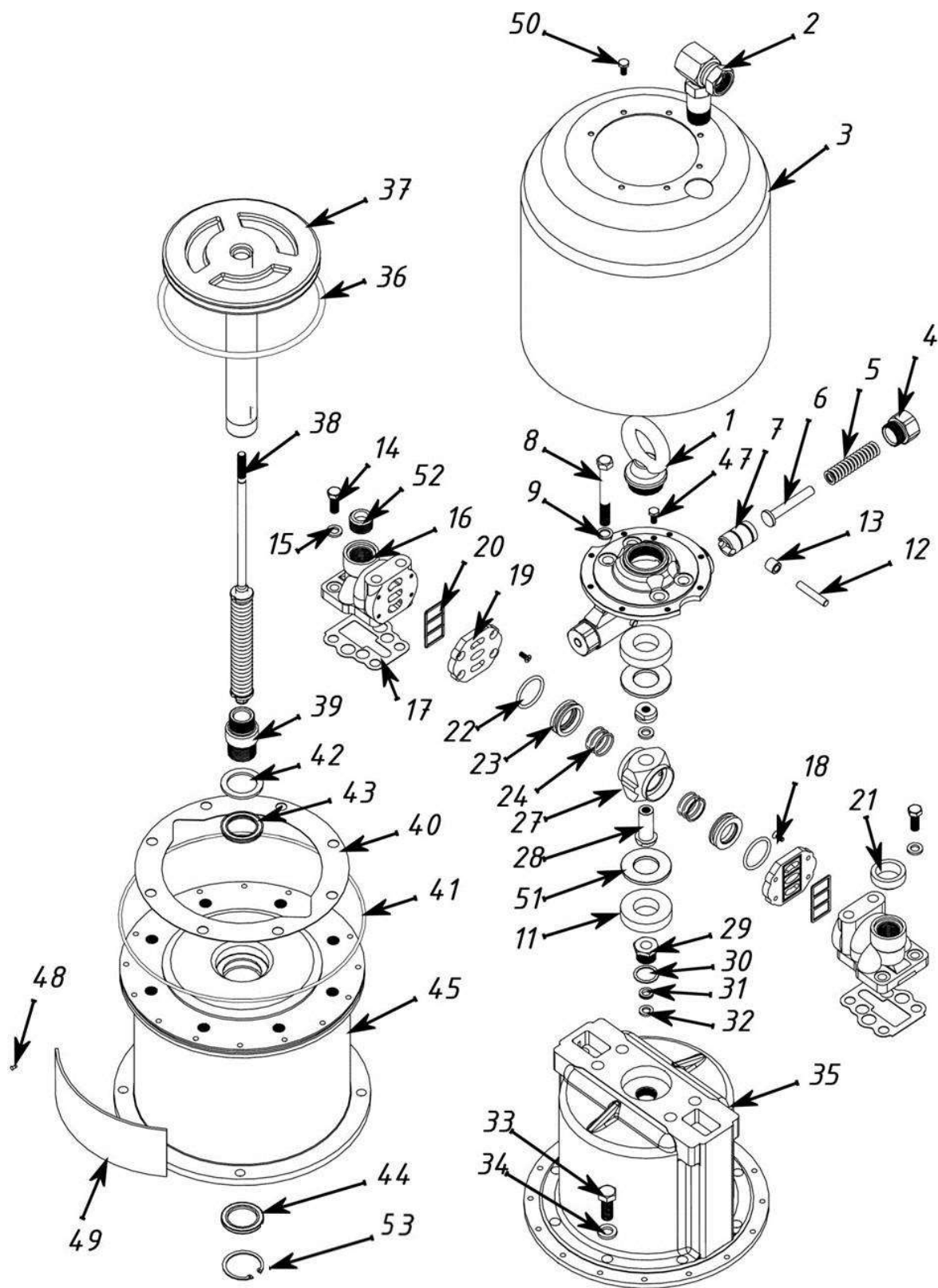


DSTech MANUAL

B178-100 Air Motor Part Drawing



No	D CODE	Description	Qty	No	D CODE	Description	Qty
1	K254-001	LIFT RING	1	27	K254-027	VALVE HOUSING	1
2	K254-002	ADAPTER UNION	1	28	K254-028	HUB	1
3	B178-003	MOTOR SHIELD	1	29	K254-029	BEARING, trip rod	1
4	K254-004	RETAINER	2	30	K254-030	GASKET	1
5	K254-005	SPRING, plunger	2	31	K254-031	BACKUP WASHER	1
6	K254-006	GUIDE	2	32	K254-032	V- PACKING	1
7	K254-007	PLUNGER	2	33	K254-033	HEX BOLT	12
8	K254-008	SCREW	4	34	K254-034	WASHER	12
9	K254-009	LOCK WASHER	4	35	B178-035	MOTOR CYLINDER	1
10	K254-010	HOUSING, detent	1	36	B178-036	O-RING, piston	1
11	K254-011	PAD, rubber	2	37	B178-037	PISTON ASS'Y	1
12	K254-012	AXLE	2	38	K254-038	TRIP ROD ASS'Y	1
13	K254-013	ROLLER	2	39	K254-039	STUD	1
14	K254-014	SCREW	4	40	B178-040	MOTOR GASKET	1
15	K254-015	WASHER	4	41	B178-041	O-RING, base	1
16	K254-016	AIR MANIFOLD	2	42	K254-042	V-PACKING	1
17	K254-017	MANIFOLD GASKET	2	43	K254-043	BACKUP WASHER	1
18	K254-018	SCREW, valve plate	8	44	K254-044	WIPER SEAL	1
19	K254-019	VALVE PLATE	2	45	B178-045	BASE	1
20	K254-020	PLATE SEAL	2	47	K254-047	SCREW	1
