DOMINATOR PUMP

Pump models

P10S - P11S - P18S - P19S
P30S - P31S - P38S - P39S
P40S - P48S

Installation - and user instructions

Dominator Pneumatic Diaphragm pumps

Series P - Stainless Steel SS316L

Edition 2021-04-22

Assembled and tested by:

Ex II 2 G c DOMINATOR PUMP CE

www.collyflowtech.se

Type No.	S/N (yywwnn)

Liquid temp. max °C		Air pressure max bar	

Colly FLOWTECH

INNOVATIV FLÖDESTEKNIK

DOMINATOR PUMP has been developing and manufacturing pneumatic diaphragm pumps since 1981 and is today the market leader in Sweden. DOMINATOR PUMP has unique experience and competence within the field of diaphragm pumps. Production, warehouse and service are located in Jönköping. Complete stores of pumps and spare parts for quick delivery!

Since April 2019, Dominator Pump is incorporated into Colly Flowtech

Installation - and user instructions

Dominator Pneumatic Diaphragm pumps

Series P - Stainless Steel SS316L, models P10S - P11S - P18S - P19S - P30S - P31S - P38S - P39S - P40S - P48S

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DOMINATOR PUMP

CE

EU declaration of conformity

for machinery according to the machinery directive 2006/42/EC and for equipment and protective systems intended for use in potentially explosive atmospheres according to the ATEX directive 2014/34/EU.

As a manufacturer in the EEA, Colly Flowdtech AB, Grossistgatan 3, 553 02 Jönköping*,* Sweden*, certifies that pneumatic diaphragm pumps of series P*

a) are manufactured in accordance with the Directives of the European Parliament and of the Council and fulfils all relevant provisions of both directives

b) complies with the technical specifications of the standards:

- SS-EN ISO 12100:2010 Machinery safety – General design principles – Risk assessment and risk reduction
- EN 809:2009 Pumps and pump units for fluids – Safety requirements
- SS-EN 13463-1:2009* Non-electrical equipment intended for use in potentially explosive atmosphere – Part 1: Basic methods and requirements
- SS-EN 13463-5: 2011* Explosive atmosphere – Non electrical equipment intended for use in explosive atmosphere – Part 5: Safe construction "c"

*No major changes with regard to the state of the art exist related to EN ISO 80079-36:2016 and EN ISO 80079-37:2016.

c) with regard to the ATEX directive, meet the requirements regarding the marking of equipment with II 2 G c (equipment group II, equipment category 2, gases G and safe construction c)

d) with regard to conformity assessment for ATEX complies with the conformity assessment module Internal control of production and the technical documentation is deposited with the Notified Body 0518, CSA Group Unit 6 Hawarden, CH5 3US, United Kingdom, file No. SIRA 04XT127.

Colly Flowtech AB

Jönköping 2021-04-22

Mikael Hjorth

ATEX classification of pump

Dominator Series P stainless steel pumps can be used in environments where explosion hazards exist. Follow the instructions in this instruction and comply with local/national regulations for safe use.

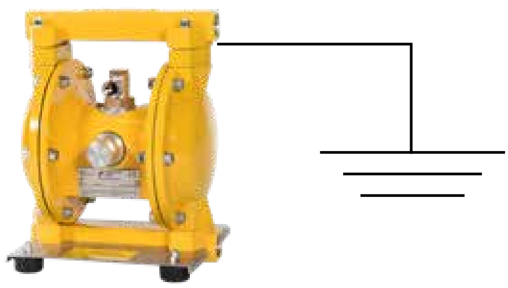
ATEX classification in accordance with marking (Directive 2004/34/EC) by Dominator series P stainless steel:

ATEX II 2 G c

- Equipment group: II – all other explosive areas except mines
- Category group: 2 – high level of protection (can be used in zone 1)
- Atmosphere: G – gas
- Protection type: c – construction safety

Technical documentation in accordance with the requirements of the directive filed by: CSA Group Testing UK Ltd, CH5 3US Hawarden, Deeside, UK. (File No. SIRA 04XT127)

Explosion and fire hazard



Connect the pump to earth when flammable fluids are being pumped! Pumping may generate static electricity and cause ignition. Connect clamp bolt or footplate with a conductor to earth to avoid the build-up of static electricity. Connect valves, tubes and containers for fluids to earth as well.

Safety regulations

Please read the operation and maintenance instructions carefully before the pump is installed, used or a service is carried out. If the warnings are not followed, serious accidents may result in personal injury and/or material damage. Pump functionality may also be impaired if the instructions are not followed

1. When installing, consider the risk of fluid leakage through the compressed air exhaust in the event of a diaphragm failure. Serious leakage may occur if the fluid level in the holding tank is situated at a higher elevation than the exhaust muffler. Install the exhaust muffler above the fluid level if possible; alternatively, install a collection vessel around the pump/air exhaust to prevent damage in the event of a leak.
2. If there is a significant temperature difference between the inlet and outlet ports, for example if a container is outside the building, bear in mind that the build-up of pressure can be very high in the outlet pipe if this is closed. Install a safety valve if necessary.
3. Diaphragms are wear parts and their service life depends on how the pump is used, i.e., the characteristics of the pumped fluid. To avoid broken diaphragms, replace them periodically based on experience data with regard to life expectancy.
4. Check for any fluid leakage daily. Tighten the connections and joints and replace damaged parts such as seals and diaphragms.
5. To prevent fluid leakage, ensure that connections are properly tightened during installation and service.
6. The air valve is a non-stalling design. If the valve should nevertheless get stuck due to particles that enter through the compressed air, do not hit it with a hammer to restart it, as this may cause a spark.
7. Always wear safety goggles and protective clothing during the operation and maintenance of the pump when hazardous fluids are being handled.
8. Disconnect the compressed air supply and vent before a service or any maintenance work is carried out on the pump.
9. Ensure that the pressure and suction lines are depressurised prior to disconnecting the pump.
10. Ensure that the valves cannot be opened accidentally during service or maintenance and thereby cause contact with harmful or hot fluids.

Pump materials

The materials of the pump are an important factor with regard to product safety. To ensure that the pump is suitable for its purpose (the liquid to be pumped and its characteristics) always consult a representative of Colly Flowtech prior to the selection and use of a pump. Check the material stamped on the nameplate with the pump designation. Also consider the temperature limitations in the instruction.

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Minimum and maximum temperatures

The pump's maximum surface temperature is not dependent on the pump itself but on the operating conditions such as the temperature of the pumped fluid, compressed air temperature and the ambient temperature.

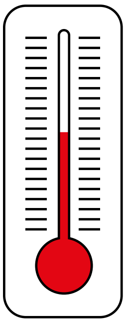
The expansion of compressed air has a cooling effect. Special attention must be paid to the maximum permissible fluid temperature specified on the nameplate. Temperature limitation is based only on stresses with respect to the material properties of the diaphragm, valve balls and valve seats.

For explosive gases, consideration must be given to ignition temperature (temperature class T) for gas.

Maximum temperatures, different materials:

Diaphragms and valve balls

Buna-N/NBR	-12	–	+82	°C
EPDM/Nordel	-51	–	+138	°C
Viton	-40	–	+176	°C
Teflon/PTFE	+4	–	+105	°C



Installation of pump

Always assemble the pump horizontally on its feet. For a permanent installation in a piping system, a rubber compensator or flexible hose at the pump's inlet and outlet ports is recommended to reduce vibrations in the piping system.

Fit shut-off valves on the pump's inlet and outlet ports.

Material connections (tube or hose) shall have at least the same dimension as the pump connections.

When pumping highly viscous fluids, it is appropriate to increase the dimension of the material connections by one size.

NOTE! *If a hose is used on the inlet port it should be steel-reinforced to prevent it from collapsing under suction. Check that the fluid being used is appropriate for the pump material (see code key)*.

