

Derby/EN 45545

Delivery hose for water and cooling liquids



Specifications:

EN 45545-2:2020 HL3 R22 and R23.

Application:

softwall hose designed for the delivery of water and cooling liquids in railway applications. Used as a flexible connection in cooling systems, or air conditioning circuits.

According to EN 45545-2
For delivery operations
For cooling systems



Tube:

black, smooth, synthetic rubber, fire resistant.

Reinforcement:

high strength synthetic cord.

Cover:

black, smooth (wrapped finish), synthetic rubber, weathering, ozone, oil and fire resistant.

Temperature:

from -40°C (-40°F) to +120°C (+248°F).

Branding:

continuous white spiral stripe: "RAIL (family logo) Derby/EN 45545 HL3 R22 - R23...".



Derby/EN 45545

Code	Inside diameter		Outside diameter		Working pressure		Burst pressure		Weight nominal		Length max	
	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lbs/ft	m	ft
1503553	8	5/16	15	0,59	4	60	12	180	0,16	0,11	120	400
1420712	9	23/64	16	0,63	4	60	12	180	0,17	0,11	120	400
1459937	10	25/64	19	0,75	4	60	12	180	0,28	0,19	120	400
1421450	13	1/2	20	0,79	4	60	12	180	0,25	0,17	120	400
1418289	15	19/32	22	0,87	4	60	12	180	0,28	0,19	120	400
1418807	18	45/64	25	0,98	4	60	12	180	0,33	0,22	120	400
1411543	20	25/32	27	1,06	4	60	12	180	0,36	0,24	120	400
1392387	22	55/64	29	1,14	4	60	12	180	0,39	0,26	120	400
1403451	22	55/64	31	1,22	4	60	12	180	0,5	0,34	120	400
1435990	25	1	32	1,26	4	60	12	180	0,43	0,29	120	400
1432494	28	1-7/64	36	1,42	4	60	12	180	0,52	0,35	120	400
1394843	32	1-1/4	40	1,57	4	60	12	180	0,59	0,40	120	400
1411560	35	1-3/8	43	1,69	4	60	12	180	0,64	0,43	120	400
1412167	38	1-1/2	46	1,81	4	60	12	180	0,69	0,46	120	400
1503561	40	1-37/64	50	1,97	4	60	12	180	0,98	0,66	120	400
1411551	42	1-21/32	52	2,05	4	60	12	180	1,02	0,69	120	400
1504444	48	1-57/64	58	2,28	4	60	12	180	1,15	0,77	120	400
1416316	50	2	60	2,36	3	45	9	135	1,19	0,80	120	400
1474235	55	2-11/64	65	2,56	3	45	9	135	1,3	0,87	120	400
1392093	60	2-23/64	70	2,76	3	45	9	135	1,41	0,95	120	400

Variants available on request:

1. Different diameters.

SPECIAL DETAILS

WARNINGS AND PRECAUTIONS

Rubber hoses have a service life proportional to their usage.

The equipment and systems where the hose is installed must be designed to ensure safe operation. Given the wide range of possible applications, IVG Colbachini does not guarantee suitability for all specific uses. The selection of the most appropriate product for the intended application, ensuring the required performance and safety standards, is the sole responsibility of the user.

IVG Colbachini shall therefore not be held liable for any use other than those indicated in its catalogues, product data sheets, quotations, order confirmations, or any accompanying recommendations.

Improper product selection and/or use, or failure to comply with installation, operation, maintenance, and storage procedures, may result in hose failure and cause damage to property or personal injury.

IVG Colbachini manufactures and markets both assembled hoses and hoses supplied without fittings.

Assembled Hoses

Before being placed on the market, the hose assembly is subjected by IVG to manufacturing control tests carried out by qualified personnel.

IVG declines all responsibility for any subsequent modifications, disassembly, or reinstallation of fittings performed by the user, as well as for uses that differ from those indicated in the product data sheet or in the absence of maintenance programs and periodic inspections.

Hoses and Fittings as spare parts

The user is responsible for assembling the hose and fittings, ensuring proper hose/fitting compatibility and compliance with the technical specifications for use. It is recommended that the hose assembly be subjected to a pressure tightness test carried out by qualified personnel.

IVG declines all responsibility in this regard.

Precautions

For proper selection and correct use of IVG products, reference should also be made to the recommendations issued by Assogomma, available at www.ivgspa.it, in accordance with ISO 8331 regarding installation, maintenance, methods and duration of use, as well as fitting stability and tightness.

For safety reasons, the working pressure indicated in the product technical data sheet must never be exceeded.

In general, continuous operation at maximum allowable pressure and/or temperature may significantly reduce the hose service life. Regular inspections and hydrostatic testing at the specified test pressure must therefore be carried out. Hydrostatic tests must be performed by adequately trained personnel using suitable equipment and in accordance with recognized testing standards.

For specific applications of rubber hoses, reference should be made to applicable legal requirements or compliance standards. Additional recommendations are available for particularly critical applications. For further information, please contact info@ivgspa.it.