



NOVAX Domestic Transfer sets (2 Duty + Assist/ standby)



TYPICAL APPLICATIONS

The base of the pump is in galvanized steel/channel and the manifolds are made of G.I./Copper/SS. Each discharge and suction manifolds will be fitted with 2 numbers gate valve and one non return valve. Two pressure switches, automatic operation) and a pressure gauge are mounted on it.

The control panel is mounted on the base which will have the following

- Very low voltage auxiliary circuit
- Motor switch-on and switch-off are controlled by two pressure switches
- provision to a float switch in the suction of the tank will prevent the pump from dry run
- A device is present that inverts the insertion order of the pumps at every start-up
- Power supply: - 230V, 50Hz single phase
- 400V, 50 Hz three phase
- Direct start-up
- MCB
- ELCB
- Protection rating IP 55
- HAND-OFF-AUTO. switches for each pump
- Circuit breaker protection reset
- LED indicator: - network presence
- motor running
- motor in protection mode (for three phase version only)
- On request, special version control panels like VFD, PLC can be used

FUNCTIONING PRINCIPLES

The discharge or however the delivery of water from the system with the pumps at a standstill, causes the pressure to drop there by enabling the two pump to start with the help of the pressure switch which is set at the minimum pressure (cut in is set by the minimum system requirement). The pump will run until the demand /requirements met (i.e. the pump will run to the max flow rate) pump. If the outlet discharge exceeds the flow rate of a pump, the pressure continues to drop until it causes the closure of the contact of the second pressure switch and the start-up of the third pump. This case the three pumps will run.

When the demand is met (the water requirement is satisfied) the pressure increases and the pressure switch senses the pressure-(cut off is set by the system requirement) and sends signal to control panel to stop the pump.

This cycle will be repeated as per the system pressure requirement

A pressure vessel is also used to regulate the pressure which is mounted on the base or directly mounted on the manifold if the pressure vessel is small.

For the technical details of please the related technical data sheet.

The following configurations can be done on customers demand

DUTY + STANDBY

2 D + STANDBY

3 D + STANDBY

NOTE: Any special requirement /configuration depend on flow and pressure can be designed



NOVAX Domestic booster sets (Duty + Assist/ standby)



TYPICAL APPLICATIONS

The base of the group is in galvanized steel/channel and the manifolds are made of G.I./Copper/SS. Each discharge and suction manifolds will be fitted with 2 numbers gate valve and one non return valve. Two pressure switches, automatic operation) and a pressure gauge are mounted on it.

The control panel is mounted on the base which will have the following

- Very low voltage auxiliary circuit
- Motor switch-on and switch-off are controlled by two pressure switches
- provision to a float switch in the suction of the tank will prevent the pump from dry run
- A device is present that inverts the insertion order of the pumps at every start-up
- Power supply: - 230V, 50Hz single phase
- 400V, 50 Hz three phase
- Direct start-up
- MCB
- ELCB
- Protection rating IP 55
- HAND –OFF-AUTO. switches for each pump
- Circuit breaker protection reset
- LED indicator:
 - Network presence
 - Motor running
 - Motor in protection mode (for three phase version only)
- On request, special version control panels like VFD, PLC can be used

PRINCIPLE OF OPERATION

The discharge or however the escape of water from the system with the pumps at a standstill, causes the pressure to drop there by enabling the first pump to start with the help of the pressure switch which is set at the minimum pressure (cut in is set by the minimum system requirement). The pump will run until the demand / requirements met (i.e. the pump will run to the max flow rate) pump. If the outlet discharge exceeds the flow rate of a pump, the pressure continues to drop until it causes the closure of the contact of the second pressure switch and the start-up of the second pump. This case the tow pumps will run.

When the demand is met (the water requirement is satisfied) the pressure increases and the pressure switch senses the pressure - (cut off is set by the system requirement) and sends signal to control panel to stop the pump.

This cycle will be repeated as per the system pressure requirement

A pressure vessel is also used to regulate the pressure which is mounted on the base or directly mounted on the manifold if the pressure vessel is small

For the technical details of please the related technical data sheet.

The following configurations can be done on customers demand

DUTY + STANDBY

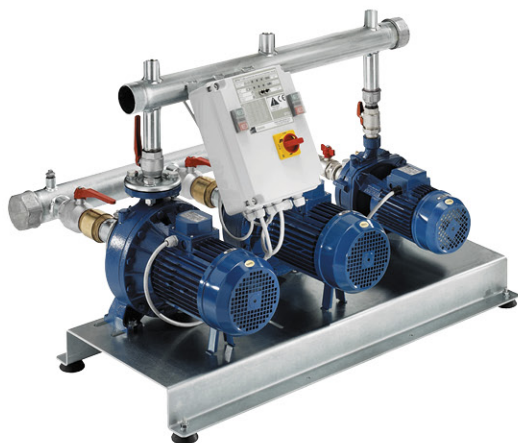
2 D + STANDBY

3 D + STANDBY

NOTE: Any special requirement /application depend on flow and pressure can be designed
Also Variable Frequency Drive with PLC can also be designed and supplied



NOVAX Domestic Transfer



Duty + STANDBY + JOCKEY



DUTY + STANDBY

TYPICAL APPLICATIONS

The base of the group is in galvanized steel/channel and the manifolds are made of G.I./Copper/SS Each discharge and suction manifolds will be fitted with 2 numbers gate valve and one non return valve and a pressure gauge are mounted on it.

The control panel is mounted on the base which will have the following

- Very low voltage auxiliary circuit
- Motor switch-on and switch-off are controlled by two float switches
- provision to a float switch in the suction of the tank will prevent the pump from dry run
- A device is present that inverts the insertion order of the pumps at every start-up
- Power supply: - 230V, 50Hz single phase
- 400V, 50 Hz three phase
- Direct start-up
- MCB
- Protection rating IP 55
- HAND-OFF-AUTO switches for each pump
- Circuit breaker protection reset
- LED indicator:
 - Network presence
 - Motor running
 - Motor in protection mode (for three phase version only)

PRINCIPLE OF OPERATION

The pump stop and start of the pumps will depend on the level of the float switches.

The float switch at the suction tank will prevent dry run and start of the pump.

The float witch at the discharge / roof top will stop the pump when the tank is full and prevent overflowing

A NO-FLOW sensor is fitted on the suction is optional to stop the pump to prevent the pump from dry run

For the technical details of please the related technical data sheet.

The following configurations can be done on customers demand

DUTY + STANDBY

2 D + STANDBY

3 D + STANDBY

NOTE: Any special requirement /configuration depend on flow and pressure can be designed

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