Consider the material requirements in terms of the minimum and maximum temperature of the parts that come into contact with the fluid (see table below). Maximum inlet pressure is 0.7 bar for a fluid – in order to avoid damage to the diaphragm.

The pump has been pressure-tested in the factory, but according to good practice all clamp and screw connections should be tightened up before commissioning.

Installation of air pressure

The pump is designed to be operated with compressed air, the pump is not designed for other compressed gases. Never use a higher pressure on compressed air than that stated on the pump's nameplate.

The use of a flexible hose is recommended between the pump and the compressed air line. The compressed air should be clean and of good quality.

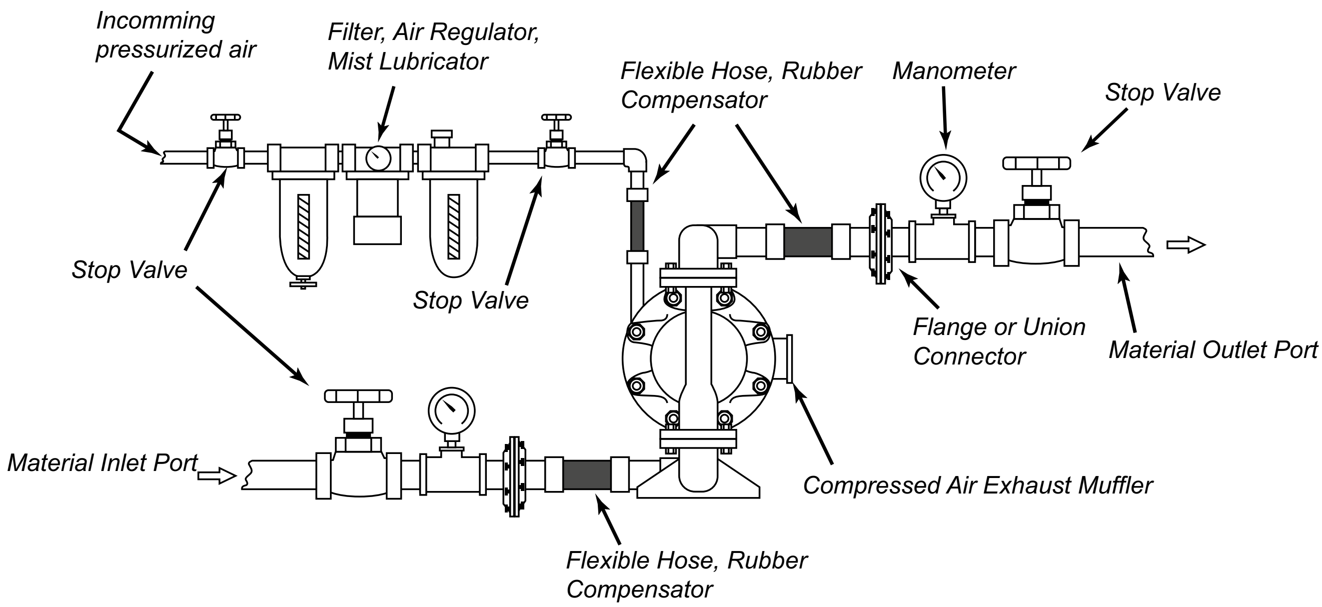
The dimension of the compressed air line should be:

- for ½" and 1" pumps → ¼" line (hose)
- for 2" pumps → ½" line (hose)

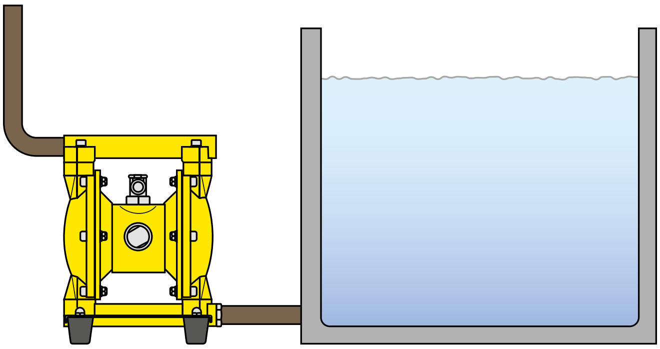
There must be a shut-off valve on the compressed air line to the pump. The compressed air regulator, the lubricator and the filter (if applicable) should be mounted on the pump. Use good quality oil, SAE10.

NOTE! *If the pump is equipped with EPDM diaphragms, do not use mineral oil for the lubricator. (EPDM rubber is not suitable when used with mineral oil). Add max. 1 drop of oil to the pump every 3 minutes at full capacity and reduce the amount of oil at a lower capacity*

Installation proposal



Inflow to pump



The pump has a positive fluid pressure to the inlet port. This is the best type of installation where it is necessary to empty the container of all fluid or when viscous fluids are transported.

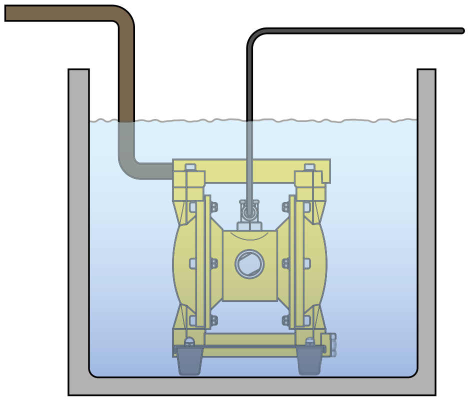
NOTE! Suction pressure should not exceed 0.7 bar.

Self-priming pump

Dominator series P has excellent suction properties and can evacuate an empty suction line.

The suction height is up to five meters with an empty suction line, and up to 8 meters with a fluid-filled line. Suction capabilities are determined by the pump size and materials in the valve seats, diaphragms and valve balls.

Optimal suction performance is achieved with a pump equipped with a valve seat and balls made of rubber and at a slow stroke rate (slow operation).



Submerged pump

Dominator series P can also run submerged.

NOTE! *The pump will need to be modified at the factory, which must be specified on the order.*

Operation

Start/stop and capacity regulation

The pump can be started and stopped via the valve on the incoming compressed air port or via a valve on the material outlet port. Valves are also used to regulate the pump's capacity to the required flow. It is an advantage to use Dominator's soft-start valve to avoid pressure shocks on the diaphragm when starting and stopping on incoming compressed air.

The working pressure and thus the discharge pressure is controlled with the compressed air regulator. Do not use a higher air pressure than necessary to achieve the desired discharge pressure.

Maintenance and servicing

The most common wear parts in the pump are the diaphragms, valve balls and valve seats which should be inspected at regular intervals. Their service life depends on operating conditions.

