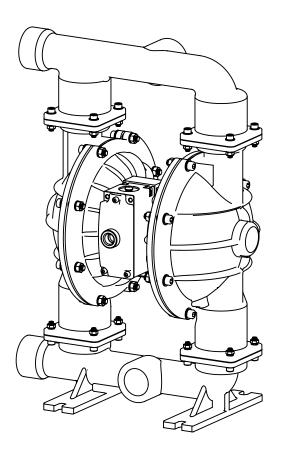




Operation and Maintenance Guide



TP50 Stainless Steel Pump Series

| Models | Descriptions |
|-------------------|---|
| TP50-SSX-REX-AXX | Teryair 2" Diaphragm Pump TeryPro Stainless Steel Santoprene NPT End Port / |
| IF JU-JJA-KLA-AAA | Atex |
| TDEO OTO DEV AVV | Teryair 2" Diaphragm Pump TeryPro Stainless Steel PTFE-Santoprene NPT End |
| TP50-STS-REX-AXX | Port /Atex |
| TP50-SBX-REX-AXX | Teryair 2" Diaphragm Pump TeryPro Stainless Steel Buna NPT End Port / Atex |

Read this manual carefully before installing, operating or servicing this equipment. It's the responsibility of the employer to ensure this manual is read by the operator. Please preserve this manual.

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Pump Nomenclature

| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|------------------|----|--|--------------------------------------|--|----------------------------|---|--|---|------------------------------|---------------------------------------|---|
| Example: | ТР | 15 | A | в | x | | | х | А | х | х |
| | | | | • | Example: T | P25-ABX-GEX | -AXX | | | | |
| Position Rang | | Position 2 Size | Position 3 Body | Position 4 Diaphragm/ Valve | Position 5 Back Up | Position 6 Port | Position 7 Port Position | Position 8 Speciality Code | Position 9 Safety Code | Position 10 Sanitary Code | Position 11 Speciality Code |
| TP- Industrial | | 15 - ½" 25 - 1" 40 - 1-½" 50 - 2" | A - Aluminium S - Stainless Steel | B - Buna (Nitrile) T - PTFE S - Santoprene | S - Santoprene X - None | G - BSPT C - TriClamp BS 4825-3 F - Flanged ANSI/DIN R - NPT P - BSPP | C - Centre Ported, End Port Plugged E - End Ported | P - Pulse Dampener R - Remote Solenoid Driven T - Trolley Mounted X - None | A - ATEX/ IECEX | F - FDA / EN 1935/2004 X - None | S - Speed Controller C - Cycle Counter D - Diaphragm Monitoring X - None O - See foot note |

Foot note: Centre Port Horizontal, Center Port Vertical nd End Port on Inlet and Outlet are all threded and plugged. Pump is blue Painted, and comes with Brass Silencer This is available only in 1/2" luminium for Paint Spay Application

Operating and Safety Instructions

🔔 Warning: Static Electricity

- Static sparks can cause explosion resulting in severe injury or death.
- Ground the pump and the pump connections like hoses and containers into which or from the fluid is being transferred. Connect the grounding wire to any bolt on the pump.
- Check continuity of electrical path to ground at regular intervals.
- Consult local building and electrical codes for grounding requirements where needed.
- Use hoses containing a grounding wire.

🚺 Warning: Pump Exhaust

In case of a diaphragm failure, fluid being pumped may spray out from the exhaust of the pump. This may cause severe injury depending on the fluid being pumped.

If the fluid is hazardous, pipe away the exhaust to a safe remote location using a generous diameter pipe preferably with a grounding arrangement, and refit the muffler at the end of this arrangement.

Always wear safety glasses while in the vicinity of an operating pump.

! Warning: Over pressure / Hazardous Pressure

Do not exceed the max supply air pressure of 100 PSI.

Make sure all connected hoses and pipelines are rated to operate safely with the pressures generated by pump of 100 PSI.

Do not open or handle pump or hoses while pressurized.

Disconnect air supply line and relieve pressure from the system by carefully opening discharge and supply lines.



Do not move a pump that contains hazardous fluids trapped inside it. Please observe prescribed handling and safety codes. Drain the pump safely, by turning it upside down and collecting the fluid safely, before moving the pump.

🚺 Warning: Explosion

Please check compatibility of fluids intended to be handled with the materials of construction of the pump. Severe reactions and explosions may occur if materials are incompatible.



🗶 Caution: Chemical compatibility

Please check that the fluid being pumped is compatible with the wetted parts of the pump. Re-fer Cole Parmer compatibility (http://www.coleparmer.in/Chemical-Resistance) guide for de-tails. Note that chemical compatibility may change with temperature; take this into account while selecting pump material.

② Caution: Structural support

Please refer figure 1 and ensure that the piping system is independently supported and does not load the pump. The pumps are not designed to take the continuous and often pulsating load of a piping system. Important to use a flexible connection between rigid piping and pump casings. Caution: Running dry, disconnection of hoses when not in use

Although these pumps can be run dry for long periods, it is advisable to avoid this as it causes unneces-sary wear of wearing parts

Ø Caution: Operator understanding

Please ensure that all operators have read this manual and have the required understanding of safe working practices and are equipped with safety equipment when working on/around the pump.

() Caution: Using genuine teryair fittings & spares

Use genuine teryair parts to ensure correct pump operation and maximize life.

Operating Instructions

- The Teryair diaphragm pump generates a alternate stroking of the diaphragms against the fluid in the liquid chambers of the Pump. This reciprocatory action is responsible for the fluid being pumped.
- It is possible to control the output of the pump by controlling the supply air pressure.
- It is also possible to control the output of the pump by throttling action on the fluid flowing in the outlet piping by means of a valve. if such a valve is shut completely the pressure in the discharge piping increases to a point when the pressure at pump discharge equals it and the pump comes to a stop. This causes no damage to the pump and the pump consumes no more energy.
- Upon opening of the valve, the pump starts reciprocating once again and resumes fluid delivery.



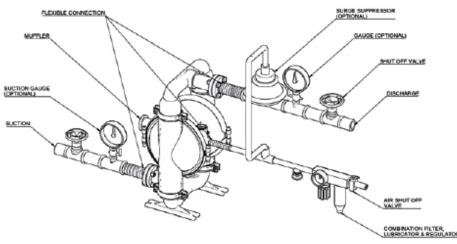
() Caution: Temperature limitations and diaphragm options

| Santoprene | Good abrasion resistance. Low cost. Can handle mild acids and alkalis well. Excellent low cost alternative to ptfe. Excellent suction capabilites Excellent general purpose diaphragm. Temperature range -40°C to +107°C (-40F to +225°F) |
|------------|---|
| PTFE | Excellent choice when pumping highly aggressive fluids such as aromatic or chlorinated hydrocarbons, acids, caustics, ketones and acetates. Temperature range +4°C to +104°C (+40°F to +220°F) |

