PRODUCT SPECIFICATION

SOCKET FUSION FITTINGS



For Water And Gas

1. FEATURES

Manufacturer	NUPIGECO SpA		
	Via Stefano Ferrario , snc-Z.I. Sud-Ovest		
	Loc. Sacconago-21052 Busto Arsizio (VA) - ITALY		
Brand name	ELOFIT		
Type of accessory	COUPLER, TEE, REDUCED TEE, REDUCER, CAP,		
	45°ELBOW, 90°ELBOW		
Sizes	³⁄₄'' to 2'' IPS – SDR11		
Resin	PE3408 / PE4710 / PE100 BLACK VIRGIN HDPE		
	HDB 1600 psi , 73°F (Ref.Std. ASTM D2837)		
	Cell Classification 445574C (Ref.Std. ASTM D3350) NSF 61 Listed		
Reference Standards	ASTM D2513 Standard Specification for Polyethylene (PE) Gas		
	Pressure Pipe, Tubing, and Fittings.		
	ASTM D2683 Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter- Controlled Polyethylene Pipe and Tubing.		
	ASTM D3350 Standard Specification for Polyethylene Plastics Pipe and Fittings Materials.		
	AWWA C901 AWWA Standard for Polyethylene (PE) Pressure Pipe and Tubing, ¹ / ₂ In. (13 mm) through 3 In. (76 mm), for Water Service.		
	PPI TR-19 Chemical Resistance of Thermoplastics Piping Materials.		

2. APPLICATION

Use	ON PRESSURE PIPE CONFORMING TO ASTM F714, D2513, D3035 NATURAL GAS, WATER, CHEMICALS (Ref. PPI TR-19)			
Compatibility				
Operating temperature	MAX 140°F DERATING FACTORS FOR PRESSURE MUST BE CONSIDERED WHEN TEMPERATURE IS ABOVE 73°F			
Pressure rating	Te rating DEPENDS ON FLUID, SDR, DESIGN FACTOR REFER TO TABLE			

PRESSURE RATING (psi) at 73°F					
SDR	Water (0.63 DSF)	DSF) Water (0.5 DSF) Gas (0.32 DSF) Gas (0.4 D			
11	200	160	100	125	
13.5	160	125	80	100	
17	125	100	65	80	



PRODUCT SPECIFICATION



2/2

PE4710 Fittings For Water And Gas

3. INSTALLATION

The fittings referred in the present Product Specification are intended to be installed by the Socket Heat Fusion method. Refer to ASTM F2620 for installation. Fusion jointing must always be performed by qualified persons, through the use of equipment conforming to ASTM F1056. Pressure testing after installation must be executed according with ASTM F2164 or Company's procedures.

Weldability	SOCKET HEAT FUSION WITH PE RESINS CONFORMING TO ASTM D3350			
Fusion range	SDR11, SDR13.5, SDR17			
Installation conditions	AMBIENT TEMPERATURE: 23°F to 104°F			
Reference Standards	ASTM D2657 Standard Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings.			
	ASTM F2620 Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings			
	ASTM F1056 Standard Specification for Socket Fusion Tools for Use in Socket Fusion Joining Polyethylene Pipe or Tubing and Fittings.			
	ASTM F2164 Standard Practice for Field Leak Testing of Polyethylene (PE) Pressure Piping Systems Using Hydrostatic Pressure			

4. PRODUCT TESTING

CHARACTERISTIC	TEST METHOD	REQUIREMENT	
Dimensions, aspect, marking	arking ASTM D2122 Conformity with ASTM D2513 and D2		
Hydrostatic strength	ASTM D1598	Failure > 170 h, 80°C, 670 psi (hoop stress) Failure > 1000 h, 80°C, 580 psi (hoop stress)	
Pressure burst test	ASTM D1599	Failure after 60-70 s, 2520 psi (hoop stress)	

5. STORAGE AND WARRANTY

Store in a dry place, away from direct sun exposure and UV rays, with temperature in the range 0°F – 120°F. Avoid shocks and stresses, avoid contamination with water and chemicals. Remove the fitting from packaging immediately before installation. Fittings are guaranteed in stock for 10 years before installation, if stored properly.

THIS SPECIFICATION SUPERCEDES ALL PREVIOUS PRODUCT SPECIFICATIONS.

M001SF	0	Release	10/29/12	M. Rossi <u>technical manager</u>	R. Barbera	B. Wheeler PRODUCT RESP.
DOC.	REV.	DESCRIPTION	DATE	AUT.	VERIF.	APPROV.

