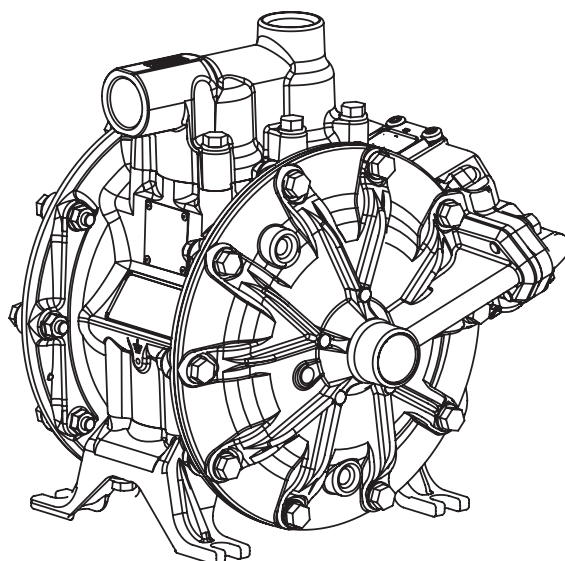
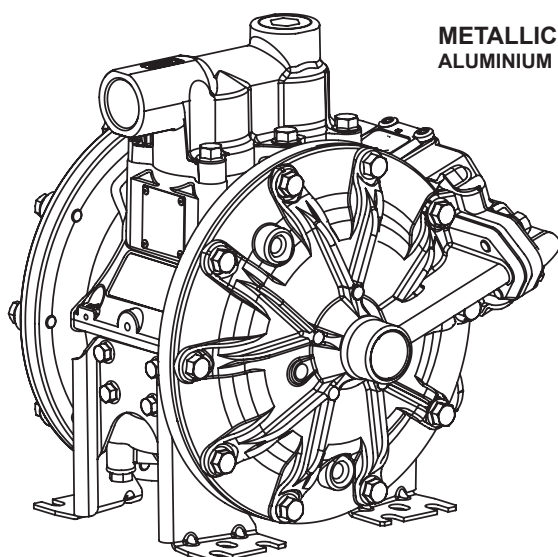


Parts and technical service guide
Guía de servicio técnico y recambios
Guide d'instructions et pièces de rechange
Bedienungsanleitung und Teileliste
Manual de utilizagao e garantia
Список деталей и руководство по техническому обслуживанию

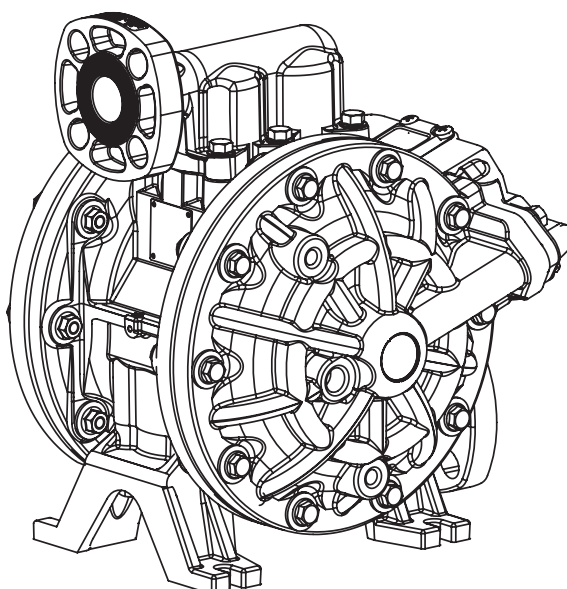
METALLIC
STAINLESS STEEL



METALLIC
ALUMINIUM



NON-METALLIC
POLYPROPYLENE
CONDUCTIVE POLYPROPYLENE
CONDUCTIVE ACETAL
PVDF / CONDUCTIVE PVDF



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CODING

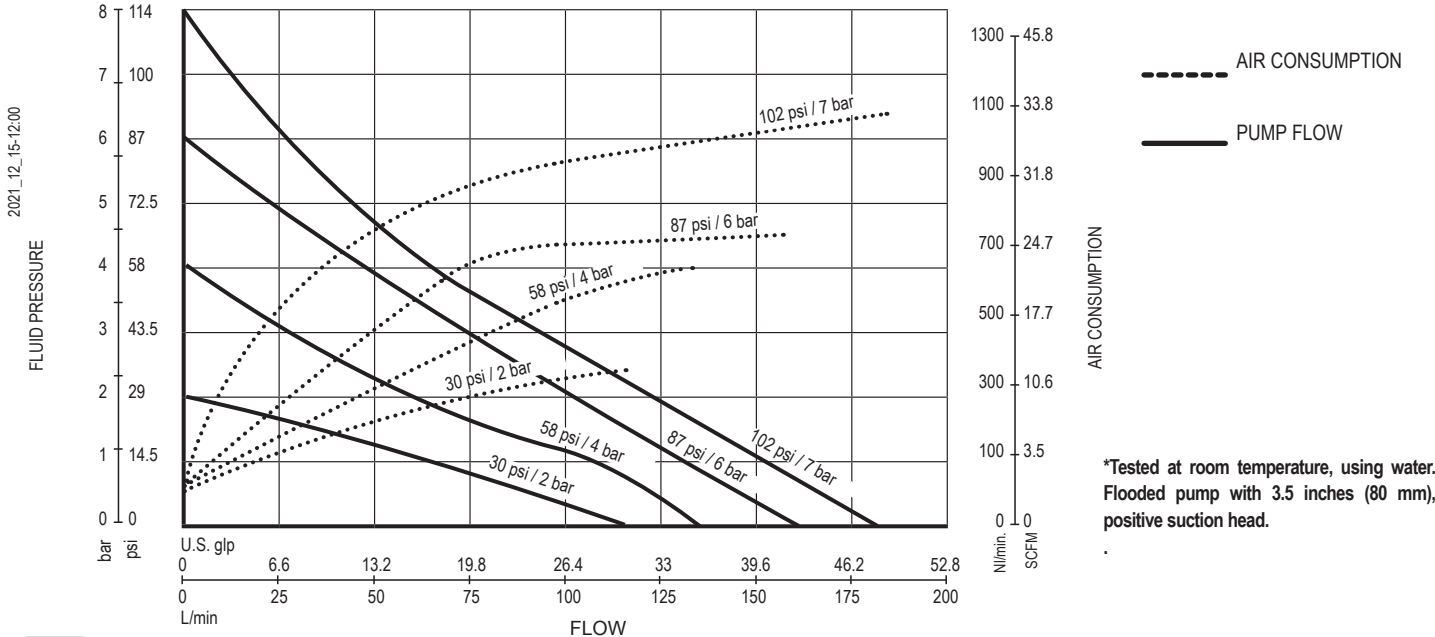
DP200	X	X	X	X	X	X	X	X	X
EN	AIR VALVE A Aluminum / Aluminio P Polypropylene / Polipropileno	BODY PUMP A Aluminum / Aluminio S Stainless steel / Acero inoxidable P Polypropylene / Polipropileno B Conductive PP C POM W PVDF	PUSH ROD S Stainless steel Y Hastelloy® C	SEALS N NBR V FKM E EPDM T PTFE	SEATS S Stainless steel / Acero inoxidable A Aluminum / Aluminio P Polypropylene / Polipropileno C POM W PVDF N NBR M Santoprene® H Hytrel®	BALLS T PTFE C POM S Stainless steel / Acero inoxidable N NBR	DIAPHRAGMS H Hytrel® T PTFE M Santoprene® N NBR	CONNECTIONS B BSP N NPT F Flange	OPTIONS A Standard pump B Remote exhaust kit included C Diaphragm leak detector D Cycle sensor E Externally controlled with solenoid valve (not included) F Nose muffler included G Externally controlled with solenoid valve (not included) and inductive end of stroke sensors NPN (included) / I Externally controlled with solenoid valve (not included) and inductive end of stroke sensors ATEX-Namur (included) U Pump suitable for UV fluids

TECHNICAL DATA

	DP200
RATIO	1:1
MAXIMUM FREE FLOW	53 Us gal/min (200 l/min)
DELIVERY PER STROKE	17 oz (0.5 l)
AIR PRESSURE OPERATING RANGE	20 to 120 psi (1,5 to 8 bar)
SOLID IN SUSPENSION MAX SIZE	1/4" (6 mm)
MAXIMUM SUCTION HEAD	16.5 ft (5 m) dry (seco), 26.2 ft (8 m) wet
WEIGHT	44.09 lb (20 kg) Stainless Steel 24.25 lb (11 kg) Aluminum 23.1 lb (10,5 kg) Plastic
FLUID INLET/ OUTLET CONNECTIONS	1" BSP (F) or NPT (F) Aluminum and Stainless steel pumps FLANGE DIN DN25 or ANSI 1" B16.5 150 lbs BRIDA DIN DN25 o ANSI 1" B16.5 150 lbs
AIR INLET	3/8" NPSM (F)
TEMPERATURE RANGE	32 -158 °F (0 - 70 °C)