21	K254-021	GROMMET	1	48	K254-048	RIVET, name plate	10
22	K254-022	O-RING	2	49	K254-049	NAME PLATE	2
23	K254-023	AIR VALVE	2	50	K254-050	SCREW	8
24	K254-024	SPRING, air valve	2	51	K254-051	THRUST WASHER	2
25	K254-025	NUT, trip rod	2	52	K254-052	PLUG	1
26	K254-026	LOCK WASHER	1	53	K254-053	SNAP RING	1

Note : part marked in color are the spare parts

PART NO 17, 22, 30, 31, 32, 36, 42, 43,
Included in Repair KIT No B178-500 (206-734)

REPAIR INSTRUCTIONS

2018.01.09 Rev4

B- type Air Motor & X- type Displacement Sprayer

Part No. B178-X201, 20:1 Ratio X-type Pump (290cc)

2030 psi (140 bar) Maximum Fluid Working Pressure

Part No. B178-X241, 24:1 Ratio X-type Pump (250cc)

2400 psi (165 bar) Maximum Fluid Working Pressure

Part No. B178-X281, 28:1 Ratio X-type Pump (220cc)

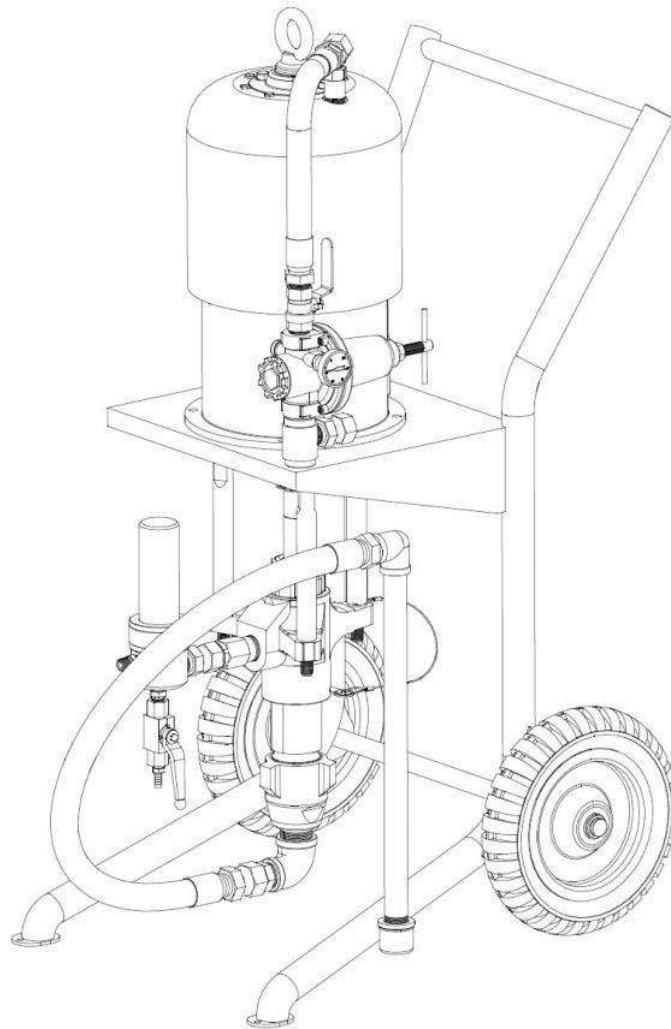
2800 psi (193 bar) Maximum Fluid Working Pressure

Part No. B178-X331, 33:1 Ratio X-type Pump (180cc)

3300 psi (228 bar) Maximum Fluid Working Pressure

Part No. B178-X401, 40:1 Ratio X-type Pump (145cc)

4060 psi (280 bar) Maximum Fluid Working Pressure



DSTech Co., LTD.

