

INSTRUCTIONS-PARTS LIST

2020.12.17 Rev.14

P-Type Spray Pump

Part No. **P301-C450**

P-TYPE Air MOTOR with C450 PUMP 20:1 ratio

248 bar Maximum Fluid Working Pressure



DSTech Co., LTD.

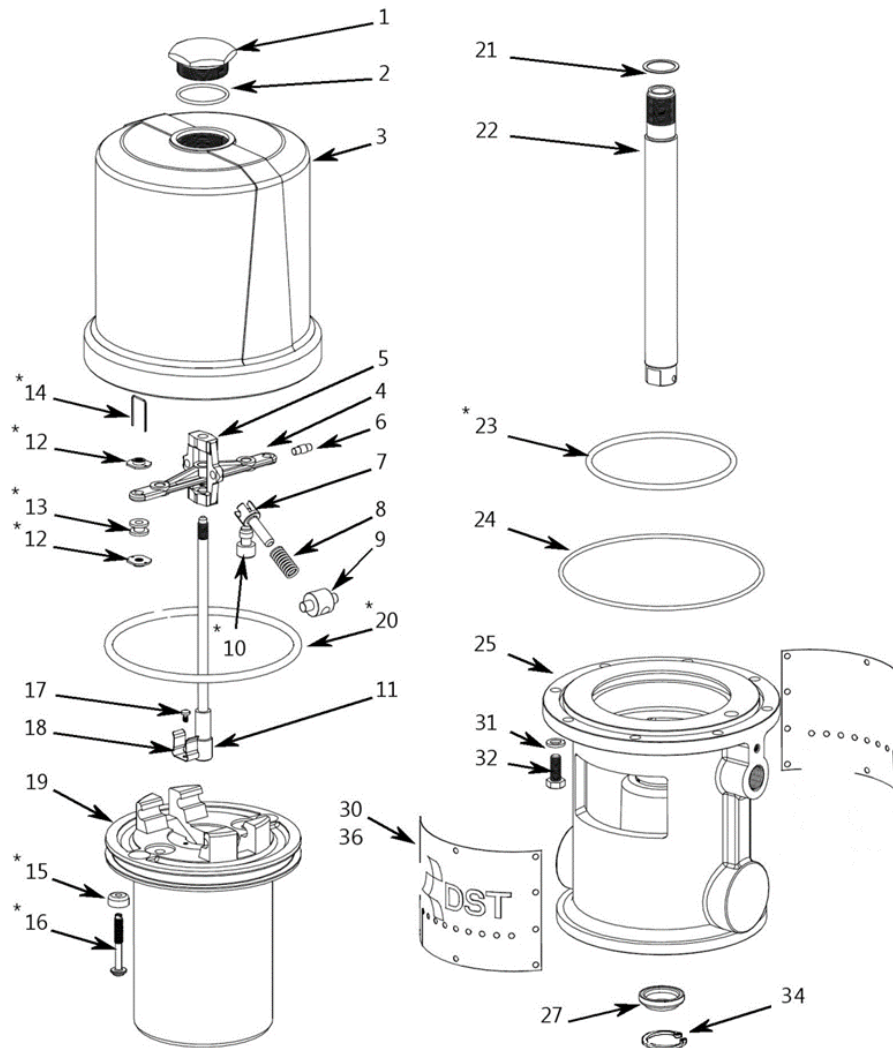
#1461-2, Songjung-dong, Gangseo-gu,
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www.dstpump.com

