



# HD-PE pipe systems – introduction and basic elements

Guest speaker: Razvan Stefanescu  
Business Manager Balkan and Adriatic Region  
Plasson Valves and Fitting Division

# Summary – Theoretical part

1. Access to potable water – basic human need
2. HD-PE pipe systems vs “classic” pipe systems
3. Production of Electrofusion, Compression and Butt-welding Fittings
4. Basics of fabrication: Injection molds (fittings) and extruder lines (pipes)
5. Quality control
6. Main application fields (water & gas supply, waste water, irrigation etc)
7. Worldwide solutions
8. Anatomy of a compression fitting
9. Anatomy of a push fitting
10. Anatomy of an electrofusion fitting
11. HD-PE pipes: pressure rates, SDR
12. Standards and norms
13. Waste water systems and product range
14. Assembling and fusion methods
15. Electrofusion process, machines and tools
16. Butt-fusion process, machines and tools
17. Installations around the world



During the presentation the following animated movie clips (3-4 min each) shall reinforce the theoretical part of the presentation

a. The new generation of mechanical fittings: push fittings

b. Compression fittings

c. Slip repair couplers

d. Electrofusion fittings

d1. Electrofusion explained step by step

d2. Tapping saddles and valves

d3. Large bore saddles

d4. Adjustable elbow

d5. Large diameter electrofusion couplers

d6. Wastewater products



# Summary – practical part

- Live presentation of assembling push and compression fittings
- Preparation of the HD-PE pipes for electrofusion and butt-welding
- Electrofusion welding machine and tooling – live EF welding