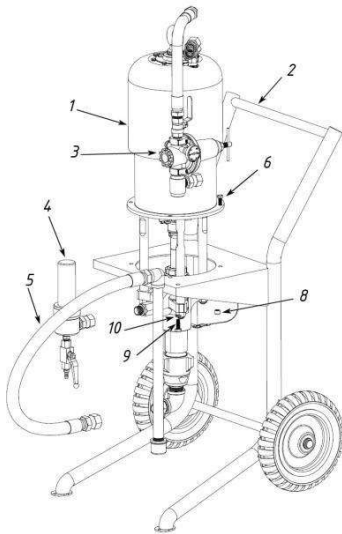
#1461-2, Songjung-dong, Gangseo-gu,
Busan, Korea (618-817)

Tel: 82-51-207-8006

Fax: 82-51-207-8831

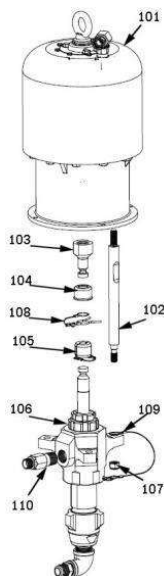
www.dstpump.com

Part Drawing



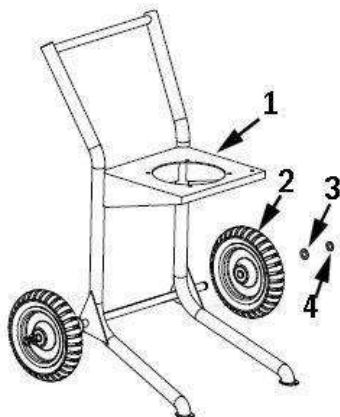
NO	D PART	DESCRIPTION	QTY
1	B178-Xxxx-1	BARE	1
2	K254-200	CART	1
3	K254-300	AIR REGULATOR KIT	1
4	S254-400	FLUID FILTER	1
5	K254-600	SUCTION HOSE ASS'Y	1
6	K254-111	BOLT	4
8	K254-113	NUT	4
9	K254-114	BOLT	1
10	K254-115	WASHER	1

B178-Xxxx-1 BARE



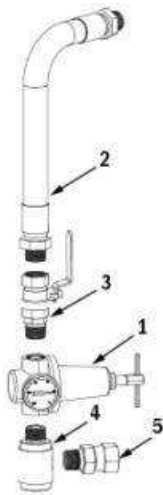
No	D Part No	Description	Qty
101	B178-100	AIR MOTOR	1
102	K254-101	ROD, Tie	3
103	K254-102	ADAPTER	1
104	K254-103	COVER	1
105	K254-104	COUPLING Assembly	1
106	Xxxx-100	PUMP Displacement	1
107	K254-105	NUT	3
108	K254-106	CLIP	1

K254-200 CART



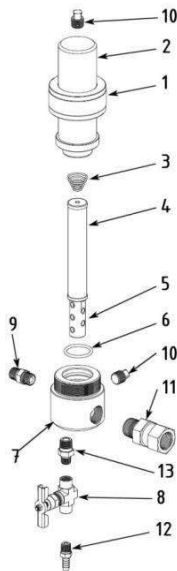
No	D Part No	Description	Qty
1	K254-201	CART	1
2	K254-202	TIRE	2
3	K254-203	WASHER	2
4	K254-204	SNAP RING	2

K254-300 AIR REGULATOR KIT



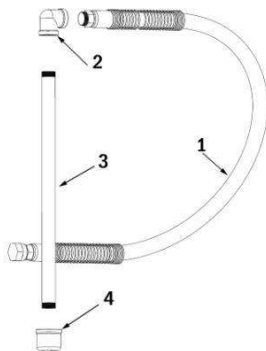
No	D Part No	Description	Qty
1	K254-301	AIR REGULATOR	1
2	K254-302	AIR HOSE	1
3	K254-303	SHUTOFF VALVE	1
4	K254-304	AIR MANIFOLD	1
5	K254-305	COUPLING	1

S254-400 FLUID FILTER



No	D Code	Description	Qty
1	S254-101	RING	1
2	S254-102	BOWL	1
3	S254-103	SPRING	1
4	S254-104	STRAINER #60	1
5	S254-105	SUPPORT	1
6	S254-106	PACKING ,O-ring	1
7	S254-107	MANIFOLD	1
8	S254-108	HAMMER V/V	1
9	S254-109	NPT 3/8”NIPPLE	1
10	S254-110	PT 1/4”-3/8 NIPPLE	2
11	S254-111	PT 3/4” UNION	1
12	S254-112	NPT 3/8” PLUG	1
13	S254-113	NIPPLE	1