P301-100 Air Motor Part Drawing

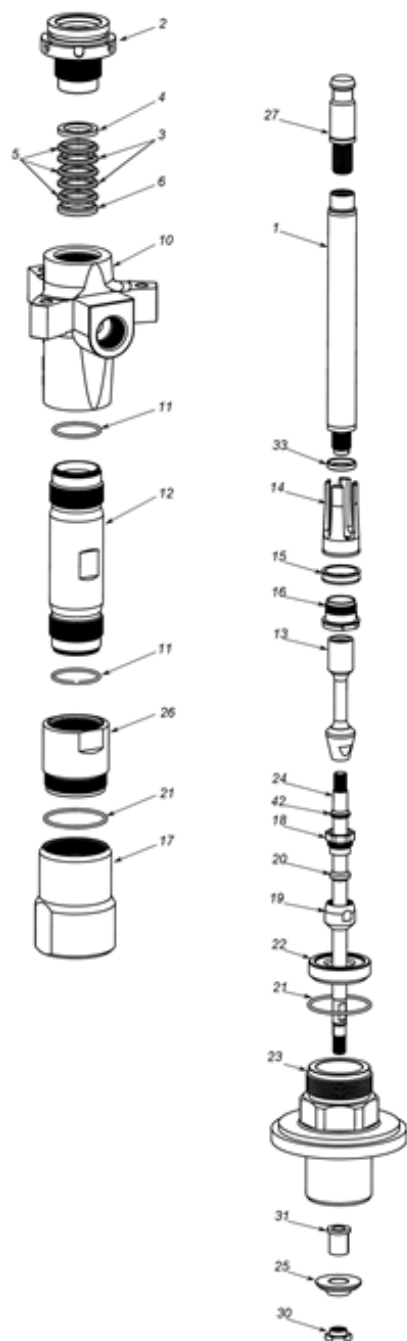


No	Code	Description	Qty	No	Code	Description	Qty
1	P301-001	NUT, cylinder cap	1	17	P301-017	SCREW	2
2	P301-002	O-RING	1	18	P301-018	CLIP, spring	2
3	P301-003	CYLINDER, motor	1	19	P301-019	PISTON	1
4	P301-004	ACTUATOR, valve	1	20	P301-020	O-RING, piston	1
5	P301-005	YOKE	1	21	P301-021	GASKET, copper	1
6	P301-006	PIN, toggle	2	22	P301-022	ROD, piston	1
7	P301-007	ARM, toggle	2	23	P301-023	O-RING	1
8	P301-008	SPRING	2	24	P301-024	SEAL	1
9	P301-009	ROCKER, toggle	2	25	P301-025	BASE	1
10	P301-010	POPPET, valve	2	27	P301-027	DUST SEAL	1
11	P301-011	TRIP ROD	1	30	P301-030	PLATE, identification	2
12	P301-012	NUT, adjusting	4	31	P301-031	WASHER	8
13	P301-013	GROMMET, rubber	2	32	P301-032	SCREW	8
14	P301-014	LOCKWIRE	2	34	P301-034	SNAP RING	1
15	P301-015	POPPET, valve	2	36	P301-306	RIVET, plate	20
16	P301-016	STEM, valve	2				

Note : part marked in color are the spare parts

PART NO 10, 12, 13, 14, 15, 16, 20, 23
Included in **Repair KIT No P301-500**

C450 PUMP



Note : part marked in color are the spare part

No	D Part No	G Part No	Description	Qty
1	C450-001		ROD, displacement	1
2	C450-002	184-039	NUT, packing	1
3	C450-003	184-302	V-PACKING	2
4	C450-004	184-172	GLAND, female	1
5	C450-005	109-252	V-PACKING	3
6	C450-006	184-222	GLAND, male	1
10	C450-010	184-038	HOUSING, outlet	1
11	C450-011	109-205	O-RING	2
12	C450-012	184-043	CYLINDER	1
13	C450-013	184-042	PISTON	1
14	C450-014	184-043	GUIDE	1
15	C450-015	184-053	SEAL, piston	1
16	C450-016	184-052	SEAT, piston	1
17	C450-017		HOUSING,	1
18	C450-018	184-493	NUT, packing	1
19	C450-019	184-616	VALVE BODY	1
20	C450-020	184-049	SEAL	1
21	C450-021	187-860	SEAL	1
22	C450-022	184-617	SEAT, intake	1
23	C450-023	187-859	CYLINDER	1
24	C450-024	187-858	ROD	1
25	C450-025	184-051	PISTON, priming	1
26	C450-026		HOUSING	1
27	C450-027		CONNECTING ROD	1
30	C450-030	184-121	NUT, priming	1
31	C450-031	184-122	GUIDE, priming	1
33	C450-033	184-124	SPACER	1
42	C450-042	184-469	SEAL	1