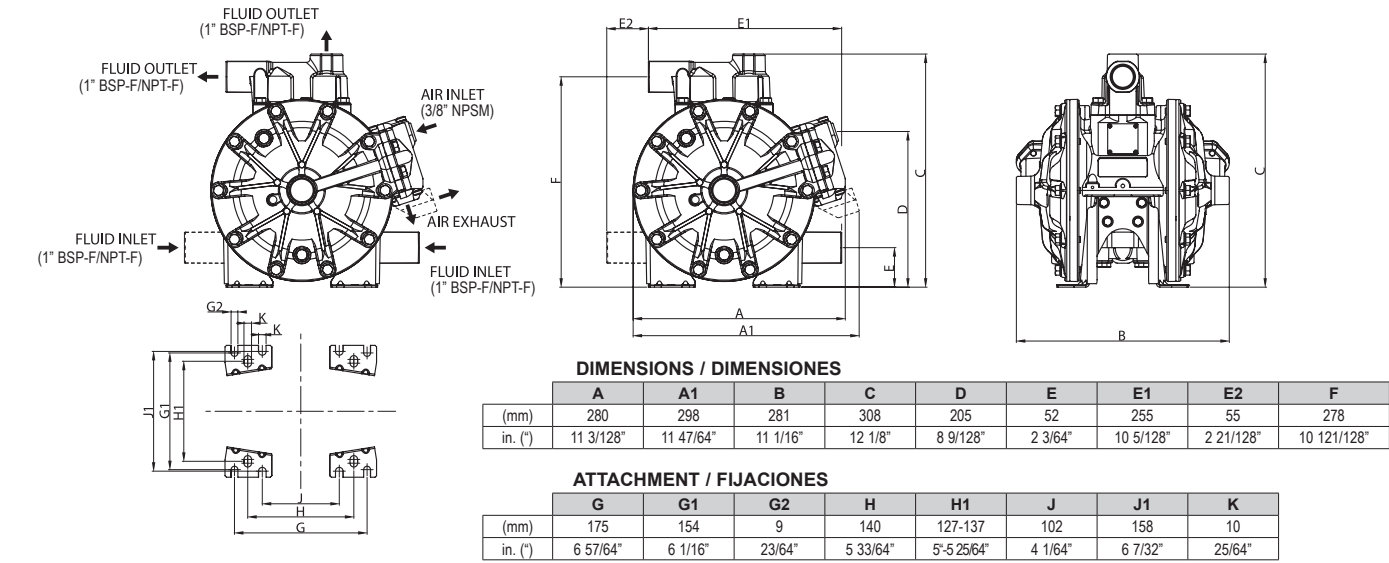
(oz, ft, gal/min) all in EEUU units

CAPACITY CURVES

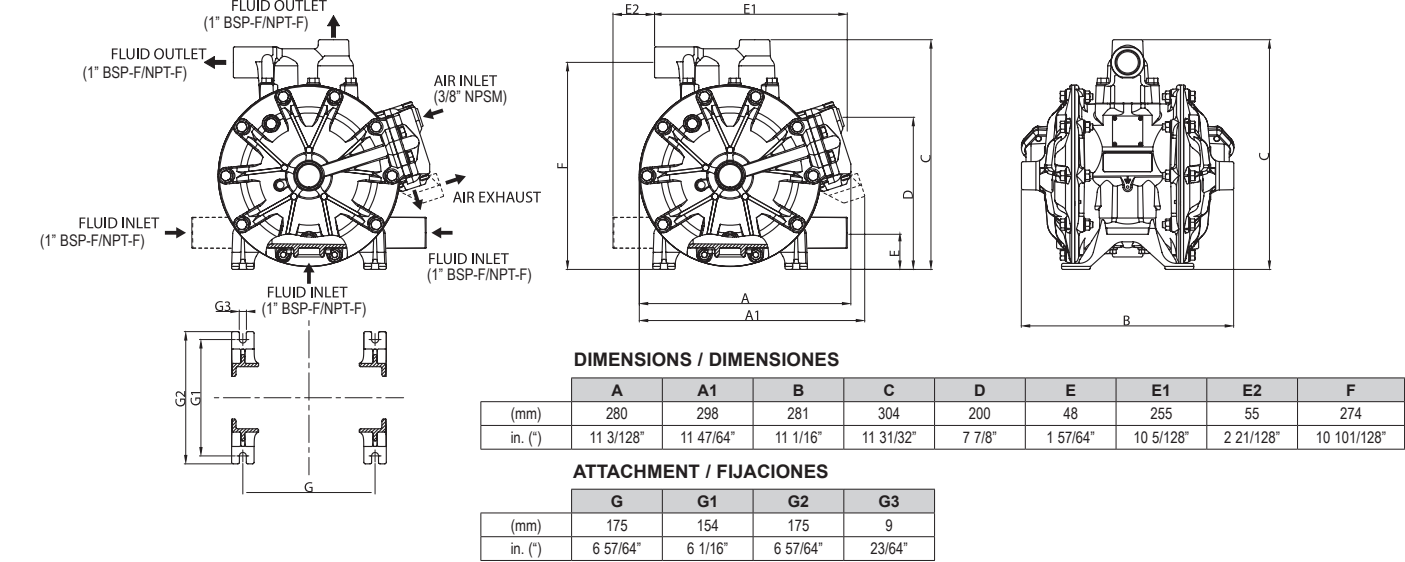


DIMENSIONS

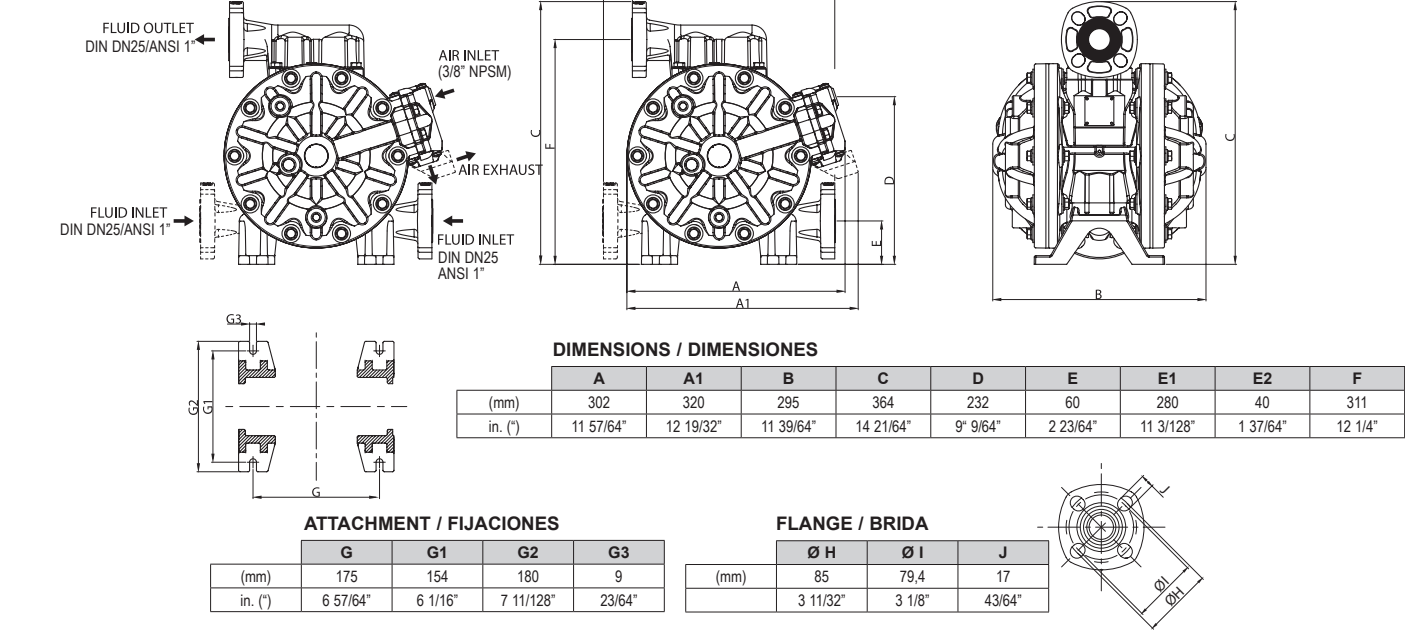
METALLIC-ALUMINIUM



METALLIC-STAINLESS STEEL



NON METALLIC



IMPORTANT: When doing a pump maintenance that implies manifold disassembling and pump is fitted with PTFE o-rings (white colour), they must be replaced by new ones in order to avoid fluid leakages".

In this document you will find warnings and cautions for installation, use and maintenance of the pumps.
Here's the meaning of symbols you may find in this document and general warnings that you should keep in mind.



WARNING: This symbol aware that there is a danger of serious bodily injury or death if you ignore the warning described.

CAUTION: This symbol aware that there is a danger of personal injury or property damage if you ignore the caution described.



WARNING: CAREFULLY READ THE INSTRUCTIONS AND WARNINGS BEFORE OPERATING THE EQUIPMENT!

