



**SLYM : PUSH ON**

**The push-fit type fitting  
for HDPE pipe**



**PUSHON**

The Ideal **PUSHFIT** fittings for PE pipes



- Waterworks
- Irrigation
- Agriculture
- House Service Connection



## **SLYM : PUSH ON** **The push-fit type fitting**

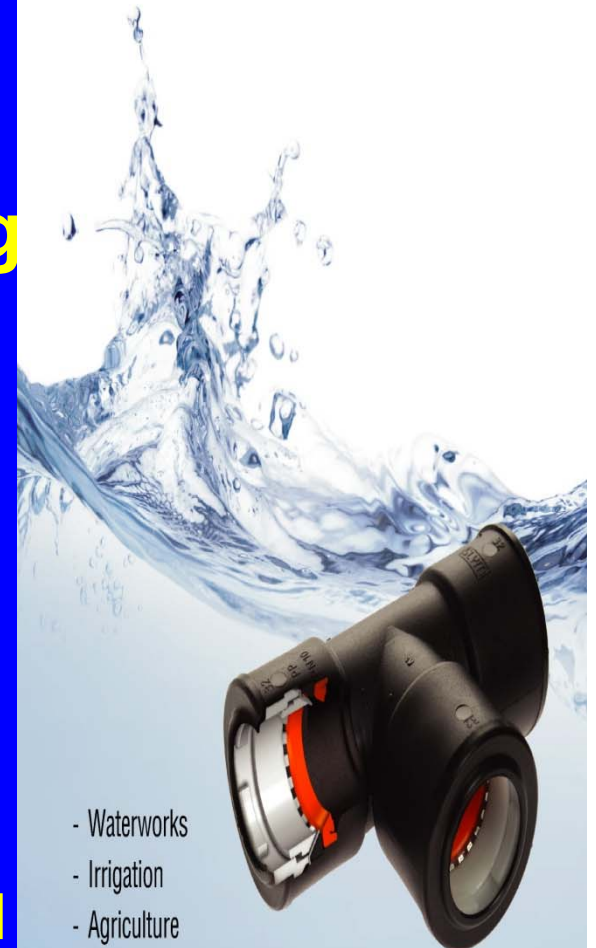
### **The properties:**

- 1. Compact Design**
- 2. PP-R Material**
- 3. Easy Installation (Just Push by hand)**
- 4. Reusable**
- 5. Cost Effective**
- 6. Non-removable without release key**
- 7. Non adhesive, No special tool required**



# **PUSHON**

The Ideal **PUSHFIT** fittings for PE pipes



- Waterworks
- Irrigation
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## **SLYM : PUSH ON**

**It is made of Polypropylene Random Copolymer (PP-R), the quality material for strength and long lasting.**

**It is compatible with polyethylene pressure pipes for water supply application that produced in accordance with ISO 4427.**



## SLYM : PUSH ON

### HOW IT WORKS

1. Push the pipe to the end, check the mark on the pipe to ensure it reach to the end stop
2. The grab ring's teeth, grab on the pipe surface firmly, the teeth are in opposite direction of the flow. In case of water hammer or tensile stress the teeth will grip the pipe more firmly to prevent pull out.
3. To uninstall, insert the release key into the hole and press it to fold the teeth and pull out the pipe. In case of large fittings press the key and twist the pipe to pull out
4. Dust cover protects the fitting holes from sediment







## DO



Cut pipe square by the pipe snipper, then chamfer the pipe end with the chamfer tool. A must do



Mark the pipe by measuring at the pipe depth line on the fittings.

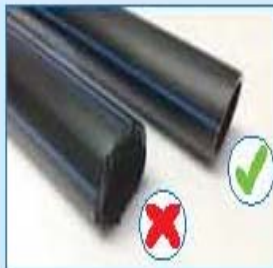


Push the pipe into the fittings until it reaches the mark.

