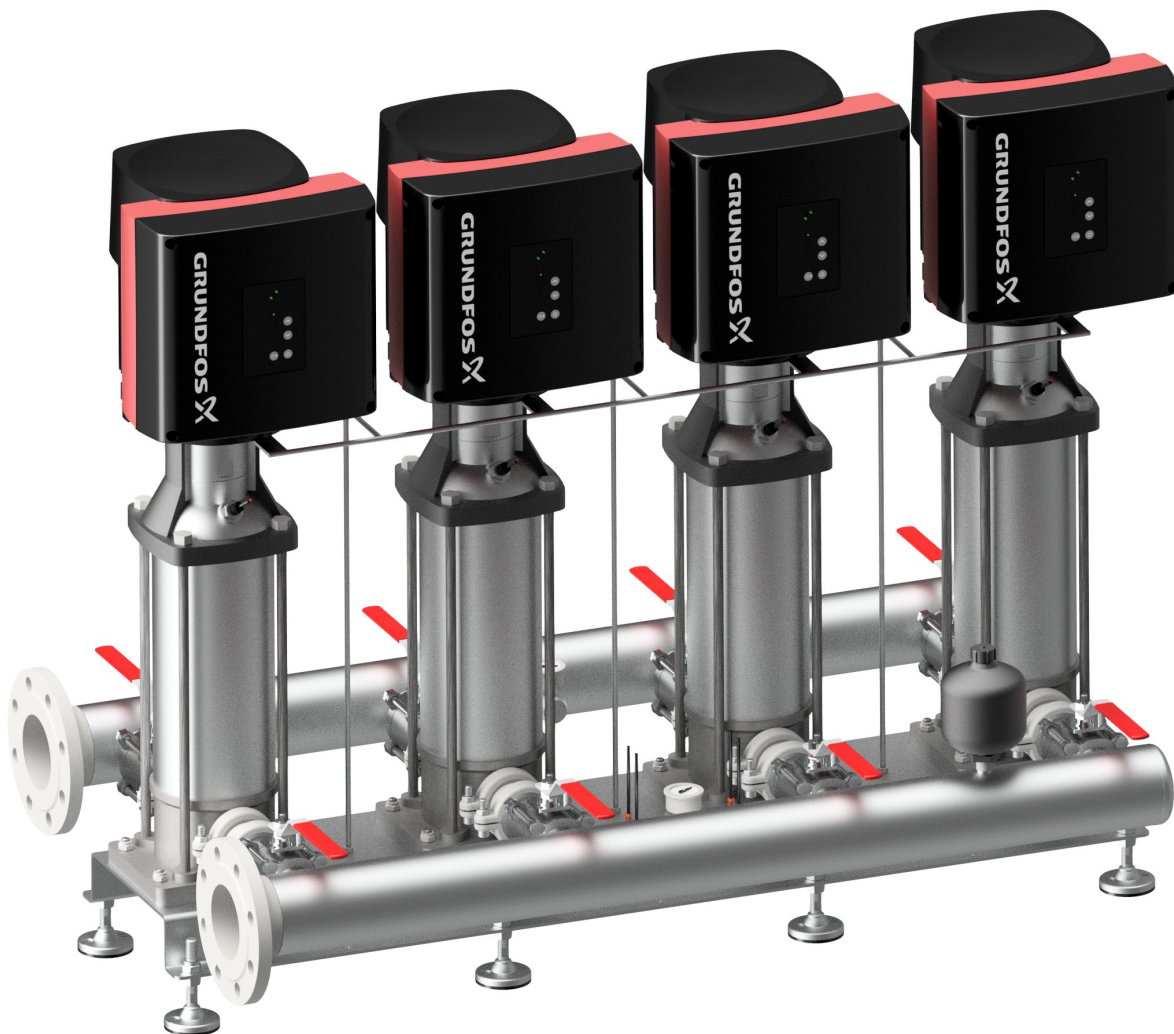


Manual

BS10-20, 20-20, 30-20, 40-20

ENERGY
IE5
EFFICIENCY



GENERAL

For safety during installation and later use it is very important that installation, operating and maintenance instructions are carefully followed.

If any doubt should arise with regard to the content of these instructions, please contact the distributor.

Liability provisions

Each user must handle and use the system in a responsible manner.

It is therefore of great importance that this instruction manual is available to the sanitation employee concerned at all times.

Warranty conditions

Please refer to the General Terms and Conditions applicable at any time.

General information

Manufacturing tolerances on nozzles, pressure gauges and pumps can in certain cases lead to minor deviations from specified values. This has, however, no impact on the cleaning efficiency.

Protection against frost

The machine must not be exposed to frost unless it has been emptied of water (frost protected). Even brief periods of exposure to frost may cause damage to the equipment.

Storage

You are requested to keep this instruction manual at a location where it will be available at all times, and it should be submitted to the person who is responsible for this product. In the event that the instruction manual is lost, you are welcome to order a new one from your dealer.

Future-proofing

Should you desire functions on your system that have not been included from the start, this can be done by purchasing and installing one of our kits.

Safety

Safety during operation of the equipment.

The equipment may only be used by personnel who have received detailed instruction in the correct use of the equipment and safety risks during operation.

When the equipment is used, suitable personal protective equipment such as protective goggles, gloves, safety footwear and protective overalls designed to protect the user against chemicals and hot water under high pressure should always be worn.

- It is recommended that suitable working clothes be worn, e.g. as protection against 70°C hot water.
Always use protective goggles, respiratory protective equipment and rubber gloves.
- The system should not be started up before the operators that are to use the system have been instructed in the correct use, adjustment and maintenance hereof.
- Never direct the water jet at other persons.
- Only use original System Cleaners hoses and couplings.
- Check that couplings "lock" when hoses and nozzles are fitted. If possible, practise this procedure before operation.
- Always relieve the pressure in the rinsing hose by opening the low-pressure valve/gun (AFTER the water supply has been shut off) before dismantling the couplings and removing the hose.
- During operation of the system, ensure that the low-pressure gun/valve is closed before releasing the handle.
- When the low-pressure gun/valve is opened, the water jet will result in a certain amount of counter-pressure. Therefore make sure that you hold the handle firmly and have a firm foothold.
- It is recommended that non-slip footwear be worn since the floor can sometimes be slippery due to the presence of water and foam.
- When using detergents, it should be remembered that certain types of detergent can produce toxic gases when mixed. Further information can be obtained from the chemical supplier.
- The noise level of the machine itself is less than 70 dB(A). However, when rinsing, the operator will be exposed to the noise of the jet of water hitting the floor, walls, and equipment.
When rinsing stainless steel surfaces with a 25/40 System rinsing nozzle (25 bar), a noise level of 88 dB(A) can be registered.
- The actual noise level depends on factors such as the size and layout of the room, the machines to be cleaned, etc., as well as the type of nozzle used. In general, the noise increases with greater quantities of water and smaller spray angles. In any event, hearing protection should be worn when rinsing.
- The hand-arm vibration level, measured on the low-pressure gun fitted with a rotating nozzle, is less than 2.5 m/s².
- Never direct the water jet at electrical equipment.
- Avoid water in electrical plugs or sockets.
- Never insert or remove a plug from an electrical socket unless the power has been switched off.

Safety precautions

The design of the system complies with generally accepted technical regulations and provisions concerning the working environment and accident prevention. Despite this, risks can occur during use that can lead to physical inconvenience for the user or a third party or have an impact on the machine or other equipment.

The system must therefore be in prime technical condition before use and may only be used in accordance with its purpose and with strict observance of the safety requirements and operating instructions. In particular, malfunctions and irregularities that can affect safety must be remedied immediately.

Proper use

System Cleaners' Booster system is exclusively designed to transport and pressure-increase of water to satellite stations. All other forms of application or use not within the scope of the above are considered to be improper and inconsistent with the requirements and regulations, and may lead to hazardous situations. System Cleaners A/S cannot be held liable for consequential damage resulting from improper use of the equipment.

Proper use includes the following:

- The instructions, regulations and recommendations concerning the system stated in the instruction manual.
- Observance of the specified inspection and maintenance intervals.
- Correct maintenance of good operating condition of the system.
- Observance of the specified environmental and operating conditions.

Proper use also includes observance of all information that is stated in this instruction manual. This applies in particular to the specified safety instructions.

Safety instructions during operation

- It is recommended that suitable working clothes be worn. For protection against certain types of detergents, always use protective goggles, respiratory protective equipment and rubber gloves.
- It is recommended that non-slip footwear be worn since the floor can be slippery due to the presence of water and foam.
- This system may only be operated, maintained and – not least - repaired by persons who are familiar with the system and properly trained to carry out the job concerned.
- It is the customer's responsibility that these installation and operating instructions are supplemented by in-house instructions concerning inspection and reporting, industrial management, personnel training, etc.
- Do not carry out any work if you are unsure of the consequences or are insufficiently skilled to carry it out. If in doubt, you should contact your superior or your agent in advance.
- Never direct the water jet at other persons.
- Never direct the water jet at electrical installations.
- Check that couplings "lock" when hoses and nozzles are fitted. If possible, practise this procedure before operation. Always relieve the pressure in the rinsing hose by opening the low-pressure gun/valve (AFTER the water supply has been shut off) before dismantling the couplings and removing the hose.
- During operation of the system, ensure that the low-pressure gun/valve is closed before releasing the handle.
- When the low-pressure gun/valve is opened, the water jet will result in a certain amount of counter-pressure. Therefore make sure that you hold the handle firmly and have a firm foothold.
- Before removing the cabinet, the power supply MUST be switched off.
- Safety precautions and safety devices must comply with national regulations applicable at any time (e.g. Power current regulations, EN 60204 or EN 50178).
- Requisite safety precaution: earthing of unit.
- Requisite safety device: Overload protection (fuses)
- Internally, protection corresponds to IP 55. On a number of components hazardous voltages can occur. During operation the cabinet must always be closed.
- Never insert or remove a plug from an electrical socket unless the power has been switched off.

System Cleaners low-pressure systems may only be used in conjunction with soaps and chemicals that are approved for cleaning within the food or transport industries.

Soaps and chemicals that are classified as highly corrosive, toxic or which pose a health risk to humans or animals may not be used.

The system must not be used together with solvents or volatile liquids that pose a health risk or are inflammable.

In the event that the system is used with non-approved soaps, chemicals or solvents, System Cleaners A/S disclaims all liability.

If in doubt, please contact your soap or chemical supplier and read the supplier manual.

In the event that you use the system with chemicals that require mandatory labelling, or if the water temperature exceeds 50°C, a low-pressure gun with an automatic closing device must be used.

In the event that you use the system without a gun with an automatic closing device together with chemicals that require mandatory labelling, or water with a temperature that exceeds 50°C, System Cleaners A/S disclaims all liability.

Disposal

Please be aware of the following applicable provisions: the equipment must be disposed of according to its nature and applicable requirements, e.g. electrical scrap, synthetic material, stainless steel, brass, etc.

Labelling

The system is equipped with a type plate containing technical data.

The type plate is located on a fixed part of the system.

Declaration of conformity

We declare that this product is in conformity with the following directives:

- 2006/42/EC Directive on Machinery
- 2014/35/EU Low Voltage Directive
- 2014/30/EC EMC Directive



Brian Lund Jensen
Solution and Development Manager

Safety information



General:

This unit must only be operated by trained professionals or well instructed users.
Service must only be carried out by trained professionals or well instructed maintenance staff.

Operation:

Risk assessment

1. Always wear safety glasses, gloves and suitable clothing when using the system (PPE)
 - Danger of getting chemicals in eyes (HIGH RISK)
 - Danger of getting high pressure water in eyes (HIGH RISK)
 - Danger of getting chemicals on skin (HIGH RISK)
2. The Door must be closed at all times.
 - Danger of high-pressure water/chemical in case of failure (MED. RISK)

Service/Maintenance:

Risk assessment

1. Always wear safety glasses, gloves and suitable clothing when using the system (PPE)
 - Danger of getting chemicals in eyes (HIGH RISK)
 - Danger of getting high pressure water in eyes (HIGH RISK)
 - Danger of getting chemicals on skin (HIGH RISK)
2. Before accessing the unit/opening the door, make sure all inlet ball valves (Water, Chemical, Air) are in closed position and the pressure is relieved from the entire system.
 - Danger of high-pressure water/chemical if service is performed without relieving pressure from the system (MED. RISK)

Safety signs:

Following pictograms are posted on the equipment (size is 60x60mm)
Scale shown (1:1)



INSTALLATION

Location

Place the equipment in a frost-free room, well protected from the sun and place it on a hard surface.

Piping

The piping should be made from materials suitable for the media in the pipes, the maximum pressure and temperature.

It is the fitter's responsibility to ensure that the pipe routing conforms to the authority's requirements and is performed in accordance with local regulations.

The installation must be performed such that forces from pipes etc. are not transferred to the equipment during and after fitting, as this may result in leaks or damage the equipment.

Note that certain types of pistols are equipped with valves that quickly shut off the water. This can cause pressure strokes in the pipe conduits. Pipes, fixtures and fittings must be dimensioned for this. Alternatively, membrane holders can be fitted in the pipeline to reduce the pressure strokes.