Suggested Lubricants

| Brand | Above 27 Deg C (| From 5 Deg C to 27 Deg C | Below 5 Deg C |
|----------------|------------------|--------------------------|---------------|
| Shell | Toona R 72 | Toona R 41 | Toona R 27 |
| Mobil | Almo 529 | Almo 527 | Almo 525 |
| Esso | | Arox EP 65 | Arox EP 45 |
| Caltex | Rando Oil 150 | Rando Oil 100 | Rando Oil 46 |
| Texaco | Regal Oil F | Regal Oil PE | Regal Oil B |
| Daltron | Silkolene 881 | Silkolene 548 | Silkolene 773 |
| Burmah Castrol | RD Oil 3 | RD Oil Light | Megna SPX |
| BP | RD 220 HP60C | RD150 HP20C | RD80 HP10C |
| Duckham | Garnet 7 | Garnet 6 | Zero Flo 5 |
| Sternol | Merlin 87 | Merlin 71 | Merlin 54 |
| Petrofina | Purifoc 53 | Purifoc 46 | Purifoc 32 |
| Chevron | Vistac Oil 18X | Vistac Oil 19X | Vistac Oil 9X |





Suggested site selection and installation recommendations

Figure 1

Location selection

Pump location must be easily accessible with reasonable space around for maintenance operations. Pump dimensional data for each variant is available in section showing exploded views

Air supply

Compressed air at 90 PSI (Stroke pumps can take a max of 100PSI), free from moisture and having an oil mist is essential. Use of a filter (50 microns), a lubricator and a regulator is highly recommended and should be installed as close as possible to the pump inlet.

Ensure correct grade of oil is used in thelubricator bowl. Too thick oil may slow down the valve shifting mechanism and affect pump performance. See suggested lubricants on page no 5.

Piping

A minimum number of bends and fittings to be used.

A flexible connection between suction, delivery and air supply piping is highly recommended such that piping stresses and loads do not transfer to pump housing. Select piping materials such that chemical compatibility is maintained with the fluid being pumped.

Suction

Ensure that the suction head after installation is well within the pumps suction capabilities

Muffler

Use of supplied muffler is recommended to bring pump operation sounds down to comfortable levels, in case of hazardous fluids handling, please read section of safety regarding piping away of exhaust see

Warning: Pump Exhaust) earlier in this manual.



Troubleshooting

| Serial No | Description | Causes | Remedial Action |
|-----------|---|--|--|
| 1 | Pump stops and will not start | Insufficient Air Pressure | Check air pressure is as recommended at the pump air inlet |
| | | Air Filter Blocked | Check if debris has clogged the inlet fil- ter on the FRL unit/pump inlet air valve (some models have air filter on the air inlet valve) and ensure clear passage of air |
| | | Internal damage or excessive wear on components | roceed to dismantle the pump, examine component for wear, replace any worn components, re assemble carefully as instructed in this manual and re start the pump. |
| 2 | Pumps runs slowly, poor delivery | Cavitation | Check if cavitation is occurring in the suction side, if so reduce suction vacu- um by slowing down the pump. |
| | | Worn Balls and Seats | Check proper sealing action of balls against seals, these components need to be replaced as a set if they are worn. |
| | | Insufficient or wrong lubricant in the air supply. | Ensure that the lubricant is as per the recommended chart, a thicker lubricant often makes the air valve work sluggish- ly |
| | | Internal damage or excessive wear on components | Proceed to dismantle the pump, exam- ine component for wear, replace any worn components, re assemble carefully as instructed in this manual and re start the pump. |
| 3 | Pump air valve frerzes | Excessive moisture in supply air line. | Ensure that the dew point of the supplied air is low enough. Install a air dryer or moisture separator on the supply line |
| 4 | Air bubbles in pump discharge or product sprays out | Broken Diaphragm | |
| | of exhaust vent | mproper seal between inner pistons, outer pistons and shaft. | Proceed to dismantle the pump, examine component for wear, replace |
| | | Air leakage into product from balls / seats area | any worn components, re assembly care- fully as instructed in this manual and re start the pump |
| | | Air sucked into suction pipeline due to insufficiently tight joints on suction pipeline. | |



Maintenance

Regular inspection and maintenance schedules will greatly enhance the life of the pump and will ensure a trouble free and safe working environment with little chance of breakdowns. Follow the instructions clearly in "Disassembly and Reassembly" of the pump and in the troubleshooting section.

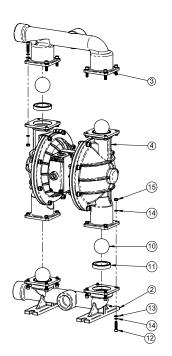
Use genuine Teryair spares and if possible mention the serial number of the pump when ordering spares.

Diassembly and Re-assembly

- Shut off air supply and allow residual Pressure to bleed off.
- Disconnect air supply
- Disconnect suction and discharge piping
- Turn pump upside down allow process fluid
- to drain away. If fluid is hazardous due care should be taken.
- Make a mark to indicate the positioning of eachliquid chamber relative to the housing.
- NOTE: Replace worn parts with genuine Teryair parts for reliable performance.

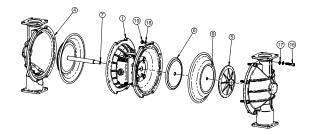
1. Replacement of Ball Seat & Ball

- a. Unscrew both bolt (12) & plain washer (13), as shown in the exploded view and proceed to remove the outlet (3) & inlet base (2) respectively.
- b. Now replace the ball (10) & ball seat (11).
- c. In case of PTFE Model replace the o ring (11A)

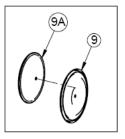


2. Replacement of Diaphragm

- a. Follow the step a and b of replacement of ball seat and ball.
- b. Now unscrew hex socket head bolt (16), spring washer (18) & plane washer (17) of any one side and proceed to remove the outer chamber (4). Now repeat the same procedure to remove the second outer chamber.



- c. Now with the help of two spanner hold one of the across flat of one outer flange (5) and rotate the second outer flange (5) to disassemble it from the shaft assembly. Remove the diaphragm (9), inner flange (6).
- d. Now pull out the half shaft assembly out of the shaft housing (1). Now hold the shaft (14) in a vice with proper packing. Care must be taken not to damage the shaft outer surface. Now remove the outer flange (5) with spanner.
- Now replace the diaphragms (9). Ensure that diaphragm orientation is correct. In case of PTFE, make sure PTFE side of diaphragm faces outer chamber (4).
 *In case of Santoprene, make sure the convex side Santoprene diaphragm faces outer chamber (4).