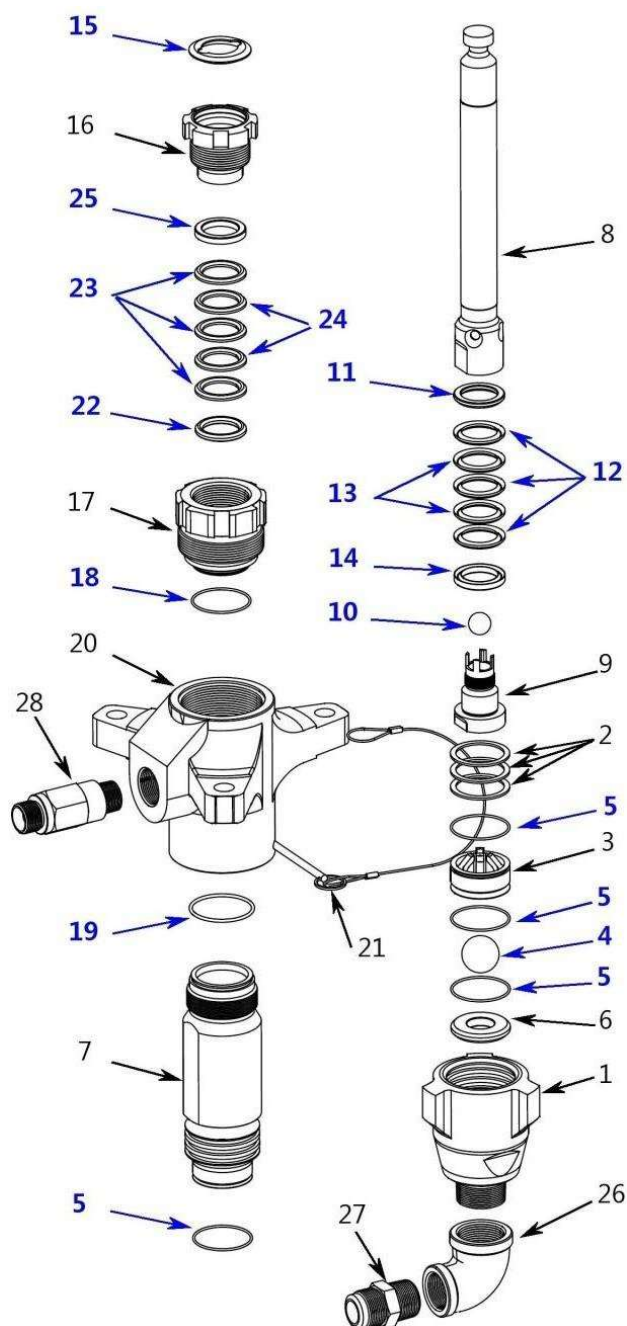
K254-600 SUCTION HOSE ASS'Y



No	D Code	Description	Qty
1	K254-601	SUCTION HOSE	1
2	K254-602	ELBOW	1
3	K254-603	SUCTION TUBE	1
4	K254-604	STRAINER	1

Parts drawing and Parts List

X201-100 PUMP (290cc)



Note : part marked in color are the spare part

No	D CODE	Description	Qty
1	X401-001	HOUSING , Inlet	1
2	X401-002	SHIM	3
3	X401-003	BALL GUIDE	1
4	X401-004	BALL (1 1/2")	1
5	X401-005	PACKING ,O-RING	4
6	X401-006	SEAT	1
7	X401-007	CYLINDER	1
8	X401-008	DISPLACEMENT ROD	1
9	X401-009	PISTON VALVE	1
10	X401-010	BALL (1")	1
11	X401-011	GLAND-M	1
12	X401-012	PACKING-V (UHMWPE)	3
13	X401-013	PCAKING-V(Leather)	2
14	X401-014	GLAND-F	1
15	X401-015	SEAL	1
16	X401-016	PACKING NUT	1
17	X401-017	CARTRIDGE	1
18	X401-018	PACKING, O-RING	1
19	X401-019	PACKING, O-RING	1
20	X401-020	HOUSING	1
21	X401-021	PIN	1
22	X401-022	GLAND-M	1
23	X401-023	PACKING-V (UHMWPE)	3
24	X401-024	PCAKING-V(Leather)	2
25	X401-025	GLAND-F	1
26	X401-026	TUBE	1
27	X401-027	NIPPLE	1
28	X401-028	JOINT NIPPLE	1

REPAIR KIT No : X201-500 (244-854)