RECOMMENDATION: Select a pipe size so that the flow velocity in the pipe is about 3 m/s (10 ft/sec). This gives a normally accepted pressure loss and low noise from the flow.

Fixtures

Always use fixtures designed for the medium and the maximum working pressure and temperature.

IMPORTANT! : Always mount shut-off fixtures in the inlets for water. These shut-off fixtures must be closed when the device is not in use.

Local conditions may necessitate fitting backflow protection etc. to prevent the pressure intensified water from penetrating into the water supply.

RECOMMENDATION: In order to facilitate maintenance of the equipment, it is recommended to fit a shut-off valve in the pipelines immediately at the connections for water.

Mounting of the system

The floor material must be of solid quality and once properly located and aligned the booster must be bolted to the floor.

IMPORTANT: If a shut-off valve is fitted in the outlet of the system, the valve must remain open during operation in order to ensure that the system stops automatically.

COMMISSIONING

Before commencing operation on the unit or following repair work, the unit must be flushed thoroughly to remove any impurities or foreign bodies. The preliminary filter in the inlet for water must be cleaned following flushing.

Prior to starting the system for the first time and following any interruption to the water supply, the pump and pipelines must be bled thoroughly.

TIP!: Note that local specifications may require disinfection of the wetted parts before use.

OPERATION

Start

The system starts automatically by flow.

Stop

The system stops automatically shortly after water is no longer being used.

Leaks

If there are leaks in the system's non-return valve, pipelines and satellites, the pump will start although there is no water being used.

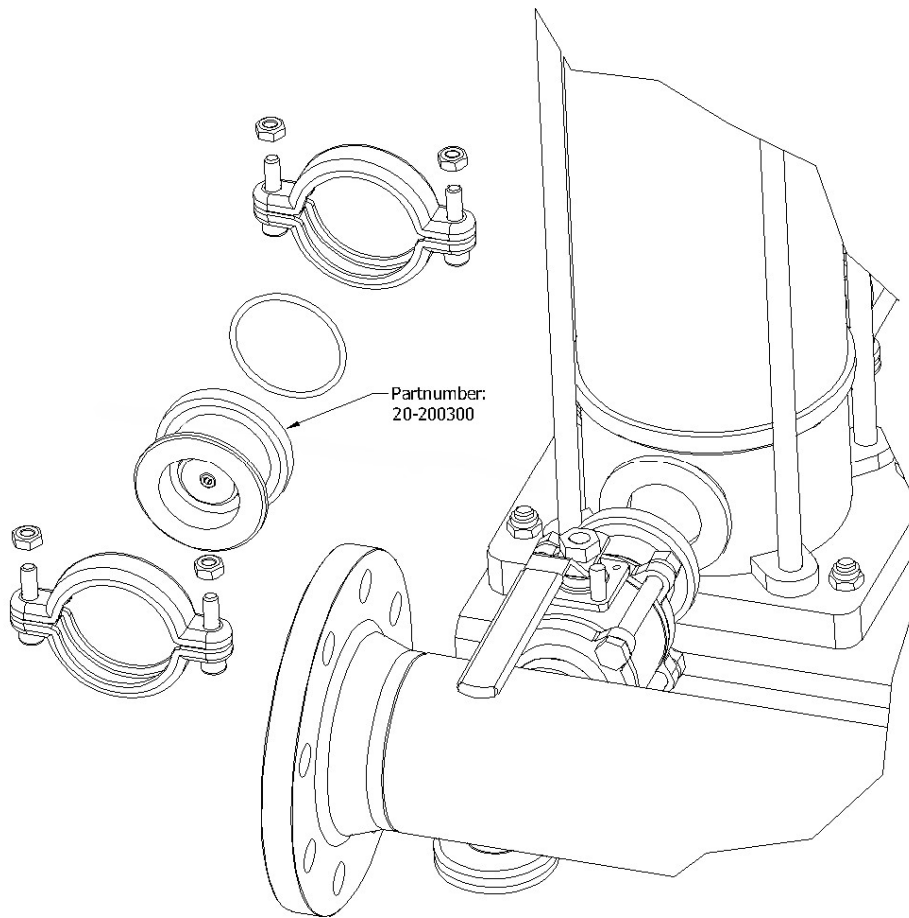
MAINTENANCE

Maintenance intervals

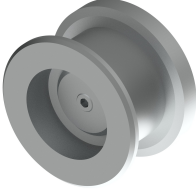

Regular maintenance of the pump station is the best safeguard against breakdowns. We recommend following the plan below:

Monthly	Any leaks must be sealed
Yearly	Non-return valves should be replaced Tighten all threaded joints
Whenever necessary	Remove any scale residues in equipment

Replacement of Non-return valve



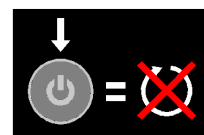
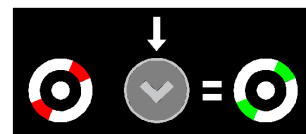
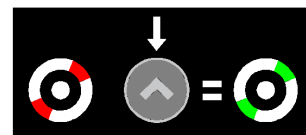
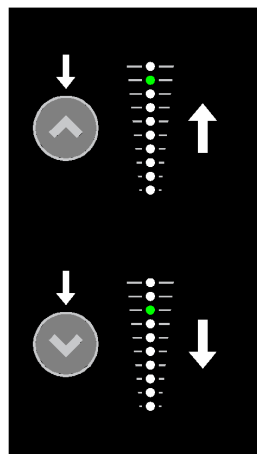
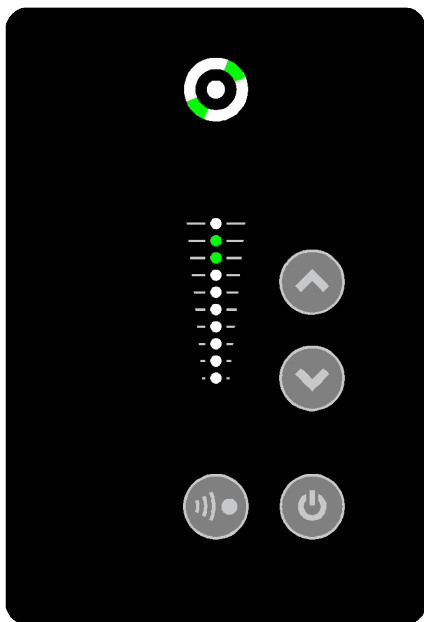
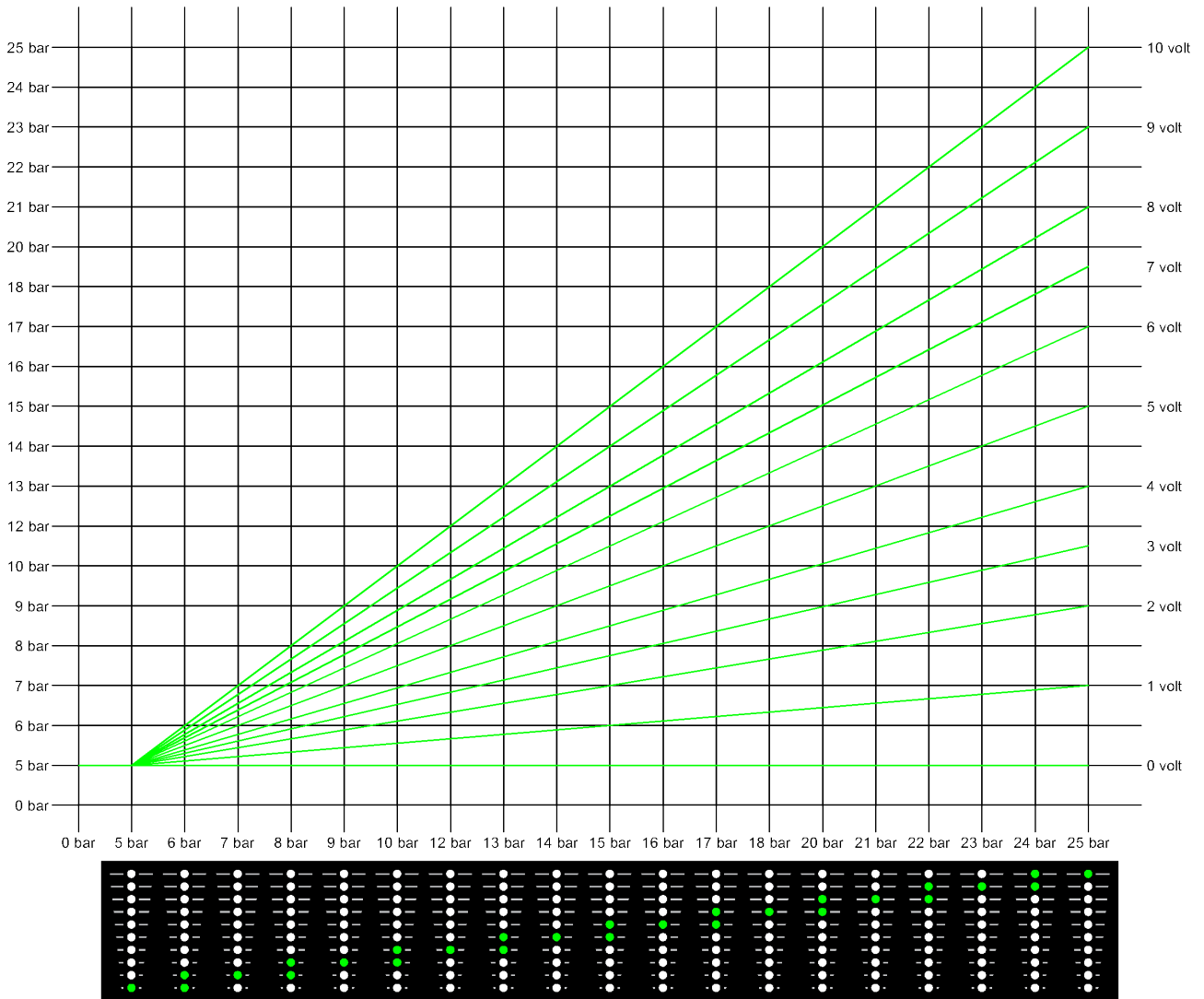
RECOMMENDED SPARE PARTS

Part	Part no.	Description
	20-200300	Non-return valve 1.1/2"
	32-100020	Shaft seal cartridge

TROUBLESHOOTING

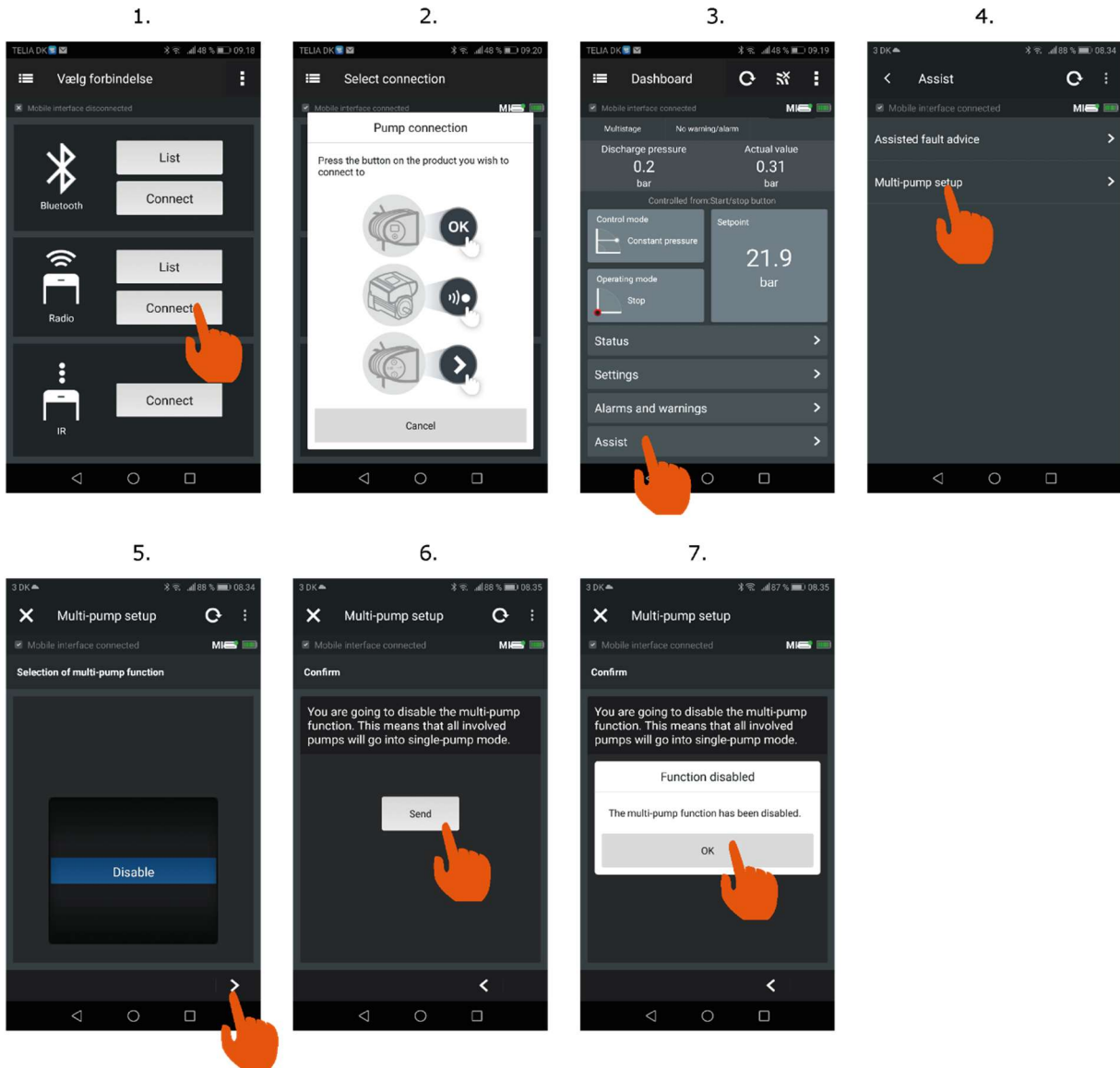
Fault	Cause	Remedy
The device will not start	The ball valve on outlet is closed	Open the ball valve
	Inlet pressure under 1.5 bar	Increase inlet pressure to 1,5-10 bar
	Fault in power supply	The fault must be corrected by a specialist
The device will not stop	Defect non-return valve	Replace non-return valve
	Leaks on the outlet side	Repair the leaks
	Outlet pressure is set too high in relation to inlet pressure	Lower the outlet pressure
The desired pressure can not be achieved	Water consumption too high	Reduce water usage
Red light in pump	Inlet pressure under 1.5 bar	Increase inlet pressure to 1,5-10 bar
	Water temperature exceeding 90 ° C	Reduce water temperature below 70°C
	Fault in motor	The fault must be corrected by a specialist
Orange light in pump	Fault on pressure transmitter	Replace pressure transmitter