3. Replacement of Shaft Seals

- a. For removing the rubber rings from centre piece, first follow the steps a, b c & d from the diaphragm replacement.
- b. Now remove the seals (8) with the help of needle Nose pliers. Care should be taken not to damage the inner face of bush.
- c. Once all the old seals are have been removed, the inside of the centre piece should be cleaned to ensure no debris is left that may damage to new seals (Pressurized air is preferable).
- d. Wrap electrical tape around each leg of the needle nose pliers (heat shrink may also be used) . This is done to prevent damaging the inside portion of the new seals.
- e. With a new seal in hand, place the two legs of the nose pliers inside the seal ring. Open the pliers as wide as the seal diameter will allow, then two fingers pull down on the top portion of the seal to form kidney bean shape. (Refer Fig. A)
- f. Lightly clamp the pliers together to hold the seal into the kidney shape. Be sure to pull

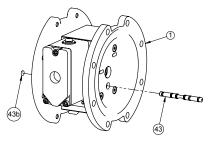
Air Valve/ Center Section Disassembly

4. Replacement Of Secondary Shaft Assembly

- a. For removing the secondary shaft assembly from center piece assembly, first follow the steps a, b, c, d from the diaphragm replacement and remove the outer chamber (4).
- b. Repeat the same procedure to remove the other side also.
- c. Now push the secondary shaft assembly (43) one side of shaft housing (1) and remove the end Orings (43b) from Secondary shaft assembly (43).

the seal into as tight of a kidney shape as possible, this will allow the seal to travel down the centre piece bore easier. (Refer Fig. B)

- g. With the seal clamped in the pliers, insert the seal into the bushing bore and position the bottom of the seal into the correct groove. Once the bottom of the seal is seated in the groove, release the clamp pressure on the pliers. This will allow the seal to partially snap back to its original shape.
- h. After the pliers are removed, you will notice a slight bump in the seal shape. Before the seal can be properly re-sized, the bump in the seal should be removed as much as possible. This can be done with either the Phillips screw driver or your finger, apply light pressure to the peak of the bump.
- i. This pressure will cause the bump to be almost completely eliminated.
- j. Lubricate the edge of the shaft with specified lubricant.
- k. Slowly insert the shaft with rotating motion. This will complete the re-sizing of the seals.
- 1. Perform these steps for the remaining seals.
 - d. Now if you see there is a center drill mark on one side of the secondary shaft assembly (43).Pull the secondary shaft assembly from that side only.
 - e. During assembly make sure to push the secondary shaft assembly (43) from the plain side only into the sleeve (20).







5. Replacement of Air Valve, Gasket,

O-Rings of End Cap & Piston

- a. Unscrew Allen bolts (41) & plain washer (42) from shaft housing (1) and remove Air valve Assly (A) from housing (1). Now remove the gasket (22) from Air valve Assly (A). While re-assembling replace gasket (22) with new one.
- b. Remove the circlip (40) with the help of a circlip opener. Remove the end cap metal cover (39) and now use a M6 Bolt to pull the end cap (37) with its O-ring (38) out of the air valve body (23).

(Note - Ensure that the metal cover is always installed with an end cap (37)

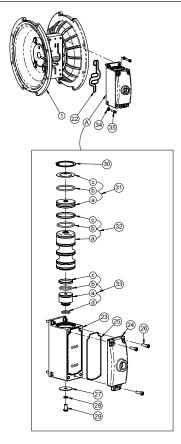
- c. Use the same bolt to pull the air piston assembly (34) with all its seals. This piston assembly (34) needs to replace as a single piece.
- d. In order to remove the defferential cap assly (35) with its seals, remove the screw (31) with spring washer (32) and plan washer (33) by using allen key and push it to remove. Defferential cap assly (35) also needs to be replace with seals.
- e. Now remove O- ring (29c) from End cap (29a) and replace it with new one.

Re-Assembly

Upon performing applicable maintenance to the air distribution system, the pump can now be reassembled. Please refer to the dis-assembly instructions for photos and parts placement. To reassemble the pump, follow the dis-assembly instructions in reverse order. The air distribution system needs to be assembled first, then the Diaphragms and finally the wetted path. Please find the applicable torque specifications on this page.

The following tips will assist in the assembly process.

- a. Clean the inside of the center section shaft bore to ensure no damage is done to new seals.
- b. Stainless bolts should be lubed to reduce the possibility of seizing during tightening.
- c. Level the water chamber side of the intake/



f. Unscrew the Allen screw (28) using suitable key. Open cover (26) & replace O-ring (27) with new one.

discharge manifold to ensure a proper sealing surface. This is most easily accomplished by placing them on a flat surface prior to tightening their clamp bands to the desired torque (see below for Torque Specifications).

- d. Be sure to tighten outer pistons simultaneously on PTFE-fitted pumps to ensure proper torque values.
- e. Ensure proper mating of liquid chambers to manifolds prior to tightening vertical bolts. Overhang should be equal on both sides.
- f. Apply a small amount of Loctite 242 to the shaft interval threads before the diaphragm assembly.
- g. Concave side of disc spring in diaphragm assembly faces toward shaft.

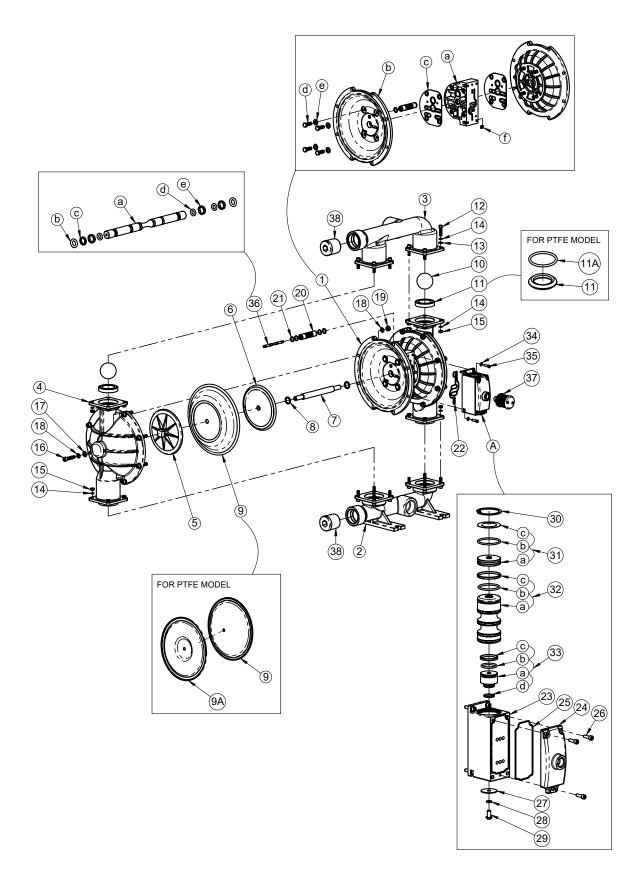


MAXIMUM TORQUE SPECIFICATIONS (SDP25)

| DESCRIPTION OF PART | TORQUE |
|---|---------------------|
| Air Valve | 5.1 N•m (45 in-lb) |
| Air Chamber/Center Block | 47.5 N•m (35 ft-lb) |
| Outer Flanges, Rubber & PTFE, Excluding Stainless Steel Inner Pistons | 106 N•m (78 ft-lb) |
| Outer Flanges, Rubber & PTFE, Stainless Steel Inner Pistons | 119 N•m (88 ft-lb) |
| Outer Flanges, Ultra-Flex™ | 74.6 N•m (55 ft-lb) |
| Small Clamp Bands | 6.6 N•m (58 in-lb) |
| Large Clamp Bands (Rubber-Fitted) | 47.5 N•m (35 ft-lb) |
| Large Clamp Bands (PTFE-Fitted) | 47.5 N•m (35 ft-lb) |



