Augsburgstraat 29
3047AA Rotterdam
The Netherlands
+ 31 10 23 80 540
info@refflex.com

DECLARATION OF CONFORMITY
EN1736 PERMIABILITY, PRESSURE, BURST and FATIGUE

European Standard EN1736:2009

This document is a declaration of conformity to the European Standard EN1736:2009 of **REFFLEX® thermoplastic flexible hoses.**

Manufactured in commission by REFFLEX® International B.V., REFFLEX® hoses are to be used as a connection between pressure gauges, pressure switches, pressure test points, oil return line and for equalisation systems in commercial refrigeration and heat pump units.

UNI EN 1736:2009 determines the permeability, pressure strength, bursting pressure and fatigue resistance of flexible elements used in refrigerating systems and heat pumps.

The test has been performed on the following REFFLEX® products:

DN5 hose with stainless steel fittings

With the following results:

Permeability
- At 100 C and 130 bar, the permeability is class 1

Pressure strength
- At a pressure of 104 bar, 169 bar and vacuum no damage or breakage detected

Bursting pressure
- Average burst pressure DN5 hose: 504 bar

Fatigue resistance
- After 250.000 cycles at 0 to 88 bar at 115 C and 0 to 143 bar at 130 C no damage or breakage detected

REFFLEX® products were tested by Instituto Giordano (Italy) in October 2022, reported with test certificate 401450, dated 7 November 2022, and test certificate 399999, dated 22 November 2022. Full test results available upon request.

REFFLEX® International B.V.
Roald Tichelaar MBA
C.E.O.

Rotterdam, 22 November 2022

TECHNICAL REPORT No. 401450

this document cancels and replaces technical report No. 399999 dated 30 November 2022 issued by Istituto Giordano [(1)]

Customer

REFFLEX INTERNATIONAL B.V.

Augsburgstraat, 29 - 3047AA ROTTERDAM - The Netherlands

Item[#]

pipes named
"DN5 with stainless steel fittings"

Activity

permeability test in accordance with standard UNI EN 1736:2009

Results

Item	Class
DN5 with stainless steel fittings	1

Variation list

Number	Description
(1)	Subdivision of the original report into two distinct reports based on the model

(#) according to that stated by the customer.

Bellaria-Igea Marina - Italy, 13 January 2023

Head of PED-Welding-NDT Laboratory
(Dott. Ing. Luca Bonini)

Chief Executive Officer

Order:
93441

Item origin:
sampled and supplied by the customer

Identification of item received:
2022/1841 dated 2 August 2022

Activity date:
from 7 November 2022 to 11 November 2022

Activity site:
external laboratory qualified by Istituto Giordano

Compiler: Agostino Vasini
Reviewer: Dott. Ing. Luca Bonini

ISTITUTO GIORDANO S.p.A. Via Gioacchino Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italia - Tel. +39 0541 343030 - istitutogiordano@giordano.it - www.giordano.it
Cap. Soc. € 1.500.000 i.v. - R.E.A. c/o C.C.I.A.A. (RN): 156766 - Registro Imprese Romagna (Forlì-Cesena e Rimini) e CF/P. IVA: n. 00 549 540 409