- This equipment is for professional use only.
- Do not degrade the integrity of the equipment. Use only original replacement components from EUROLUBE by Alentec & ORION AB
- Fluids not suitable for the pump can cause damage to the pump unit and involve risk of serious personal injury. Always consult EUROLUBE by Alentec & ORION AB if you have any questions about the compatibility within the fluids and the pump materials, including elastomers.
- Install and use the pump according to all local and national regulations and abide all health and safety laws or legislation.
- The pump can produce fluid pressures equal to the air supply pressure. Do not exceed the maximum allowable pressure of 120 psi (8 bar) air supply. The total hydraulic pressure (differential pressure + system) should never exceed 120 psi (8 bar).
- Never use a pump that leaks, that is damaged, that is corroded or otherwise it may lack the capacity to contain the fluid.
- Frequently check that the bolts on the diaphragm cover of the pump are torqued correctly.
- Do not use a model with aluminium wetted surfaces to pump fluids for human consumption, there is a possibility of trace contamination of lead.
- Danger of explosion if used 1,1,1-trichloroethane, methylene chloride or other halogenated hydrocarbon solvents with aluminium wetted materials. It could cause serious injury and property damage.
- Inside the pump, diaphragms separate the fluid that is being pumped from the air supply. If a diaphragm breaks, the fluid can leak out of the air exhaust and contaminate the environment.
- When handling hazardous fluids, always route the air exhaust into a suitable container and locate it in a safe place. (Optional connection system at customer's request. Not supplied with the unit).
- When the fluid source level is situated higher than the pump, (flooded suction), the outlet tank must be at a higher level than the product to prevent spills.
- For pumps handling hazardous fluids that are a danger to humans or to the environment, install a suitable container surrounding the pump to prevent any leaks or spills.
- Ensure that the operators of this equipment are trained on the operation and limitations. Use safety equipment as safety goggles or

DESCRIPTION

Air operated double diaphragm pumps are air-powered, reciprocating positive displacement pumps with two pumping chambers. Two diaphragms, centrally located in the chambers, separate the compressed air (dry side) from the fluid being pumped (wet side). A shaft transmits the reciprocating motion of one diaphragm to the other. A directional valve alternatively distributes the air from one chamber to the other; thus a reciprocating movement of the diaphragms is created. With each stroke, fluid is discharged by one of the diaphragms whilst the opposite diaphragm sucks new fluid into the expanding chamber. Check valves, two on the discharge side and two on the suction side, control and direct the fluid flow.

MATERIAL	TEMPERATURE RANGE
PTFE	5 °C - 105 °C / 41 °F - 221 °F
NBR	10 °C - 80 °C / 50 °F - 176 °F
Acetal	10 °C - 90 °C / 50 °F - 194 °F
Hytrel®	10 °C - 90 °C / 50 °F - 194 °F
Neopreno	-18 °C - 93 °C / 0 °F - 200 °F
Santoprene®	-29 °C - 135 °C / -20 °F - 275 °F
Viton®	-10 °C - 177 °C / -4 °F - 351 °F
Polypropylene	10 °C - 80 °C / 50 °F - 176 °F

INSTALLATION

INSTALLATION RECOMMENDATIONS

- Remove the pump from its package and install it on the chosen location.
- Try to minimize the suction head. Install the pump as close as possible to the fluid being pumped.
- Remember to have enough space around the pump to perform maintenance tasks.
- Keep in mind to connect the inlet and outlet of the pump correctly.
- In case of diaphragm pump failure, the air exhaust will expel the product being pumped.
- When the pump is installed in a place where a spill of fluid can cause an environmental impact, the exhaust should be directed to a place where this spill could be contained.
- When installing the pump in its place, use brackets to secure its base.
- Fasten all bolts with the torques contained in this manual.

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INSTALLATION

DP PUMPS ARE VERY EASILY CONFIGURED AND EASY TO INSTALL

FLOODED:

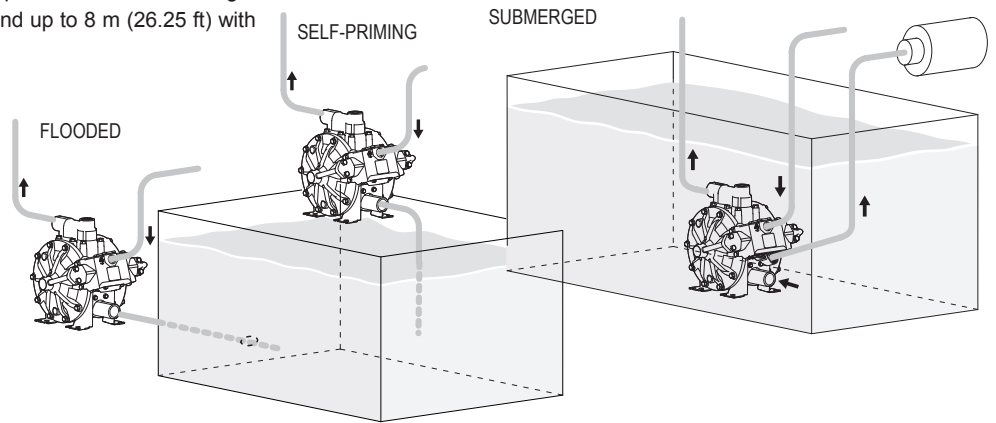
The pumping system was designed with positive pressure at the inlet. This is the best possible installation when you need to evacuate the liquid from the drum or tank, or when working with viscous fluids. Not recommended for hazardous fluids.

SELF-PRIMING:

Pump is designed to generate vacuum. It is possible to evacuate all the air from a hose or pipe without damaging the pump. Maximum suction height is (5 m) 16.5 ft, with the suction hose empty and up to 8 m (26.25 ft) with the hose primed.

SUBMERGED:

All pumps can be immersed in fluids. It is important to verify that all components that are in contact with the fluid are chemically compatible. In this case, air exhaust and fluid must be carried by hoses (optional air connection).



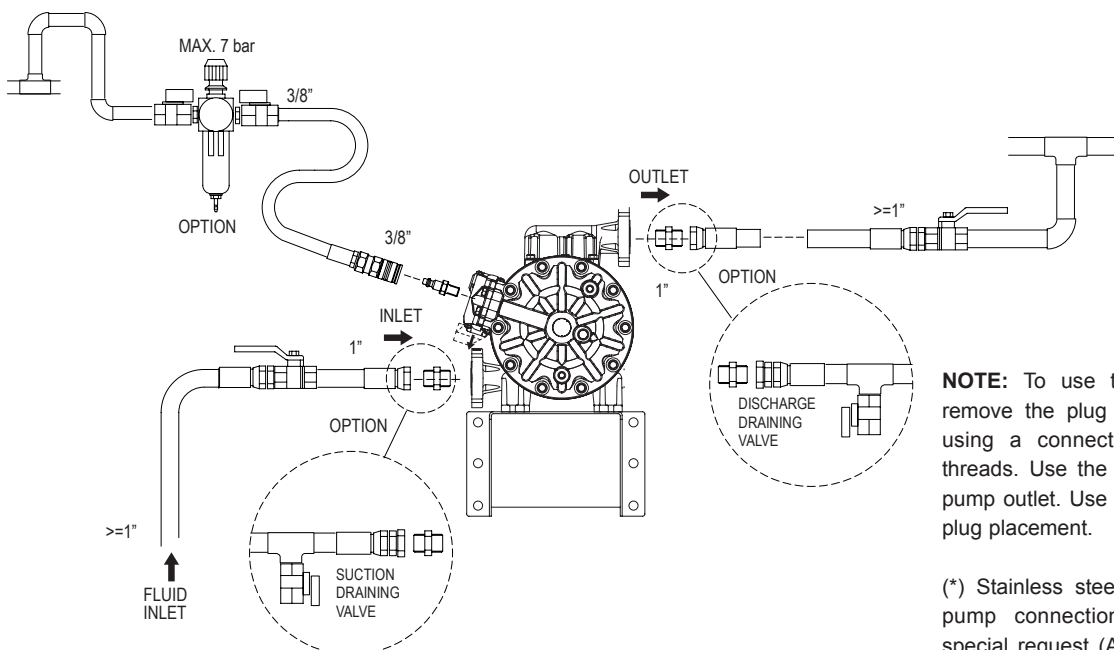
NOTE: Use a pressure regulator with built-in filter inlet.

NOTE: The compressed air supply must be between 1,5 bar (20 psi) and 8 bar (120 psi).

RECOMMENDED INSTALLATION

The figure below shows the recommended configuration for the installation of a diaphragm pump. Read the warnings and recommendations of the previous page before starting.

METALLIC



Apply PTFE tape to threads at assembly

NOTE: To use the top pump connection, remove the plug and install the outle hose using a connector compatible with pump threads. Use the plug to close the standard pump outlet. Use Teflon tape to seal the new plug placement.

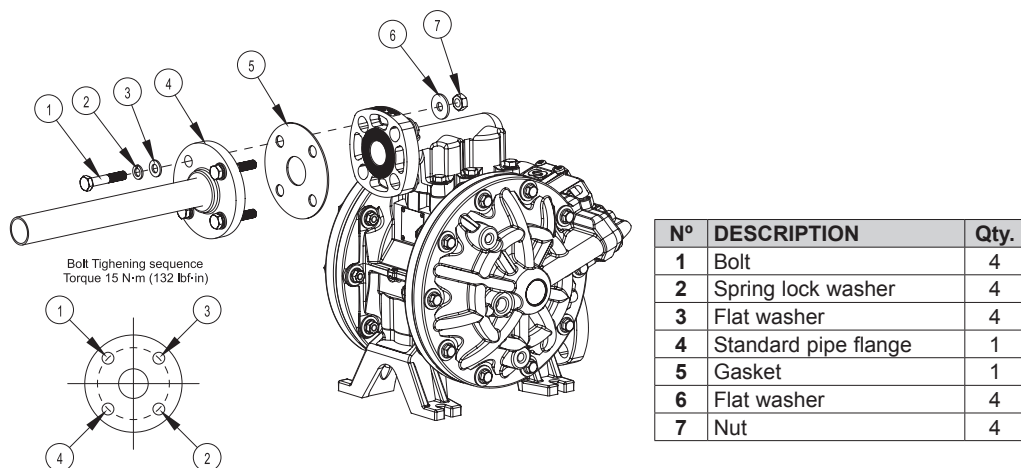
(*) Stainless steel manifold top and bottom pump connections: Only available under special request (Ask EUROLUBE by Alentec Orion or your local distributor).

