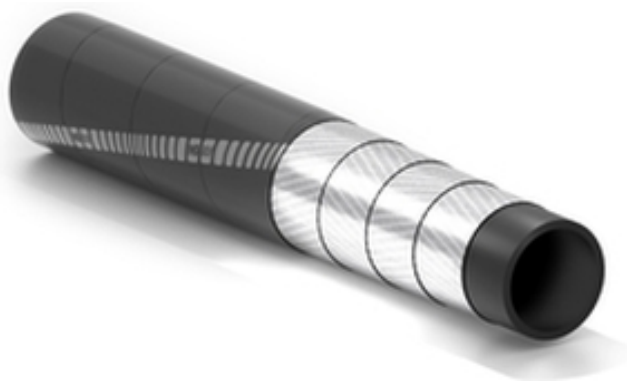


# Shannon 85



Concrete placement hose - 4 steel plies, 85 bar



**Specifications:**

ASME B30.27-2014 (specific branding is required).

**Application:**

steel cord hose used for concrete placement at casting locations; it is used at the end of the pumps to distribute the concrete. The hose resists suction during the cleaning process. Usually supplied with swaged on "Full flow" hardened couplings.

Designed for extreme operating conditions  
High abrasion resistance allowing an extended service life  
Robust construction



**Tube:**

black, smooth, NR/SBR rubber, that withstands the abrasive action of the concrete.

**Reinforcement:**

plies of steel wire cord.

**Cover:**

black, smooth (wrapped finish), NR/SBR rubber, abrasion and weathering resistant.

**Temperature:**

from -40°C (-40°F) to +70°C (+158°F).

**Branding:**

continuous red stripe "IVG Abr (family logo)...".



# Shannon 85



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
1350498	51	2	75	2,96	85	1275	200	3000	3,87	2,60	380	15,0	0,8	60	200
1347470	65	2-9/16	89	3,51	85	1275	200	3000	4,72	3,17	400	15,8	0,8	60	200
1415620	76	3	100	3,94	85	1275	200	3000	5,42	3,64	400	15,8	0,8	60	200
1350030	80	3-5/32	108	4,26	85	1275	200	3000	6,32	4,25	450	17,7	0,8	60	200
1357921	85	3-11/32	114	4,49	85	1275	200	3000	6,89	4,63	500	19,7	0,8	60	200
1412078	100	3-15/16	124	4,89	85	1275	200	3000	6,87	4,62	550	21,7	0,8	60	200
1340255	100	3-15/16	128	5,04	85	1275	200	3000	7,66	5,15	550	21,7	0,8	60	200
1412086	125	4-59/64	150	5,91	85	1275	200	3000	8,69	5,84	700	27,6	0,8	60	200
1346547	125	4-59/64	153	6,03	85	1275	200	3000	9,44	6,34	700	27,6	0,8	60	200

### Recommended Couplings:



Lever and plaster pump accessories

## SPECIAL DETAILS

### HOSE ASSEMBLIES ABR SHANNON 85

Parts of the hose assemblies are the hose and the couplings.

Depending on the application, hoses may have just one or both coupled ends.



hose end



connection hose

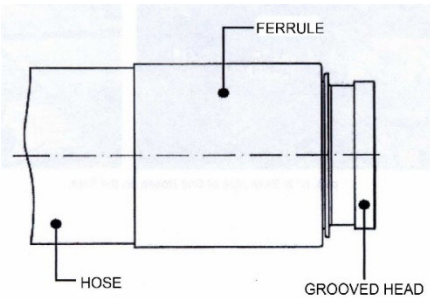


end hose in use



connection hose in use

### COUPLINGS



End couplings are made of hardened carbon steel.

The "full flow" swaging on procedure provides a low resistance to flowing of concrete during working operations.

### IDENTIFICATION MARKING

A continuous spiral red brand through all the length of the hose identifies the maximum working pressure [bar and psi].



An engraved marking on the ferrule identifies batch number and year of production.



## SPECIAL DETAILS

### MAINTENANCE AND INSTRUCTIONS FOR THE CORRECT USE

#### Inspection.

Both prior to and during usage, we suggest that regular controls are carried out on the rubber tube and on the fittings by an adequately prepared staff person.

