



# **Pump & Booster Connection Accessories**



# **Spacer Coupling**

In mechanics, spacer coupling is a component that connects the electrical motor shaft to the pump shaft for the rotational motion from one shaft to the other on the same axis.

In fire boosters, spacer coupling enables replacement of the impeller or the mechanical seal easily while keeping the pump connected to the installation when the end-suction pumps in line with EN 12845 and NFPA 20 standards.

#### Spacer coupling is composed of 5 parts:

- 1- Female
- 2- Male
- 3- Extension Spacer
- 4- Chock
- 5- Rubber

The coupling is GG25 cast iron. It is classified based on motor power and speed.

# Flanged Stainless-Steel Non-Return Valve

- Flanged stainless-steel non return valve is exclusively designed with a size of 1"- 11/4" to be used in vertical multistage pumps.
- The exterior is a special 304 stainless steel pipe.
- The interior consists of removable plastic parts.
- Its pressure class is PN25.
- It is extremely easy to assemble and maintain.

# Flanged Stainless-Steel Ball Valve

- Flanged stainless-steel ball valve is exclusively designed with a size of 1"-11/4" to be used in pumps.
- The exterior is a special 304 stainless steel pipe.
- The interior consists of removable plastic parts.
- Its pressure class is PN25.
- It is extremely easy to assemble and maintain.





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# **Blind Plug**

Blind plug is used to cover one end of booster collectors. It is made of chrome plated cast steel. Size ranges from 1'' to 4''.

### **Booster Chassis and Panel Stand**

Booster chassis can be used for one to four pump boosters. Its thickness ranges from 3mm to 8mm. It is made of HRP sheet metal. Following passivation, it is painted with electrostatic spray painting.

The panel stand is used to mount the panels of one to four pump boosters onto the chassis. It is made of squire profile or steel pipe. Following passivation, it is painted with electrostatic spray painting.





# Collectors

- Collectors can be used for two to four pump boosters.
- Their sizes range from  $1\!\!\!\!/4''$  to ND 250 depending on
- the capacity of the booster.They are manufactured using special forming and coating methods.
- Leakage test are applied to all collectors.
- They are made of ST 37 carbon steel, AISI 304 and 316 stainless steel pipes.
- ST 37 carbon steel collectors are treated with special chemicals and chrome coated against corrosion.
- Stainless collectors are electro-polished for resistance to corrosion.





#### **ETNA Pressure Switch**

- PA ETNA pressure switches are designed to enable automatic start and stop function for boosters and water pumps.
- PA-V ETNA are produced for air compressors. These pressure switches with air relief valves are manufactured in a way to enable discharge of air inside the pressure pipe and cylinder head once the compressor stops in order to start the air compressor easily.
- Pressure switches with relief valves are used in air compressors, and pressure switches without relief valves are used in boosters.
- PA-1 pressure switches may be set to have a stopping pressure of 2.5 5 bar, and an operating pressure of 0.5 3.9 bar depending on the stopping pressure.
- PA-2 pressure switches may be set to have a stopping pressure of 7 - 11 bar, and an operating pressure of 3 - 9 bar depending on the stopping pressure.
- PA-3 pressure switches may be set to have a stopping pressure of 11 - 16 bar, and an operating pressure of 4 - 13 bar depending on the stopping pressure.
- PA-4 pressure switches may be set to have a stopping pressure of 4 - 8 bar, and an operating pressure of 1 - 7 bar depending on the stopping pressure.





#### **Danfoss KP 36 Pressure Switch**

Danfoss KP 36 pressure switch is commonly used in industrial applications, especially in regulation, monitoring and alarm systems. It is suitable for use in gas and air. It can drive single-phase AC motors up to 2 kW.

- Differential Pressure Range: 0.7 4 Bar
- Adjustable Pressure Range: 2 14 Bar
- Connection: G 1/4 A
- Gas and air applications
- Shock and vibration resistant



# Float Switch With 5m Cable

Float switch with 5m non-hardening rubber cable is an electrical controller used to keep the water at a specific level in water tanks, pools etc. They are generally used to prevent dry-running of boosters and submersible pumps Dry-running leads to electrical or mechanical failures in pumps. Float switches significantly prevent such failures. It is easy to connect a float switch to the electrical control circuits.

### **Pressure Transmitter**

- Output Signal [mA] [Max]: 20 mA
- Output Signal [mA] [Min]: 4 mA
- Permissible Temperature [Max]: 80 °C
- Permissible Temperature [Min]: 0 °C
- Fluid Temperature Range [Max]: 100 °C
- Fluid Temperature Range [Min]: -20 °C
- Pressure Range: 0 6 bar / 0-10 bar / 0-16 bar
- Body: AISI316L
- Connection Size: 1/4"
- Precision: 1%
- Maximum tolerated pressure: 75 bar







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