With 4,5,10,11,12,13,14,15,18,19,22,23,24,25

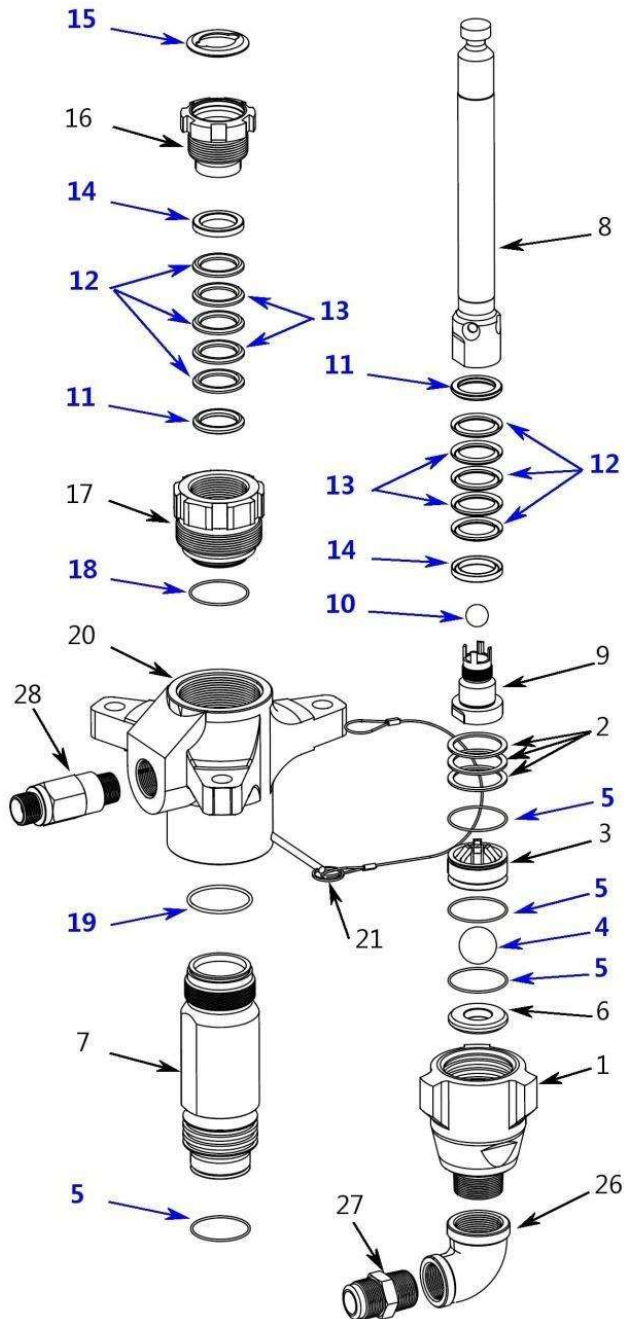
REPAIR KIT No : X201-501 (244-904)

With 4,5,10,11,13,14,15,18,19,22,24,25

No #13 LEATHER v-packing 5EA
#24 LEATHER v-packing 5EA

Parts drawing and Parts List

X241-100 PUMP(250cc)



Note : part marked in color are the spare part

No	D Part No	Description	Qty
1	X451-001	HOUSING , Inlet	1
2	X451-002	SHIM	3
3	X451-003	BALL GUIDE	1
4	X451-004	BALL(1 1/2")	1
5	X451-005	PACKING ,O-RING	1
6	X451-006	SEAT	1
7	X451-007	CYLINDER	1
8	X451-008	DISPLACEMENT ROD	1
9	X451-009	PISTON VALVE	1
10	X451-010	BALL(7/8")	1
11	X451-011	GLAND-M	1
12	X451-012	PACKING-V (UHMWPE)	1
13	X451-013	PCAKING-V(Leather)	1
14	X451-014	GLAND-F	1
15	X451-015	SEAL	1
16	X451-016	PACKING NUT	1
17	X451-017	CARTRIDGE	1
18	X451-018	PACKING, O-RING	1
19	X451-019	PACKING, O-RING	1
20	X451-020	HOUSING	1
21	X451-021	PIN	1
26	X451-026	TUBE	1
27	X451-027	NIPPLE	1
28	X451-028	JOINT NIPPLE	1