Operation

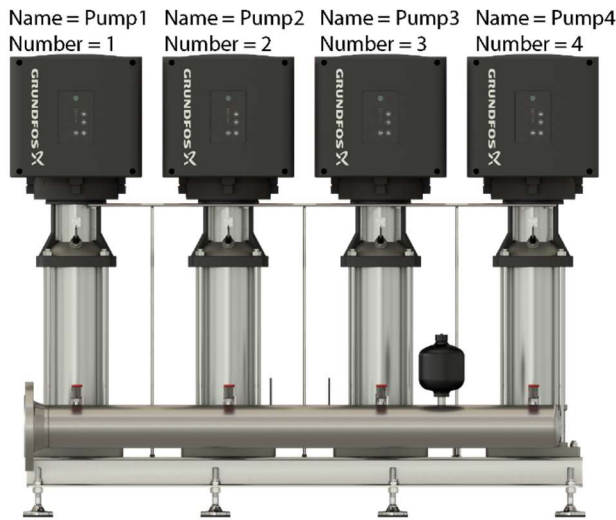


REPLACEMENT OF THE PUMP – Go remote

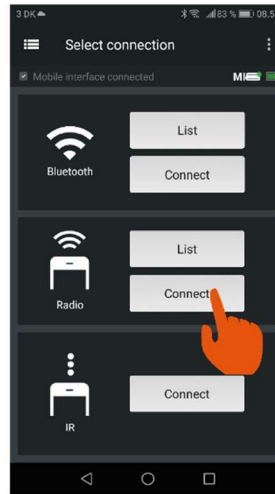
Before installing a new pump, multipump installation must be removed



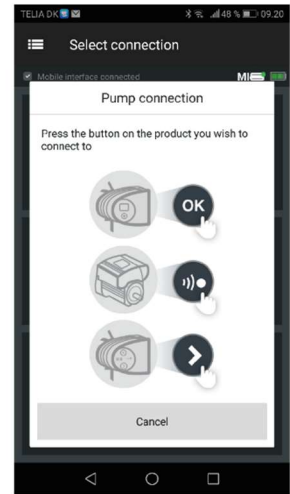
After installing a new pump, multipump setup must be made



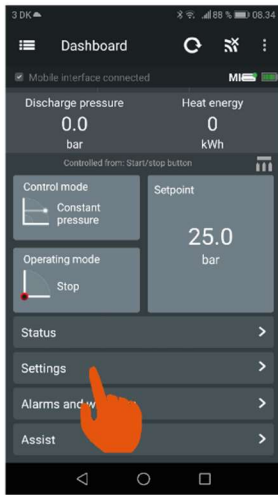
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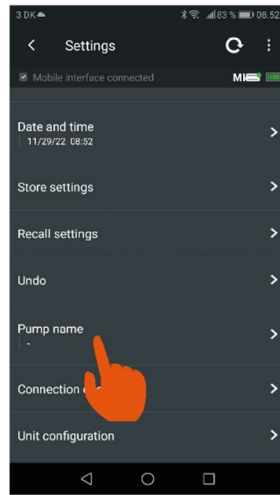
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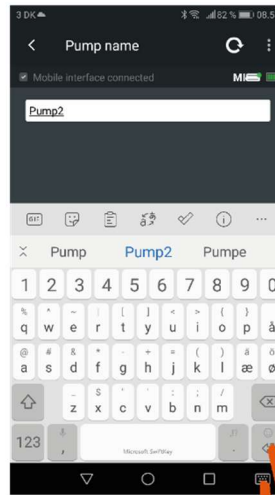
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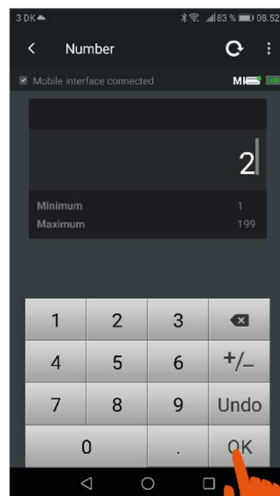
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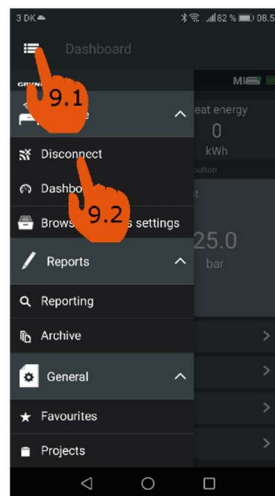
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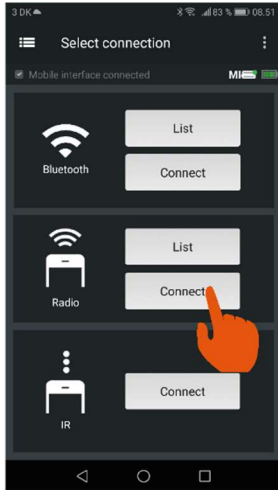
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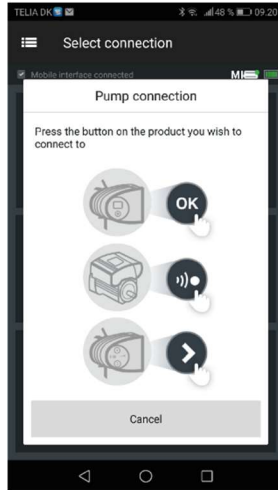
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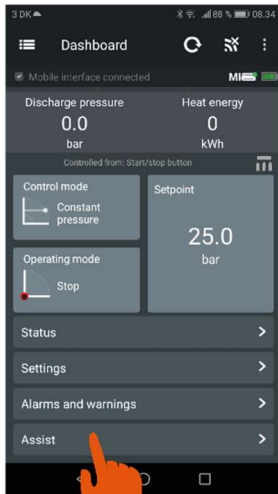
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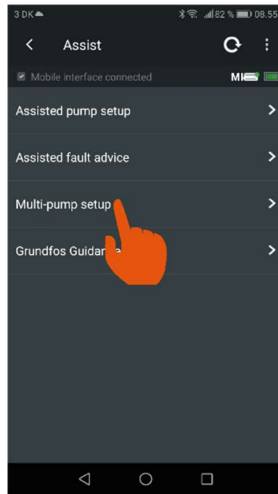
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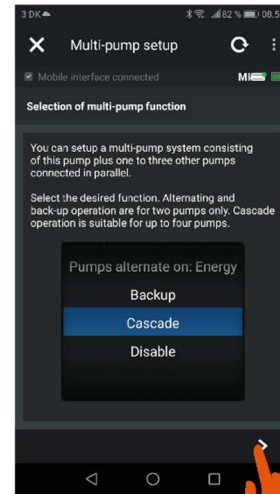
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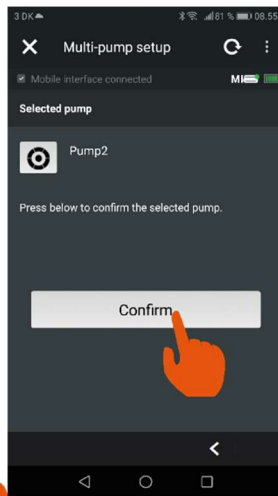
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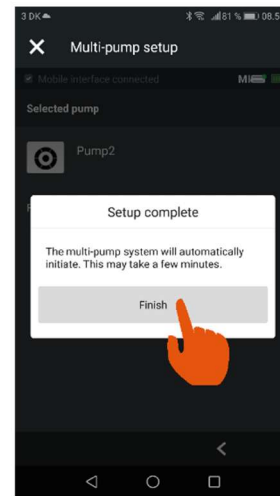
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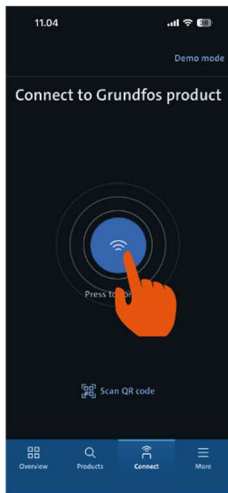
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REPLACEMENT OF THE PUMP – Grundfos Go

Before installing a new pump, multipump installation must be removed

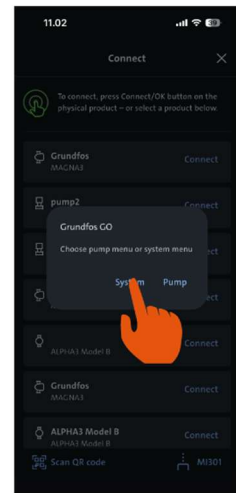
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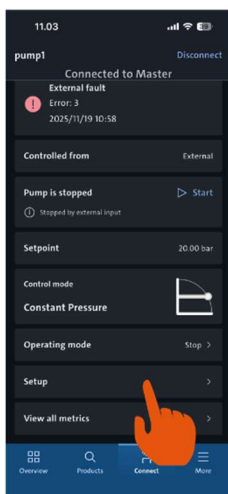
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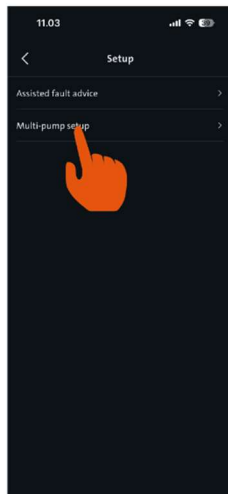
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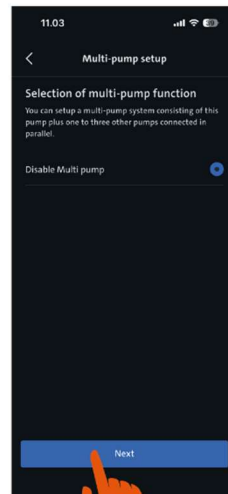
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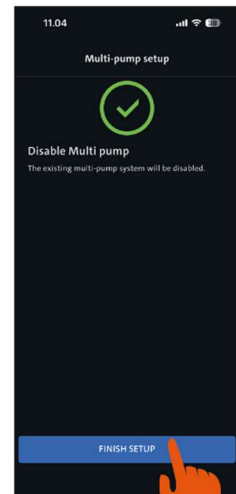
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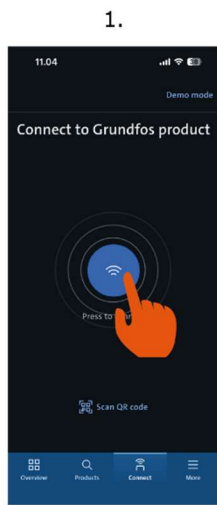
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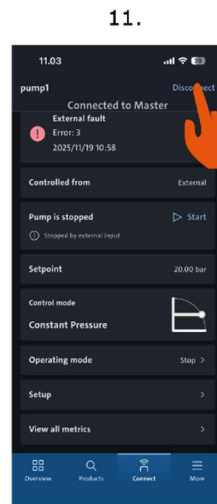
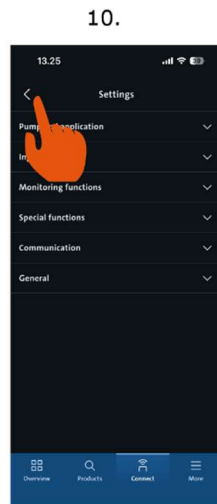
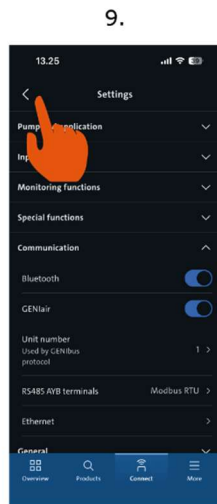
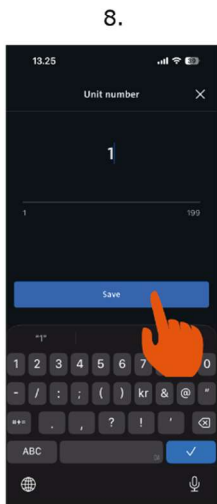
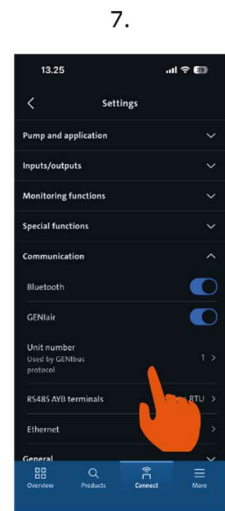
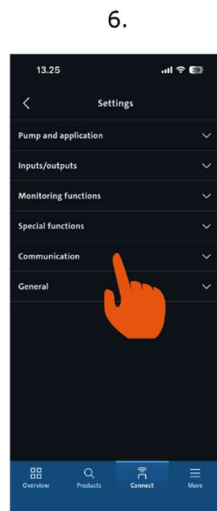
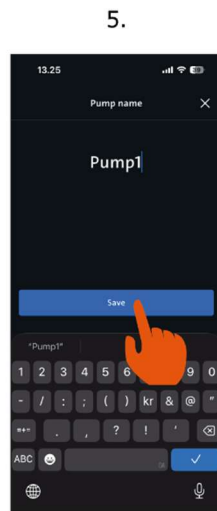
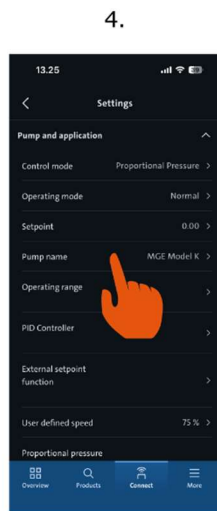
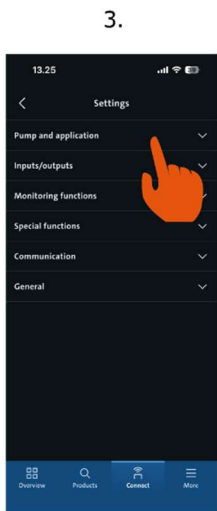
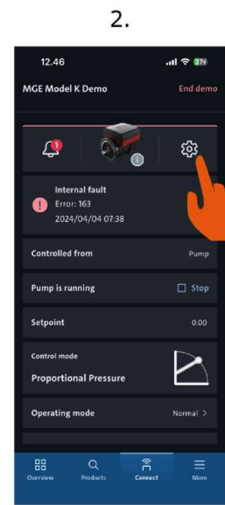
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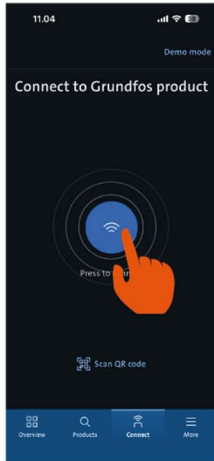
After installing a new pump, multipump setup must be made