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RECOMMENDED INSTALLATION

The figure below shows the recommended configuration for the installation of a diaphragm pump.
Read the warnings and recommendations of the previous page before starting.

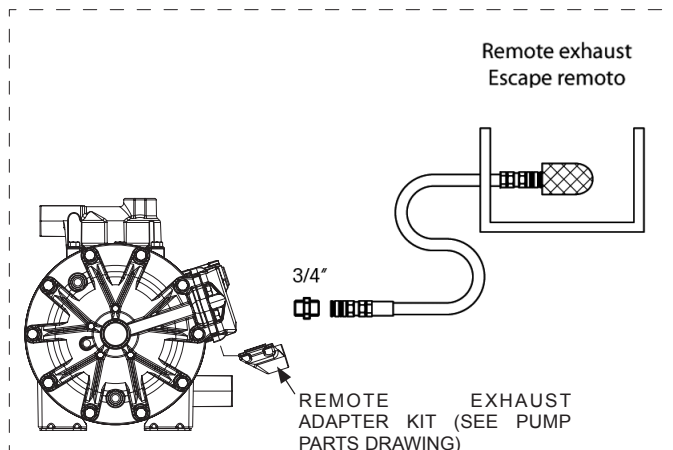
NON-METALLIC



AIR EXHAUST DISPOSAL

WARNING

- Optional kit is required for remote exhaust.
- Unscrew the 4 bolts and remove the standard muffler (pos. 1-10, pos. 1-12) in pump part drawing.
- Place the remote exhaust adaptor (pos. 1-41), (remember to install the included o-ring on its housing, (1-40). Screw the four bolts (pos. 1-42) previously removed.
- Connect a hose to the new exhaust port and install the muffler at the end of the hose. Use a hose with the same diameter as the exhaust port 3/4" NPT. (If the hose is more than 1.5 m (5 feet), consult your local distributor or EUROLUBE by Alentec & ORION AB).
- Have a moat, a protective housing, etc. at the end of the hose.



AIR CONNECTION

- WARNING:** To ensure that the air supply is sufficient to meet the demand of the pump, the diameter of the pipe must be equal to the diameter of the supply port of the pump. Choose auxiliary air treatment equipment and fittings with sufficient airflow to exceed the air consumption of the pump. In addition, peripheral air treatment equipment must be installed as close as possible to the pump unit.
- The use of a coupler to connect the hoses aids future operation and maintenance tasks.

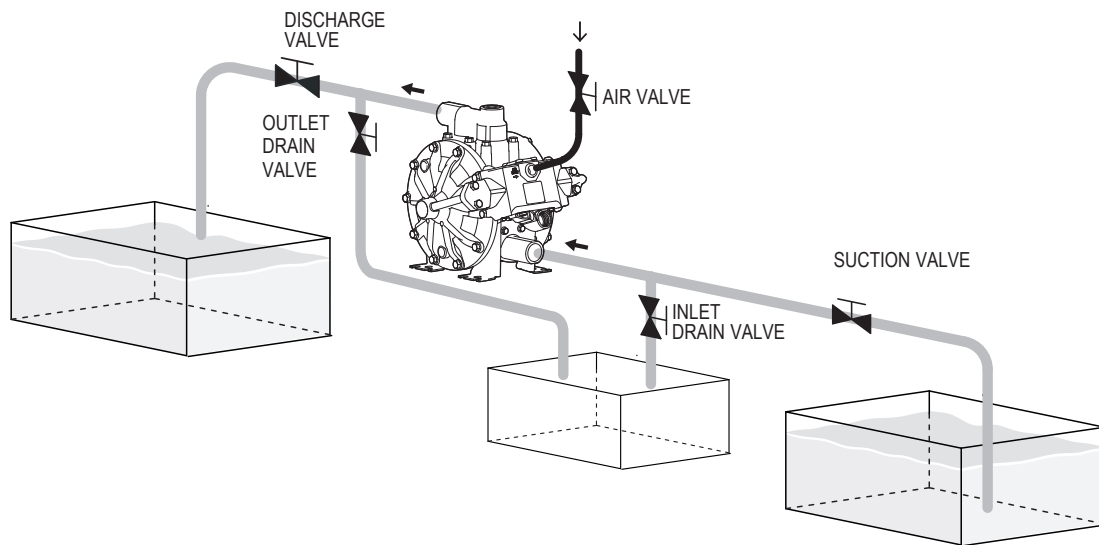
OPERATING INSTRUCTIONS

THIS PUMP IS SELF-PRIMING

To prime it the first time, you must connect the air pump supply to a low pressure using the pressure regulators while keeping the outlet valve open. When fluid begins to flow from the pump outlet, the pump is primed. For regulation of fluid pressure, the unit must be supplied with an air pressure between 1,5 and 8 bar (20 and 120 psi). Adjust the discharge valve on the discharge side to control flow. For the performance characteristics of the pump see the capacity curve.

STOPPING THE PUMP FOR MAINTENANCE TASKS

- Stop the air supply.
- Make sure for your safety that the air valve is closed.
- Close the discharge valve and the suction valve. Open inlet and outlet drain valves.
- Open the air valve of the pump, running bring on the pump and flushing the remaining fluid.
- Close the air valve.
- After ensuring that the pump was turned off and the pressure was released, pump is ready for its maintenance.



GROUNDING THE PUMP

When installing the pump, be sure to perform grounding in the specified location.

Also connect ground wires for the auxiliary equipment and piping.

Use a grounding cable of at least 12 gauge (2.0 mm²).

If the pump you have purchased is valid for ATEX, a specific ATEX manual will accompany this one. Read this manual before operating the pump.

If the unit is marked with the symbol Ex , it can be used in potentially explosive atmospheres. Below this symbol, in the nameplate of the pump, are indicated the areas for which the equipment is approved. You will also find the maximum allowable surface temperature in the same plate.

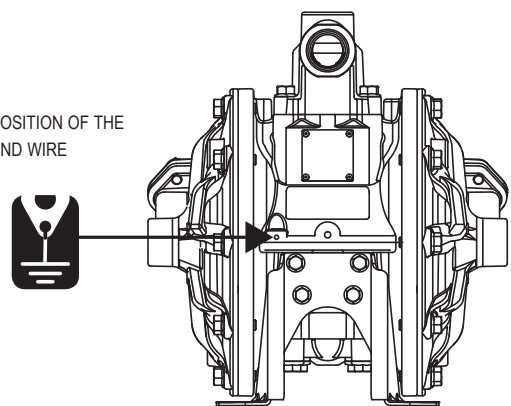


WARNING

Connect grounding wires to the pump, piping and all other equipment too.

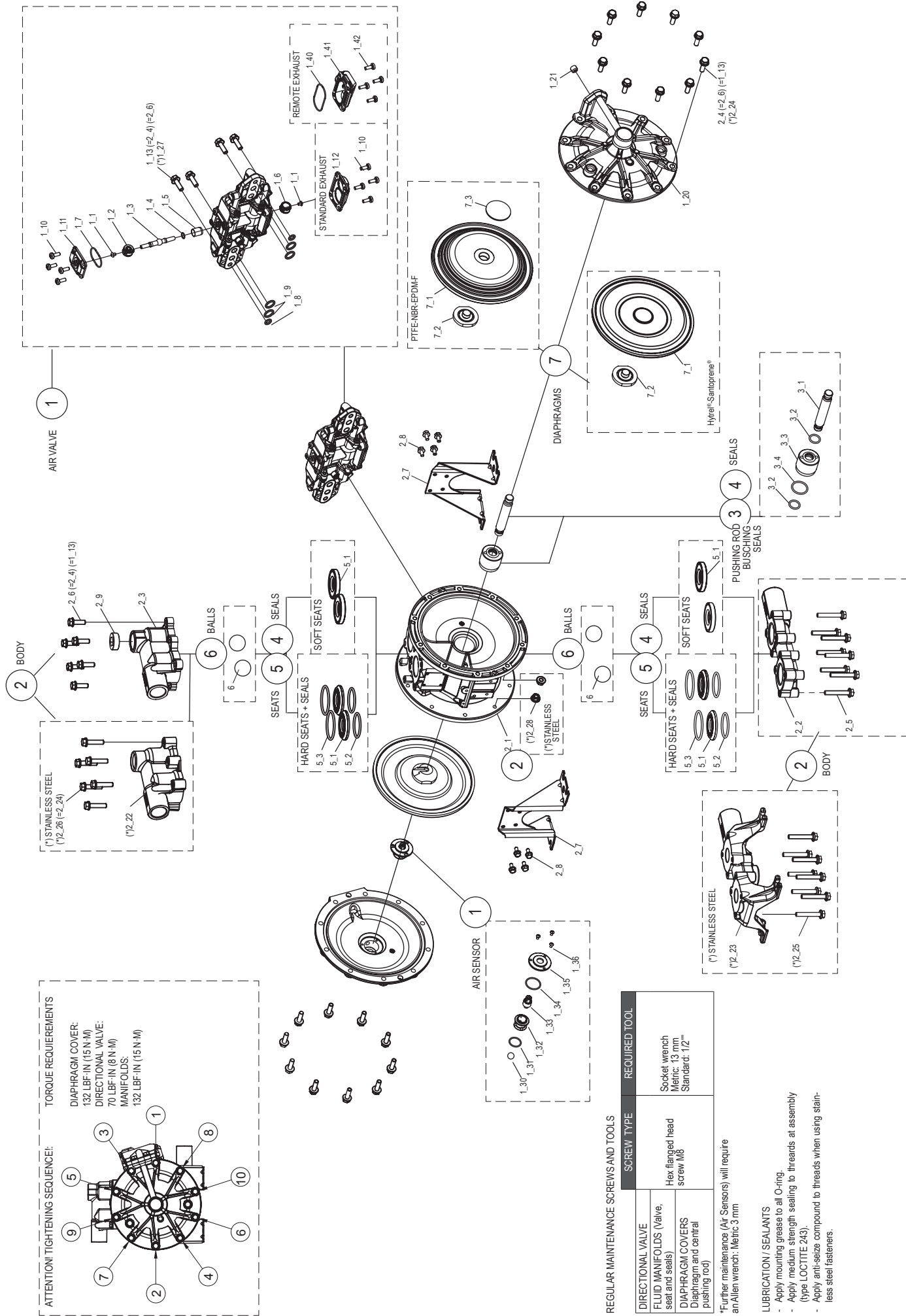
When the pump operates ungrounded or with an incorrect connection, friction between parts and abrasion caused by some fluids that flow inside the pump, can generate static electricity. Moreover, according to the type of fluid pump and the installation environment (such as gases in the air or the type of the surrounding facilities) static electricity can cause fire or electric shock.

