

DECLARATION OF PERFORMANCE (DoP)

DC-PSP-001-ENG – Rev.02

**“ARIES” flexible hoses for gas****Identification of the product-type:** “ARIES” corrugated safety metal hose assemblies:

- nominal dimension: DN 12;
- nominal lengths: 500 mm, 750 mm, 1000 mm, 1250 mm, 1500 mm and 2000 mm;
- type: 1 (without additional component limiting the bending radius);
- versions:
 - female / female with ISO 228 G 1/2 swivel nuts,
 - male / female with EN 10226 R 1/2 taper male end and ISO 228 G 1/2 swivel nut,
 - male / female with EN 10226 R 1/2 swivel taper male end and ISO 228 G 1/2 swivel nut.

Intended use: connection of domestic appliances, inside and outside, using gas (natural gas / methane and LPG) at a pressure lower than 0,5 bar, also in installations in areas subjected to reaction to fire regulations.

Manufacturer: PSP S.r.l. - via Mincio 20/1 - I 20139 Milano.

Harmonised standard: EN 14800 : 2007 "Corrugated safety metal hose assemblies for the connection of domestic appliances using gaseous fuels".

System of assessment and verification of constancy of performance: systems AVCP 1 and AVCP 3.

Notified bodies: notified product certification body Istituto Giordano S.p.a. (notification number: 0407; Certificate of Constancy of Performance 0407-CPR-1133 / IG-019-2016); notified testing laboratories Istituto Giordano S.p.a. (notification number: 0407; Test Reports 319731/8774/CPR, 322733/8964/CPR, 322735/8965/CPR, 316637/8481/CPR, 316638/8482/CPR and 316639/8483/CPR) and DBI – Gastechnologisches Institut gGmbH (notification number: 1721; Test Report B15/08/1995).

Declared performances: see annex A.

The performance of the "ARIES" flexible hoses for gas product is in conformity with the set of declared performances.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of PSP S.r.l.

Milan, 27th July 2018The Chief Executive
(Giuseppa Sanfilippo) 1/1

ANNEX A

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“ARIES” flexible hoses for gas



DECLARED PERFORMANCES

Requirement / characteristic	Performance	Reference to EN 14800 : 2007
Reaction to fire euroclass	C - s1, d0	5.11
Crushing strength:		
- impact/crushing resistance	> 29,4 J	5.17
- crush test on the fittings	> 400 N	5.19.2.2
Internal pressure strength	> 6 bar	5.4
Longitudinal bending strength:		
- bending resistance	> 50 cycles	5.14.1
- flexing resistance	> 10000 cycles	5.15
- torsion resistance	> 10000 cycles	5.16
Maximum load for admissible deformation:		
- tension resistance	> 1000 N	5.7
- suppleness	pass	5.13
Dimensional tolerances of the fittings	pass	5.19.1
Impact resistance of the fitting	> 25 cycles	5.19.2.1
Penetration resistance	> 3,9 J	5.18
Electrostatic behaviour:		
- electric insulation	pass	4.8
- electric resistance	< 1 Ω /m	5.6
Tightness	< 10 cm ³ /h (< 7×10 ⁻³ mbar l/s)	5.3
Effectiveness:		
- flow rate with a pressure drop of 0.5 mbar	1,2 m ³ /h	5.5
- flow rate with a pressure drop of 1 mbar	1,6 m ³ /h	5.5
Mechanical strength:		
- structural strength	> 6 bar	5.4
- tension resistance	> 1000 N	5.7
- torque test on the fittings	> 100 N m	5.19.3
Release of dangerous substances	no release	4.12
Permeability	< 10 cm ³ /h (< 7×10 ⁻³ mbar l/s)	5.3
Tightness in case of fire	< 150 dm ³ /h (650°C, 30 min)	5.12
Durability:		
- corrosion resistance	pass	5.10
- characteristics of the materials	pass	4.3
- welding of the fittings	pass	4.4
- design of the fittings	pass	4.5
- durability of marking	pass	5.8
- resistance to working temperature	pass	5.9
- resistance to high temperature	pass	5.12
- bending resistance	pass	5.14.1
- flexing resistance	pass	5.15
- torsion resistance	pass	5.16
- torque test on the fittings	pass	5.19.3

Milan, 27th July 2018

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(Giuseppa Sanfilippo)



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