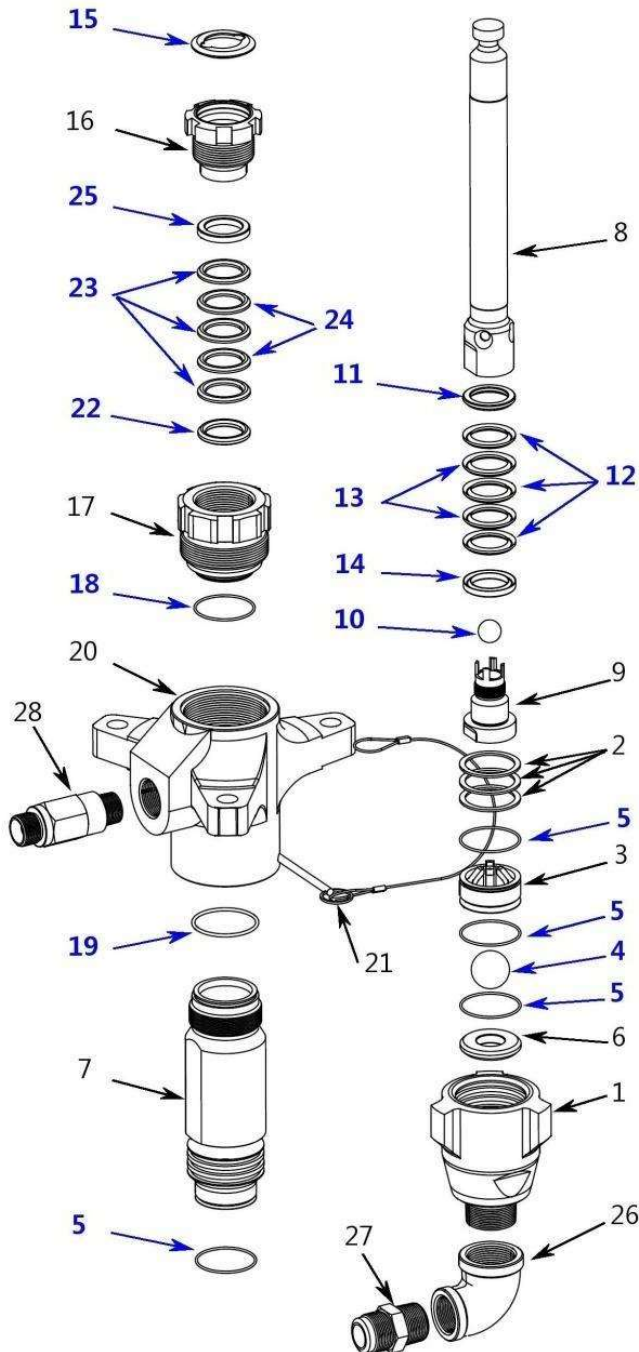
REPAIR KIT No : X241-500 (244-853)
With 4,5,10,11,12,13,14,15,18,19

REPAIR KIT No : X241-501 (244-903)
With 4,5,10,11,13,14,15,18,19
No #13 LEATHER v-packing 10EA

REPAIR KIT No : X241-502 (244-836)
With 4,5,10,11,12,13,14,15,18,19
No #12 UHMWPE v-packing 2EA
#13 LEATHWE v-packing 8EA

Parts drawing and Parts List

X281-100 PUMP(220cc)



Note : part marked in color are the spare part

No	D Part No	Description	Qty
1	X561-001	HOUSING , Inlet	1
2	X561-002	SHIM	3
3	X561-003	BALL GUIDE	1
4	X561-004	BALL(1 1/2")	1
5	X561-005	PACKING ,O-RING	4
6	X561-006	SEAT	1
7	X561-007	CYLINDER	1
8	X561-008	DISPLACEMENT ROD	1
9	X561-009	PISTON VALVE	1
10	X561-010	BALL	1
11	X561-011	GLAND-M	1
12	X561-012	PACKING-V (UHMWPE)	3
13	X561-013	PCAKING-V(Leather)	2
14	X561-014	GLAND-F	1
15	X561-015	SEAL	1
16	X561-016	PACKING NUT	1
17	X561-017	CARTRIDGE	1
18	X561-018	PACKING, O-RING	1
19	X561-019	PACKING, O-RING	1
20	X561-020	HOUSING	1
21	X561-021	PIN	1
22	X561-022	GLAND-M	1
23	X561-023	PACKING-V (UHMWPE)	3
24	X561-024	PCAKING-V(Leather)	2
25	X561-025	GLAND-F	1
26	X561-026	TUBE	1
27	X561-027	NIPPLE	1
28	K561-028	JOINT NIPPLE	1