## DON'T



Avoid using saws to cut the pipe, pipe snipper is recommended



Deburring, chamfering, sanding to rub out the sharp, bur or scratch is a must



## TO UNINSTALL



Take off the Dust Cover.



Snap the release key on the pipe and align the pins with the holes around the backup sleeve.

Cut pipe square



**SLYM : PUSH ON**

## **Easy Connections**

**Push on is heat free without having to solder, crimping, clamps, unions, glues or special tools needed.**



**SLYM : PUSH ON**

## **Full Flow**

**Push on has compact size without reducing inner bore to allow full flow resulting low working pressure.**



**SLYM : PUSH ON**

**Reusable**

**It can be easily removed and able to reused when required.**





**SLYM : PUSH ON**

## **Fraud / Steal of water**

**This type fitting is designed to enable prevent *fraud / steal of the water.* With the safety concept that “*Non-removable without release key*”**

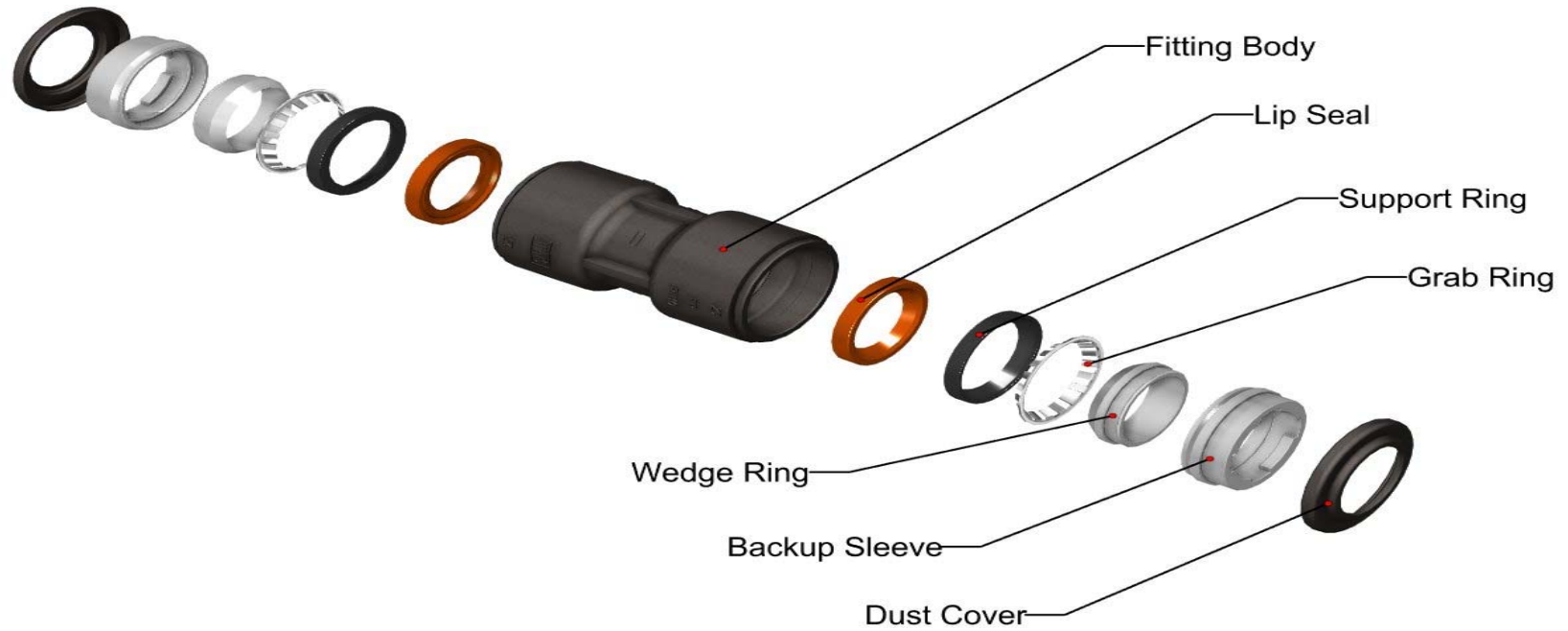


## **SLYM : PUSH ON**

**SLYM : “Push on” has high UV Resistance for outdoor, cold water application such as waterworks, agriculture, irrigations & golf course.**