Name = Pump1 Name = Pump2 Name = Pump3 Name = Pump4
 Number = 1 Number = 2 Number = 3 Number = 4



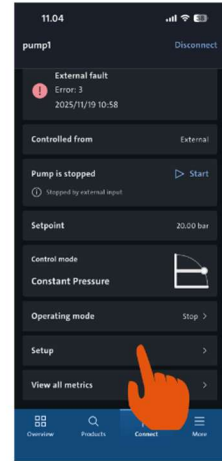
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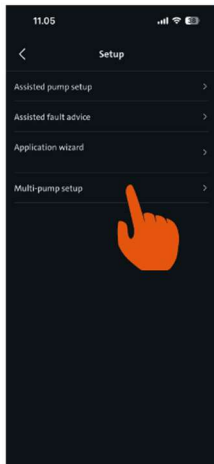
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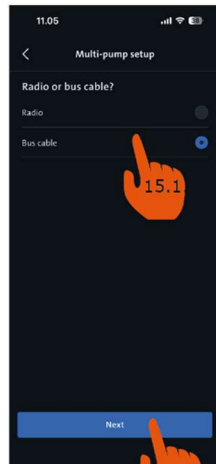
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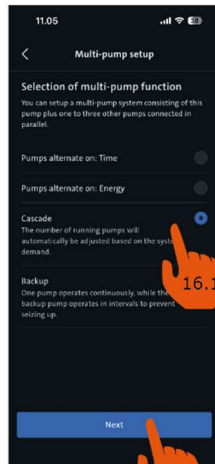
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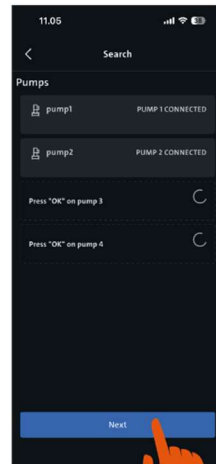
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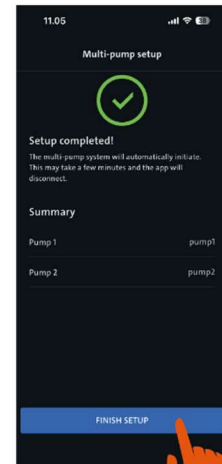
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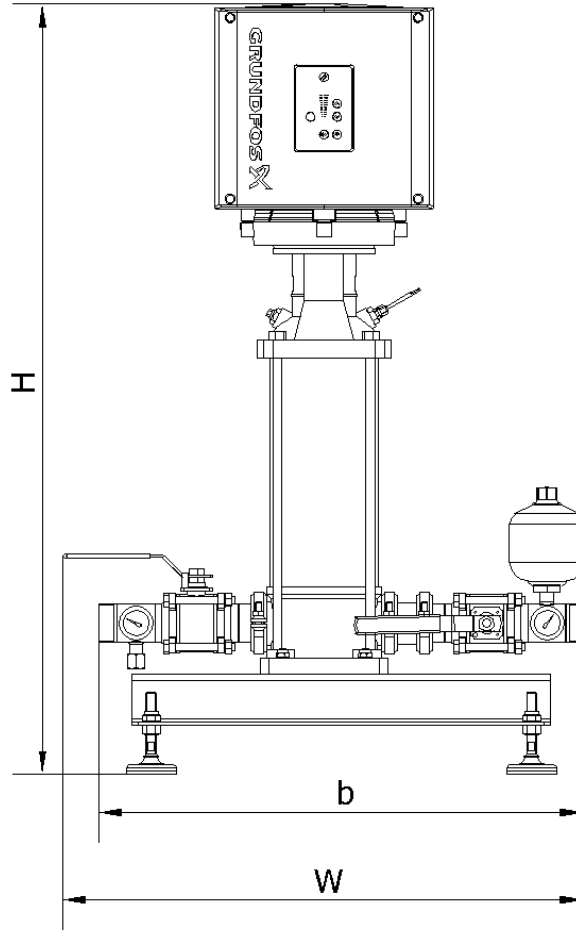
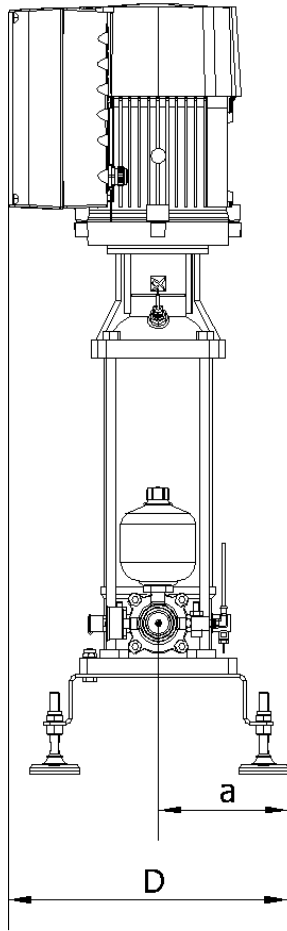
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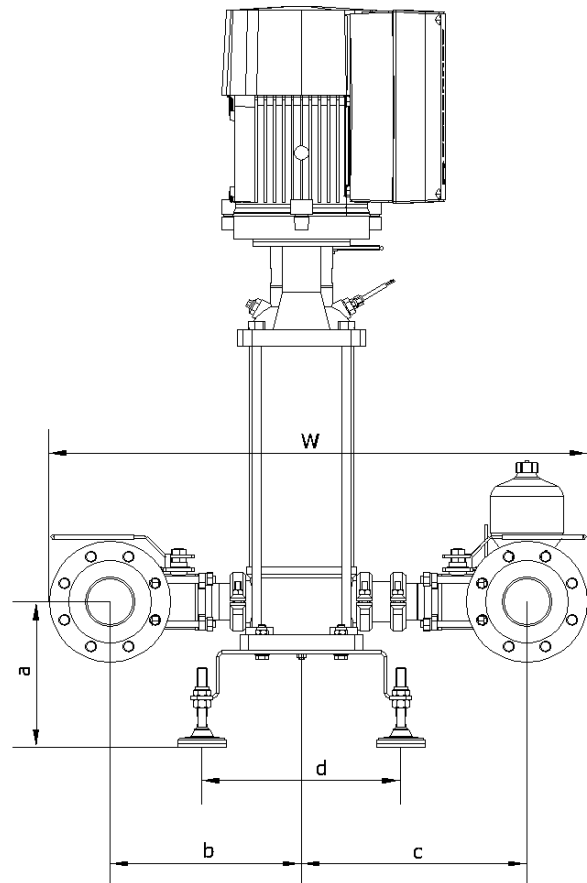
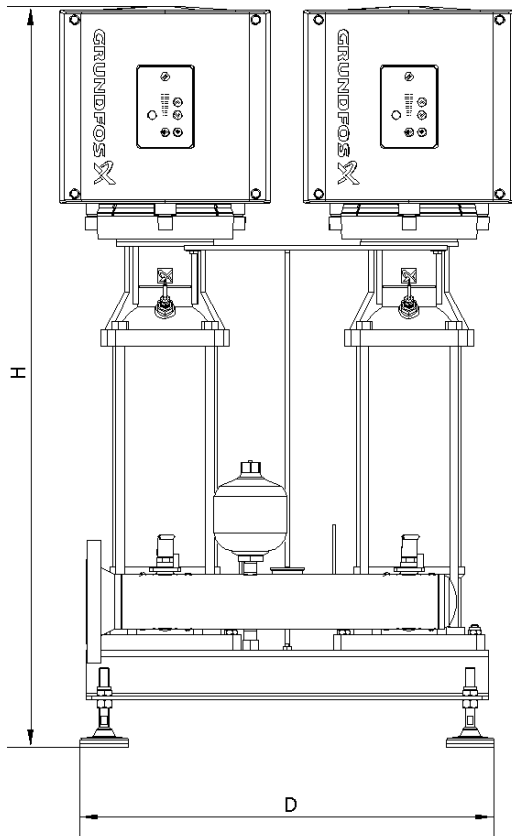
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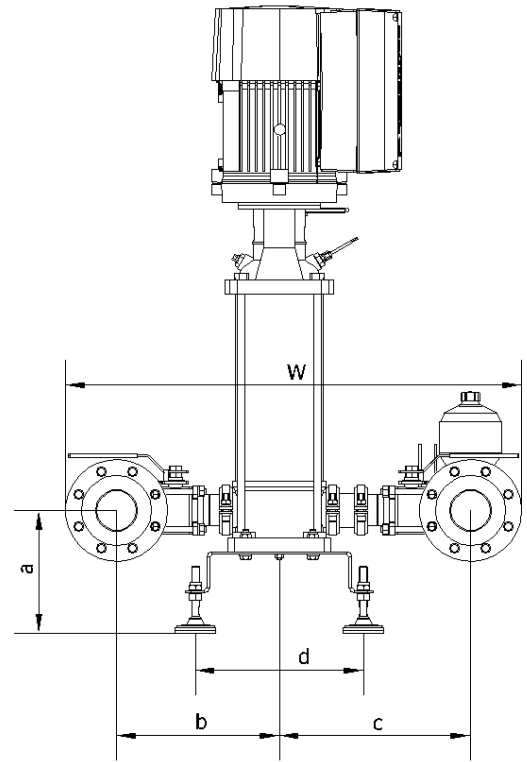
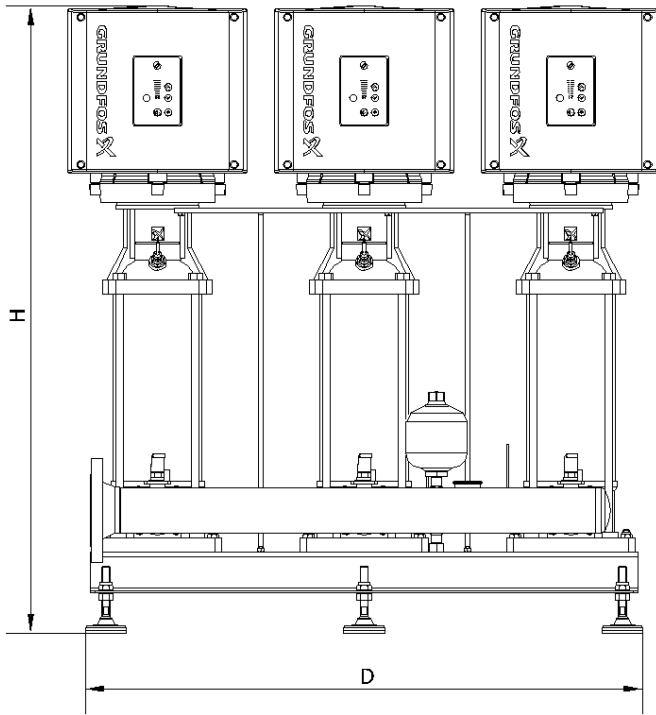
DIMENSIONS
BS10-20



