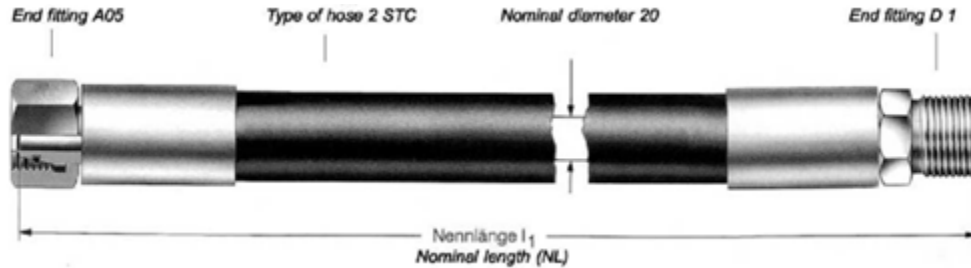


## RUBBER HOSE



### **Introduction:-**

The inside diameter of the hoses must be adequate to keep pressure loss to a minimum and avoid damage to the hose arising as a result of heat generation or excessive turbulence. Hoses outside diameter can be a critical factor when hoses routing clamps are used or hoses are routed through bulkhead, check individual hose specification table for O.D.'S.

Both fluid and ambient temperature must be considered while selecting a replacement assembly. The hoses selected must be capable to withstand minimum and maximum temperature of system. While selecting a hoses for its maximum temperature care should taken that temperature stated is not an intermittent value.

### **APPLICATION: -**

Determine where or how the replacement hose or assembly is le used.

**Equipment Type: -** Most often only a duplicate of the original hose will have to be made. Make sure all the requirements of the application are fulfilled. While selecting hoses, its application should be considered i. e. Static / Moving / Flexing.

**Working Pressure: -** Check individual hose specification table for working pressure. The working pressure or operating pressure is one fourth the hose minimum burst pressure.

**Pressure Surges: -** In hydraulic systems, where pressure surges are severe, increase the safety factor when selecting the proper hoses (safety factor working / burst = 1/5) Conversely, in systems where pressure surges are slight or nonexistent, the normal safety factor must be chosen.

**Environmental Conditions: -** Care must be taken to ensure that the hoses and fittings are either compatible with or protected from the environment to which they are exposed. Environment conditions including but not limited to ultraviolet heat, ozone, moisture, water, salt water, chemical and air pollutants can cause degradation and premature failure and therefore must be considered.

**Mechanical Load: -** External forces can significantly reduce hoses life. Mechanical loads which must be considered include excessive flexing, twist, kinking tensile or side loads, bend radius vibration. Use of swivel type fitting or adaptors may be required to ensure no twist is put into the hoses. Unusual applications may require special testing prior to hose selection.

**Hose Construction: -** Various application may require different hoses constructions. For construction please check individual hose specifications.

## **BRAIDER/ PIGTAIL**



### **Introduction:-**

**AKI** has introduced a new product to its customers SS braiders. This braiders are specially used with AKI GSB to connect it with valve or connecting side. When pressure is applied, unbraided hose tends to elongate axially; to restrain this, an external layer of SS wire braid is provided. The braid also makes the assembly pressure compatible.

Sometimes two or even three layers of braiding are provided for high pressure applications. The braiding is highly flexible and follows the movement of the hose. The braid is normally manufactured in SS 304 wire. However SS 316 and 321 braids can also be manufactured. We also supply wire braid in different configurations as per customer specifications.

### **Material construction**

Ss 304 / SS 316 / SS 316 L

## HOSE CONNECTORS

### **Introduction:-**

**AKI** has wide ranges of hose connectors. Various types of connectors with various sizes are manufactured according to the customers need. We have been providing good quality and cnc machined connectors with very less tolerance of rejection. Here below we mention the list of connectors in brass as well as SS 304, SS 316

	<p>Stainless Steel Hose Connector, Male NPT/BSP X HOSE OD</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>Stainless Steel Hose Connector, TUBE ADAPTOR X HOSE OD</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>Stainless Steel Hose Connector, Female NPT/BSP X HOSE OD</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>Stainless Steel Hose Connector, Tube Fitting OD X Hose ID</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>BRASS Hose Connector, Male NPT/BSP X HOSE OD</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>Brass Hose Connector, TUBE ADAPTOR X HOSE OD</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>Brass Hose Connector, Female NPT/BSP X HOSE OD</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>
	<p>Brass Hose Connector, Tube Fitting OD X Hose ID</p> <p>SIZE OF NPT/BSP - 1/16" TO 1"</p> <p>SIZE OF HOSE OD - 1/16" TO 1"</p>