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DOMINATOR PUMP

Trouble shooting

PROBLEM	POSSIBLE ERROR	POSSIBLE SOLUTION
The pump does not/ will not start	Is there a lack of air? The airline is blocked The muffler is blocked The air valve is broken Particles or sediment in the pump chamber Diaphragm failure	Open the air valve/increase the air pressure via a pressure regulator Check/clean the air supply connection Check/clean/replace muffler Clean/replace the necessary parts in the air valve Clean the pump chamber Change the diaphragm
Pump suction is poor	The pump runs too fast The inlet connection is leaking The inlet connection is blocked The muffler is blocked The valve balls have been blocked or damaged The valve seats are worn The pump starts with high pressure	Reduce the input air pressure/air flow Tighten the inlet line/seal the leak Check/clean the inlet line Check/clean/replace muffler Check valve ball dimensions and shape and replace if necessary Check valve seat dimensions and shape Reduce the input air pressure
Pump runs unevenly	The valve balls have been blocked The air valve is broken Diaphragm failure The valve seats are worn	Check valve ball dimensions and shape Clean/replace the necessary parts in the air valve Change the diaphragm Check valve seat dimensions and shape
Poor flow/pressure	Pressure loss in the air supply. High resistance on the suction side Air supply/air valve leaking The intake or air connection is blocked The muffler is blocked The valve balls are worn or broken The valve seats are worn Air in the fluid Diaphragm failure	Increase air pressure via a pressure regulator Check/change the installation on the suction side Check/repair/replace the air supply/air valve Check/clean the air supply/inlet connection Check/clean/replace muffler Check valve ball dimensions and shape Check valve seat dimensions and shape Seal the inlet line, check/fill the container Check/replace the diaphragm
Fluid leaking from pump	Pump housing screws have not been tightened properly The connections are not completely sealed Damaged diaphragm. Tensions from pipe system	Check the screw tightening torque Tighten and check the seal Check/replace the diaphragm Adjust the installation, remove loads, when using pulsation dampner, separate support must be provided (see IOM manual for pulsation dampner).
Fluid is leaking out of the muffler	Diaphragm failure	Change the diaphragm
Diaphragm failure	Wrong choice of materials Excessive high pressure in the installation Long periods of dry running Excessive pressure on the inlet side	Contact us for type of materials to use Use air treatment system to protect the pump If dry, run the pump slowly Make sure that there is a pressure balance between the diaphragm's air and fluid sides

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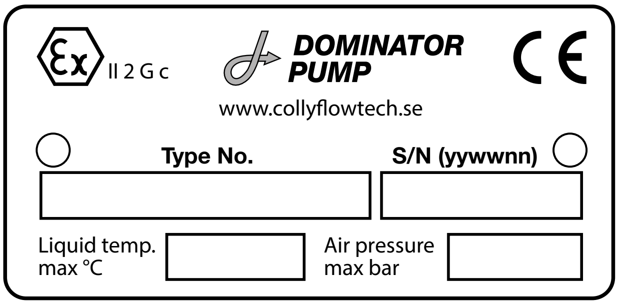
Product marking

The pumps have a nameplate mounted with type and number series (includes indication of the year of manufacture, week and serial number). The plate also indicates maximum fluid temperature and maximum air pressure



Pump designation

How to read the pump designation

P	1	0	A	B	T	X
1	2	3	4	5	6	7

1 TYP
- **P** = Standard
- **T** = Twin

2 SIZE
- **1** = ½"
- **3** = 1"
- **4** = 2"

3 EXECUTION
- **0** = Standard
- **5** = Standard, plastic
- **8** = Standard, hygiene
- **1** = Drum
- **6** = Drum, plastic
- **9** = Drum hygiene

4 HOUSING
- **A** = ALUMINIUM
- **P** = POLYPROPYLENE
- **D** = PVDF
- **S** = STAINLESS STEEL

5 DIAPHRAGM
- **B** = PTFE/NBR
- **E** = EPDM
- **N** = NBR
- **T** = PTFE
- **V** = VITON

6 VALVE BALLS
- **E** = EPDM
- **N** = NBR
- **T** = PTFE
- **V** = VITON
- **S** = STEEL
- **SS** = STAINLESS STEEL

7 SPECIAL
- **X** = 2 inlet / 1 outlet
- **Z** = Special design

Warranty

The pump's warranty period is one year from the date of delivery. On wear parts such as diaphragms, valve balls and valve seats, etc., there is no warranty. When ordering spare parts, always quote the pump's full type designation.

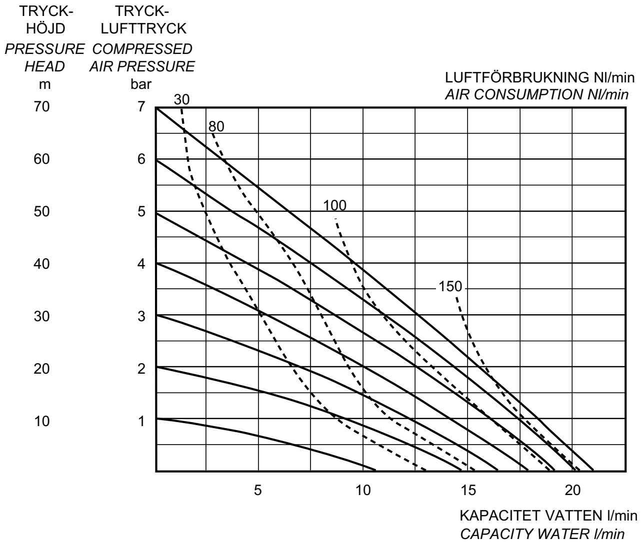
DOMINATOR PUMP

Pump curves and dimensions P1

HOW TO READ THE GRAPHS

Example: The required pump capacity 10 l/min, discharge pressure 15 m (1.5 bar). If 3 bar compressed air is used (the solid descending curve) and the discharge pressure is 15 m (1.5 bar) discharge pressure (the horizontal thin line), the pump capacity is 10 l/min for water. Air consumption (the dashed curve) is then 80 Nl/min.

P1, ½"



These curves are determined by testing on a test bench with water, and under good conditions.

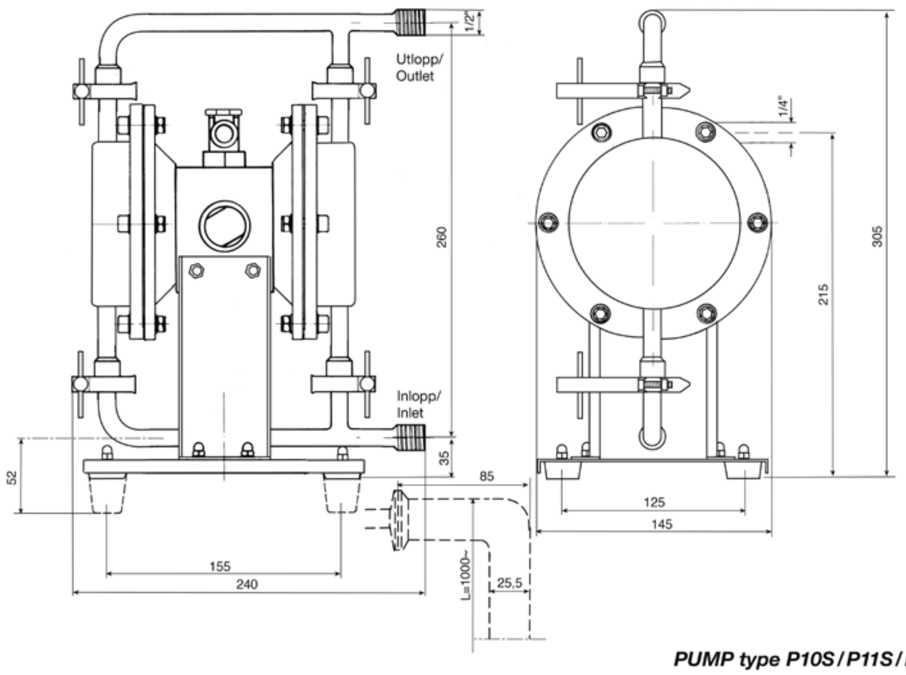
The tests are carried out with standard aluminium pumps equipped with diaphragms and valve balls made of nitrile rubber.

During an installation there are more factors than used air pressure and discharge pressure which affect the flow. These factors include viscosity, density, suction height, the design of the suction line, the pumped material's propensity to adhere to the pump housing and the piping, etc.

Contact us before you decide which pump you need.

Note: Please note that the capacity is reduced by approximately 15% for pumps equipped with a Teflon diaphragm.