Exploded View for TP 50 Pump





Bill of Materials for TP50-SSX- Pumps

| ITEM NO. | PART NUMBER | DESCRIPTION | REX | RCX |
|-------------|----------------|-----------------------------|-----|-----|
| 1 | 1850704 | Shaft Housing Assembly-TP50 | 1 | 1 |
| а | 1850704-2 | Centre Piece-TP40/50 | 1 | 1 |
| b | 1850704-1 | Air Disc-TP50 | 2 | 2 |
| с | 2034001 | Gasket-TP40/50 | 2 | 2 |
| d | 6372770S | Hex Bolt | 8 | 8 |
| е | 20390035 | Plain Washer | 8 | 8 |
| f | 20390115 | Square Nut | 4 | 4 |
| 2 | 1850701 | Inlet Base-TP50 | 1 | - |
| 2* | 1850707 | Inlet Base-TP50 | - | 1 |
| 3 | 1850702 | Outlet-TP50 | 1 | - |
| 3* | 1850708 | Outlet-TP50 | - | 1 |
| 4 | 1850703 | Outer Chamber-TP50 | 2 | 2 |
| 5 | 2020704 | Outer Flange-TM50 | 2 | 2 |
| 6 | 2021002 | Inner Flange-TM50/TP50 | 2 | 2 |
| 7 | 2032104 | Primary Shaft-TP50 | 1 | 1 |
| 8 | 2004013 | Square Ring | 2 | 2 |
| 9 | 2024101 | Diaphragm-TM50/TP50 | 2 | 2 |
| 10 | 2024103 | Ball-TM50/TP50 | 4 | 4 |
| 11 | 2024102 | Ball Seat-TM50/TP50 | 4 | 4 |
| 12 | 25890265 | Allen Bolt | 16 | 16 |
| 13 | 17127495 | Plain Washer | 16 | 16 |
| 14 | 1712720S | Spring Washer | 32 | 32 |
| 15 | 32001275 | Hex Nut | 16 | 16 |
| 16 | 1859001S | Allen Bolt | 16 | 16 |
| 17 | 20390035 | Plain Washer | 16 | 16 |
| 18 | 21290075 | Spring Washer | 32 | 32 |
| 19 | 1759002S | Hex Nut | 16 | 16 |
| 20 | 2032103 | Sleeve-TP40/50 | 1 | 1 |
| 21 | 2034003 | O Ring | 4 | 4 |
| 22 | 2034004 | Skeleton Seal-TP40/50 | 1 | 1 |

| ITEM NO. | PART NUMBER | DESCRIPTION | REX | RCX |
|-------------|----------------|--|-----|-----|
| А | 20397115 | Air Valve Assembly-TP40/50 | 1 | 1 |
| 23 | 1850705 | Air Valve Body-TP40/50 | 1 | 1 |
| 24 | 1850706 | Air Valve Body Cover-TP50 | 1 | 1 |
| 25 | 2034008 | O Ring | 1 | 1 |
| 26 | 17127195 | Allen Bolt | 3 | 3 |
| 27 | 20390155 | Plain Washer | 1 | 1 |
| 28 | 5369014S | Spring Washer | 1 | 1 |
| 29 | 1679004 | Button Head Screw-TP15/25 | 1 | 1 |
| 30 | 2039009 | Internal Circlip | 1 | 1 |
| 31 | 2030803 | End Cap Set-TP40/50 | 1 | 1 |
| а | 2030803-1 | End Cap-TP40/50 | 1 | 1 |
| b | 2034005 | O Ring | 1 | 1 |
| с | 2038201 | End Cap Cover | 1 | 1 |
| 32 | 2039801 | Air Piston Assembly-TP40/50 | 1 | 1 |
| а | 2030801 | Air Piston-TP40/50 | 1 | 1 |
| b | 2034007 | O Ring | 5 | 5 |
| с | 2033601 | Seal | 5 | 5 |
| 33 | 2039803 | Differential Cap Assem- bly-TP40/50 | 1 | 1 |
| а | 2030802 | Differential Cap-TP40/50 | 1 | 1 |
| b | 2034006 | O Ring | 1 | 1 |
| с | 2033603 | Seal | 1 | 1 |
| d | 1634001 | O Ring | 1 | 1 |
| 34 | 6129011S | Plain Washer | 4 | 4 |
| 35 | 20390105 | Allen Bolt | 4 | 4 |
| 36 | 2039804 | Secondary Shaft Assem- bly-TP40/50 | 1 | 1 |
| а | 2032106 | Secondary Shaft-TP50 | 1 | 1 |
| b | 0229030 | O Ring | 2 | 2 |
| с | 2033605 | Seal | 1 | 1 |
| d | 2034010 | O Ring | 3 | 3 |
| е | 2033604 | Seal | 3 | 3 |
| 37 | 8059801 | Silencer | 1 | 1 |
| 38 | 1852301 | Plug | - | 2 |

Note.

| ITEM. NO. | PART NUMBER | DESCRIPTION | BSPT | BSPP |
|--------------|-------------|----------------------|------|------|
| 1a | 1850704-2G | Centre Piece-TP40/50 | 1 | - |
| 1a | 1850704-2P | Centre Piece-TP40/50 | - | 1 |
| 2 | 1850701G | Inlet Base-TP50 | 1 | - |
| 2 | 1850701P | Inlet Base-TP50 | - | 1 |
| 2* | 1850707G | Inlet Base-TP50 | 1 | - |
| 2* | 1850707P | Inlet Base-TP50 | - | 1 |
| 3 | 1850702G | Outlet-TP50 | 1 | - |
| 3 | 1850702P | Outlet-TP50 | - | 1 |
| 3* | 1850708G | Outlet-TP50 | 1 | - |
| 3* | 1850708P | Outlet-TP50 | - | 1 |



Bill of Materials for TP50-SBX- Pumps

| ITEM NO. | PART NUMBER | DESCRIPTION | REX | RCX |
|-------------|----------------|-----------------------------|-----|-----|
| 1 | 1850704 | Shaft Housing Assembly-TP50 | 1 | 1 |
| а | 1850704-2 | Centre Piece-TP40/50 | 1 | 1 |
| b | 1850704-1 | Air Disc-TP50 | 2 | 2 |
| с | 2034001 | Gasket-TP40/50 | 2 | 2 |
| d | 6372770S | Hex Bolt | 8 | 8 |
| е | 20390035 | Plain Washer | 8 | 8 |
| f | 20390115 | Square Nut | 4 | 4 |
| 2 | 1850701 | Inlet Base-TP50 | 1 | - |
| 2* | 1850707 | Inlet Base-TP50 | - | 1 |
| 3 | 1850702 | Outlet-TP50 | 1 | - |
| 3* | 1850708 | Outlet-TP50 | - | 1 |
| 4 | 1850703 | Outer Chamber-TP50 | 2 | 2 |
| 5 | 2020704 | Outer Flange-TM50 | 2 | 2 |
| 6 | 2021002 | Inner Flange-TM50/TP50 | 2 | 2 |
| 7 | 2032104 | Primary Shaft-TP50 | 1 | 1 |
| 8 | 2004013 | Square Ring | 2 | 2 |
| 9 | 2024041B | Diaphragm-TM50/TP50 | 2 | 2 |
| 10 | 2004043B | Ball-TM50/TP50 | 4 | 4 |
| 11 | 2004045B | Ball Seat-TM50/TP50 | 4 | 4 |
| 12 | 25890265 | Allen Bolt | 16 | 16 |
| 13 | 17127495 | Plain Washer | 16 | 16 |
| 14 | 1712720S | Spring Washer | 32 | 32 |
| 15 | 32001275 | Hex Nut | 16 | 16 |
| 16 | 1859001S | Allen Bolt | 16 | 16 |
| 17 | 20390035 | Plain Washer | 16 | 16 |
| 18 | 2129007S | Spring Washer | 32 | 32 |
| 19 | 1759002S | Hex Nut | 16 | 16 |
| 20 | 2032103 | Sleeve-TP40/50 | 1 | 1 |
| 21 | 2034003 | O Ring | 4 | 4 |
| 22 | 2034004 | Skeleton Seal-TP40/50 | 1 | 1 |

