

## 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.
- Use the necessary Personal Protection Equipment (PPE) to avoid personal injury (helmet, safety shoes, goggles, Profit gloves).
- Use appropriate tooling:
  - Profit groove meter and/or center punch tool
  - Impact-wrench and torque-wrench
  - Correct socket size and depth:



Bolt size	Recommended torque	Socket
	Nm	mm
M8 (1/4)	25-30	13
M10 (3/8)	44-54	15
M12 (1/2)	90-100	18
M14 (9/16)	135-150	21
M16 (5/8)	200-230	24
M20 (3/4)	270-300	30

**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.**

# GROOVED COUPLINGS

## INSTALLATION INSTRUCTIONS

1

Check the end of the pipe, after the groove, to make sure that there are no bumps, holes or loose coating particles. Remove these first, in order to prevent leaks. Always check the rubber gasket to ensure that it is suitable for the intended service.



2

The outer diameter of the housing and the groove diameter must match the specifications provided by Profit; please review the page with groove specifications.

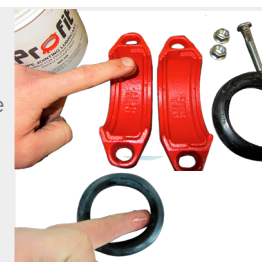
3

Unscrew the pre-assembled coupling using an impact wrench.



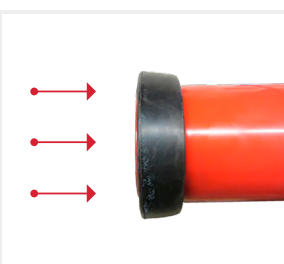
4

Apply PROFIT lubricant onto the sealing lips of the gasket. Also apply lubricant to the interior side of the housings.



5

Slide the gasket over the end of the pipe and make sure that it covers the end completely.



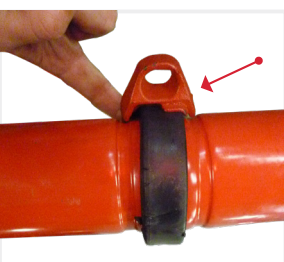
6

Bring the two pipe ends together without misalignments and pull the gasket over the end of the pipe. Make sure that the gasket is in the middle and that it covers both pipe ends.



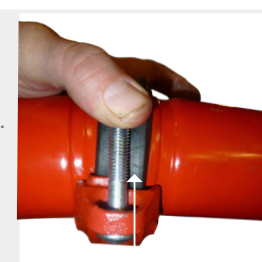
7

Place one coupling shell around the gasket. Once it is placed over the gasket, you shall see that the housing fits in the groove.



8

Stick a bolt through the housing. Make sure that the head of the bolt perfectly fits in the housing.



9

Place the second housing over the bolt and turn the nut finger-tight on the bolt. Then place the second bolt and tighten it finger-tight.



10

Tighten the bolts alternately using an impact wrench with suitable socket wrench until the coupling is completely closed. For proper sealing, bolt-torque standards must be respected (see table). A torque too big cannot improve the sealing property of the coupling; on the contrary it may damage the bolts and/or the housing and can even cause disconnection of the pipes. A torque too small will lead to leakage.

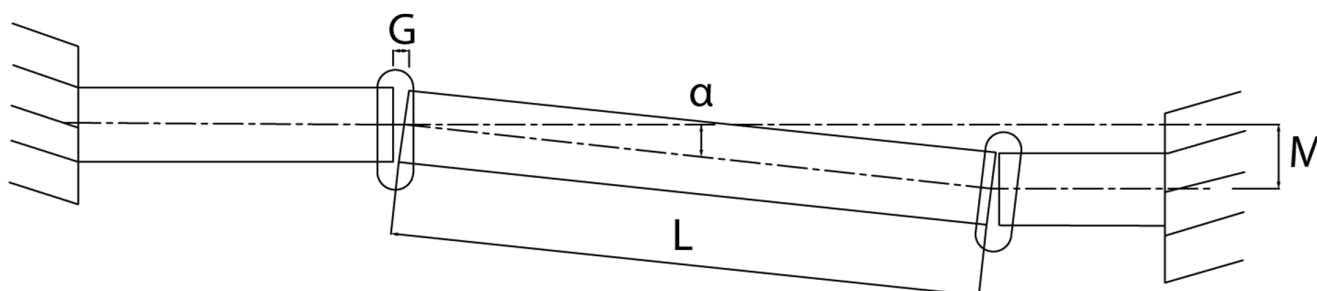


## ALLOWABLE DEFLECTION FOR FLEXIBLE COUPLINGS

At installation, if needed, each flexible coupling allows for deflection by a limited angle. Please respect the maximum values for angulation 'alfa' in the table below \*.

Nominal diameter		Angular deflection (+/-)	
DN mm	Ø O.D.	$\alpha$ (°)	M* mm
25	33,7	2,3	40
32	42,4	2	34
40	49,3	2	34
50	60,3	1,5	26
65	76,1	1	17
80	88,9	1	17
100	114,3	1	17
125	139,7	1	17
150	168,3	1	17
200	219,1	1	17
250	273,0	0,5	8

\* when L = 1m



\*When bigger angulation is required, please contact [info@pipinglogistics.eu](mailto:info@pipinglogistics.eu)