REPAIR KIT No :C450-500 (222-773)

With 11, 15, 20, 21, 42,

REPAIR KIT No :C450-501 (222-793)

With 19, 20, 21, 22, 42

Technical Data

Category	Data		
	P-TYPE (45.5CC)		
Maximum fluid working pressure	25.0 MPa 248 bar		
Maximum air input pressure page	1.2 MPa 12 bar		
Ratio	20:1		
Displacement pump effective area	4.5Cm 2 (0.697in 2)		
Stroke length	102mm (4")		
Displacement per cycle	45.5cc		
Fluid flow at 60 cycles per minute	4.5 / Ltr.		
Maximum operating temperature	82_C (180_F)		
Air motor effective	108mm (4.25")		
Wetted parts	Carbon Steel; Alloy Steel; 304, 440 and 17–4 PH Grades of Stainless Steel; Zinc and Nickel Plating; Ductile Iron; Tungsten Carbide; PTFE; Leathe		

Standard Warranty

Warrants all equipment referenced in this document which is manufactured by and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by, will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with written recommendations.

This warranty does not cover, and shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non–component parts. Nor shall be liable for malfunction, damage or wear caused by the incompatibility of equipment with structures, accessories, equipment or materials not supplied by, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized distributor for verification of the claimed defect. If the claimed defect is verified, will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within one (1) years of the date of sale.

MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD

BUT NOT MANUFACTURED BY. These items sold, but not manufactured by (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will be liable for indirect, incidental, special or consequential damages resulting from supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of or otherwise.