| ITEM NO. | PART NUMBER | DESCRIPTION | REX | RCX |
|-------------|----------------|--|-----|-----|
| А | 20397115 | Air Valve Assembly-TP40/50 | 1 | 1 |
| 23 | 1850705 | Air Valve Body-TP40/50 | 1 | 1 |
| 24 | 1850706 | Air Valve Body Cover-TP50 | 1 | 1 |
| 25 | 2034008 | O Ring | 1 | 1 |
| 26 | 17127195 | Allen Bolt | 3 | 3 |
| 27 | 20390155 | Plain Washer | 1 | 1 |
| 28 | 5369014S | Spring Washer | 1 | 1 |
| 29 | 1679004 | Button Head Screw-TP15/25 | 1 | 1 |
| 30 | 2039009 | Internal Circlip | 1 | 1 |
| 31 | 2030803 | End Cap Set-TP40/50 | 1 | 1 |
| а | 2030803-1 | End Cap-TP40/50 | 1 | 1 |
| b | 2034005 | O Ring | 1 | 1 |
| с | 2038201 | End Cap Cover | 1 | 1 |
| 32 | 2039801 | Air Piston Assembly-TP40/50 | 1 | 1 |
| а | 2030801 | Air Piston-TP40/50 | 1 | 1 |
| b | 2034007 | O Ring | 5 | 5 |
| с | 2033601 | Seal | 5 | 5 |
| 33 | 2039803 | Differential Cap Assem- bly-TP40/50 | 1 | 1 |
| а | 2030802 | Differential Cap-TP40/50 | 1 | 1 |
| b | 2034006 | O Ring | 1 | 1 |
| с | 2033603 | Seal | 1 | 1 |
| d | 1634001 | O Ring | 1 | 1 |
| 34 | 6129011S | Plain Washer | 4 | 4 |
| 35 | 20390105 | Allen Bolt | 4 | 4 |
| 36 | 2039804 | Secondary Shaft Assem- bly-TP40/50 | 1 | 1 |
| а | 2032106 | Secondary Shaft-TP50 | 1 | 1 |
| b | 0229030 | O Ring | 2 | 2 |
| с | 2033605 | Seal | 1 | 1 |
| d | 2034010 | O Ring | 3 | 3 |
| е | 2033604 | Seal | 3 | 3 |
| 37 | 8059801 | Silencer | 1 | 1 |
| 38 | 1852301 | Plug | - | 2 |

Note.

| ITEM. NO. | PART NUMBER | DESCRIPTION | BSPT | BSPP |
|--------------|-------------|----------------------|------|------|
| 1a | 1850704-2G | Centre Piece-TP40/50 | 1 | - |
| 1a | 1850704-2P | Centre Piece-TP40/50 | - | 1 |
| 2 | 1850701G | Inlet Base-TP50 | 1 | - |
| 2 | 1850701P | Inlet Base-TP50 | - | 1 |
| 2* | 1850707G | Inlet Base-TP50 | 1 | - |
| 2* | 1850707P | Inlet Base-TP50 | - | 1 |
| 3 | 1850702G | Outlet-TP50 | 1 | - |
| 3 | 1850702P | Outlet-TP50 | - | 1 |
| 3* | 1850708G | Outlet-TP50 | 1 | - |
| 3* | 1850708P | Outlet-TP50 | - | 1 |



Bill of Materials for TP50-STS- Pumps

| ITEM NO. | PART NUMBER | DESCRIPTION | REX | RCX |
|-------------|----------------|---|-----|-----|
| 1 | 1850704 | Shaft Housing Assembly-TP50 | 1 | 1 |
| а | 1850704-2 | Centre Piece-TP40/50 | 1 | 1 |
| b | 1850704-1 | Air Disc-TP50 | 2 | 2 |
| с | 2034001 | Gasket-TP40/50 | 2 | 2 |
| d | 6372770S | Hex Bolt | 8 | 8 |
| е | 20390035 | Plain Washer | 8 | 8 |
| f | 20390115 | Square Nut | 4 | 4 |
| 2 | 1850701 | Inlet Base-TP50 | 1 | - |
| 2* | 1850707 | Inlet Base-TP50 | - | 1 |
| 3 | 1850702 | Outlet-TP50 | 1 | - |
| 3* | 1850708 | Outlet-TP50 | - | 1 |
| 4 | 1850703 | Outer Chamber-TP50 | 2 | 2 |
| 5 | 2020704 | Outer Flange-TM50 | 2 | 2 |
| 6 | 2021002 | Inner Flange-TM50/TP50 | 2 | 2 |
| 7 | 2032104 | Primary Shaft-TP50 | 1 | 1 |
| 8 | 2004013 | Square Ring | 2 | 2 |
| 9 | 1854101 | Backup Diaphragm (Full Stroke)- TP50 | 2 | 2 |
| 9A | 1853601T | Diaphragm (Full Stroke)-TP50 | 2 | 2 |
| 10 | 2003643T | Ball-TM50/TP50 | 4 | 4 |
| 11 | 2022701 | Ball Seat-TM50/TP50 | 4 | 4 |
| 11A | 2023601T | O Ring | 4 | 4 |
| 12 | 25890265 | Allen Bolt | 16 | 16 |
| 13 | 17127495 | Plain Washer | 16 | 16 |
| 14 | 17127205 | Spring Washer | 32 | 32 |
| 15 | 32001275 | Hex Nut | 16 | 16 |
| 16 | 18590015 | Allen Bolt | 16 | 16 |
| 17 | 20390035 | Plain Washer | 16 | 16 |
| 18 | 21290075 | Spring Washer | 32 | 32 |
| 19 | 17590025 | Hex Nut | 16 | 16 |
| 20 | 2032103 | Sleeve-TP40/50 | 1 | 1 |
| 21 | 2034003 | O Ring | 4 | 4 |
| 22 | 2034004 | Skeleton Seal-TP40/50 | 1 | 1 |