THE POSITION OF THE
GROUND WIRE



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METALLIC PUMP PARTS DRAWING



[illegible]

AIR VALVE			BALL VALVE REPAIR KIT
AIR VALVE	AIR SENSORS	REMOTE EXHAUST	KIT CODE
	POS 1_10 to 1_13	POS 1_40 to 1_42	
A	558525	558562	T C S N
			558529 558528 558530 558531
			- 551010/555030 - -

	CENTRAL BODY	CENTRAL BODY AND MANIFOLD	
		INLET MANIFOLD	OUTLET MANIFOLD
	POS 2 _{-in}	POS 2_2	POS 2_3
		BSP THREADS	NPT THREADS
A	755123.001	755126.001	755125.001
S	855052	855054	855053
		855054.300	855053.300

3	4	PUSH ROD REPAIR KIT	
PUSH ROD	SEALS	KIT CODE	NUMERICAL CODING 11745, 11747
S	V	558556	-
S	E	558557	-
S	T	558566	-
S	N	558554	555010/555030

5	4	SEATS VALVE REPAIR KIT	
SEATS	SEALS	KIT CODE	NUMERICAL CODING 11745, 11747
A	N	558539	-
A	V	558540	-
A	E	558541	-
A	T	558542	-
S	T	558551	-
N		558535	555030
H		558552	555010
M		558553	-

6 BALL VALVE REPAIR KIT		
	KIT CODE	NUMERICAL CODING 11745, 11747
T	558529	-
C	558528	551010/555030
S	558530	-
N	558531	-

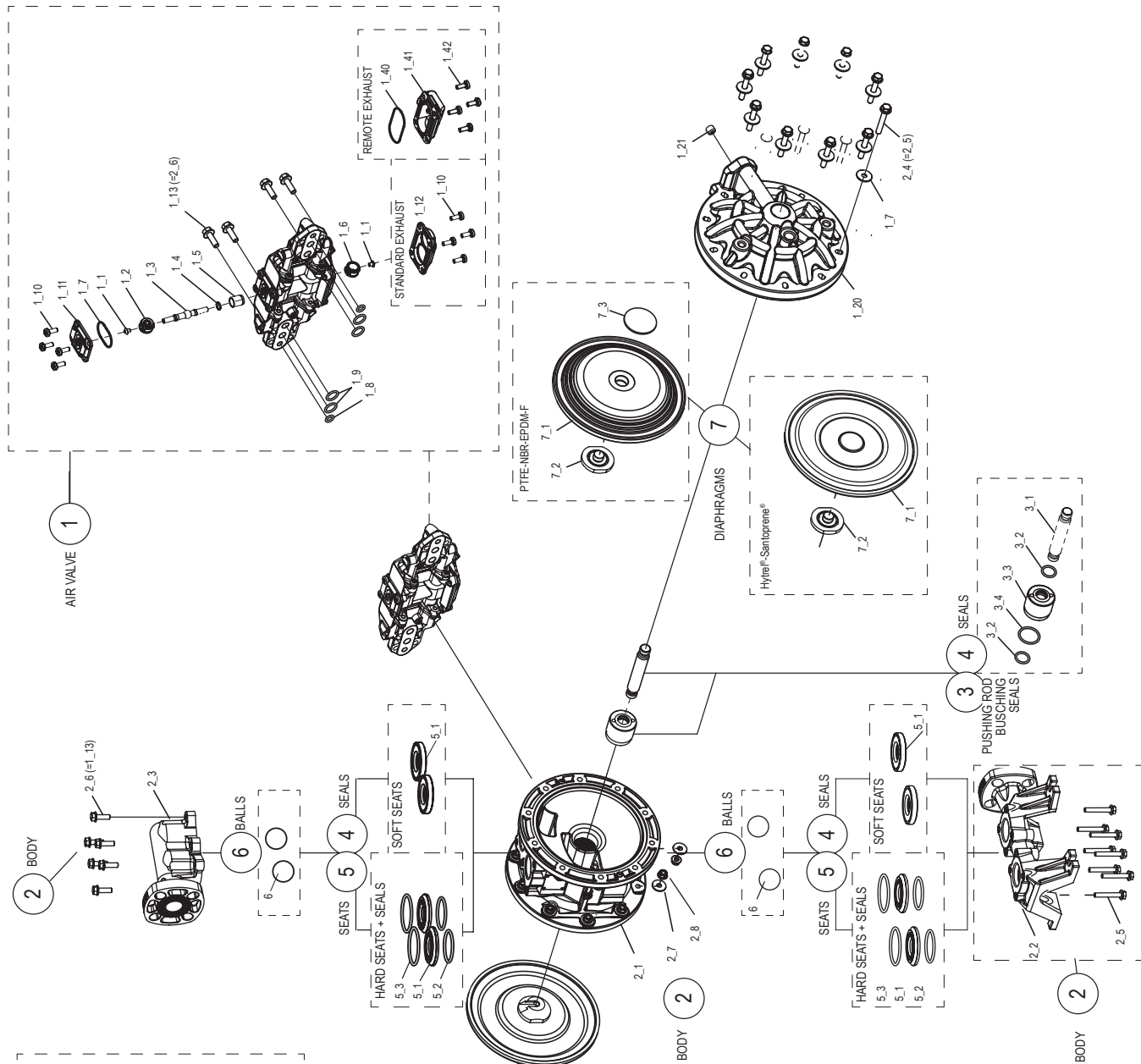
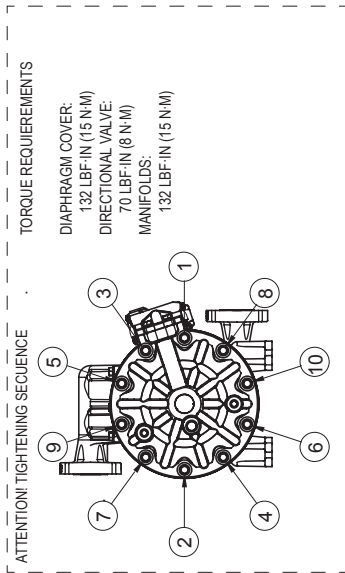
7	DIAPHRAGMS	
	KIT CODE	NUMERICAL CODING 11745, 11747
H	558521	555010
M	558523	-
N	558561	555030
T	558522	-

TECHNICAL CHARACTERISTICS LABEL



MODEL:
11745, 11747 (numerical coding)
DP200XXXXXXXXXX (alphanumeric coding)

NON-METALLIC PUMP PARTS DRAWING



REGULAR MAINTENANCE SCREWS AND TOOLS

	SCREW TYPE	REQUIRED TOOL
DIRECTIONAL VALVE	Hex flanged head screw M6	Socket wrench Metric: 13 mm Standard: 1/2"
FLUID MANIFOLDS (Valve, seat and seals)		
DIAPHRAGM COVERS (Diaphragm and central pushing rod)		

*Further maintenance (Air Sensors) will require an Allen wrench: Metric 3 mm

LUBRICATION / SEALANTS

- Apply mounting grease to all O-ring.
- Apply medium strength sealing to threads at assembly (type LOCTITE 243).
- Apply anti-seize compound to threads when using stainless steel fasteners.