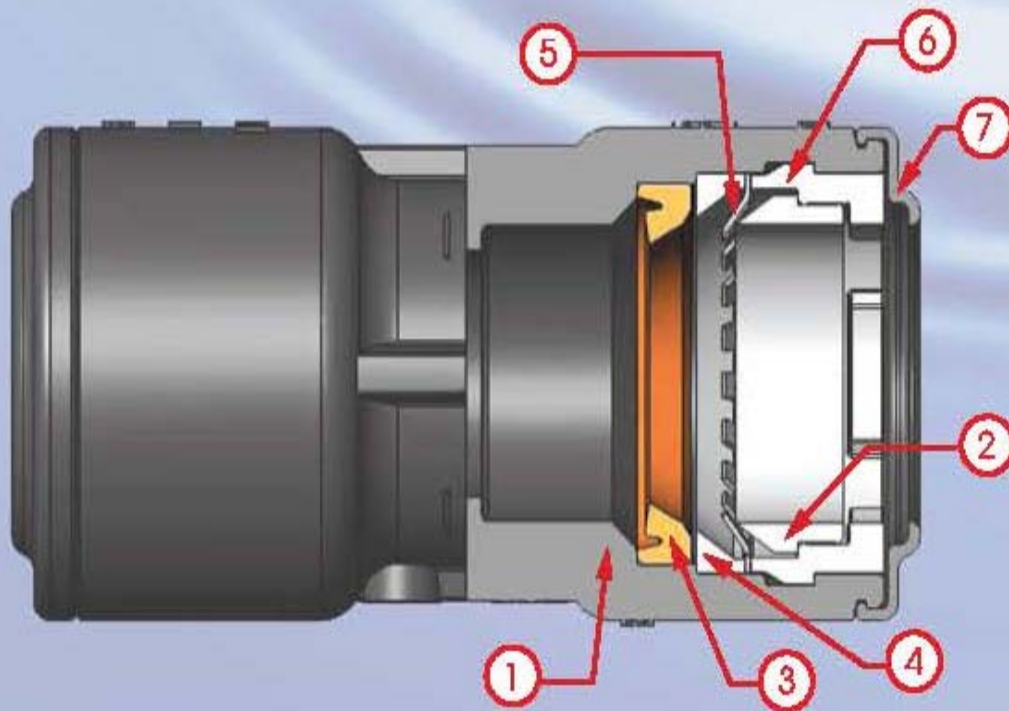


# SLYM : PUSH ON Components





## SLYM : PUSH ON Parts of push on fitting



No.	Part Name	Material
1	Fitting Body	PP-R
2	Wedge Ring	POM
3	Lip Seal	EPDM
4	Support Ring	PP
5	Grab Ring	Stainless Steel
6	Backup Sleeve	POM
7	Dust Cover	PP-R