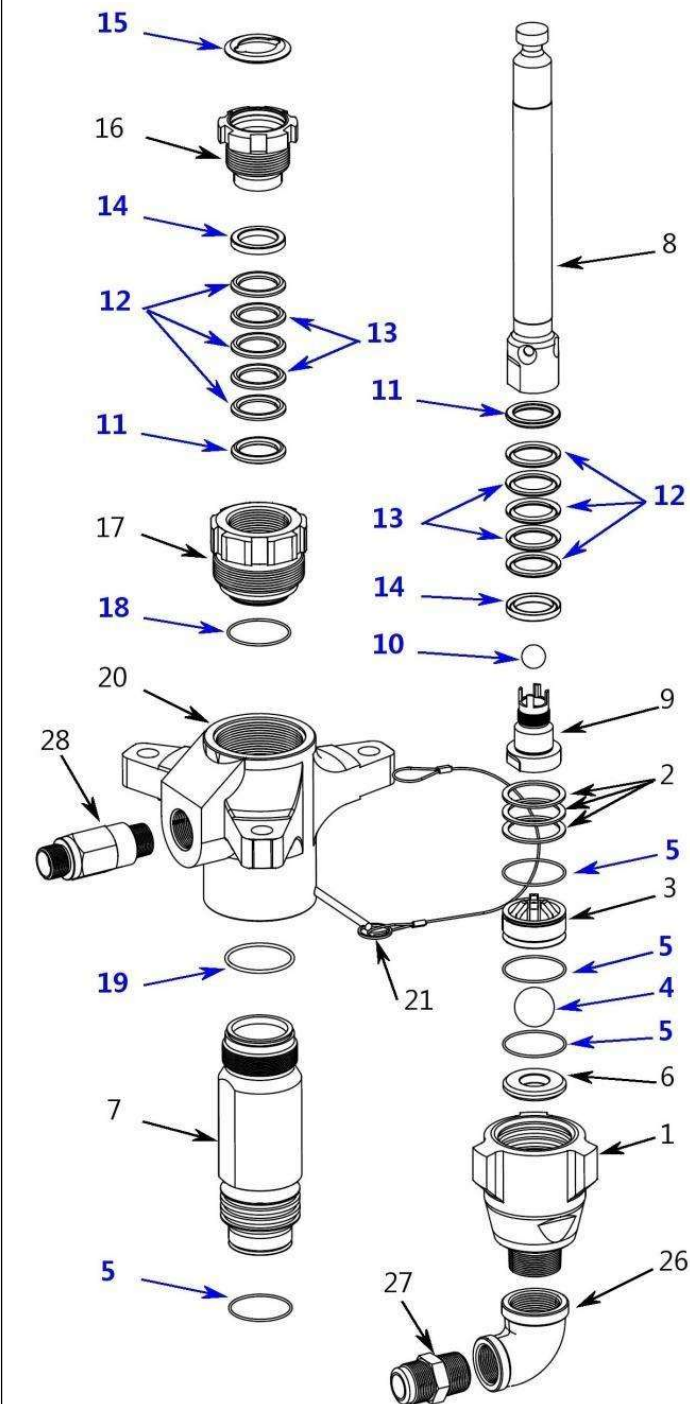
REPAIR KIT No : X281-500 (244-852)
With 4,5,10,11,12,13,14,15,18,19,22,23,24,25

REPAIR KIT No : X281-501 (244-902)
With 4,5,10,11,13,14,15,18,19,22,24,25
No #13 LEATHER v-packing 5EA
#24 LEATHER v-packing 5EA

REPAIR KIT No : X281-502 (246-835)
With 4,5,10,11,12,13,14,15,18,19,22,23,24,25
No #12 UHMWPE v-packing 1EA
#13 LEATHER v-packing 4EA
#23 UHMWPE v-packing 1EA
#24 LEATHER v-packing 4EA

Parts drawing and Parts List

X331-100 PUMP(180cc)



Note : part marked in color are the spare parts

No	D Code	Description	Qty
1	X681-001	HOUSING , Inlet	1
2	X681-002	SHIM	3
3	X681-003	BALL GUIDE	1
4	X681-004	BALL(1 1/4")	1
5	X681-005	PACKING ,O-RING	4
6	X681-006	SEAT	1
7	X681-007	CYLINDER	1
8	X681-008	DISPLACEMENT ROD	1
9	X681-009	PISTON VALVE	1
10	X681-010	BALL(3/4")	1
11	X681-011	GLAND-M	2
12	X681-012	PACKING-V(UHMWPE)	6
13	X681-013	PCAKING-V(Leather)	4
14	X681-014	GLAND-F	2
15	X681-015	SEAL	1
16	X681-016	PACKING NUT	1
17	X681-017	CARTRIDGE	1
18	X681-018	PACKING, O-RING	1
19	X681-019	PACKING, O-RING	1
20	X681-020	HOUSING	1
21	X681-021	PIN	1
26	X681-026	TUBE	1
27	X681-027	NIPPLE	1
28	X681-028	JOINT NIPPLE	1