NON-METALLIC PUMP

DP200	X	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9			
	AIR VALVE	BODY PUMP	PUSH ROD	SEALS	SEATS	BALLS	DIAPHRAGMS	CONNECTIONS	OPTIONS			
	P Polypropylene	P Polypropylene B Conductive PP W PVDF	S Stainless steel Y Hastelloy® C	N NBR V FKM E EPDM T PTFE	P Polypropylene C POM W PVDF M Santoprene® H Hytrel®	T PTFE C POM S Stainless steel N NBR	H Hytrel® T PTFE M Santoprene® N NBR	F Flange	A Standard pump B Remote exhaust kit included C Diaphragm leak detector D Cycle sensor E Externally controlled with solenoid valve (not included) F Nose muffler included G Externally controlled with solenoid valve (not included) and inductive end of stroke sensors NPN (included) I Externally controlled with solenoid valve (not included) and inductive end of stroke sensors ATEX-Namur (included) U BP ump suitable for UV fluids			

1	AIR VALVE			
	AIR VALVE	AIR SENSORS	REMOTE EXHAUST	
P	POS 1_1 a 1_13 558525	POS 1_30 a 1_36 558527	POS 1_40 a 1_42 558562	

2	CENTRAL BODY AND MANIFLOD			
	CENTRAL BODY	INLET MANIFLOD	OUTLET MANIFLOD	
	POS 2_1	POS 2_2	POS 2_3	
P	755552	BRIDA DIN/ANSI	BRIDA DIN/ANSI	
B	755553	896642	755560	
W	755556	896643	894637	
		896646	755561	

3	PUSH ROD REPAIR KIT			
PUSH ROD	SEALS	CÓD. KIT	NUMERICAL CODING 11745, 11747	
	ATEX PUMP	NO ATEX PUMP		
S	V	558556	558555	555164
S	E	558557	558558	-
S	T	558566	558560	-
Y	T	558559	-	-

5	SEAT'S VALVE REPAIR KIT			
SEATS	SEALS	KIT CODE	NUMERICAL CODING 11745, 11747	
P	V	558544	558545	555164
P	E	558545	558546	-
P	T	558546	558536	-
C	V	558536	558537	-
C	E	558537	558538	-
C	T	558538	558548	-
W	T	558548	558552	-
H	-	558552	558553	-
M	-	558553	-	-

6	BALLS VALVE REPAIR KIT		
	KIT CODE	NUMERICAL CODING 11745, 11747	
T	558529	555164	
C	558528	-	
S	558530	-	
N	558531	-	

7	DIAPHRAGMS		
	KIT CODE	NUMERICAL CODING 11745, 11747	
H	558521	555164	
M	558523	-	
N	558561	-	
	(1) 558522	-	
	(2) 558567	-	

(1) For pump fitted with stainless steel central pushing rod.
(2) For pump fitted with hastelloy® C central pushing rod.

TECHNICAL CHARACTERISTICS LABEL

MODEL:

CODE:

MTG. DATE:

MAXIMUM AIR PRESSURE:

MAXIMUM FLUID PRESSURE:

FLUID IN / OUT:

SERIAL No.:

CE

ERIC

MADE IN SPAIN - PATENTED

MODEL:
11745, 11747 (numerical coding)
DP200XXXXXXXXXX (alphanumeric coding)

CAUSE	RECOMMENDED MEASURE
THE PUMP DOES NOT WORK	
The discharge valve on the discharge side is not open.	Open the discharge valve on the discharge side.
No air supply.	Turn on the compressor and open the air valve and air regulator.
The air supply pressure is low.	Check the compressor and the configuration of the air line.
Air leaks in connecting elements.	Check the connection elements and the tightening of the screws.
The air pipes or ancillary equipment is clogged with mud.	Check and clean the air line.
The exhaust port (muffler) of the pump is clogged with mud.	Check and clean the exhaust port and muffler.
The fluid pipe is clogged with mud.	Check and clean the fluid line.
Pump is clogged with mud.	Remove, inspect and clean the pump body.

THE PUMP RUNS BUT NO FLUID COMES OUT	
The valve on the suction side is not open.	Open the valve on the suction side.
Too much suction or discharge height.	Confirm the configuration of the pipe and reduce the height of the same.
Fluid pipe discharge side (including the filter) is clogged with mud.	Check and clean the fluid line.
Pump is clogged with mud.	Dismantle the pump, check and clean.
The ball and ball seat is worn or damaged.	Inspect and replace parts.

THE FLOW IS DECREASING	
The air supply pressure is low.	Check the compressor and the configuration of the air line.
The air line or peripheral equipment clogged with mud.	Check and clean the air line.
Valve discharge side drive will not open normally.	Adjust the discharge valve discharge side.
The air mixes with the fluid.	Replenish fluid and check the configuration of the pipe on the suction side.
Cavitation occurs.	Adjust air supply pressure and discharge pressure and reduce the suction.
Vibrations.	Adjust air supply pressure and discharge pressure. Reduce the flow of the inlet valve to adjust pressure and volume of fluid.
Ice formation in the air exhaust.	Remove ice from the air bypass valve and check and clean the air filter. Use a pipe in the exhaust air that the ice does not form in the muffler.
The fluid line (including the filter) plugged with mud.	Check and clean the fluid pipe and strainer.
The exhaust port (muffler) of the pump is clogged with mud.	Check and clean the exhaust port and muffler.
Pump is clogged with mud.	Remove, inspect and clean the pump body.

LEAKAGE OF FLUID THROUGH THE HOLLOW EXHAUST (SILENCER)	
The diaphragm is damaged.	Remove and inspect the pump and replace the diaphragm.

IRREGULAR NOISE	
The air supply pressure is too high.	Adjust air supply pressure.
The pump is clogged with sludge particles larger than the diameter allowed.	Remove, check and clean the pump body.

IRREGULAR VIBRATION	
The elements of connection and the support of the pump are loose.	Review each element of connection and tighten the screws.
The air supply pressure is too high.	Adjust air supply pressure.
The range and ball valve vibrates.	Adjust air supply pressure and exhaust pressure.

IN FLUID WITH AIR BUBBLES	
Diaphragm damaged.	Replace diaphragm.
Suction hose loose or broken.	Tighten or replace.

POWERED AIR LEAK PRESSURE OF 1,5 TO 8 BAR (20 TO 120 PSI)	
Wear air valve.	Replace air valve.

NO START-UP AND IS LEAKING AIR WITHOUT CYCLES	
Stiff air sensors.	Change air sensor.
Wear air valve.	Replace.

REPAIR AND MAINTENANCE PROCEDURES

TORQUES NECESSARY FOR THE PROPER FUNCTIONING OF THE PUMP

For proper operation of the pump and to prevent accidents which may damage equipment and in the worst case, people, you must periodically review the torques of the diaphragms covers and the DIRECTIONAL VALVE. In the next table are shown the appropriate torques for this purpose:

TORQUES DP200	Diaphragm cover	132 lbf·in (15 N·m)
	Directional valve	70 lbf·in (8 N·m)
	Manifolds	132 lbf·in (15 N·m)

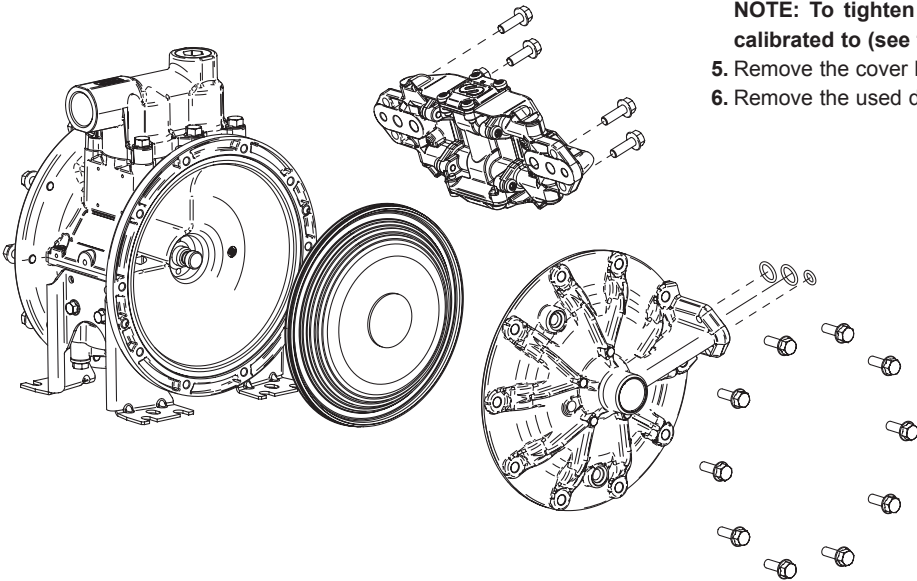
CAUTION!: DO NOT OVERTIGHTEN FASTENERS.

DIAPHRAGM MAINTENANCE

Before any intervention: DISCONNECT AIR SUPPLY OF THE PUMP.
IT IS NOT NECESSARY TO REMOVE THE PUMP FROM THE FLUID LINE.
ANTICIPATE A POSSITE LEAKAGE OF FLUID INSIDE THE PUMP.

REMOVING THE DIAPHRAGM:

1. Close inlet and discharge fluid valves.
2. Drain the fluid inside the pump.
3. Remove the directional valve while being careful not to damage the seals between air valve and diaphragm.
4. Remove the diaphragm cover screws.
NOTE: To tighten these screws you must use a torque wrench calibrated to (see torque table in this page).
5. Remove the cover by gently pulling back.
6. Remove the used diaphragms.



NOTE: Be careful to not lose the seals between valve and diaphragm cover.