Dimensions P1

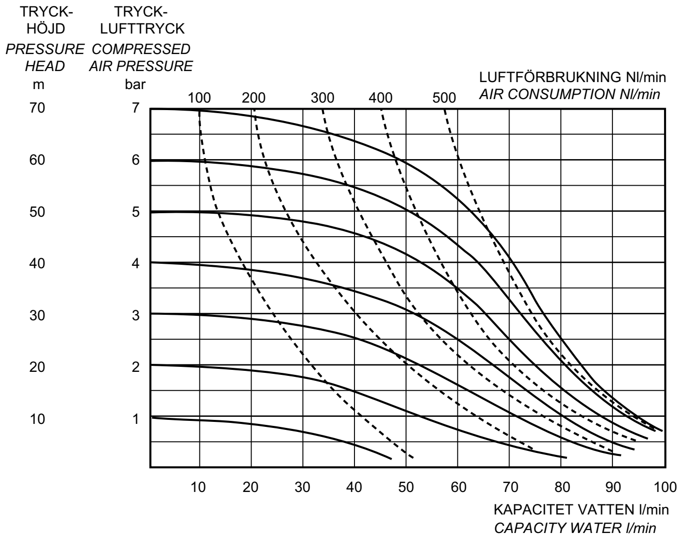


Pump curves and dimensions P3

HOW TO READ THE GRAPHS

Example: The required pump capacity 10 l/min, discharge pressure 15 m (1.5 bar). If 3 bar compressed air is used (the solid descending curve) and the discharge pressure is 15 m (1.5 bar) discharge pressure (the horizontal thin line), the pump capacity is 10 l/min for water. Air consumption (the dashed curve) is then 80 Nl/min.

P3, 1"



These curves are determined by testing on a test bench with water, and under good conditions.

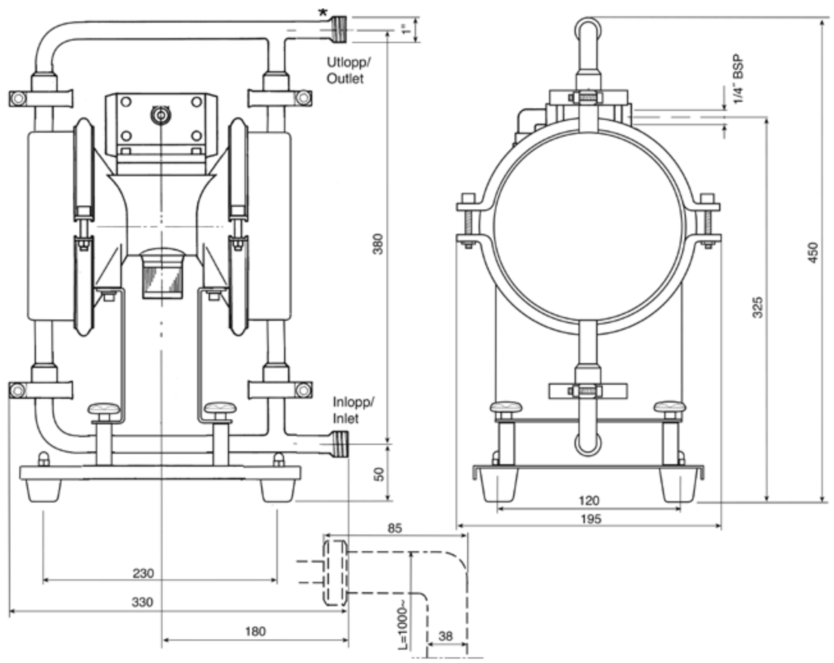
The tests are carried out with standard aluminium pumps equipped with diaphragms and valve balls made of nitrile rubber.

During an installation there are more factors than used air pressure and discharge pressure which affect the flow. These factors include viscosity, density, suction height, the design of the suction line, the pumped material's propensity to adhere to the pump housing and the piping, etc.

Contact us before you decide which pump you need.

Note: Please note that the capacity is reduced by approximately 15% for pumps equipped with a Teflon diaphragm.

Dimensions P3



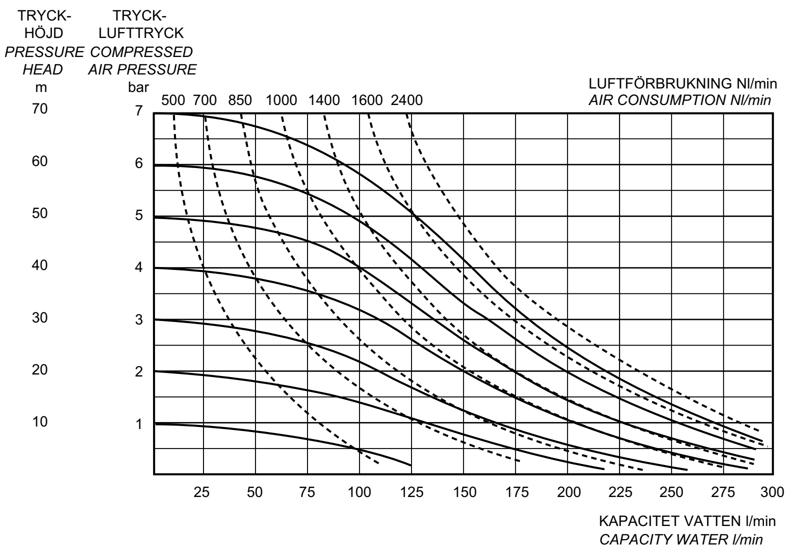
PUMP type P30S/P38S - P31S – T30S/T38S

Pump curves and dimensions P4

HOW TO READ THE GRAPHS

Example: The required pump capacity 10 l/min, discharge pressure 15 m (1.5 bar). If 3 bar compressed air is used (the solid descending curve) and the discharge pressure is 15 m (1.5 bar) discharge pressure (the horizontal thin line), the pump capacity is 10 l/min for water. Air consumption (the dashed curve) is then 80 Nl/min.

P4, 2"



These curves are determined by testing on a test bench with water, and under good conditions.

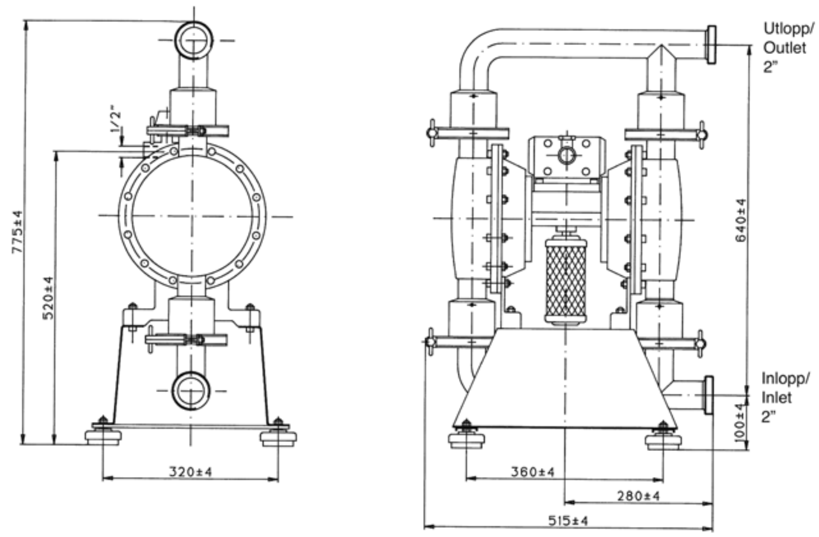
The tests are carried out with standard aluminium pumps equipped with diaphragms and valve balls made of nitrile rubber.

During an installation there are more factors than used air pressure and discharge pressure which affect the flow. These factors include viscosity, density, suction height, the design of the suction line, the pumped material's propensity to adhere to the pump housing and the piping, etc.

Contact us before you decide which pump you need.

Note: Please note that the capacity is reduced by approximately 15% for pumps equipped with a Teflon diaphragm.