REPAIR INSTRUCTIONS

2015.09.30 rev3

CARBON STEEL

C450 Pump

With Priming piston and severe- Dust ROD & Displacement

M-TYPE Air MOTOR with C450 PUMP 10:1 ratio

124 bar Maximum Fluid Working Pressure

P-TYPE Air MOTOR with C450 PUMP 20:1 ratio

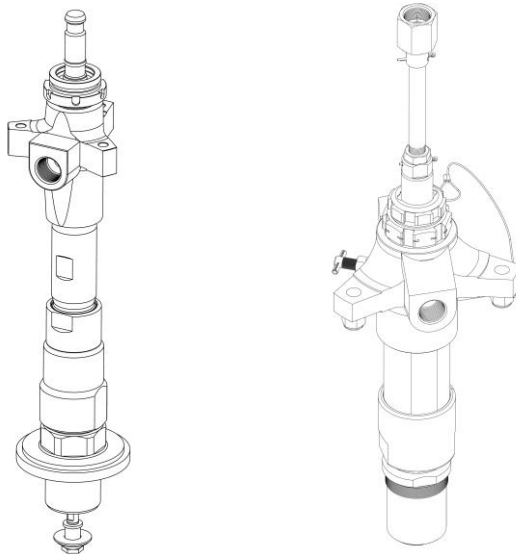
248 bar Maximum Fluid Working Pressure

N165-TYPE Air MOTOR with C450 PUMP 46:1 ratio

280 bar Maximum Fluid Working Pressure

B-TYPE Air MOTOR with C450 PUMP 55:1 ratio

341 bar Maximum Fluid Working Pressure



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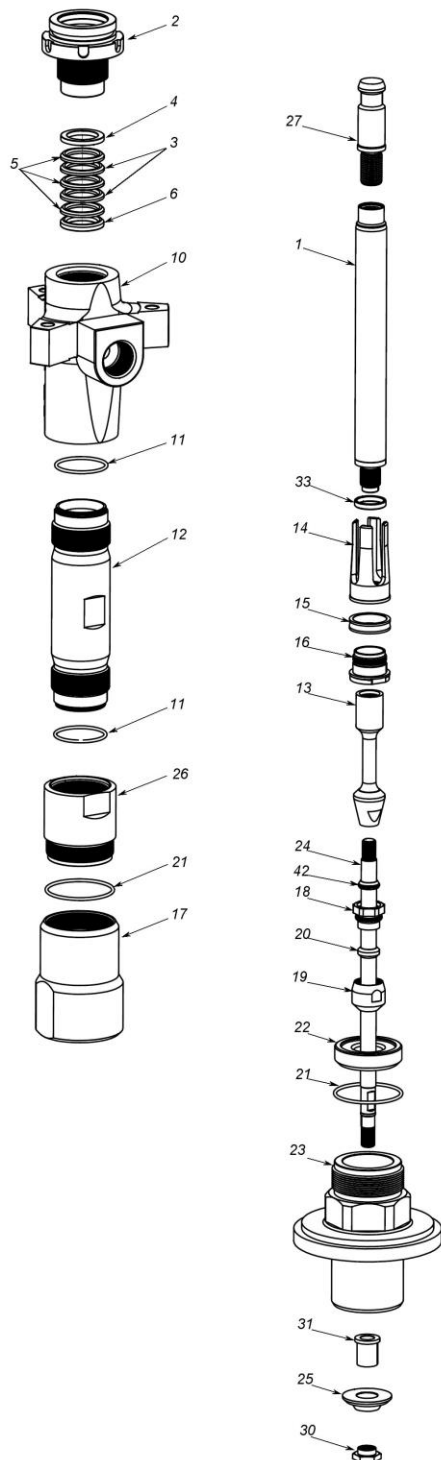
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Parts drawing and Parts List

PUMP



Note : part marked in color are the spare part

No	D Part No	G Part No	Description	Qty
1	C450-001		ROD, displacement	1
2	C450-002	184-039	NUT, packing	1
3	C450-003	184-302	V-PACKING,leather	2
4	C450-004	184-172	GLAND, female	1
5	C450-005	109-252	V-PACKING,uhmwpe	3
6	C450-006	184-222	GLAND, male	1
10	C450-010	184-038	HOUSING, outlet	1
11	C450-011	109-205	O-RING	2
12	C450-012	184-043	CYLINDER	1
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33	C450-033	184-124	SPACER	1
42	C450-042	184-469	SEAL	1

REPAIR KIT No :C450-500 (222-773)

With 11, 15, 20, 21, 42,

REPAIR KIT No :C450-501 (222-793)

With 19, 20, 21, 22, 42

Technical Data

Category	Data			
	M-TYPE (34CC)	P-TYPE (45.5CC)	N165-TYPE (40CC)	B-TYPE (56.7CC)
Maximum fluid working pressure	12.0 MPa 120 bar	25.0 MPa 248 bar	28.0 MPa 280 bar	34.0 MPa 341 bar
Maximum air input pressure	1.2 MPa 12 bar	1.2 MPa 12 bar	0.6 MPa 6.2 bar	0.6 MPa 6.2 bar
Ratio	10:1	20:1	46:1	55:1
Displacement pump effective area	4.5Cm 2 (0.697in 2)	4.5Cm 2 (0.697in 2)	4.5Cm 2 (0.697in 2)	4.5Cm 2 (0.697in 2)
Stroke length	76mm (3")	102mm (4")	90mm (3.54")	127mm (5.0")
Displacement per cycle	34cc	45.5cc	40cc	56.7cc
Fluid flow at 60 cycles per minute	3.8 / Ltr.	4.5 / Ltr.	4.8 / Ltr.	6.8 / Ltr.
Maximum operating temperature	82_C (180_F)			
Air motor effective	76mm (3")	108mm (4.25")	165mm (6.5")	178mm (7")
Wetted parts	Carbon Steel; Alloy Steel; 304, 440 and 17-4 PH Grades of Stainless Steel; Zinc and Nickel Plating; Ductile Iron; Tungsten Carbide; PTFE; Leathe			