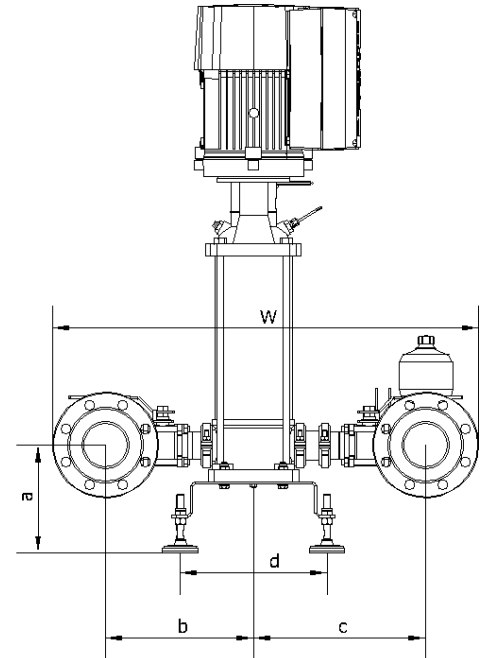
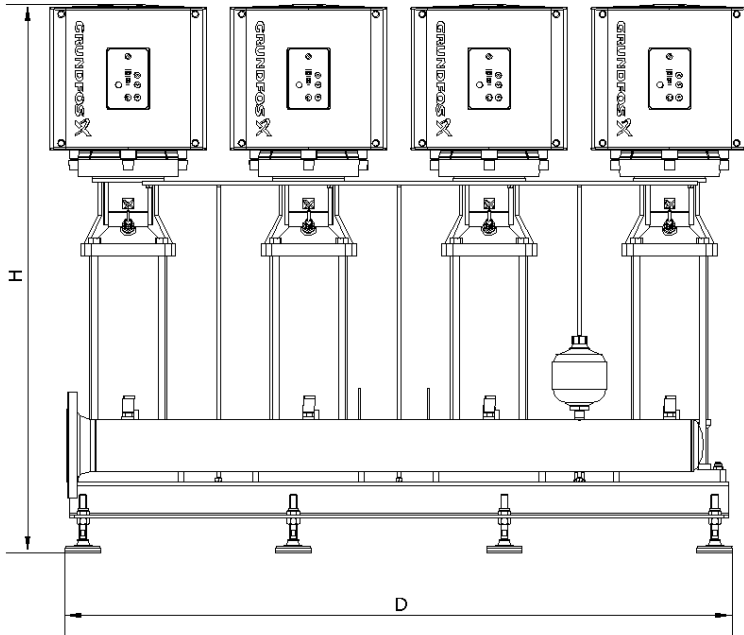
BS20-20