Dimensions P4



PUMP type P40S/P48S

DOMINATOR PUMP

Spare parts kit

The pumps have the following spare parts kit:

Spare part kit, air-side
These kits are intended for the service of the air valve.

Spare parts kit fluid side
These kits are intended for service of the fluid side and include diaphragms, valve balls, valve seats and O-rings/gaskets.

P10S/P11S/ P18S/P19S

Part no	Designation
10235	Kit air side P1
10210	Kit fluid side SNN
10211	Kit fluid side SBT
10212	Kit fluid side SEE
10213	Kit fluid side SVV
10205	Kit fluid side AVV

P10S/P11S/P18S/P19S
Part no. 10235 air kit includes pos 7, 9, 10, 11, 12, 13, 15, 17, 18, 19, 21, 24, 25, 26, 27.

Part no. 10210-10213 fluid kit includes pos. 2, 23, 31, 32

For information regarding what the pos. numbers contain and where they are located on the pump, see pages 16 and 17.

P30S/P31S/ P38S/P39S

Part no	Designation
30249	Kit air side P3 PTFE diaphragms
30250	Kit air side P3 rubber diaphragms
30230	Kit fluid side SNN
30231	Kit fluid side SBT
30232	Kit fluid side SEE
30233	Kit fluid side SVV
30234	Kit fluid side STT

P30S/P31S/P38S/P39S
Part no. 30249-30250 air kit includes pos 17, 21, 23, 24, 25, 29, 32, 33, 36, 37, 38, 39, 40, 42, 43, 44, 45, 47

Part no. 30230-30234 fluid kit includes pos. 3, 5, 9, 10, 31

For information regarding what the pos. numbers contain and where they are located on the pump, see pages 18 and 19.

P40S/P48S

P40S/P48S

Part no	Designation
40209	Kit air side P4 PTFE diaphragms
40210	Kit air side P4 rubber diaphragms
40201	Kit fluid side SNN
40202	Kit fluid side STT
40203	Kit fluid side SEE
30233	Kit fluid side SVV

Part no. 40209-40210 air kit includes pos 9, 18, 19, 22, 24, 26, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 58

Part no. 40201-40203 fluid kit includes pos. 3, 6, 15, 30, 46

For information regarding what the pos. numbers contain and where they are located on the pump, see pages 20 and 21.

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DOMINATOR PUMP

Spare parts

P10S/P11S/P18S – Reservdelslista – Spare Parts List

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
1	Pumpkammare Pump Chamber	SS	10136	2
2	Membran Diaphragm	NBR	10014	2
2	Membran Diaphragm	VITON	10015	2
2	Membran Diaphragm	PTFE/NBR	10016	2
2	Membran Diaphragm	EPDM FDA	10017-F	2
3	Skruv, Bricka, Mutter Screw, Washer, Nut		—	12
4	Banjo		10140	1
5	Hålskruv Inkl. Brickor Screw Incl. Washer		10139	1
6	Propp Plug		10098	1
6	Propp Plug	(P18S)	10138	1
7	O-Ring	NBR	20056	1
9	Fjärderbleck, inkl Skruv + Brickor Retainer, incl. Screw + Washers		20062	1
10	Slid Slide		20064	1
11	Ventilhållare Valve Guide		20065	1
12	Luftventilsäte Air Valve Seat		20052	1
13	Packning Gasket		20053	1
14	Fjäderhuv Spring Cap		10097	2
14	Fjäderhuv Spring Cap	(P18S)	10137	2
15	O-Ring	NBR	30005	2
16	Lager Bearing		20057	2
17	Fjäder Spring		20058	2
18	Fjäderhylsa Spring Guide		20059	2
19	Medbringare Carrier		20060	2
20	Centerblock	AL	10096	1
20	Centerblock	(P18S)	10143	1
21	Stötdämpargummi Adsorber	PU	10142	2
22	Lager Bearing		20020	2
23	O-Ring	NBR	20099*	2
24	Axel Shaft		10131	1
25	Axelhylsa Shaft Bushing		10018	2
26	Glidsko Slide Shoe		10141	1
27	Ljuddämparkudde Muffler Pad		20022	1
28	Täckplåt Cover Plate		20023	1

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
29	Skruv Screw		—	2
30A	Utloppsrör Outlet Pipe	SS, BSP	10039	1
30B	Utloppsrör Outlet Pipe	SS, TC	10037	1
30B	Utloppsrör Outlet Pipe	SS, TC mini	10042	1
31	O-Ring	EPDM FDA	10161	4
31	O-Ring	NBR	10163	4
31	O-Ring	VITON	10105	4
31	O-Ring	FEP	10115	4
32	Ventilkula Valve Ball	EPDM FDA	10065	4
32	Ventilkula Valve Ball	NBR	10066	4
32	Ventilkula Valve Ball	VITON	10067	4
32	Ventilkula Valve Ball	PTFE	10068	4
32	Ventilkula Valve Ball	STÅL	10130	4
32	Ventilkula Valve Ball	SS	10168	4
33	Klamma Clamp	SS	10050	4
34A	Inloppsrör Inlet Pipe	SS, BSP	10038	1
34B	Inloppsrör Inlet Pipe	SS, TC	10036	1
34B	Inloppsrör Inlet Pipe	SS, TC mini	10041	1
35	Dataskylt Data Sign		20023-A	1
36	Skruv + Mutter Screw + Nut		—	2
37	Fotplatta Foot Plate	SS	10103	1
38A	Gummifot Rubber Foot		10100	4
39A	Skruv + Kupolmutter Screw + Cap Nut		—	4
38B	Gummifot – *För Fat* Rubber Foot – *For Drum*		20100	4
39B	Skruv + Kupolmutter – *För Fat* Screw + Cap Nut – *For Drum*		—	4
40	Skruv, Bricka, Kupolmutter Screw, Washer, Cap Nut		—	4
41	Skruv Screw		—	4
42	Fot Foot	SS	10104	2
43	Klamma Clamp	SS	10107	1
44	Packning Gasket	VITON	10109	1
44	Packning Gasket	EPDM	10110	1
44	Packning Gasket	PTFE	10111	1
45	Fatrör Drum Pipe	SS	10108	1

***) Denna lista gäller för pumpar med tillverkningsnr 090601 och framåt.**
(Äldre pumpar har art.nr 20019 på pos 23)

***) This list is valid for pumps with serial number 090601 and forward.**
(Older pumps has part no. 20019 on pos 23)

(Centerblock komplett har artikelnummer 10153) (10154 för P18S).
(Centerblock complete has part no 10153) (10154 for P18S).

