FITTINGS FOR POLYETHYLENE PIPE

Data sheet LINE 4500

Compression fittings with female nut

GENERAL FITTINGS

Contents

LINE 4500

Compression fittings with female nut

DESCRIPTION

Compression fittings with female nut for Polyethylene pipe [LINE 4500] are suitable for the supply of drinking water, for irrigation installation (PEBD), sanitary systems and in the gas fuels conveying and distribution (LDPE-PEHD). They are also suitable for any kind of sanitary installation such as domestic, commercial, industry and farming and with any type of non-corrosive fluid.

ADVANTAGES

- Complete offer
- Suitable both for drinking water and gas
- Quick and easy installation
- Raw materials complying with UBA LIST

FIELDS OF APPLICATION

APPLICATIONS		T. min.	T. max	T. of the system	Max. pressure
	drinking water	-20°C	+80°C	-20°C/+40°C	16 bar
	sanitary hot water	-20°C	+80°C	-20°C/+40°C	16 bar
	irrigation	-20°C	+80°C	-20°C/+40°C	16 bar
	gas	-20°C	+80°C	-20°C/+40°C	16 bar
-20°C: with the use of glycol in a maximum percentage of 30%					

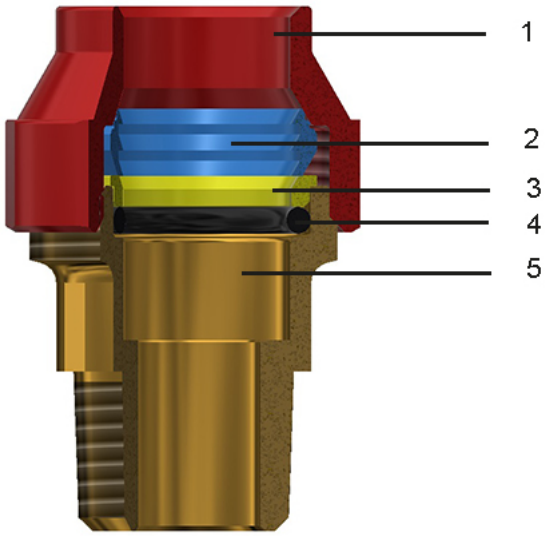
Pipe + fitting system with reference working temperature 20 ° C
PE80-12,5 bar water
PE100-16 bar water
PE80-4 bar gas
PE100-10 bar gas

for temperatures from 20 ° C up to 40 ° C (for water application), use the following pressure reduction factors:
30°C multiply by 0,87
40°C multiply by 0,74

CLOSING COUPLES

Ø	Torque (Nm)
Ø 20	25
Ø 25	34
Ø 32	44
Ø 40	55
Ø 50	60
Ø 63	130

COMPONENTS AND MATERIALS



LEGEND		COMPONENTS	MATERIALS
	1	Nut	Brass CW617N - UNI EN 12165
	2	Cut olive	Brass CW617N - UNI EN 12164
	3	Flat ring	Brass CW617N - UNI EN 12164
	4	O-Ring	Elastomer
	5	Body	Brass CW617N - UNI EN 12165

REINFORCEMENT PART COMPATIBILITY

APPLICATION	Code	Suitable pipe				
		DN	Thickness min.	Thickness max.	SDR	PE / PN
ONLY FOR GAS	480094H2000G1H	20	3.0	3.4	11	100 / -
ONLY FOR GAS	480094H2500G1H	25	3.0	3.4	11	100 / -
ONLY FOR WATER	480094H200000H	20	2.0	2.3	11	100 / 16
ONLY FOR WATER	480094H250000H	25	2.3	2.7	11	100 / 16
BOTH FOR WATER AND GAS	480094H320000H	32	3.0	3.4	11	100 / 16
BOTH FOR WATER AND GAS	480094H400000H	40	3.7	4.2	11	100 / 16
BOTH FOR WATER AND GAS	480094H500000H	50	4.6	5.2	11	100 / 16
BOTH FOR WATER AND GAS	480094H630000H	63	5.8	6.5	11	100 / 16

AVAILABLE DIMENSIONS

The fittings of SERIE 4500 are available from 20 to 63 diameter.
For the complete list of available items refer to the catalogue or visit the website www.generalfittings.it

SUITABLE PIPES

Polyethylene pipes.

REGULATIONS

• UNI EN 12201-3
Fittings comply with UNI EN 12201-3 law: “Plastic piping systems for water supply”

• UNI EN 10226-1
Threads comply with UNI EN 10226-1 law: “Piping thread for coupling on the thread”

• D.M. 174 (06/04/2004)
Raw materials used are of high quality and comply with the Ministerial Decree N°174 dated 06/04/2004 concerning the materials and the items used in fixed installations for water collection, treatment and supply.

• UNI EN 1254-3
Fittings comply with UNI EN 1254-3 law: “Sanitary fittings for plastic pipes with compression ends”

• Comply with 4MS, UBA List (BC group), DIN 50930/6 Dir. 2011/65/UE, 6C attachment III (RhOSII)

• Comply with DVGW DW335-B4 (P)

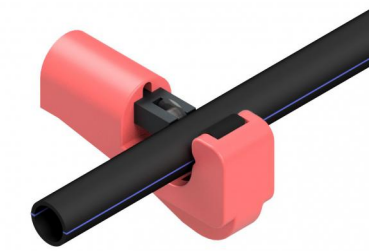
• Comply DVGW G5600-1 (P)

CERTIFICATIONS

COUNTRY	CERTIFICATION	COUNTRY	CERTIFICATION	COUNTRY	CERTIFICATION
					
					
					

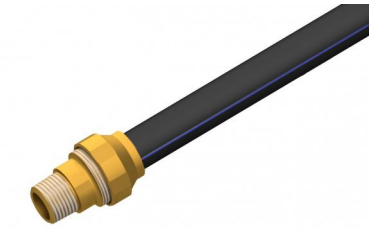
ASSEMBLY

Mark and cut the pipe perpendicularly to its axis using an appropriate pipe-cutting tool [code TT50.00] or a saw with fine springs. The pipe has to be marked in order to let it sort out at the end of its seat once inserted in the fitting and before screwing the nut. The pipe has to be fettled to avoid O-Ring damages. Remove possible residual burr.

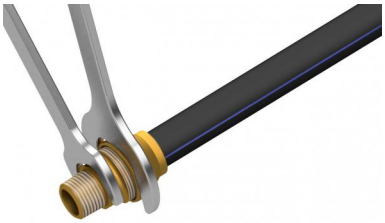


Insert the components on the pipe according to sequence that follows: nut, cut olive (external surface marks have to be directed forward the nut and not forward the fitting), compression ring and gasket (and at the end the sleeve, where expected)

Place the pipe and the components in the fitting, blocking manually the system with the nut screwing. Close the nut using a fixed spanner o a suitable tool giving a screwing coupling as shown in the table [previous page]



It's suggested to check the nut closing after a seal and pipe adjustment period [24h].
N.B. if the fittings are used for gas application, before installing the pipe in the fitting, remember to position the appropriate reinforcement part (supplied only on customer request).



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