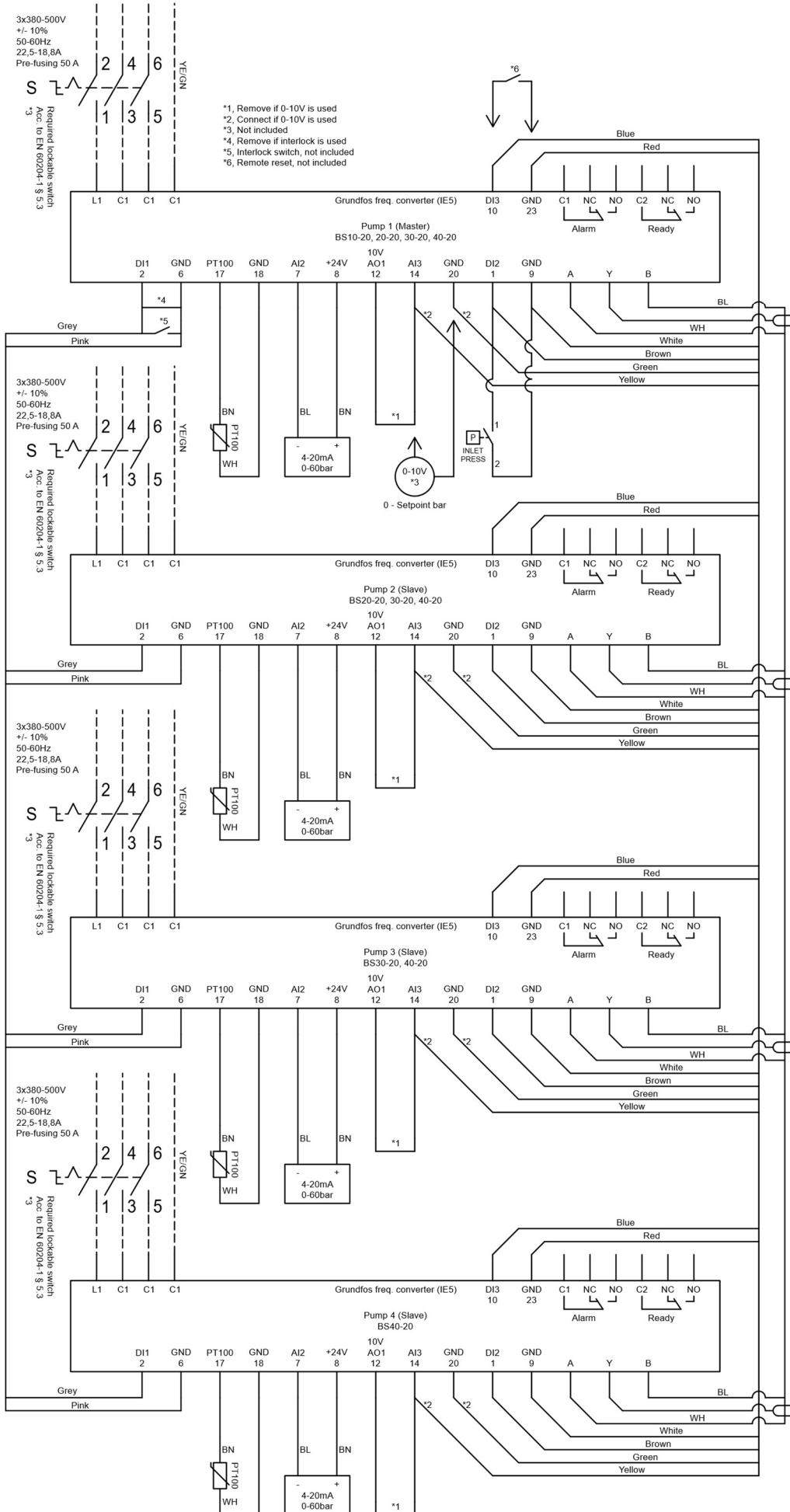
BS30-20



BS40-20



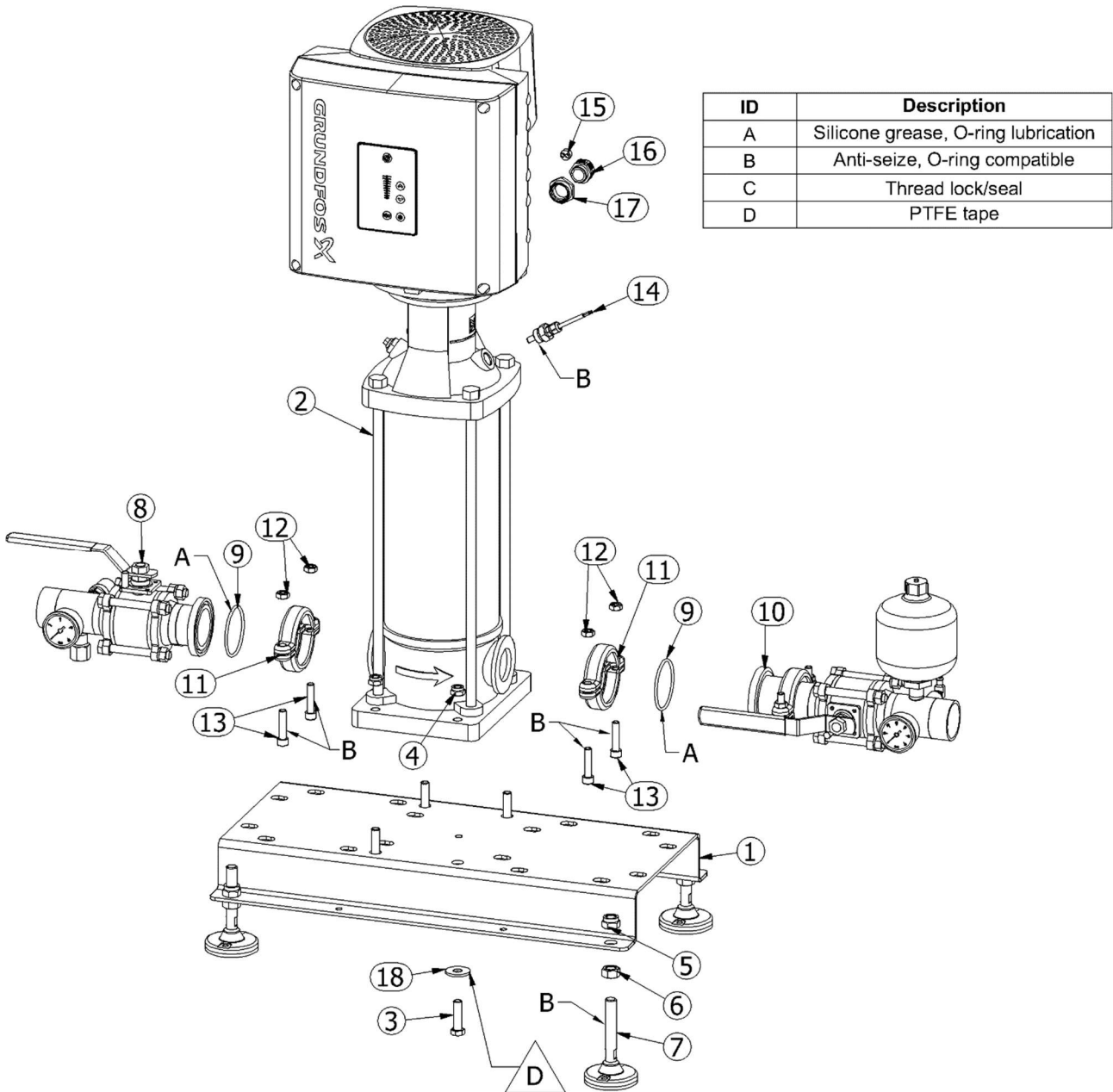
WIRING DIAGRAM



TECHNICAL SPECIFICATIONS

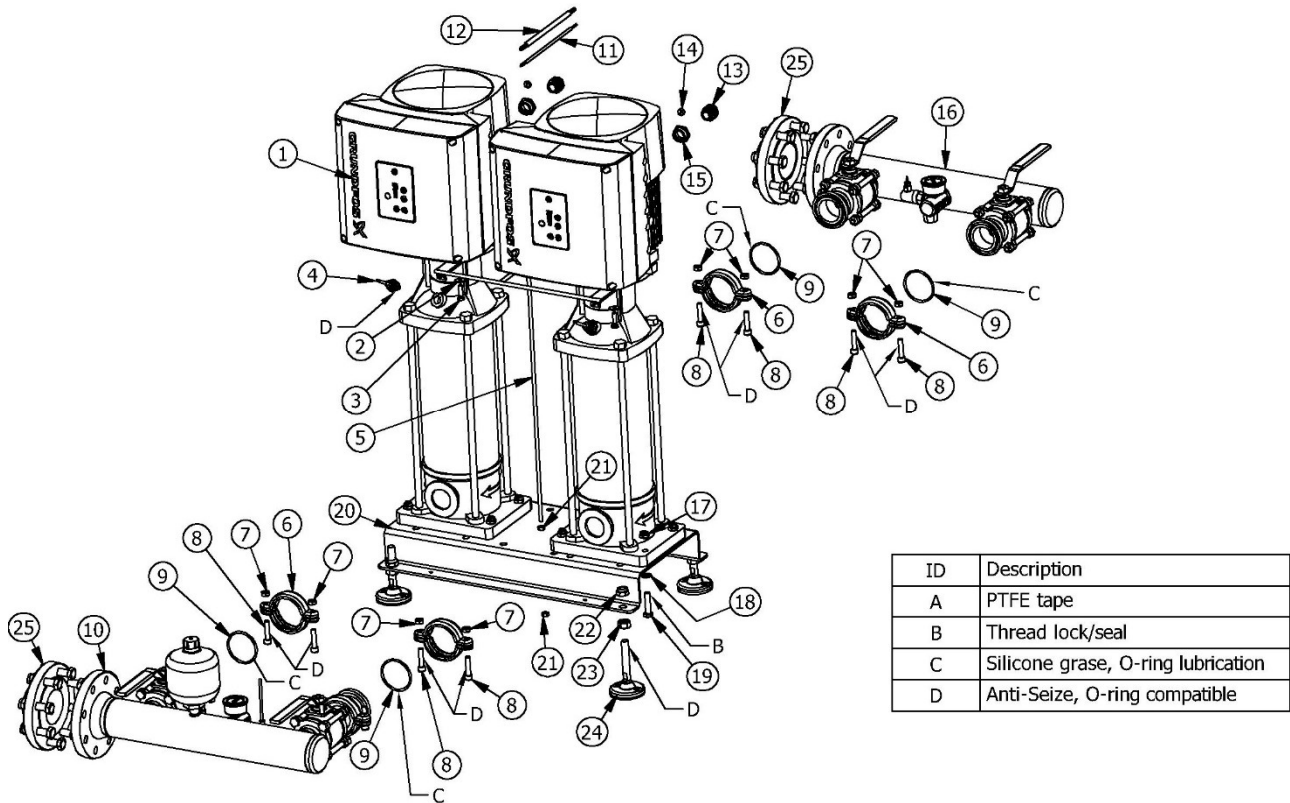
Model	BS10-20	BS20-20	BS30-20	BS40-20
Pump				
Pump type	CRNE 10-12			
Frequency drive	Integrated in pump motor			
Motor power	11 kW / 15 HP			
Connections				
Inlet	2" BSP	EN1092-1, ISO, PN40, DN80		EN1092-1, ISO, PN40, DN100
Outlet	2" BSP	EN1092-1, ISO, PN40, DN80		EN1092-1, ISO, PN40, DN100
Water, inlet				
Minimum pressure	1,5 bar			
Maximum pressure	10 bar			
Minimum temperature	3°C			
Maximum temperature	70°C			
Minimum recommended flow	22,5 m ³ /h	45 m ³ /h	67,5 m ³ /h	90 m ³ /h
Pump cut-out, pressure	<1,5 bar			
Pressure at 25 bar operating	>4 bar			
Pump cut-out, temperature	>90°C			
Water, outlet				
Setpoint setting	5-25 bar			
Standard setpoint	20 bar			
Maximum flow at 20 bar including 4.0 bar inlet pressure	300 liters/min	600 liters/min	900 liters/min	1200 liters/min
Maximum flow at 25 bar including 4.0 bar inlet pressure	270 liters/min	540 liters/min	810 liters/min	1080 liters/min
Electrical				
Per. pump				
Voltage	3x380-500V +/- 10%			
Frequency	50-60Hz			
Current	20,6 – 16 A			
Dimensions				
Height (H)	1215 mm	1215 mm	1215 mm	1215 mm
Width (W)	825 mm	885 mm	885 mm	945 mm
Depth (D)	445 mm	680 mm	1080 mm	1480 mm
a	207 mm	240 mm	240 mm	240 mm
b	765 mm	315 mm	315 mm	327 mm
c		370 mm	370 mm	382 mm
d		326 mm	326 mm	326 mm
Weight	210 kg	420 kg	630 kg	840 kg

BS10-20 (3x380-500V/50-60Hz)



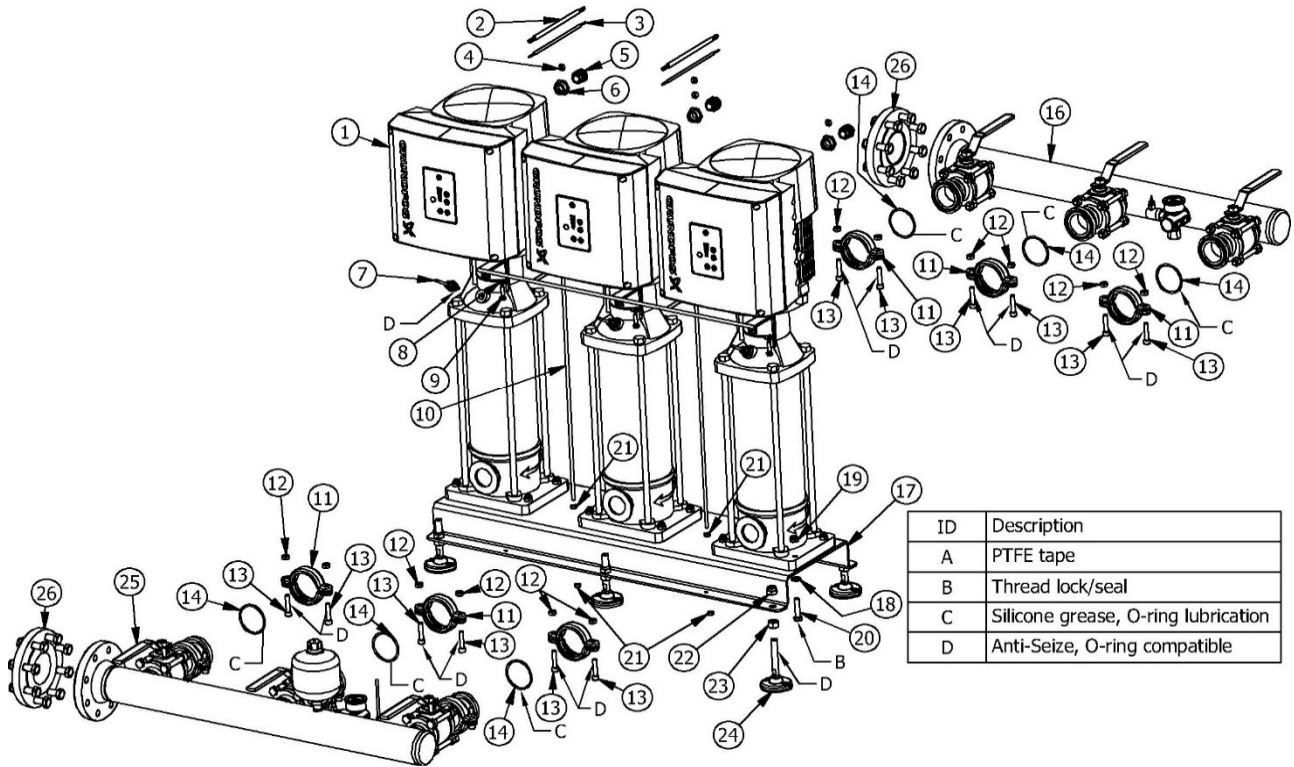
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	46-200250	Pump fundation BS20-20	AISI 304
2	1	06-001710	Pump CRNE 10-12 11 KW clamps	-
3	4	08-201211	Set screw M12x45	A2
4	4	08-001201	Lock nut M12	A2
5	4	08-001602	Lock nut M16	A2
6	4	08-001601	Nut M16	A2
7	4	45-400030-01	Machine shoe ø80xM16 H=100mm	-
8	1	03-900065	Inlet manifold BS10-20	-
9	2	17-010011	O-ring 70x4	NBR
10	1	03-900045	Outlet manifold BS10-20	-
11	2	30-740761	Flexi clamps ø76,1	-
12	4	08-001001	Nut M10	A2
13	4	08-801003	Screw M10x45 cylinder head	A2
14	1	32-000110	PT100 unit (temperature sensor)	-
15	1	35-712497	Multiple packing M20x1,5 2x6mm	Plastic
16	1	35-712601	Screwed cable connection M25x1.5	Plastic
17	1	35-700205	Reduction M32 for M25	PA12
18	4	08-301202	Disc washer ø12	A2

BS20-20 (3x380-500V/50-60Hz)



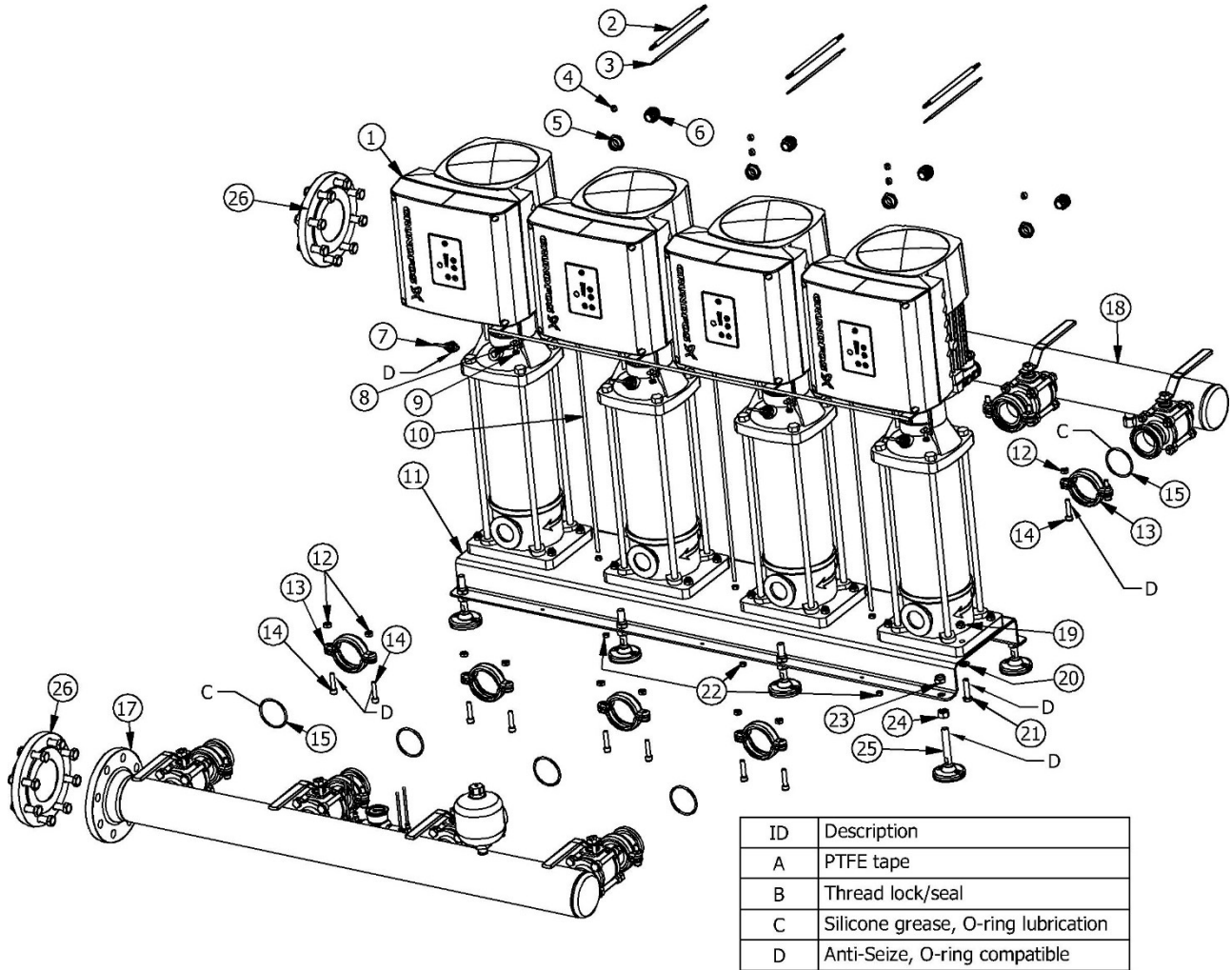
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	2	06-001710	Pump CRNE 10-12 11 KW clamps	-
2	2	08-300802	Disc washer ø8	A2
3	2	08-200807	Set screw M8x30	A2
4	2	32-000110	PT100 unit (temperature sensor)	-
5	1	42-600165	Cable trunking BS20-20	AISI 304
6	4	30-740761	Flexi clamps ø76,1	-
7	8	08-001001	Nut M10	A2
8	8	08-801003	Screw M10x45 cylinder head	A2
9	4	17-010011	O-ring 70x4	NBR
10	1	03-900050	Outlet manifold BS20-20	-
11	2	35-410090	Cable 2x0,5mm ² PVC with screen	-
12	2	35-410092	Cable 8x0,5mm ² PVC	-
13	2	35-712601	Screwed cable connection M25x1.5	Plastic
14	2	35-712497	Multiple packing M20x1,5 2x6mm	Plastic
15	2	35-700205	Reduction M32 for M25	PA12
16	1	03-900070	Inlet manifold BS20-20	-
17	8	08-001201	Lock nut M12	A2
18	8	08-301202	Disc washer ø12	A2
19	8	08-201213	Bolt M12x50 (hexagon)	A2
20	1	46-200250	Pump fundation BS20-20	AISI 304
21	2	08-000801	Nut M8	A2
22	4	08-001602	Lock nut M16	A2
23	4	08-001601	Nut M16	A2
24	4	45-400030-01	Machine shoe ø80xM16 H=100mm	-
25	1	240-500081	Install kit DN80	-

BS30-20 (3x380-500V/50-60Hz)



ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	3	06-001710	Pump CRNE 10-12 11 KW clamps	-
2	2	35-410092	Cable 8x0,5mm ² PVC	-
3	2	35-410090	Cable 2x0,5mm ² PVC with screen	-
4	4	35-712497	Multiple packing M20x1,5 2x6mm	Plastic
5	3	35-712601	Screwed cable connection M25x1.5	Plastic
6	3	35-700205	Reduction M32 for M25	PA12
7	3	32-000110	PT100 unit (temperature sensor)	-
8	3	08-300802	Disc washer ø8	A2
9	3	08-200807	Set screw M8x30	A2
10	1	42-600160	Cable trunking BS30-20	AISI 304
11	6	30-740761	Flexi clamps ø76,1	-
12	12	08-001001	Nut M10	A2
13	12	08-801003	Screw M10x45 cylinder head	A2
14	6	17-010011	O-ring 70x4	NBR
16	1	03-900075	Inlet manifold BS30-20	-
17	1	46-200350	Pump foundation BS30-20	AISI 304
18	12	08-301202	Disc washer ø12	A2
19	12	08-001201	Lock nut M12	A2
20	12	08-201213	Bolt M12x50 (hexagon)	A2
21	4	08-000801	Nut M8	A2
22	6	08-001602	Lock nut M16	A2
23	6	08-001601	Nut M16	A2
24	6	45-400030-01	Machine shoe ø80xM16 H=100mm	-
25	1	03-900055	Outlet manifold BS30-20	-
26	1	240-500081	Install kit DN80	-

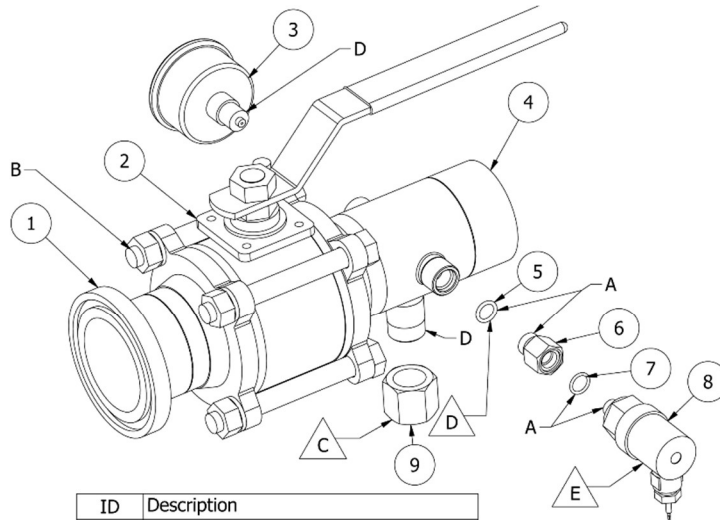
BS40-20 (3x380-500V/50-60Hz)



ID	Description
A	PTFE tape
B	Thread lock/seal
C	Silicone grease, O-ring lubrication
D	Anti-Seize, O-ring compatible

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	4	06-001710	Pump CRNE 10-12 11 KW clamps	-
2	3	35-410092	Cable 8x0,5mm ² PVC	-
3	3	35-410090	Cable 2x0,5mm ² PVC with screen	-
4	6	35-712497	Multiple packing M20x1,5 2x6mm	Plastic
5	4	35-700205	Reduction M32 for M25	PA12
6	4	35-712601	Screwed cable connection M25x1.5	Plastic
7	4	32-000110	PT100 unit (temperature sensor)	-
8	4	08-300802	Disc washer ø8	A2
9	4	08-200807	Set screw M8x30	A2
10	1	42-600155	Cable trunking BS40-20	AISI 304
11	1	46-200450	Pump fundation BS40-20	AISI 304
12	16	08-001001	Nut M10	A2
13	8	30-740761	Flexi clamps ø76,1	-
14	16	08-801003	Screw M10x45 cylinder head	A2
15	8	17-010011	O-ring 70x4	NBR
17	1	03-900060	Outlet manifold BS40-20	-
18	1	03-900080	Inlet manifold BS40-20	-
19	16	08-001201	Lock nut M12	A2
20	16	08-301202	Disc washer ø12	A2
21	16	08-201213	Bolt M12x50 (hexagon)	A2
22	6	08-000801	Nut M8	A2
23	8	08-001602	Lock nut M16	A2
24	8	08-001601	Nut M16	A2
25	8	45-400030-01	Machine shoe ø80xM16 H=100mm	-
26	1	240-500082	Install kit DN100	-

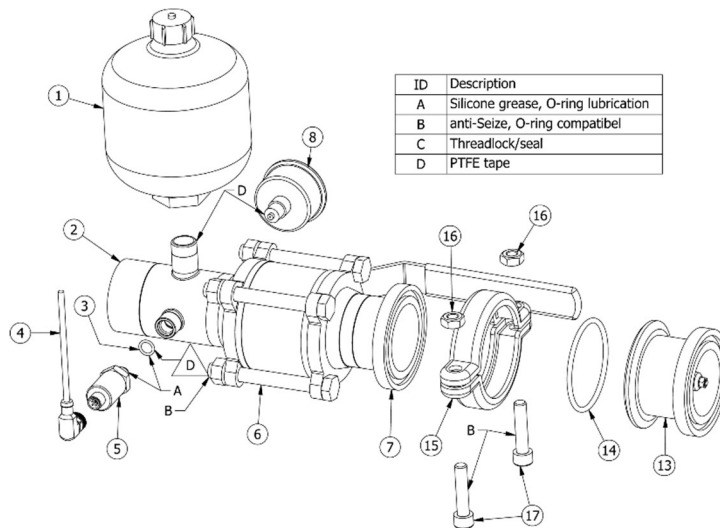
03-900065



ID	Description
A	Silicone grease, O-ring lubrication
B	Anti-Seize, O-ring compatibel
C	Thread lock/seal
D	PTFE tape

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	30-532010	Pump coupling with 2" Flange	AISI 304
2	1	20-000092	Ball valve 2" SS (Red) 2-way without flange	-
3	1	22-000044	Gauge ø50, -1-16 bar SS	AISI 304/brass/glycerine
4	1	25-310175	Manifold BS10-20	AISI 304
5	1	17-020055	O-ring 10x2 70 sh	EPDM
6	1	15-200082	Socket 1/4"x1/8"	AISI 316
7	1	17-000032	O-ring 10,1x1,6 NBR 70 shore	NBR
8	1	35-600065	Pressure switch 1/8" 0,1-2bar NO	-
9	1	15-901200	End cap 1/2" SS	AISI 316

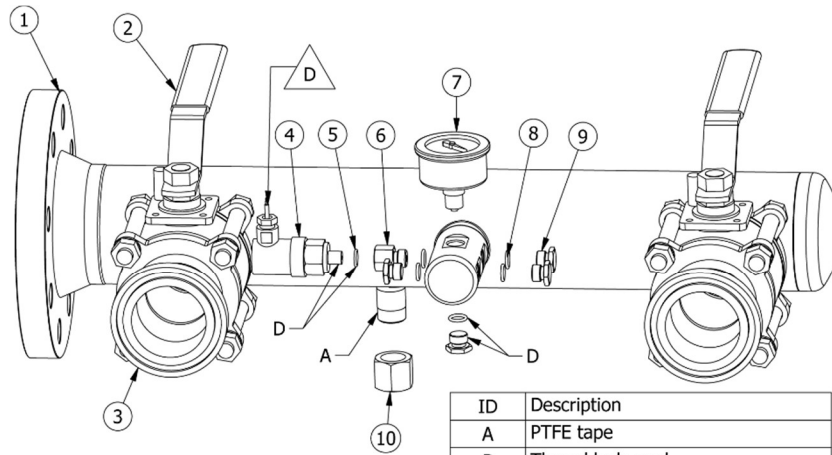
03-900045



ID	Description
A	Silicone grease, O-ring lubrication
B	anti-Seize, O-ring compatibel
C	Threadlock/seal
D	PTFE tape

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	28-000020	Diaphragm accumulator 0,7 L	-
2	1	25-310175	Manifold BS10-20	AISI 304
3	1	17-020055	O-ring 10x2 70 sh	EPDM
4	1	21-000102	Angle connector M12x5m	-
5	1	36-100090	Pressure transmitter 60 bar	-
6	1	20-000092	Ball valve 2" SS (Red) 2-way without flange	-
7	1	30-532010	Pump coupling with 2" Flange	AISI 304
8	1	22-000042	Gauge ø50 0-60 bar SS	AISI 304/brass/glycerine
13	1	20-200300	Non-return valve 1.1/2"	AISI 304/NBR
14	1	17-010011	O-ring 70x4	NBR
15	1	30-740761	Flexi clamps ø76,1	-
16	2	08-001001	Nut M10	A2
17	2	08-801003	Screw M10x45 cylinder head	A2

03-900070

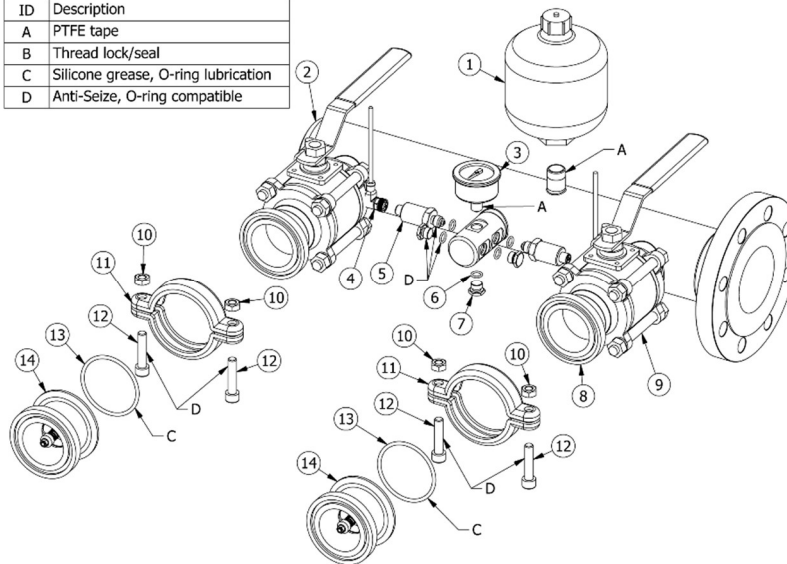


ID	Description
A	PTFE tape
B	Thread lock, seal
C	Silicone grease, O-ring lubrication
D	Anti-Seize, O-ring compatible

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	25-310170	Manifold BS20-20	AISI 304
2	2	20-000092	Ball valve 2" SS (Red) 2-way without flange	-
3	2	30-532010	Pump coupling with 2" Flange	AISI 304
4	1	35-600065	Pressure switch 1/8" 0,1-2bar NO	-
5	1	17-000032	O-ring 10,1x1,6 NBR 70 shore	NBR
6	1	15-200082	Socket 1/4"x1/8"	AISI 316
7	1	22-000044	Gauge ø50, -1-16 bar SS	AISI 304/brass/glycerine
8	5	17-020055	O-ring 10x2 70 sh	EPDM
9	4	16-501403	Plug 1/4" 9mm	AISI 316
10	1	15-901200	End cap 1/2" SS	AISI 316

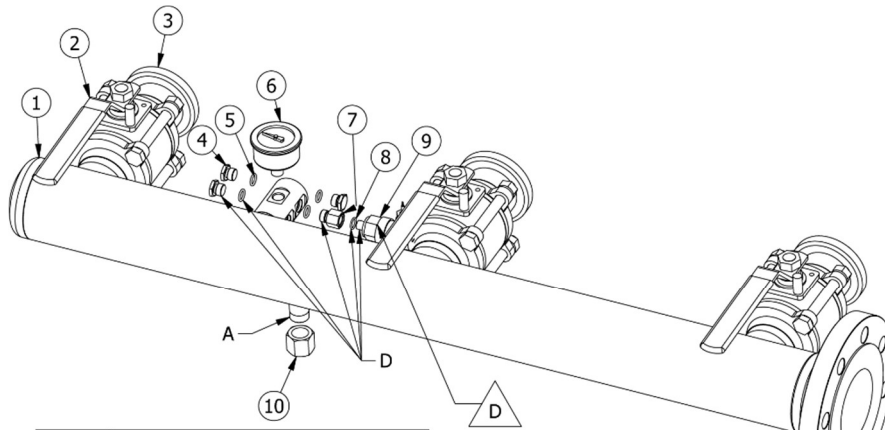
03-900050

ID	Description
A	PTFE tape
B	Thread lock/seal
C	Silicone grease, O-ring lubrication
D	Anti-Seize, O-ring compatible



ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	28-000020	Diaphragm accumulator 0,7 L	-
2	1	25-310170	Manifold BS20-20	AISI 304
3	1	22-000042	Gauge ø50 0-60 bar SS	AISI 304/brass/glycerine
4	2	21-000102	Angle connector M12x5m	-
5	2	36-100090	Pressure transmitter 60 bar	-
6	5	17-020055	O-ring 10x2 70 sh	EPDM
7	3	16-501403	Plug 1/4" 9mm	AISI 316
8	2	30-532010	Pump coupling with 2" Flange	AISI 304
9	2	20-000092	Ball valve 2" SS (Red) 2-way without flange	-
10	4	08-001001	Nut M10	A2
11	2	30-740761	Flexi clamps ø76,1	-
12	4	08-801003	Screw M10x45 cylinder head	A2
13	2	17-010011	O-ring 70x4	NBR
14	2	20-200300	Non-return valve 1.1/2"	AISI 304/NBR