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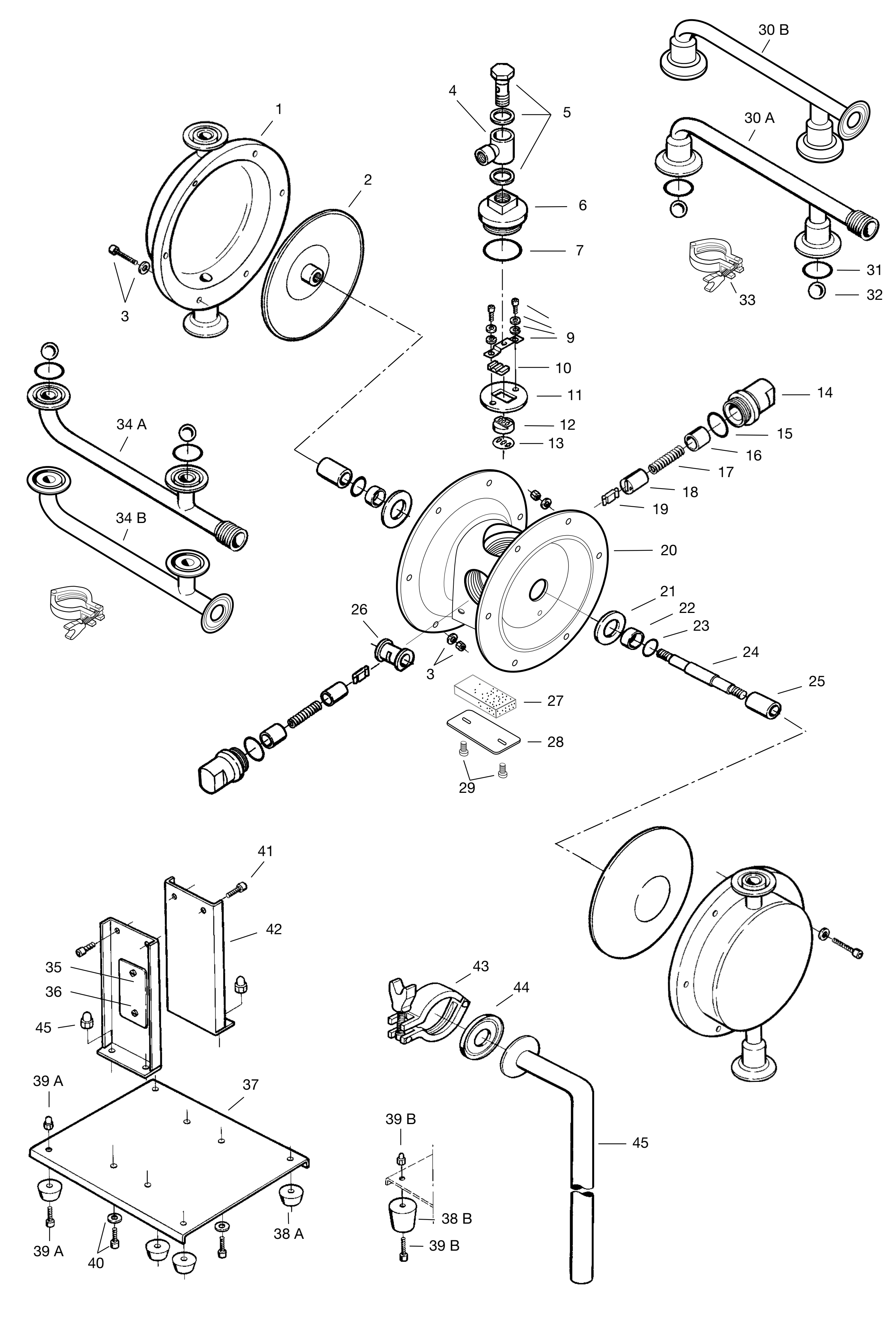
DOMINATOR PUMP



P10S/P11S/P18S

DOMINATOR PUMP

P30S/P38S, P31S, T30S/T38S

Reservdelslista – Spare Parts List

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
1	Pumpkammare Pump Chamber	SS	30022	2
2	Ytterkolv Outer Piston	SS	30017	2
3	Membran Diaphragm	NBR	20014	2
3	Membran Diaphragm	EPDM FDA	30010-F	2
3	Membran Diaphragm	VITON	20015	2
3	Membran Diaphragm	PTFE/NBR	30004	2
3	Membran Diaphragm	PTFE	20016	2
4	Innerkolv Inner Piston	STÅL STEEL	20012	2
5	Bricka Washer	AL	20010	2
6	Hållarband Clamp Band	SS	20008	2
6	Hållarband Clamp Band	SS (P38S)	30023	2
7 A	Skruv + Mutter Screw + Nut		—	4
7 B	Snabbult + Mutter Quick Bolt + Nut	SS (P38S)	40113	4
8	Utloppsrör Outlet Pipe	SS BSP (P30S)	30039	1
8	Utloppsrör Outlet Pipe	SS SMS	30037	1
8	Utloppsrör Outlet Pipe	SS TC	30143	1
9	O-ring	NBR	30032	4
9	O-ring	EPDM FDA	30088	4
9	O-ring	VITON	20084	4
9	O-ring	FEP	30094	4
10	Ventilkula Valve Ball	NBR	20066	4
10	Ventilkula Valve Ball	EPDM FDA	30014	4
10	Ventilkula Valve Ball	VITON	20067	4
10	Ventilkula Valve Ball	PTFE	20068	4
10	Ventilkula Valve Ball	STÅL STEEL	30046	4
10	Ventilkula Valve Ball	SS	30047	4
11	Klamma Clamp	SS	30133	4
13	Vinkel Elbow		30103	1
14	Ljuddämpare Muffler		30020	1
15	Skruv + Bricka Screw + Washer		—	8

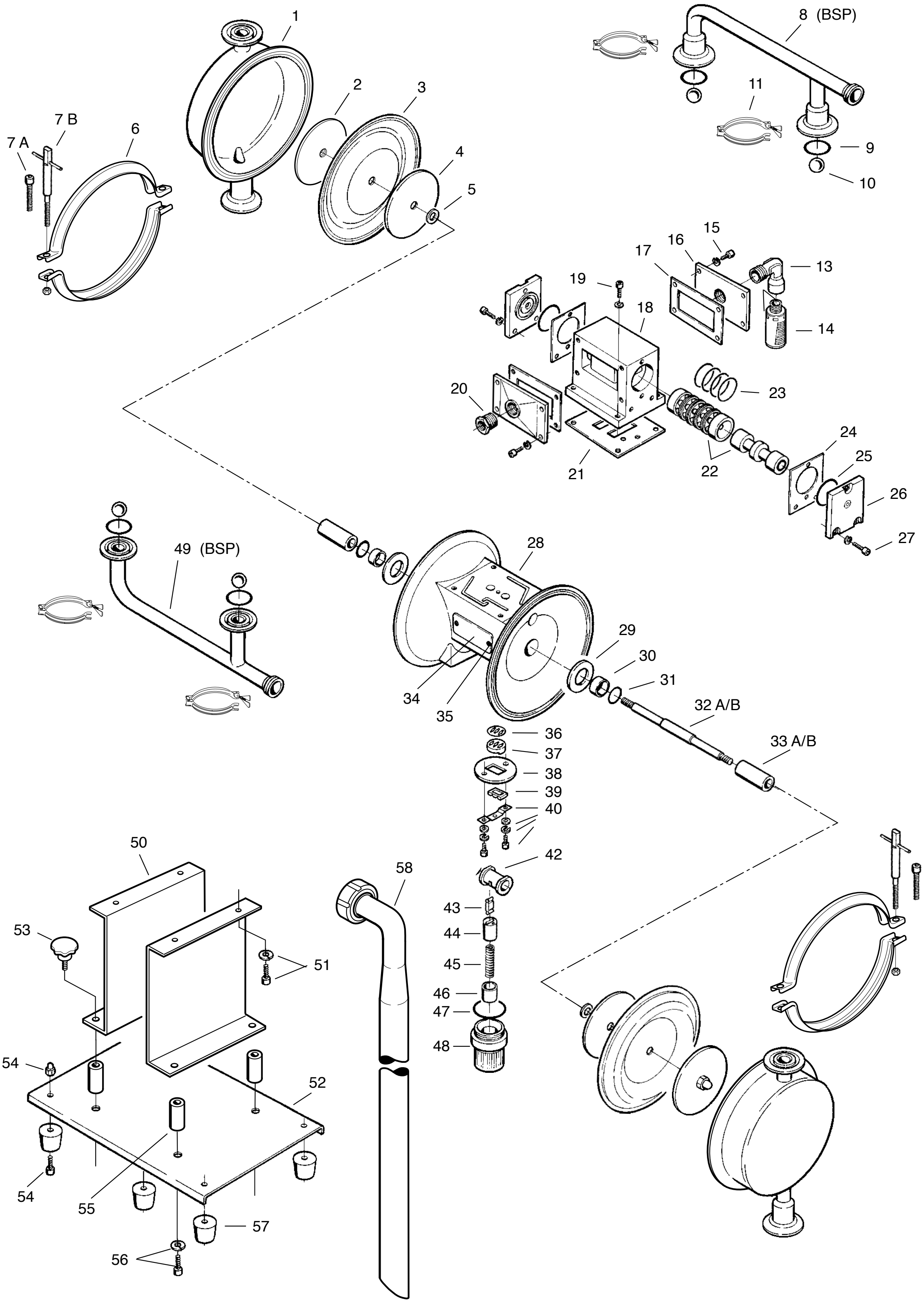
Pos.	Benämning Description		Artikelnr Part no	Antal Qty
16	Luftanslutning Air Connection	AL	30015	2
16	Luftanslutning Air Connection	(P38S)	30029	2
17	Anslutningspackning Gasket		30016	2
18	Luftventilhus Air Valve Housing	AL	30013	1
18	Luftventilhus Air Valve Housing	(P38S)	30028	1
19	Skruv + Bricka Screw + Washer		—	4
20	Bussning Bushing		20167	1
21	Luftventilpackning Air Valve Gasket		30002	1
22	Luftventilhylsa + Luftventilkolv Air Valve Bushing + Air Valve Piston		30185*	1
23	O-ring	NBR	30006	4
24	Gavelpackning Gasket		30008	2
25	O-ring	NBR	30005-X	2
26	Ventilgavel Valve Cover	AL	30125	2
26	Ventilgavel Valve Cover	(P38S)	30126	2
27	Skruv + Bricka Screw + Washer		—	6
28	Centerblock	AL	30001	1
28	Centerblock	(P38S)	30021	1
29	Stötdämpargummi Adsorber		10142	2
30	Lager Bearing		20020	2
31	O-ring	NBR	20099**	2
32 A	Axel Shaft		30130	1
32 B	Axel – För PTFE Membran Shaft – For PTFE Diaphragm		30131	1
33 A	Axelhylsa Shaft Bushing		20018	2
33 B	Axelhylsa – För PTFE Membran Shaft Bushing – For PTFE Diaphragm		30019	2
34	Dataskylt Data Sign		20023-A	1
35	Skruv Screw		—	2
36	Packning Gasket		20053	1
37	Luftventilsäte Air Valve Seat		20052	1
38	Ventilhållare Valve Retainer		20065	1
39	Slid Slide		20064	1