**SLYM : PUSH ON**

**High Impact Resistance**

**It is recommendable to install on the  
concrete wall, underground**



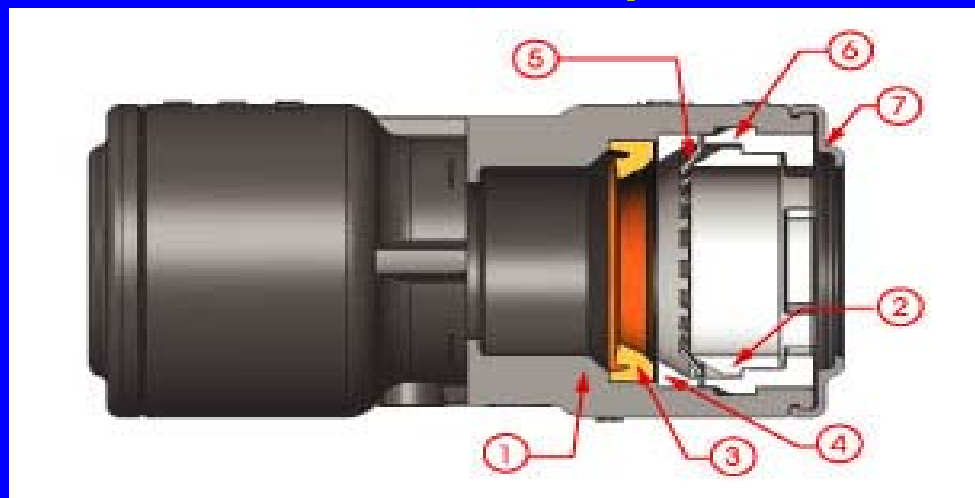
**SLYM : PUSH ON**

**Lip Seal is made of “EPDM” synthetic rubber which has high resistance to acid, water and many kind of chemicals when compared with “NBR”**



## SLYM : PUSH ON

**GRAB RING (stainless steel 304)** is designed to grab (hold) the pipe firmly to prevent pipe slip in case of water hammer pressure and tensile force







**SLYM : PUSH ON**

**Dust Over protects the fitting holes  
from sediment & wet cement.**



## **SLYM : PUSH ON Specification**

**It is mechanical joint fitting for pressure piping systems which tested according to ISO 17885.**

### **Working Condition**

<b>Cold Water</b>	<b>20<sup>0</sup>C</b>	<b><u>16 bar (for size 20 – 50mm)</u></b>
<b>Cold Water</b>	<b>20<sup>0</sup>C</b>	<b><u>12.5 bar (for size 63mm)</u></b>



## **SLYM : PUSH ON**

- **The available sizes 20mm - 63mm with 18 types fitting.**
- **Both metal thread and plastic thread can be provided.**

# Comparison push on & compression

<u>Properties</u>	<u>Push on</u>	<u>Compression</u>	<u>Remark</u>
1. Type of fitting	Push - fit	Compression Push-fit	Push on is easy to install (without tool). Tighten & loosen isn't required, just push by hand. But the installation of compression need to have the tool such as wrench for cap
2. Design	Compact	Bulky	Compact design is recommendable to install on the concrete wall, underground. Whereas, the bulky design is more difficult to install on the concrete wall, underground.
3. Strength	Excellent PP-R material)	Good (PP material)	Push on fitting is made of PP-R material, the quality material for strength and long lasting when compared to PP.
4. Compatibility to pipe	ISO 4427	ISO 4427	Both type of fittings are suitable for HDPE Pipe for cold water application.
5. Components			
- Wedge Ring	Material: POM	Material: PP	PP is less strength when compare with POM
- O-Ring seal	Material: EPDM	Material: NBR	EPDM has high water resistance, whereas NBR become deteriorate when contact with water. So it causes leakage. After short period of time, compression fitting which are installed underground or invisible area. The leakage can be found by engineers
- Grab Ring	Stainless steel 304	PP	PP is less strength when compare with stainless steel 304

# Comparison push on & compression

Properties	Push on	Compression	Remark
6. Dismantling	No	Yes	Most of compression fittings are dismantling design, fault assemble could be occurred at job site, resulted leakage
7. Safety	Non-removable without release key	Removable	Compression fittings can be loosen easily by hand.  unlike push on fitting which is designed to enable prevent fraud / steal of the water. To uninstall (or remove) , must use the "release key" only. Without release key, can not remove.
8. Re-usable	Yes, with safety	Yes, without safety removable	
9. Chemical Resistance	Excellent, non toxicity	Excellent, non toxicity	
10. Efficient	Full Flow	Full Flow	No tensile stress, No water hammer