts [2]. Please verify that the T-bolts and R-spacer are in the correct position as shown in underlying images.



- Please verify that the T-bolts and the R-spacer are in the correct position with the spherical part mating the housing-shape.



Not correct

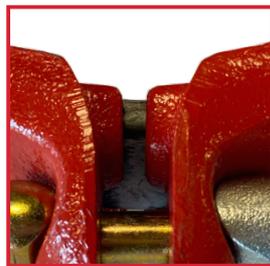


Correct

- Please verify that the tongue-and-recess feature is mating up properly.



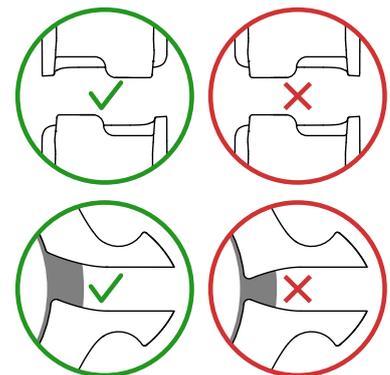
Not correct



Not correct



Correct



- For installation in wet systems that will be tested with air prior to filling with water: use Profit lubricant on the ends of both grooved pipes.
- At re-installation (RETROFIT) of couplings: dis-assemble coupling and use Profit lubricant on the full gasket-surface.
- Failure to follow these instructions could result in death or serious injury and property damage.
- We advise to always store our products in closed and dry environments, the products do not need any specific maintenance once installed on an aboveground sprinkler installation.

**INITIAL INSTALLATION**

**1** **Verify<sup>1</sup>**

Verify the tube, groove and flare dimensions are in accordance with Profit Roll Groove dimensions (table page 1) and free of oil, dirt, loose paint, indentations and burrs. It is important to have a clean and cylindrical gasket-sealing surface to guarantee a good fit.



**2** **FIT one side on the pipe**

Push the coupling on the first pipe or component by inserting the pipe into the gasket until it is stopped by the gasket intermittent center-stops. Do not leave the coupling unattended on one pipe, there is always the risk of coupling drop causing injury or damage.



**3** **Fit the other pipe**

Insert the other component until you hit the 'center-stop'. Make sure that both pipes or components are well aligned to each other vertically and horizontally. Check now that both housing keys are aligned with the grooves in the pipes (both sides)



**4** **Torque the nuts**

Tighten the two nuts evenly alternating (2-3 times) until you reach metal-to-metal contact of outer ends of the bolt-pads.  
Tighten now the nuts to the recommended torque (see table below) with a torque wrench.



Boltsize	Coupling	Torque
M10	1 1/4", 1 1/2", 2", 2 1/2", 3"	40-50 Nm
M12	4"	100-110 Nm

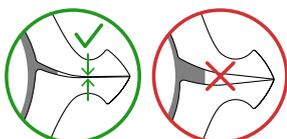
**5** **Check**

Check both sides of both bolt-pads: the pads should make metal-to-metal contact\*. Tighten further where needed, but do not over-tighten the nuts (impact wrenches can have excess power that result in damaging the nuts or T-bolts).



Correct

\* Leaving no gap at the bolt-position.



**6** **Installation video**

Watch our installation video on the Fitpro® website at [www.fitprocoupling.eu](http://www.fitprocoupling.eu) or scan the QR code on the right.



1) **Note:** Please lubricate the gasket with Profit lubricant in any of following conditions:

- Dry pipe systems;
- System will be subject of a pneumatic test;
- If the gasket was exposed to fluids before installation;
- If the lubricant coating has been removed.

**RETROFIT INSTALLATION**

**1** **Verify**

Verify the tube, groove- and flare-dimensions are in accordance with Profit Roll Groove dimensions (table page 1) and free of oil, dirt, loose paint, indentations and burrs. It is important to have a clean and cylindrical gasket-sealing surface to guarantee a good fit.



**2** **Lubricate**

Remove the gasket from the coupling. Lubricate the pipe in the groove area. Lubricate the coupling housing inside. Use Profit-lubricant. Then assemble the coupling.

**3** **FIT one side on the pipe**

Push the coupling on the first pipe or component by inserting the pipe into the gasket until it is stopped by the gasket intermittent center-stops. Do not leave the coupling unattended on one pipe, there is always the risk of coupling drop causing injury or damage.



**4** **Fit the other pipe**

Insert the other component until you hit the 'center-stop'. Make sure that both pipes or components are well aligned to each other vertically and horizontally. Check now that both housing keys are aligned with the grooves in the pipes (both sides).



**5** **Torque the nuts**

Tighten the two nuts evenly alternating (2-3 times) until you reach metal-to-metal contact of outer ends of the bolt-pads. Tighten now the nuts to the recommended torque (see table below) with a torque wrench.

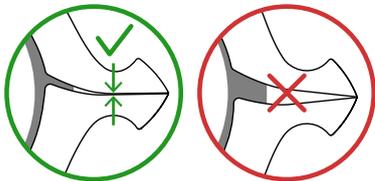


**6** **Check**

Check both sides of both bolt-pads: the pads should make metal-to-metal contact. Tighten further where needed, but do not over-tighten the nuts (impact wrenches can have excess power that result in damaging the nuts or T-bolts).



Correct



Boltsize	Coupling	Torque
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