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
40	Fjäderbleck, inkl Skruv + Brickor Retainer, incl. Screw + Washer		20062	1
42	Glidsko Slide Shoe		30132	1
43	Medbringare Carrier		20060	1
44	Fjäderhylsa Spring Guide		20059	1
45	Fjäder Spring		20058	1
46	Lager Bearing		20057	1
47	O-ring	NBR	20056	1
48	Ventilhuv Valve Cap		20055	1
48	Ventilhuv Valve Cap	(P38S)	30044	1
49	Inloppsrör Inlet Pipe	SS BSP (P30S)	30038	1
49	Inloppsrör Inlet Pipe	SS SMS	30036	1
49	Inloppsrör Inlet Pipe	SS TC	30142	1
49	Inloppsrör Inlet pipe	SS För Fat For Drum	30036	1
50	Fot Foot	SS	30024	2
51	Skruv + Bricka Screw + Washer		—	4
52	Fotplatta Foot Plate	SS	30025	1
53	Rattskruv Knob Screw		30035	4
54	Skruv, Bricka, Kupolmutter Screw, Washer, Cap Nut		—	4
55	Fotdistans Foot Spacer	SS	30030	4
56	Skruv + Bricka Screw + Washer		—	4
57	Gummifot Rubber Foot		20100	4
58	Fatrör Drum Pipe	SS	30043	1
—	Inloppsrör Inlet Pipe	SS TWIN BSP	30104	2
—	Utloppsrör Outlet Pipe	SS TWIN BSP	30105	2
—	Inloppsrör Inlet Pipe	SS TWIN SMS	30106	2
—	Utloppsrör Outlet Pipe	SS TWIN SMS	30107	2

***) OBS! Artikelnr 30185 inkluderar O-Rings.**
***) NOTE! Part no 30185 includes O-Rings.**

****) Denna lista gäller för pumpar med tillverkningsnr 090601 och framåt.**
(Äldre pumpar har art.nr 20019 på pos 31)

****) This list is valid for pumps with serial number 090601 and forward.**
(Older pumps has part no. 20019 on pos 31)



P30S/P38S
P31S
T30S/T38S

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DOMINATOR PUMP

P40S/P48S
Reservdelslista – Spare Parts List

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
1	Pumpkammare Pump chamber	SS	40101	2
2	Täckkolv Cover piston	SS	40131	2
3	O-ring	NBR	40133	2
3	O-ring	EPDM FDA	40134	2
3	O-ring	FEP	40149	2
4	Hållarmutter Holding nut		40136	2
5	Ytterkolv Outer piston	SS	50108	2
5	Ytterkolv – För PTFE membran Outer piston – For PTFE diaphr.	SS	50221	2
6	Membran Diaphragm	NBR	50151	2
6	Membran Diaphragm	EPDM FDA	40126	2
6	Membran Diaphragm	PTFE+PU back-up	50153	2
7	Innerkolv Inner piston		50109	2
7	Innerkolv – För PTFE membran Inner piston – For PTFE diaphragm		50222	2
8	Luftkammare Air chamber	(P40S)	50117	2
8	Luftkammare Air chamber	(P48S)	40102	2
9	Packning Gasket		50122	2
10 A	Skruv, brickor, mutter Screw, washers, nut	SS	—	20
10 B	Skruv, brickor, mutter Screw, washers, nut	SS	—	4
13	Klamband, polerat Clamp band, polished	SS	40122	4
14	Utloppsrör Outlet pipe	SS BSP (P40S)	40117	1
14	Utloppsrör Outlet pipe	SS SMS (P48S)	40106	1
14	Utloppsrör Outlet pipe	SS TC (P48S)	40173	1
15	Ventilkula Valve ball	NBR	50154	4
15	Ventilkula Valve ball	EPDM FDA	40128	4
15	Ventilkula Valve ball	VITON	V241VT	4
15	Ventilkula Valve ball	PTFE	V241TF	4
16	Ventilgavel Valve cover	(P40S)	40146	2
16	Ventilgavel Valve cover	(P48S)	40147	2

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
17	Skruv + bricka Screw + washer	SS	—	12
18	O-ring	NBR	50164-X	2
19	Packning Gasket		50127	2
20	Skruv + bricka Screw + washer	SS	—	5
21	Ventilhus Valve body	(P40S)	50130	1
21	Ventilhus Valve body	(P48S)	40119	1
22	Packning Gasket		50126	2
23	Ventilplatta Valve plate	(P40S)	50129	1
23	Ventilplatta Valve plate	(P48S)	40118	1
24	O-ring	NBR	50163	4
25	Luftventilhylsa + Luftventilkolv Air Valve Bushing + Air Valve Piston		40185*	1
26	Tätning Seal	NBR	50120	2
27	Lager Bearing		50121	2
28	Centerblock	(P40S)	50118	1
28	Centerblock	(P48S)	40103	1
29 A	Dataskylt Data sign		20023-A	1
29 B	Skruv Screw		—	2
30	Bricka Washer	AL	50111	2
31	Axel Shaft		50119	1
32	O-ring	NBR	50173	2
33	Pilotventilhylsa Pilot valve bushing		50175	1
34	O-ring	NBR	50169	4
35	Stötstång Pusher rod		50171	2
36	Bricka Washer	AL	50172	2
37	Bussning Bushing		50170	2
38	O-ring	NBR	50220	2
39	Kuts Pusher		50167	2
39	Kuts – För PTFE membran Pusher – For PTFE diaphragm		50168	2