| ITEM NO. | PART NUMBER | DESCRIPTION | REX | RCX |
|-------------|----------------|--|-----|-----|
| А | 20397115 | Air Valve Assembly-TP40/50 | 1 | 1 |
| 23 | 1850705 | Air Valve Body-TP40/50 | 1 | 1 |
| 24 | 1850706 | Air Valve Body Cover-TP50 | 1 | 1 |
| 25 | 2034008 | O Ring | 1 | 1 |
| 26 | 17127195 | Allen Bolt | 3 | 3 |
| 27 | 20390155 | Plain Washer | 1 | 1 |
| 28 | 5369014S | Spring Washer | 1 | 1 |
| 29 | 1679004 | Button Head Screw-TP15/25 | 1 | 1 |
| 30 | 2039009 | Internal Circlip | 1 | 1 |
| 31 | 2030803 | End Cap Set-TP40/50 | 1 | 1 |
| а | 2030803-1 | End Cap-TP40/50 | 1 | 1 |
| b | 2034005 | O Ring | 1 | 1 |
| с | 2038201 | End Cap Cover | 1 | 1 |
| 32 | 2039801 | Air Piston Assembly-TP40/50 | 1 | 1 |
| а | 2030801 | Air Piston-TP40/50 | 1 | 1 |
| b | 2034007 | O Ring | 5 | 5 |
| с | 2033601 | Seal | 5 | 5 |
| 33 | 2039803 | Differential Cap Assem- bly-TP40/50 | 1 | 1 |
| а | 2030802 | Differential Cap-TP40/50 | 1 | 1 |
| b | 2034006 | O Ring | 1 | 1 |
| с | 2033603 | Seal | 1 | 1 |
| d | 1634001 | O Ring | 1 | 1 |
| 34 | 61290115 | Plain Washer | 4 | 4 |
| 35 | 20390105 | Allen Bolt | 4 | 4 |
| 36 | 2039804 | Secondary Shaft Assem- bly-TP40/50 | 1 | 1 |
| а | 2032106 | Secondary Shaft-TP50 | 1 | 1 |
| b | 0229030 | O Ring | 2 | 2 |
| с | 2033605 | Seal | 1 | 1 |
| d | 2034010 | O Ring | 3 | 3 |
| е | 2033604 | Seal | 3 | 3 |
| 37 | 8059801 | Silencer | 1 | 1 |
| | | | | |

Note.

| ITEM. NO. | PART NUMBER | DESCRIPTION | BSPT | BSPP |
|--------------|-------------|----------------------|------|------|
| 1a | 1850704-2G | Centre Piece-TP40/50 | 1 | - |
| 1a | 1850704-2P | Centre Piece-TP40/50 | - | 1 |
| 2 | 1850701G | Inlet Base-TP50 | 1 | - |
| 2 | 1850701P | Inlet Base-TP50 | - | 1 |
| 2* | 1850707G | Inlet Base-TP50 | 1 | - |
| 2* | 1850707P | Inlet Base-TP50 | - | 1 |
| 3 | 1850702G | Outlet-TP50 | 1 | - |
| 3 | 1850702P | Outlet-TP50 | - | 1 |
| 3* | 1850708G | Outlet-TP50 | 1 | - |
| 3* | 1850708P | Outlet-TP50 | - | 1 |



RCX

Bill of Materials for TP50-STB- Pumps

| ГЕМ NO. | PART NUMBER | DESCRIPTION | REX | RCX | | ITEM NO. | PART NUMBER | DESCRIPTION | |
|------------|----------------|-----------------------------|-----|-----|---|-------------|----------------|---------------------------------------|---|
| 1 | 1850704 | Shaft Housing Assembly-TP50 | 1 | 1 | | А | 20397115 | Air Valve Assembly-TP40/50 | t |
| а | 1850704-2 | Centre Piece-TP40/50 | 1 | 1 | | 23 | 1850705 | Air Valve Body-TP40/50 | T |
| b | 1850704-1 | Air Disc-TP50 | 2 | 2 | | 24 | 1850706 | Air Valve Body Cover-TP50 | Ť |
| с | 2034001 | Gasket-TP40/50 | 2 | 2 | | 25 | 2034008 | O Ring | T |
| d | 6372770S | Hex Bolt | 8 | 8 | 1 | 26 | 17127195 | Allen Bolt | T |
| e | 20390035 | Plain Washer | 8 | 8 | | 27 | 20390155 | Plain Washer | T |
| f | 20390115 | Square Nut | 4 | 4 | | 28 | 5369014S | Spring Washer | T |
| 2 | 1850701 | Inlet Base-TP50 | 1 | - | | 29 | 1679004 | Button Head Screw-TP15/25 | T |
| 2* | 1850707 | Inlet Base-TP50 | - | 1 | | 30 | 2039009 | Internal Circlip | T |
| 3 | 1850702 | Outlet-TP50 | 1 | - | | 31 | 2030803 | End Cap Set-TP40/50 | T |
| 3* | 1850708 | Outlet-TP50 | - | 1 | 1 | а | 2030803-1 | End Cap-TP40/50 | T |
| 4 | 1850703 | Outer Chamber-TP50 | 2 | 2 | | b | 2034005 | O Ring | T |
| 5 | 20007255 | Outer Flange-TM50 | 2 | 2 | | с | 2038201 | End Cap Cover | T |
| 5A | 20027365 | Hex Bolt | 2 | 2 | | 32 | 2039801 | Air Piston Assembly-TP40/50 | T |
| 6 | 2001027 | Inner Flange-TM50/TP50 | 2 | 2 | | а | 2030801 | Air Piston-TP40/50 | Ť |
| 7 | 2032105 | Primary Shaft-TP50 | 1 | 1 | | b | 2034007 | O Ring | T |
| 8 | 2004013 | Square Ring | 2 | 2 | | с | 2033601 | Seal | Ť |
| 9 | 2004066B | Backup Diaphragm-TP50 | 2 | 2 | | 33 | 2039803 | Differential Cap Assem- | T |
| 9A | 2003641T | Diaphragm-TP50 | 2 | 2 | | | | bly-TP40/50 | _ |
| 10 | 2003643T | Ball-TM50/TP50 | 4 | 4 | | а | 2030802 | Differential Cap-TP40/50 | + |
| 11 | 2022701 | Ball Seat-TM50/TP50 | 4 | 4 | | b | 2034006 | O Ring | + |
| 11A | 2023601T | O Ring | 4 | 4 | | С | 2033603 | Seal | 4 |
| 12 | 25890265 | Allen Bolt | 16 | 16 | | d | 1634001 | O Ring | _ |
| 13 | 1712749S | Plain Washer | 16 | 16 | | 34 | 6129011S | Plain Washer | 1 |
| 14 | 1712720S | Spring Washer | 32 | 32 | | 35 | 2039010S | Allen Bolt | _ |
| 15 | 3200127S | Hex Nut | 16 | 16 | | 36 | 2039804 | Secondary Shaft Assem- bly-TP40/50 | |
| 16 | 18590015 | Allen Bolt | 16 | 16 | | а | 2032106 | Secondary Shaft-TP50 | t |
| 17 | 20390035 | Plain Washer | 16 | 16 | | b | 0229030 | O Ring | t |
| 18 | 21290075 | Spring Washer | 32 | 32 | | с | 2033605 | Seal | ╇ |
| 19 | 1759002S | Hex Nut | 16 | 16 | | d | 2034010 | O Ring | |
| 20 | 2032103 | Sleeve-TP40/50 | 1 | 1 | | e | 2033604 | Seal | t |
| 21 | 2034003 | O Ring | 4 | 4 | | 37 | 8059801 | Silencer | t |
| 22 | 2034004 | Skeleton Seal-TP40/50 | 1 | 1 | | 0. | | | |

Note.