INSTALLING THE NEW DIAPHRAGMS - ASSEMBLING PROCEDURE

CAUTION: Follow next procedure to ensure the diaphragms are correctly installed. If not followed diaphragm bead could be extruded out of its housing with the resulting damage over the diaphragm bead and thus possible fluid leaks or premature diaphragm failure.

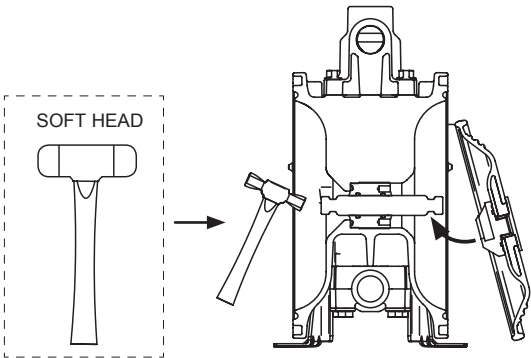
1. PREPARING THE CENTRAL ROD FOR DIAPHRAGM INSTALLATION
Using a soft head hammer displace the central rod out of the body enough to install the diaphragm without deforming it.

Avoid instally the diaphragm without preparing the central rod in its proper position. Diaphragm bead could be damaged when installing diaphragm cover.

CAUTION!

1. Correct assembly of the diaphragm before the diaphragm cover assembly.

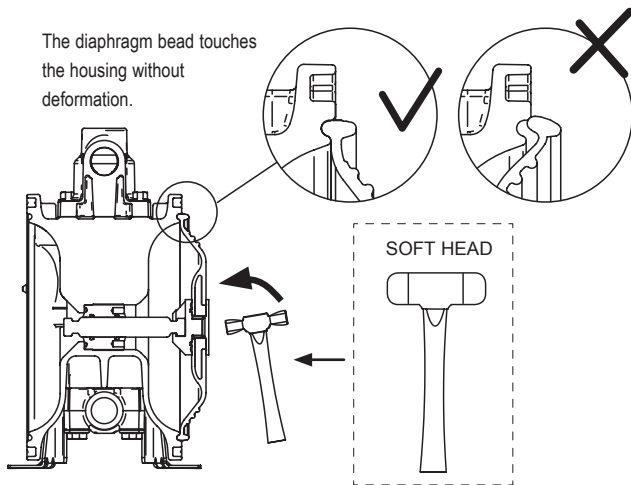
2. Incorrect assembly of the diaphragm. Possible damage when assembling the diaphragm cover.



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2. FIRST DIAPHRAGM ALIGNMENT

Using the soft head hammer, again align the diaphragm bead until the bead touches the housing without deformation.

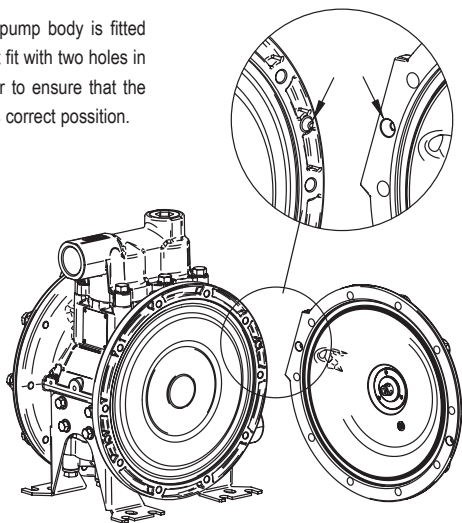


3. DIAPHRAGM COVER INSTALLATION

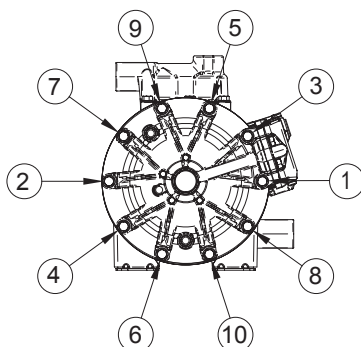
Place the diaphragm cover and approximate it using the bolts (follow the TIGHTENING SEQUENCE).

Once approximated, torque @132 lbf-in (15 N-m).

CAUTION! DP200 pump body is fitted with two nipples that fit with two holes in the diaphragm cover to ensure that the cover is placed in its correct position.

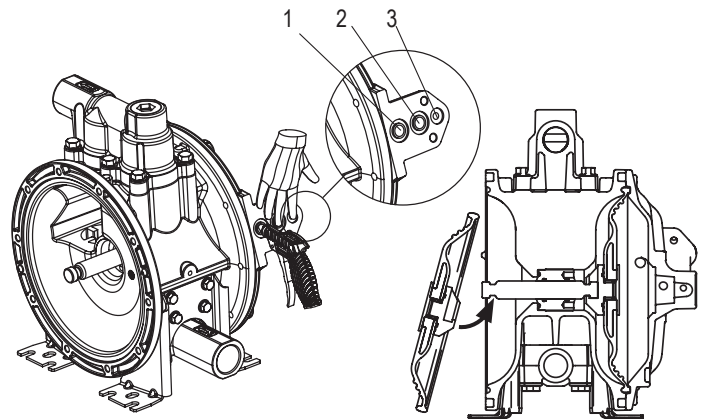


TIGHTENING SEQUENCE



4. CENTRAL ROD RELEASE FOR SECOND DIAPHRAGM ALIGNMENT

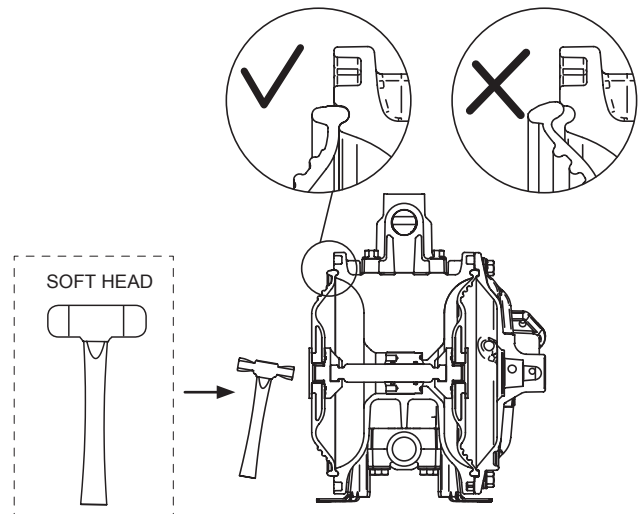
Using an air gun fed with 1bar (15psi) maximum air pressure, inject air in the air chamber of the diaphragm cover trough the hole n°1 meanwhile closing the holes n°2 and n°3. Compressed air will push out the central rod allowing the diaphragm installation without deformation.



When we hole n°1 is feed with compressed air while closing n°2 and n°3 air enters in the chamber, displacing the central rod and allowing to install the diaphragm.

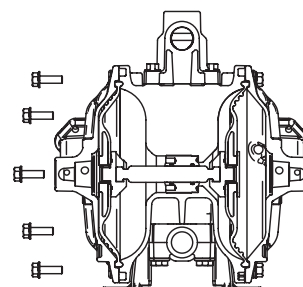
5. SECOND DIAPHRAGM ALIGNMENT

Install the remaining diaphragm and again, using the soft head hammer, align the diaphragm bead until the bead touches the housing without deformation.



6. SECOND DIAPHRAGM COVER INSTALLATION

Follow same procedure as for the first diaphragm cover described in point n°3.