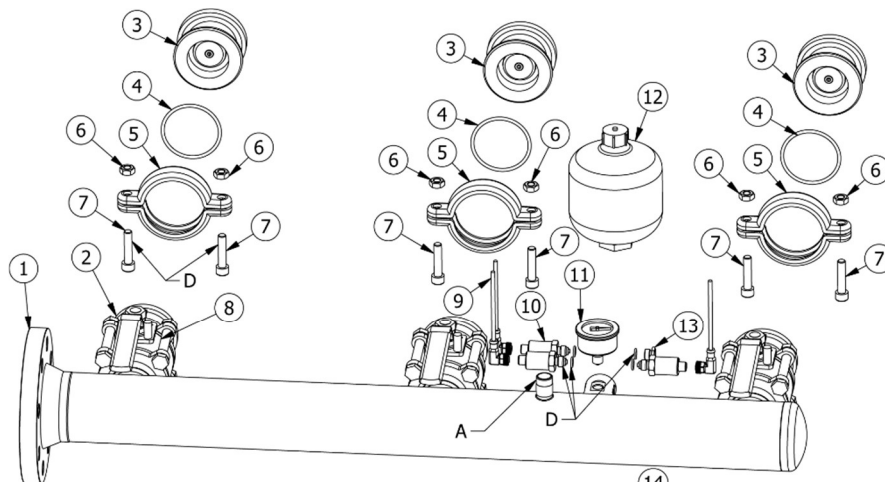
03-900075



ID	Description
A	PTFE tape
B	Thread lock/seal
C	Silicone grease, O-ring lubrication
D	Anti-Seize, O-ring compatible

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	25-310165	Manifold BS30-20	AISI 304
2	3	20-000092	Ball valve 2" SS (Red) 2-way without flange	-
3	3	30-532010	Pump coupling with 2" Flange	AISI 304
4	4	16-501403	Plug 1/4" 9mm	AISI 316
5	5	17-020055	O-ring 10x2 70 sh	EPDM
6	1	22-000044	Gauge ø50, -1-16 bar SS	AISI 304/brass/glycerine
7	1	15-200082	Socket 1/4"x1/8"	AISI 316
8	1	17-000032	O-ring 10,1x1,6 NBR 70 shore	NBR
9	1	35-600065	Pressure switch 1/8" 0,1-2bar NO	-
10	1	15-901200	End cap 1/2" SS	AISI 316

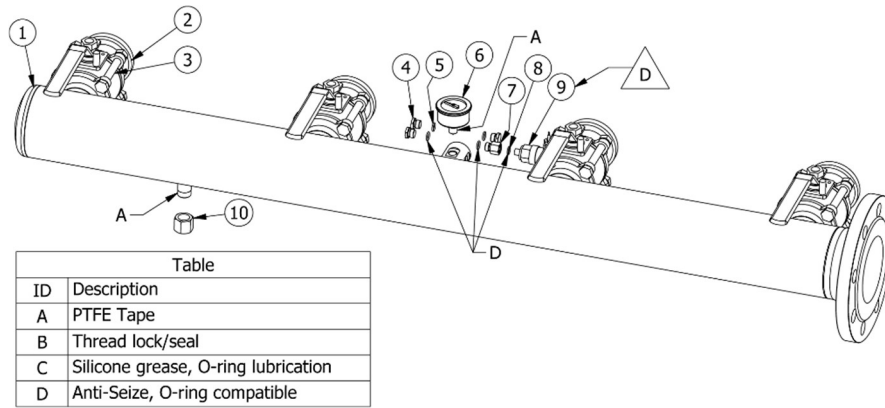
03-900055



ID	Description
A	PTFE tape
B	Thread lock/seal
C	Silicone grease, O-ring lubrication
D	Anti-Seize, O-ring compatible

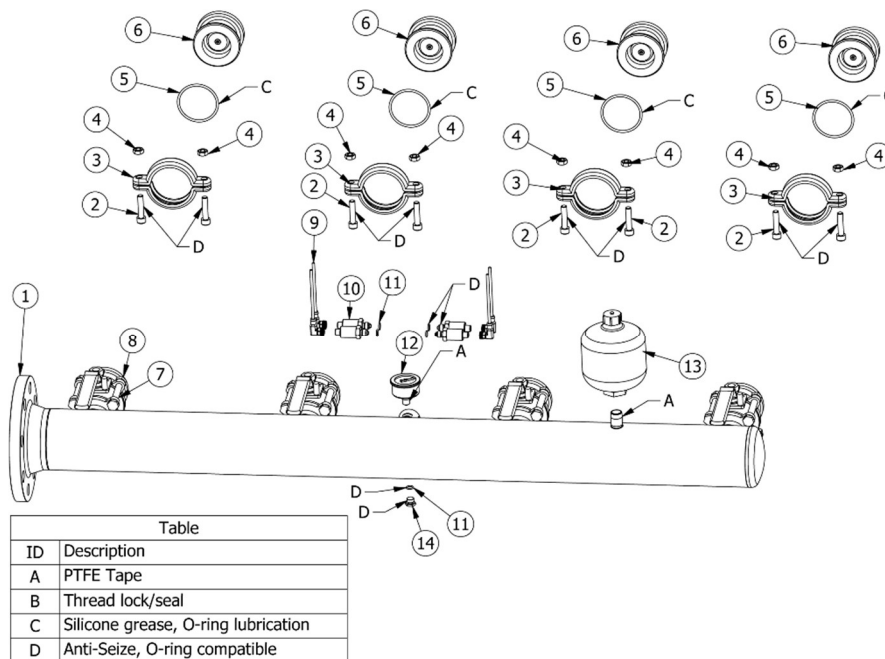
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	25-310165	Manifold BS30-20	AISI 304
2	3	30-532010	Pump coupling with 2" Flange	AISI 304
3	3	20-200300	Non-return valve 1.1/2"	AISI 304/NBR
4	3	17-010011	O-ring 70x4	NBR
5	3	30-740761	Flexi clamps ø76,1	-
6	6	08-001001	Nut M10	A2
7	6	08-801003	Screw M10x45 cylinder head	A2
8	3	20-000092	Ball valve 2" SS (Red) 2-way without flange	-
9	3	21-000102	Angle connector M12x5m	-
10	3	36-100090	Pressure transmitter 60 bar	-
11	1	22-000042	Gauge ø50 0-60 bar SS	AISI 304/brass/glycerine
12	1	28-000020	Diaphragm accumulator 0,7 L	-
13	2	16-501403	Plug 1/4" 9mm	AISI 316
14	5	17-020055	O-ring 10x2 70 sh	EPDM

03-900080



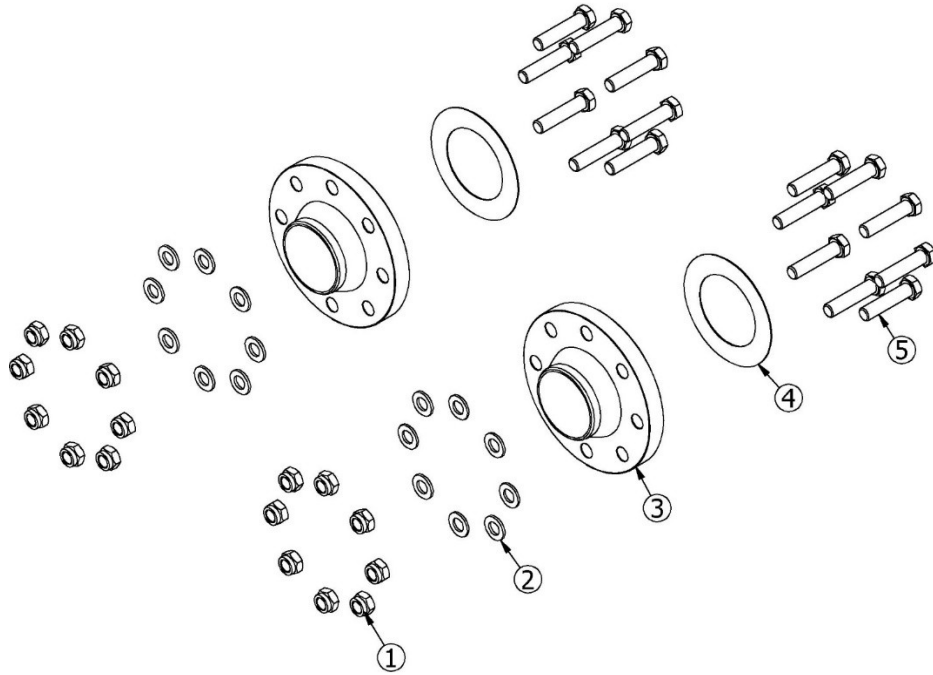
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	25-310160	Manifold BS40-20	AISI 304
2	4	30-532010	Pump coupling with 2" Flange	AISI 304
3	4	20-00092	Ball valve 2" SS (Red) 2-way without flange	-
4	4	16-501403	Plug 1/4" 9mm	AISI 316
5	5	17-020055	O-ring 10x2 70 sh	EPDM
6	1	22-000044	Gauge ø50, -1-16 bar SS	AISI 304/brass/glycerine
7	1	15-200082	Socket 1/4"x1/8"	AISI 316
8	1	17-000032	O-ring 10,1x1,6 NBR 70 shore	NBR
9	1	35-600065	Pressure switch 1/8" 0,1-2bar NO	-
10	1	15-901200	End cap 1/2" SS	AISI 316

03-900060



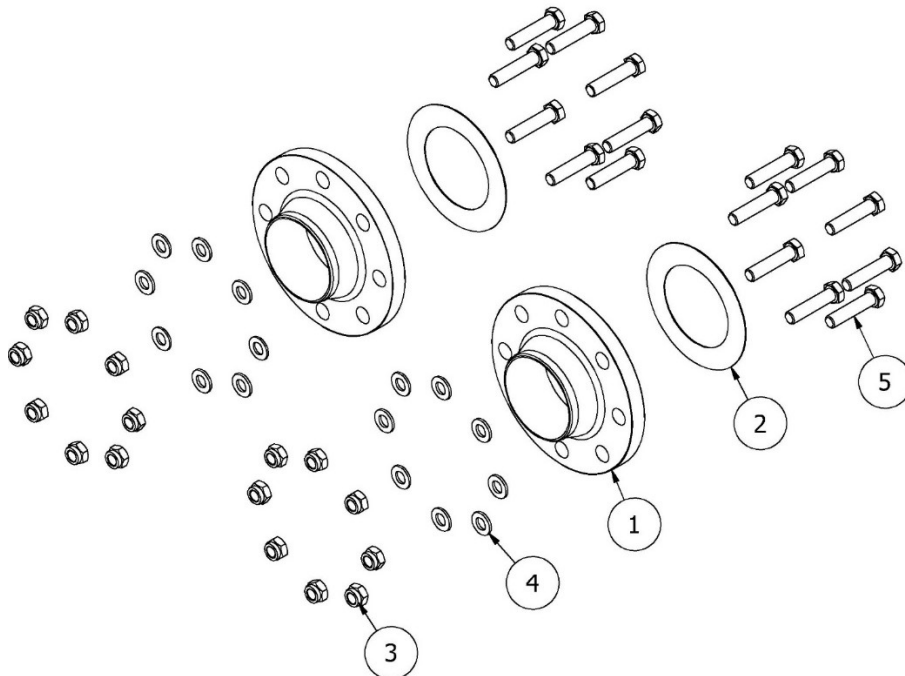
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	25-310160	Manifold BS40-20	AISI 304
2	8	08-801003	Screw M10x45 cylinder head	A2
3	4	30-740761	Flexi clamps ø76,1	-
4	8	08-001001	Nut M10	A2
5	4	17-010011	O-ring 70x4	NBR
6	4	20-200300	Non-return valve 1.1/2"	AISI 304/NBR
7	4	20-00092	Ball valve 2" SS (Red) 2-way without flange	-
8	4	30-532010	Pump coupling with 2" Flange	AISI 304
9	4	21-000102	Angle connector M12x5m	-
10	4	36-100090	Pressure transmitter 60 bar	-
11	5	17-020055	O-ring 10x2 70 sh	EPDM
12	1	22-000042	Gauge ø50 0-60 bar SS	AISI 304/brass/glycerine
13	1	28-000020	Diaphragm accumulator 0,7 L	-
14	1	16-501403	Plug 1/4" 9mm	AISI 316

240-500081



ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	16	08-001602	Lock nut M16 DIN 985 A2	A2
2	16	08-301601	Plain washer ø16 RFA2 DIN 125A	A2
3	2	12-400889	Welding flange ø88,9 SS	AISI 316
4	2	17-200300	Gasket 3" DN80 - Flange	NBR
5	16	08-201603	Bolt M16x70mm DIN 931 A2	A2

240-500082



ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	2	12-401143	Welding flange ø114,3 SS	AISI 316
2	2	17-200400	Gasket 4" DN100 - Flange	NBR
3	16	08-001602	Lock nut M16 DIN 985 A2	A2
4	16	08-301601	Plain washer ø16 RFA2 DIN 125A	A2
5	16	08-201603	Bolt M16x70mm DIN 931 A2	A2



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Please note:

We reserve the right to make alterations to the technical specifications without notice.