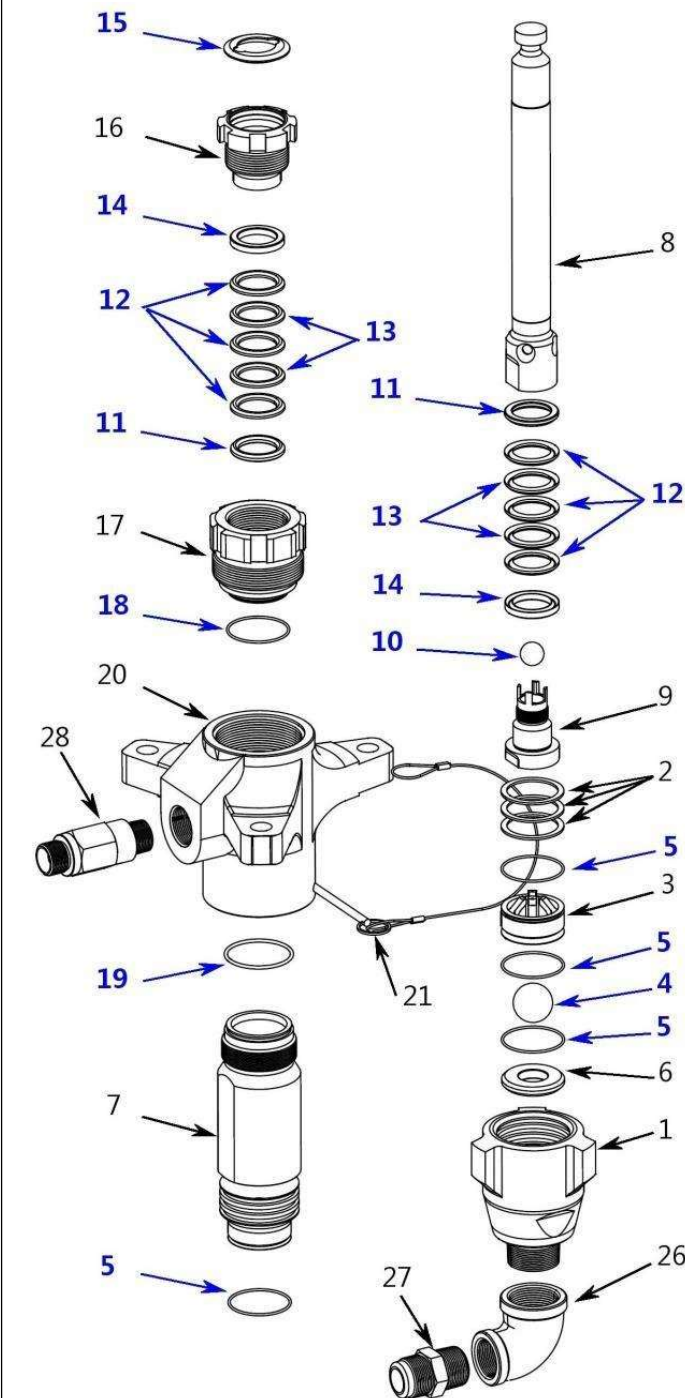
REPAIR KIT No: **X331-500 (244-851)**
With 4, 5, 10, 11, 12, 13, 14, 15, 18, 19

REPAIR KIT No: **X331-501 (244-901)**
With 4, 5, 10, 11, 13, 14, 15, 18, 19
No #13 LEATHER v-packing 10EA

REPAIR KIT No: **X331-502 (246-834)**
With 4, 5, 10, 11, 12, 13, 14, 15, 18, 19
No #12 UHMWPE v-packing 2EA
#13 LEATHER v-packing 8EA

Parts drawing and Parts List

X401-100 PUMP (145cc)



Note : part marked in color are the spare parts

No	D Code	Description	Qty
1	X831-001	HOUSING , Inlet	1
2	X831-002	SHIM	3
3	X831-003	BALL GUIDE	1
4	X831-004	BALL(1 1/4")	1
5	X831-005	PACKING ,O-RING	4
6	X831-006	SEAT	1
7	X831-007	CYLINDER	1
8	X831-008	DISPLACEMENT ROD	1
9	X831-009	PISTON VALVE	1
10	X831-010	BALL(3/4")	1
11	X831-011	GLAND-M	2
12	X831-012	PACKING-V(UHMWPE)	6
13	X831-013	PCAKING-V(Leather)	4
14	X831-014	GLAND-F	2
15	X831-015	SEAL	1
16	X831-016	PACKING NUT	1
17	X831-017	CARTRIDGE	1
18	X831-018	PACKING ,O-RING	1
19	X831-019	PACKING ,O-RING	1
20	X831-020	HOUSING	1
21	X831-021	PIN	1
26	X831-026	TUBE	1
27	X831-027	NIPPLE	1
28	X831-028	JOINT NIPPLE	1

REPAIR KIT No: X401-500 (244-850)
With 4, 5, 10, 11, 12, 13, 14, 15, 18, 19

REPAIR KIT No: X401-501 (244-900)
With 4, 5, 10, 11, 12, 14, 15, 18, 19
No #12 UHMWPE v-packing 10EA

REPAIR KIT No: X401-502 (246-833)
With 4, 5, 10, 11, 12, 13, 14, 15, 18, 19
No #12 UHMWPE v-packing 2EA
#13 LEATHER v-packing 8EA