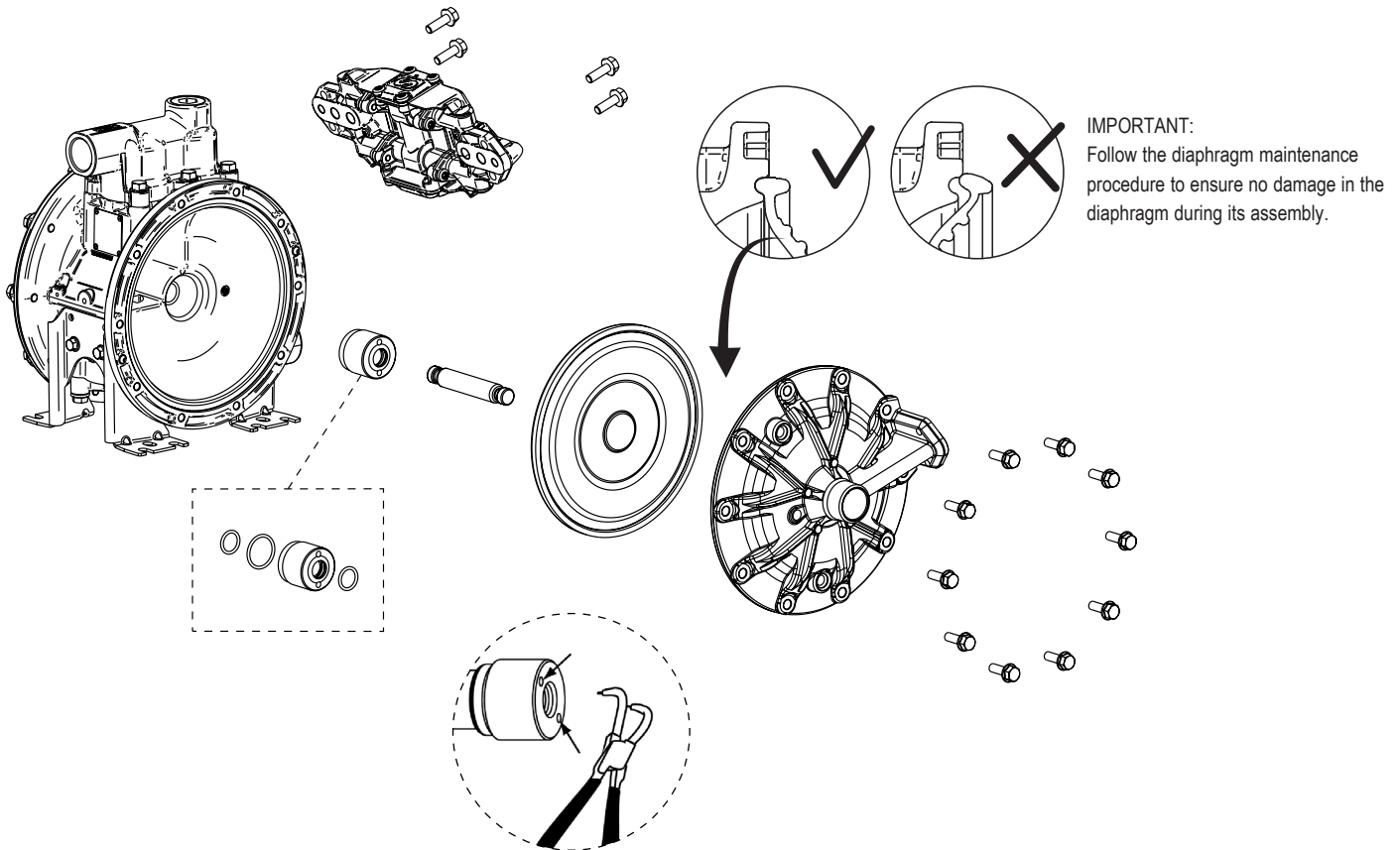


REPAIR AND MAINTENANCE PROCEDURES

PUSHING ROD/CENTRAL BUSHING AND SEAL MAINTENANCE

NOTE: Central pushing rod is placed between pump diaphragms.

1. Remove the diaphragms cover on the right side (looking at the pump by the identification plate) as shown in the figure, following the procedure to "Replace diaphragms".
2. Remove the shaft from its housing by pulling it from one end.
The Teflon® sleeve is threaded into the body. To remove use snap ring pliers in the two holes indicated in the figure.
3. Once the sleeve has been removed, remove the O-ring inside the pump body.
4. Replace the kit following the correct order shown in the assembly drawing. The O-ring between the body and the sleeve may fall during installation, apply mounting grease to attach the O-ring to the sleeve during threading.
Reassemble the pump in reverse order.



BALL VALVES AND SEATS MAINTENANCE

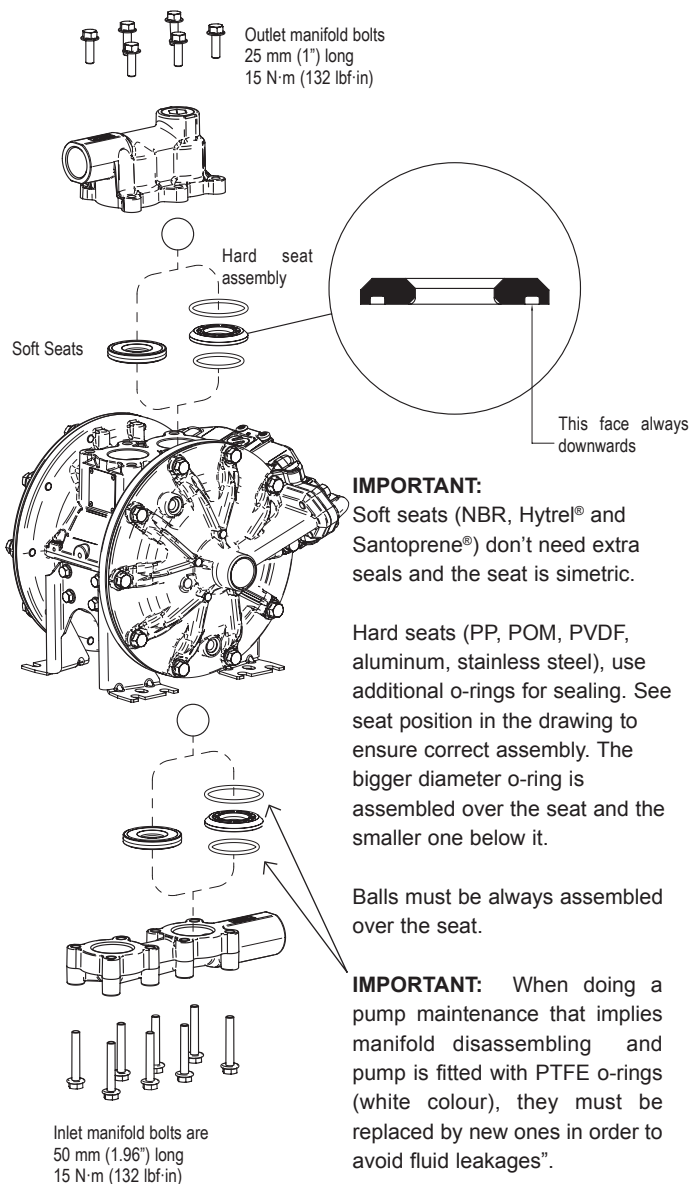
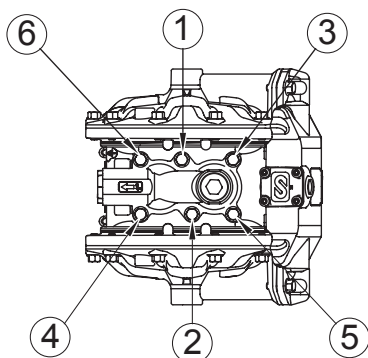
1. Close fluid valves.
 2. Drain the fluid from inside the pump. Anticipate a drainage of fluid from inside the pump.
 3. Remove the inlet and outlet manifolds. Take note of the orientation of the manifolds.
 4. Install a new set of valves or seats according to these assembly drawings. Tighten the manifold bolts with a maximum torque of 132 lbf-in (15 N·m).
- IMPORTANT:** Always approximate manifold bolts before final tightening.
5. Assemble the directional valve being careful not to damage the O-rings and tighten the screws with a maximum torque of 70 lbf-in (8 N·m).

CAUTION!

CAUTION WHEN USING PIPE SEALS

DP200 pumps manifold fitted with PTFE (Teflon®) O-ring should be tightened follow the shown sequence.

Always tighten bolt (1) and (2), firstly to avoid damage the manifold and the seals.



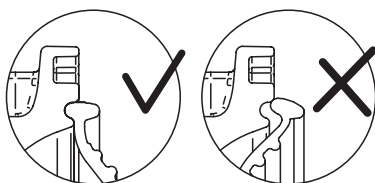
AIR SENSOR MAINTENANCE

The air sensors are on the inside part of the diaphragm covers. To access them, follow the procedure for "Replacing diaphragms".

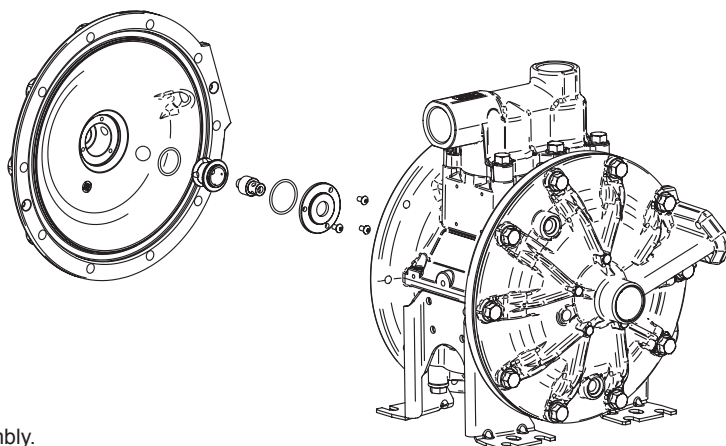
Once removed the covers following procedure:

1. Remove the three screws that secure the air sensor to the top.
2. Remove all components of the sensor. Clean the area.
3. Introduce new components in the order shown.
4. Fit the remaining components in reverse order. Fit the side cover and tighten the screws.

AIR SENSOR KIT: 558527



IMPORTANT:
Follow the diaphragm maintenance procedure to ensure no damage in the diaphragm during its assembly.



EN

EUROLUBE by Alentec & Orion AB, Grustagsvägen 4, 138 40 Älta, Sweden, declares that the product(s):

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EUROLUBE by Alentec & Orion AB, Grustagsvägen 4, 138 40 Älta, Sweden, déclare que le(s) produit(s):

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est (sont) conforme(s) à la (aux) directive(s) de l'UE:

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For EUROLUBE by Alentec & ORION AB
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От лица компании EUROLUBE by Alentec & ORION AB



Johan Norman
Product Manager

RU

Сертификат соответствия:

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Дата производства указана на маркировке изделия
Транспортировка

Изделие должно транспортироваться в заводской упаковке для защиты от повреждений и влаги.

Хранение

Изделие должно храниться запакованным, в хорошо проветриваемом и сухом помещении.

Утилизация

Выполняйте национальные правила утилизации и переработки отслужившего оборудования, упаковки и принадлежностей.

EAC