Pos.	Benämning Description		Artikelnr Part no	Antal Qty
40	Spännstift Pin		M3x12	2
41	Pilotventilkolv Pilot valve piston		50174	1
42	O-ring	NBR	50176	4
43	Ljuddämpare Muffler		40401	1
44	Bricka Washer	AL	20010	12
45	Skruv Screw	SS	—	12
46	O-ring	NBR	40110	4
46	O-ring	EPDM FDA	40129	4
46	O-ring	VITON	40111	4
46	O-ring	FEP	40148	4
47	Inloppsrör Inlet pipe	SS BSP (P40S)	40116	1
47	Inloppsrör Inlet pipe	SS SMS (P48S)	40105	1
47	Inloppsrör Inlet pipe	SS TC (P48S)	40172	1
48	Fot Foot	(P40S)	50140	2
48	Fot Foot	(P48S)	40104	2
49	Kupolmutter Cap nut	SS	—	4
50	Skruv Screw	SS	—	4
51	Mellanfot, polerad Middle foot, polished	SS	40108	2
52	Fotskena, polerad Foot bar, polished	SS	40107	2
53	Kupolmutter Cap nut	SS	—	4
54	Skruv Screw	SS	—	4
55	Mutter Nut	SS	—	4
56	Sko Shoe		40109	4
57	Luftanslutning Air connection	(P40S)	50132	1
57	Luftanslutning Air connection	(P48S)	40120	1
58	Packning Gasket		50131	1

Denna lista gäller för pumpar med tillverkningsnr 094601 och framåt.
This list is valid for pumps with serial number 094601 and forward.

***) OBS! Artikelnr 40185 inkluderar O-Rings.**
***) NOTE! Part no 40185 includes O-Rings.**

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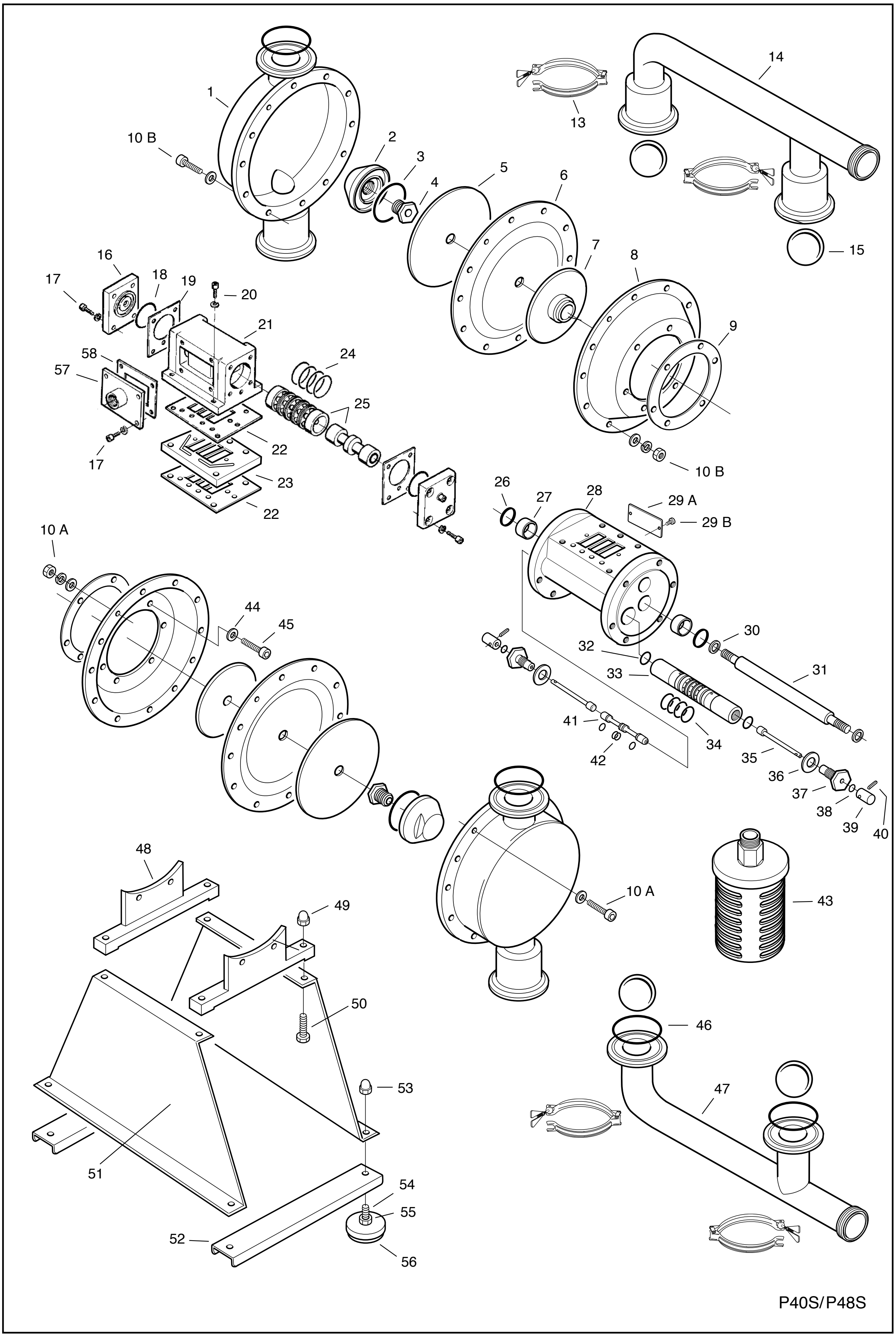

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DOMINATOR PUMP

Repair/service at our workshop

We can service and repair pumps in our well-equipped workshop in Jönköping.

When we receive the pump, this form must always be completed and accompany the shipment

Company:							
Contact:					Phone:		
Repair/ Service:		Cause analysis:		Price estimate:			
Message (the desired action and details of the pumped fluid):							
Return address/marking:							

NOTE! If the pump is used for environmentally hazardous fluids it must be cleaned before it is sent to our workshop.

The form is also available on our website and can be sent electronically to us.

WE CAN PERFORM SERVICE AND MAINTENANCE ON DIAPHRAGM PUMPS FROM THE MAJORITY OF MANUFACTURERS ON THE MARKET

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COLLY FLOWTECH - DOMINATOR PUMP

- Colly Flowtech AB is included in the listed Indutrade AB. Indutrade consists of over 200 companies producing and / or selling industrial products with sales of more than SEK 12 billion per year.
- Colly Flowtech supplies a comprehensive range of pumps, heat exchangers, hoses, valves, quick couplings and stainless steel fittings / piping for industry in Sweden.
- Our head office with warehouse and service workshop is located in Kista, Stockholm. Additionally, we have sales offices with workshops in Örebro and Jönköping and sales offices in Eslöv, Göteborg and Umeå.
- We can maintain and offer competitive service kits for other known diaphragm pumps on the market.
- We have our own manufacturing of pneumatic diaphragm pumps in Jönköping through our subsidiary Dominator Pump AB.
- Through our subsidiary A.G. Johanson's Metal Factory AB in Kolbäck, we have our own manufacturing of stainless steel piping and fittings.
- In Gothenburg we have a workshop for our own fitting of hoses and hose kits, incl. pressure testing and marking.
- We are quality and environment certified according to ISO 9001 and 14001 and pride ourselves in maintaining order in our business.
- Our experts are highly qualified and we have long experience of pump applications in the majority of industries.
- We provide reliable and ecconomical solutions and offer complete guarantees on our recommended solutions.

DNV·GL ISO 9001 - ISO 14001 CollyFlowtech Group

EC 1935/2004

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DOMINATOR PUMP

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