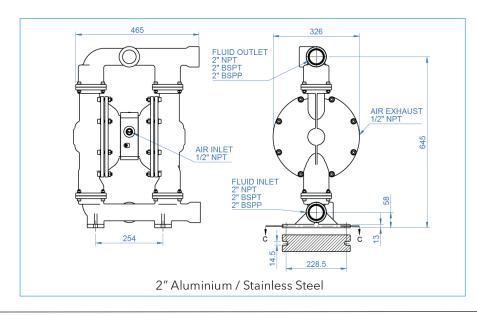
| ITEM. NO. | PART NUMBER | DESCRIPTION | BSPT | BSPP |
|--------------|-------------|----------------------|------|------|
| 1a | 1850704-2G | Centre Piece-TP40/50 | 1 | - |
| 1a | 1850704-2P | Centre Piece-TP40/50 | - | 1 |
| 2 | 1850701G | Inlet Base-TP50 | 1 | - |
| 2 | 1850701P | Inlet Base-TP50 | - | 1 |
| 2* | 1850707G | Inlet Base-TP50 | 1 | - |
| 2* | 1850707P | Inlet Base-TP50 | - | 1 |
| 3 | 1850702G | Outlet-TP50 | 1 | - |
| 3 | 1850702P | Outlet-TP50 | - | 1 |
| 3* | 1850708G | Outlet-TP50 | 1 | - |
| 3* | 1850708P | Outlet-TP50 | - | 1 |



Replacement & Repair Kits for TP50 SSX Pump

| ITEM NO. | PART NUM- BER | DESCRIPTION | Replacement Kit 2039701S | Repair Kit 1859701-S | Repair Kit 1859701-B | Repair Kit 1859701-T | Repair Kit 1859701-TB |
|----------|------------------|-------------------------------------|-----------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| 8 | 2004013 | Square Ring | - | 2 | 2 | 2 | 2 |
| 9 | 2024101 | Diaphragm-TM50/TP50 | - | 2 | - | - | - |
| 9 | 2024041B | Diaphragm-TM50/TP50 | - | - | 2 | - | - |
| 9 | 1854101 | Backup Diaphragm (Full Stroke)-TP50 | - | - | - | 2 | - |
| 9 | 2004066B | Backup Diaphragm-TM50 | - | - | - | - | 2 |
| 9A | 1853601T | Diaphragm (Full Stroke)-TP50 | - | - | - | 2 | - |
| 9A | 2003641T | Diaphragm-TM50 | - | - | - | - | 2 |
| 10 | 2024103 | Ball-TM50/TP50 | - | 4 | - | - | - |
| 10 | 2004043B | Ball-TM50/TP50 | - | - | 4 | - | - |
| 10 | 2003643T | Ball-TM50 | - | - | - | 4 | 4 |
| 11 | 2024102 | Ball Seat-TM50/TP50 | - | 4 | - | - | - |
| 11A | 2023601T | O Ring | - | - | - | 4 | 4 |
| 22 | 2034004 | Skeleton Seal-TP40/50 | 1 | 1 | 1 | 1 | 1 |
| 23 | 1850705 | Air Valve Body-TP40/50 | 1 | - | - | - | - |
| 24 | 1850706 | Air Valve Body Cover-TP50 | 1 | - | - | - | - |
| 25 | 2034008 | O Ring | 1 | 1 | 1 | 1 | 1 |
| 26 | 17127195 | Allen Bolt | 3 | - | - | - | - |
| 27 | 20390155 | Plain Washer | 1 | 1 | 1 | 1 | 1 |
| 28 | 5369014S | Spring Washer | 1 | 1 | 1 | 1 | 1 |
| 29 | 1679004 | Button Head Screw-TP15/25 | 1 | 1 | 1 | 1 | 1 |
| 30 | 2039009 | Internal Circlip | 1 | 1 | 1 | 1 | 1 |
| 31 | 2030803 | End Cap Set-TP40/50 | 1 | 1 | 1 | 1 | 1 |
| 32 | 2039801 | Air Piston Assembly-TP40/50 | 1 | 1 | 1 | 1 | 1 |
| 33 | 2039803 | Differential Cap Assembly-TP40/50 | 1 | 1 | 1 | 1 | 1 |
| 34 | 6129011S | Plain Washer | 4 | - | - | - | - |
| 35 | 20390105 | Allen Bolt | 4 | - | - | - | - |
| 36 | 2039804 | Secondary Shaft Assemby-TP50 | - | 1 | 1 | 1 | 1 |

Dimensional Data





EU DECLARATION OF CONFORMITY

Object of declaration

| PRODUCT | : | AIR OPERATED DOUBLE DIAPHRAGM PUMP |
|---------------------|---|---|
| MODEL | : | TP50 Series |
| MANUFACTURER'S NAME | : | TERYAIR EQUIPMENT PVT. LTD. |
| ADDRESS | : | SITE - 1 : BUILDING A - 1/2, 102 TO 105 & BUILDING C 12 & 13, TIRUPATI UDYOG NAGAR, SATIVALI ROAD, VASAI (E), PALGHAR: 401208. SITE - 2: AUGUSTINE - II, COLACO INDUSTRIAL COMPLEX, GALA NO - 101 TO 107, SATIVALI ROAD, VILLAGE WALIV, VASAI (E), PALGHAR: 401208 |

To provide presumption of conformity in order to directive 2014/34/EU; the following harmonized standards and/or other normative documents as referenced within the following official journals are applied:

APPLICABLE DIRECTIVE: ATEX DIRECTIVE (2014/34/EU)

APPLICABE STANDARDS:

| EN ISO 80079-36: 2016 | : | Explosive atmospheres —Part 36: Non-electrical equipment for explosive |
|-----------------------|---|--|
| | | atmospheres —Basic method and requirements. |
| EN ISO 80079-37:2016 | : | Explosive atmospheres —Part 37: Non-electrical equipment for explosive |
| | | atmospheres —Non- electrical type of protection constructional safety 'c', control |
| | | of ignition sources 'b', liquid immersion 'k'. |

Notified body to whom Technical file has logged with: - Technicka Inspekcia (Ref: 1354).

DECLARATION: - **TERYAIR EQUIPMENT PVT. LTD.,** declare that under our sole responsibility for the supply of the product defined above, the said product complies with all the applicable Directives, Regulations and all essential Health and Safety requirements applying to it.

I, the undersigned, hereby declare that the product specified above conforms to the above standard(s).

ATEX MARKING APPLIED

 $\langle \widehat{\varepsilon}_x \rangle \mathbf{C} \mathbf{\epsilon}$

Please Refer ATEX Rating for Teryair Aodd Models Table

Signed for and on behalf of

TERYAIR EQUIPMENT PVT. LTD.