The controls to make on the rubber are necessary to verify any anomalies, such as:

- the condition of internal abrasion;
- the separation of the ferrule from the tube;
- the presence of bubbles, cuts, or abraded areas that may indicate a break in the reinforcement layers;
- the presence of old concrete on the inside.

On the fittings, the controls are to verify:

- any breaks, dents, holes or deformations of the components;
- presence of old concrete especially on the inside the gasket cavity that can preclude its use;
- that the fittings don't show abrasion/erosion signs.

#### Instruction.

Periodically it is necessary to reverse the two ends, creating a progressive rotation of the hose of 180° on its own axis.

The degree of erosion or abrasion of the assembled length is proportional to the speed and the quantity of the flow and to the type/granulometry of the material conveyed. The bending of the assembled length influences the effects caused by the abrasion of the material: a reduced bending radius favors the abrasion of the tube, reducing consequently the duration of the product.

#### Cleaning.

The assembly must be cleaned after every use with the correct equipment. We suggest carrying out the cleaning operation by sucking a sponge ball from one end to the other.

Compressed air must not be used for the cleaning.

**An incorrect cleaning of the hose could generate occlusions of concrete with possible risks for employees.**

For SAFETY REQUIREMENTS refers to UNI EN 12001 specification: "Conveying, spraying and placing machines for concrete and mortar -Safety requirements."

#### Storage

**Recommendation for correct storage** - Rubber is subject, by nature, to change in physical properties. These changes, which normally occur over the course of time, according to the kind of rubber used, can be accelerated by one particular factor or by a combination of these. Reinforcement materials are also adversely affected by unsuitable conditions of storage. The following recommendations give some precautions to be taken to ensure the minimum deterioration to stored articles.

**Storage life** - Storage time should be reduced to the minimum through programmed rotation. When it is not possible to avoid long term storage, it is necessary that the user, as indicated in ISO 8331, carries out a complete check of the hose before its use according to the following criteria:

- maximum two years storage for assembly;
- maximum four years storage for hoses.

**Temperature and humidity** - The best temperature for the storage of rubber hoses varies from 10 to 25 degrees centigrade. Hoses should not be stored at temperature above 40°C or below 0°C. When the temperature is below -15°C it is necessary to take precautions when handling. Hoses should not be stored near sources of heat nor in conditions of high or low humidity. A humidity level of a maximum of 65% is recommended.

**Light** - Hoses must be stored in dark places, avoiding direct sun light or strong artificial light. Should storerooms have windows or glass openings, these must be screened with suitable filters.

**Oxygen and ozone** - Hoses should be protected from circulating air by suitable packing or by storage in air-tight containers. As ozone has a particularly aggressive action on all rubber products, the store house must not contain material producing ozone like devices under high electrical tension, electric engines or other materials provoking sparks or electric arcs.

**Contact with other materials** - Hoses should not come into contact with solvents, fuels, oils, greases, volatile chemical mixtures, acids, disinfectants, and other organic liquids in general. Furthermore, direct contact with some metals (for example manganese, iron, copper, and its alloys) and relative mixture exercise harmful effects on some types of rubber. Contact with PVC and creosote impregnated timber or fabrics should be avoided.

**Heat sources** - The temperature limits given in point dedicated to temperature and humidity must be respected. When this is impossible, it is necessary to use a thermic shield at a distance not less than one meter.

**Electric or magnetic field** - Variation in electric or magnetic fields must be eliminated in store houses as these could provoke currents in metal coupling, heating them. Similar fields could be caused by high-tension cables or high frequency generators.

**Storage conditions** - Hoses must be stored in a relaxed condition free from tension, compression or other deformation and contact with objects that could pierce or cut must be avoided. It is preferable to store hoses on special shelves or on dry surfaces. Coiled hoses must be stored horizontally avoiding piling. When this is not possible the height of the piles must be such to avoid permanent deformation of hoses stored underneath. The inside diameter of the coil, during the storage, must be such as to not compromise the performances of the products. In particular,



## 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)).