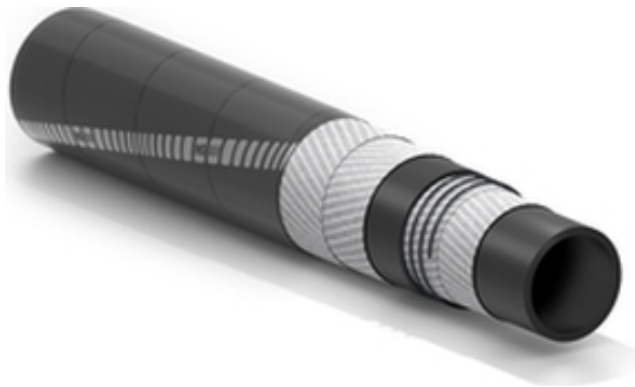


# Providence

## Chemical and solvents suction and discharge, Viton® tube



**Application:**

hardwall smooth hose mainly used in the petrochemical industry for the delivery of a wide range of chemical products with high concentrations, combustible aromatics, hot oils and solvents.

Highly chemical resistant Viton®  
Suction and delivery of chemical products  
Length up to 120 m

**Tube:**

black, smooth, Viton® (FKM) rubber. Chemical resistance according to IVG chart. For temperature exceeding 50°C contact IVG.

**Reinforcement:**

high strength synthetic cord plus helix wire.

**Cover:**

black, smooth, (wrapped finish), CR rubber, resistant to abrasion, weathering, ozone and oils.

**Temperature:**

-25°C (-13°F) +120°C (+248°F) depending on medium.

**Branding:**

continuous violet stripe "IVG Chem (family logo)..."



# Providence



Code	Inside diameter		Outside diameter		Working pressure		Burst pressure		Weight nominal		Bending radius		Vacuum		Length max	
	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lbs/ft	mm	inch	bar	m	ft	
1137310	19	3/4	30	1,18	10	150	40	600	0,74	0,50	85	3,3	0,9	120	400	
1039377	25	1	36	1,42	10	150	40	600	0,92	0,62	110	4,3	0,9	120	400	
1211609	32	1-1/4	47	1,85	10	150	40	600	1,53	1,02	140	5,5	0,9	120	400	
1229648	38	1-1/2	52	2,05	10	150	40	600	1,76	1,18	165	6,5	0,9	120	400	
1230816	51	2	69	2,72	10	150	40	600	2,74	1,84	250	9,9	0,9	120	400	
1229656	63,5	2-1/2	81,5	3,21	10	150	40	600	3,3	2,21	320	12,6	0,9	120	400	
1229672	76	3	95,5	3,76	10	150	40	600	4,26	2,86	360	14,2	0,9	120	400	
1229699	102	4	123	4,85	10	150	40	600	6,31	4,23	612	24,1	0,9	120	400	

**Variants available on request:**

1. Different diameters
2. Different working pressures.

**Recommended Couplings:**



Flanges

## SPECIAL DETAILS

### SAFETY INSTRUCTIONS FOR HOSES INTENDED FOR CHEMICAL APPLICATIONS

#### INTRODUCTION

The chemical resistance of a hose is closely related to the medium conveyed and to the conditions of use. In particular, remember to check the chemical resistance of the elastomer that constitutes the inner tube in the table found on the IVG website (<https://www.ivgspa.it/en/chemical-resistance.aspx>).

The useful life of the product is seriously influenced by the conditions of use such as temperature and pressure, as well as delivery speed, abrasion, frequency, and duration of use. The age of the hose and the degree of impurities of the transported chemical product are also determining factors.

#### USE

Particular care must be taken to ensure that the cover and ends of the hose don't come into contact with the chemicals and/or elements that may damage the integrity of the hose.

All operators involved in the use and maintenance of the hose and its fittings must be adequately trained on the proper use of chemicals. They must also wear appropriate protective clothing and devices.

A system failure could cause the release of toxic, corrosive and/or flammable material.

If you use chemical products or mixtures that differ from what is listed in the IVG chemical resistance chart please contact IVG before use. You are also advised to contact IVG if the nature or composition of the product to be conveyed, for example concentration or temperature, do not correspond to indications given by IVG. [www.ivgspa.it/resistenze-chimiche.aspx](http://www.ivgspa.it/resistenze-chimiche.aspx)

#### FITTINGS

We recommend using fittings in materials suitable for the conveyed product. Pay particular attention to the combination between different materials if their contact can produce galvanic corrosion (e.g. aluminum - brass). Any small variation in concentration or temperature of the conveyed product can determine an important reduction of the mechanical characteristics of the metallic fitting. In case of doubts about the choice of the appropriate fitting please contact IVG Colbachini (<https://www.ivgspa.it/en/contacts.aspx>).

#### INSPECTION AND MAINTENANCE

Even if the use of the product complies with all the prescriptions reported in this document and in the attached sheets, all the materials used for the hose production suffer a natural aging with subsequent loss of the chemical-physical-mechanical characteristics. Hoses and fittings must be carefully inspected preferably before each use and in any case with a periodic frequency not exceeding 6-12 months. This will help prevent possible leakage of polluting substances, dangerous for the health of man and the environment.

It is important during these periodic checks to pay attention to the state of the hose and fittings. Any anomalies that are detected indicate a degraded state of the hose and determine its removal from service.

#### Main anomalies detectable on hoses:

- cracks, cuts, abrasions, detachments, tears of the cover with damaged or uncovered areas of reinforcement
- deformations, bubbles, specific swelling under pressure
- sticky or soft areas
- leaks

#### Main anomalies detectable on fittings:

- cracks or signs of corrosion on the metal parts
- worn gaskets
- sliding of the fitting on the hose
- leaks

Avoid stagnation of products in the hose, especially in the case of solutions or emulsions. The resulting decanting causes concentrations to exceed the allowed limits. To avoid this phenomenon, proceed with emptying and cleaning after each use where possible.

## SPECIAL DETAILS

### SAFETY INFORMATION – USER RESPONSIBILITIES

The service life of rubber hoses mainly depends on the dedicated use. Equipment and systems where the hose is installed must be designed safely. Since our hose can be designed for different applications, **IVG Colbachini** cannot guarantee the proper functioning of the product for all situations.

The analysis of the technical aspects related to specific uses must be performed by the users when choosing the product that meets their requirements. So, in relation to the variety of operating conditions and applications of the IVG hose, the user is solely responsible for the final choice of the product deemed suitable to satisfy the performance and safety requirements called for the application.

The information and technical data shown in the product data sheets must be examined by users with appropriate technical skills. IVG Colbachini is not responsible for other uses, identified by the end user, that are different from the one shown in its catalogues, product sheets, offers, order confirmations and any recommendations attached.

An inappropriate choice of the product or a failure to follow the procedures of installation, use, maintenance and storage of the hoses may lead to a hose break and cause material damage and/or serious injury to people.

For the selection and proper use of the IVG products you can also refer to the document "Recommendations for selection, storage, use and maintenance of rubber hoses" provided by Assogomma and available on [www.ivgspa.it](http://www.ivgspa.it). These recommendations are according to the international standard ISO 8331, "Plastic and rubber hoses and hose assemblies - Guidelines for selection, storage, use and maintenance."

**For safety reasons, never exceed the working pressure indicated in the product data sheet.**

For specific applications of rubber hoses, please refer to the legal requirements or specific standards; moreover, additional recommendations for particularly critical applications are available.

For further information, contact the Marketing department ([marketing@ivgspa.it](mailto:marketing@ivgspa.it)).