Place of Issue : Vasai



SUMMERY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

| Pump Size | Series | Wetted Materials | Center Section | Dipharagm Materials | ATEX Rating | | | |
|--------------|--------|---------------------|-----------------|---------------------|---|-----------------------------|-----------|---|
| | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | | |
| | | | | Buna-N | Ex h IIIC T85ºC Db (IP65) | | | |
| | | Aluminium | Aluminium | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65) | | | |
| | | | | Sentoprene | | | | |
| | | | | Hytrel | ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) | | | |
| | | | | PTFE | | | | |
| 06 (1/4") | SDP | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | | |
| (1/4) | | | | Buna-N | Ex h IIIC T85ºC Db I M2 Ex h I Mb (IP65) | | | |
| | | Stainless Steel | Stainless Steel | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) I M2 Ex h I Mb (IP65) | | | |
| | | | | Sentoprene | ll 2 GD Ex h IIC T5 Gb | | | |
| | | | | Hytrel | Ex h IIIC T100°C Db (IP65) | | | |
| | | | | PTFE | I M2 Ex h I Mb (IP65) | | | |
| | DP/SDP | DP/SDP Aluminium | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | | |
| | | | Aluminium | Buna-N | Ex h IIIC T85ºC Db (IP65) | | | |
| | | | | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200ºC Db (IP65) | | | |
| | | | | Sentoprene | | | | |
| | | | | Hutrol | ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) | | | |
| | | | | PTFE | | | | |
| 12 (1/2") | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | | |
| (1/2) | | | | Buna-N | Ex h IIIC T85°C Db I M2 Ex h I Mb (IP65) | | | |
| SDP | SDP | SDP Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | nless Steel Stainless Steel | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) I M2 Ex h I Mb (IP65) |
| | | | | Sentoprene | ll 2 GD Ex h IIC T5 Gb | | | |
| | | | | Hytrel | Ex h IIIC T100°C Db (IP65) | | | |
| | | | | PTFE | I M2 Ex h I Mb (IP65) | | | |
| | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | | |
| | | | | Buna-N | Ex h IIIC T85°C Db (IP65) | | | |
| 25 (1") DP / | | Aluminium / Stain- | Aluminium | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) | | | |
| | SDP | less Steel | | Sentoprene | | | | |
| | | | | Hytrel | ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) | | | |
| | | | | PTFE | EX II IIIC 1 100 C D0 (1P65) | | | |



SUMMERY FOR THE ATEX RATING FOR TERYAIR AODD MODELS

| Pump Size | Series | Wetted Materials | Center Section | Dipharagm Materials | ATEX Rating | | |
|--------------|-------------|----------------------------------|----------------|---------------------|--|--------|----------------------------|
| | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | |
| | | | | Buna-N | Ex h IIIC T85ºC Db (IP65) | | |
| 40 | DP / SDP | Aluminium / Stain- less Steel | Aluminium | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65) | | |
| (1-1/2") | SDP | less Steel | | Sentoprene | | | |
| | | | | Hytrel | ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) | | |
| | | | | PTFE | | | |
| | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | |
| | | | | Buna-N | Ex h IIIC T85ºC Db (IP65) | | |
| | DP / SDP | Aluminium / Stain- less Steel | Aluminium | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65) | | |
| | SDP | less Steel | | Sentoprene | | | |
| | | | | Hytrel | ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) | | |
| | | | - | PTFE | EX II 111C 1 100°C DD (1P65) | | |
| 50 (2") | .") | SDP Cast Iron | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | |
| | | | Cast Iron | Buna-N | Ex h IIIC T85°C Db I M2 Ex h I Mb (IP65) | | |
| | SDP | | | Viton-FKM | "ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) I M2 Ex h I Mb (IP65)" | | |
| | | | | Sentoprene | ll 2 GD Ex h IIC T5 Gb | | |
| | | | | | | Hytrel | Ex h IIIC T100°C Db (IP65) |
| | | | | PTFE | I M2 Ex h I Mb (IP65) | | |
| | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | |
| | | | | Buna-N | Ex h IIIC T85°C Db (IP65) | | |
| | DP / | Δμισισμισ | Aluminium | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200⁰C Db (IP65) | | |
| | SDP | | | Sentoprene | | | |
| | | | | Hytrel | ll 2 GD Ex h IIC T5 Gb Ex h IIIC T100⁰C Db (IP65) | | |
| | | | | PTFE | EX II IIIC I 100 C D0 (1805) | | |
| 75 (3") | | | | Neoprene | ll 2 GD Ex h IIC T6 Gb | | |
| | | | | Buna-N | Ex h IIIC T85ºC Db I M2 Ex h I Mb (IP65) | | |
| | SDP | SDP Cast Iron | Cast Iron | Viton-FKM | ll 2 GD Ex h IIC T3 Gb Ex h IIIC T200°C Db (IP65) I M2 Ex h I Mb (IP65) | | |
| | | | | Sentoprene | ll 2 GD Ex h IIC T5 Gb | | |
| | | | | Hytrel | Ex h IIIC T100ºC Db (IP65) | | |
| | | | | PTFE | I M2 Ex h I Mb (IP65) | | |





Warranty Certificate

Every product manufactured by Teryair

is built to meet the highest standards of quality.

Teryair warrants that the Products, accessories and parts manufactured or supplied by the company be free from defects in material and workmanship for a period of six months from date of Teryair authorized dealer invoice to customer, or one year from date of Teryair invoice to dealer, whichever is earlier. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Teryair products and parts is beyond our control, Teryair cannot guarantee the suitability of any product or part for a particular application and Teryair shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Teryair does not warranty bought out products or components such as electric motors and hardware but will assist in directing warranty queries to the dealer/manufacturer responsible. Teryair responsibility is limited solely to replacement or repair of defective Teryair products or components.

Dealer/End User shall have no right or remedy and Teryair shall have no liability or obligation under the warranty, if: (i) a Product is altered, changed, modified or tampered with in any way, (ii) a Product is damaged after deposit with the transporter for shipment; (iii) a Product is not properly preserved, packaged, stored, processed or handled after receipt; (iv) a Product is not used and maintained in accordance with Teryair's recommended operating and maintenance manuals, instructions and procedures, if any; (v) a Product is not properly incorporated or installed in, or not properly combined with, an Other Product; (vi) the issue with a Product is directly or indirectly attributable to, or directly or indirectly results from or arises out of, a failure, substandard performance or other issue with another product, material, component or part not supplied by Teryair; (vii) the issue with a Product is used in a manner, with a substance or of a purpose other sign, specification or other specific requirement of Dealer/End User; (viii) a Product is used in a manner, with a substance or other similar occurrence; (x) the issue with a Product is directly or indirectly attributable to, or directly attributable to, or directly or a purpose other than the normal manner, substance and purpose for which it is intended or is otherwise subjected to abnormal use or service; (ix) a Product is subjected to a power surge, brown out or other similar occurrence; (x) the issue with a Product is directly attributable to, or directly or indirectly results from or arises out of, normal wear and tear of such Product (including, without limitation, things such as worn seals, diaphragms, balls, O rings, gaskets, chisels, cutters, hoses and other such wearing components; (xi) the issue with a Product is directly or indirectly or indirectly.

M Yadav, Q.A. Manager (Company Seal)



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