
GARDNER DENVER®

3-3-515
1st Edition
July, 1994

DUPLEX STEAM PUMP

10" STROKE

MODEL

DFS__B

PARTS LIST

Gardner

Denver

MAINTAIN PUMP RELIABILITY AND PERFORMANCE WITH GENUINE GARDNER DENVER PARTS AND SUPPORT SERVICES

Gardner Denver[®], AJAX[®], and OPI[®] genuine pump parts are manufactured to original tolerances and designed for optimum dependability. Design and material innovations are the result of years of experience with hundreds of different pump applications. Reliability in materials and quality assurance are incorporated in our genuine replacement parts.

Your authorized Gardner Denver, AJAX and OPI distributor offers all the backup you'll need. A worldwide network of authorized distributors provides the finest product support in the pump industry.

Your local authorized distributor maintains a large inventory of genuine parts and he is backed up for emergency parts by direct access to the Gardner Denver Machinery Inc. Master Distribution Center (MDC) in Memphis, Tennessee.

Your authorized distributor can support your Gardner Denver, AJAX and OPI pump needs with these services:

1. Trained parts specialists to assist you in selecting the correct replacement parts.
2. A full line of factory tested pump lubricants specifically formulated for use in Gardner Denver, AJAX and OPI pumps.
3. Repair and maintenance kits designed with the necessary parts to simplify servicing your pump.

Authorized distributor service technicians are factory-trained and skilled in pump maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

For the location of your local authorized Gardner Denver, AJAX and OPI distributor refer to the yellow pages of your phone directory or contact:

Distribution Center:
Gardner Denver Machinery Inc.
Master Distribution Center
5585 East Shelby Drive
Memphis, TN 38141
Phone: (901) 542-6100
Fax: (901) 542-6159

Factory:
Gardner Denver Machinery Inc.
1800 Gardner Expressway
Quincy, IL 62301
Phone: (217) 222-5400
Fax: (217) 223-5897

INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Pump MODEL and SERIAL NUMBER (see nameplate on unit). The Serial Number is also stamped on top of the cylinder end of the frame (cradle area).

All orders for Parts should be placed with the nearest authorized distributor.

Where NOT specified, quantity of parts required per pump or unit is one (1); where more than one is required

per unit, quantity is indicated in parenthesis. **SPECIFY EXACTLY THE NUMBER OF PARTS REQUIRED.**

DO NOT ORDER BY SETS OR GROUPS.

To determine the Right Hand and Left Hand side of a pump, stand at the power end. Right Hand and Left Hand are indicated in parenthesis following the part name, i.e. (RH) & (LH).

TABLE OF CONTENTS

	Page
Ordering Instructions	1
Model Matrix/Menu	3
Steam Cylinder	4, 5
Rocker Stand and Levers	6
Fluid Cylinder	7
Fluid Stuffing Box	8
Piston Rod and Nuts	8
Cylinder Liners	9
Fluid Liner, Packing, Clamp and Set Screw	9
Follower–Type Fluid Pistons for Water and General Service	10
Cup–Type Pistons – Iron and Steel for Oil and General Service, Bronze for Water Service	11
Steel Insert–Type Piston – Standard for Slush, Grout and Cement Service	12
Iron Solid–Type Piston with Cast Iron Rings – Standard for Oil Service	13
Wing Guided Valve, Hardened Steel, with Nitrile Insert, Slush Service	14
Wing Guided Valve, Hardened Steel, without Insert, Oil Service	15
Wing Guided Gravel Valve, Hardened Steel, with Rubber Insert for Slush, Grout & Cement Service	16
Lower Guided Valve, Hardened Steel, with Nitrile Insert, Slush Service	17
Lower Guided Valve, Hardened Steel, without Insert, Oil Service	17
Wing Guided Valve, Iron Seat, without Insert, for Water, Boiler Feed & General Service	18
Ball Valve – for General Service	19
Durabla Valve – Stainless Steel – for General Service	19
Ball Guided Spherical Valve – Oil, Water or General Service	20
Wing Guided Valve Seat Puller	21
Lower Guided Valve Seat Puller	21
Gravel Type Valve Seat Puller	22
Liner Puller	23
Air Chamber	24

For Operating and Service Instructions see:

SERVICE MANUAL 3–3–600

DUPLEX STEAM PUMP – MODEL DFS – 10" STROKE **WITH 10" STEAM PISTON – 5" MASTER SIZE CYLINDER** **MATRIX/MENU**

NOTICE TO CUSTOMER – To find the construction options for your PUMP unit, FILL IN THE BALANCE OF LETTERS OR NUMBERS FROM YOUR UNIT NAMEPLATE.

COLUMN NUMBER:

D	F	S	B							
1	2	3	4	5	6	7	8	9	10	11

Follow the line down and over from each space thus filled in to find the appropriate construction option with which your machine is equipped. The number "9" in any column space indicates "NOT APPLICABLE." The number "8" in any column space indicates SPECIAL DESIGN – REFER TO FACTORY ORDER TICKET.

COLUMNS 1, 2 & 3 – BASIC FAMILY

COLUMN 4 – TYPE SERVICE – 5" MASTER CYLINDER SIZE

- B. Slush Service – Cast Iron
- E. Grout and Cement – Cast Iron
- H. Oil Service – Cast Iron
- L. Water Service – Cast Iron
- P. Boiler Feed Service – Cast Iron
- S. General Service – Cast Iron

COLUMN 5 – SIZE SELECTIVE

- | | |
|-----------|-----------|
| G. 5" | K. 3-1/2" |
| H. 4-1/2" | L. 3" |
| J. 4" | M. 2-1/2" |

COLUMN 6 – DESIGN VERSION

COLUMN 7 – LINER MATERIAL SELECTIVE

- A. Bronze – Standard for Water or Boiler Feed Service
- B. Hardened Steel – Std. for Grout and Cement, Oil and General Service
- C. Stainless Steel – Optional

COLUMN 8 – PISTON TYPE SELECTIVE

- A. Bronze – Follower Type – Regular Cure Packing – Standard for Water Service
- B. Bronze – Follower Type – Rock Hard Packing – Standard for Boiler Feed Service
- C. Iron – Follower Type – Regular Cure Packing – Standard for General Service
- E. Iron – Solid Type – Cast Iron Rings – Standard for Oil Service
- F. Steel – Insert Type – Standard for Slush or Grout and Cement Service
- G. Bronze – Cup Type
- H. Iron – Cup Type
- J. Steel – Cup Type

COLUMN 9 – PISTON ROD MATERIAL & PACKING SELECTIVE

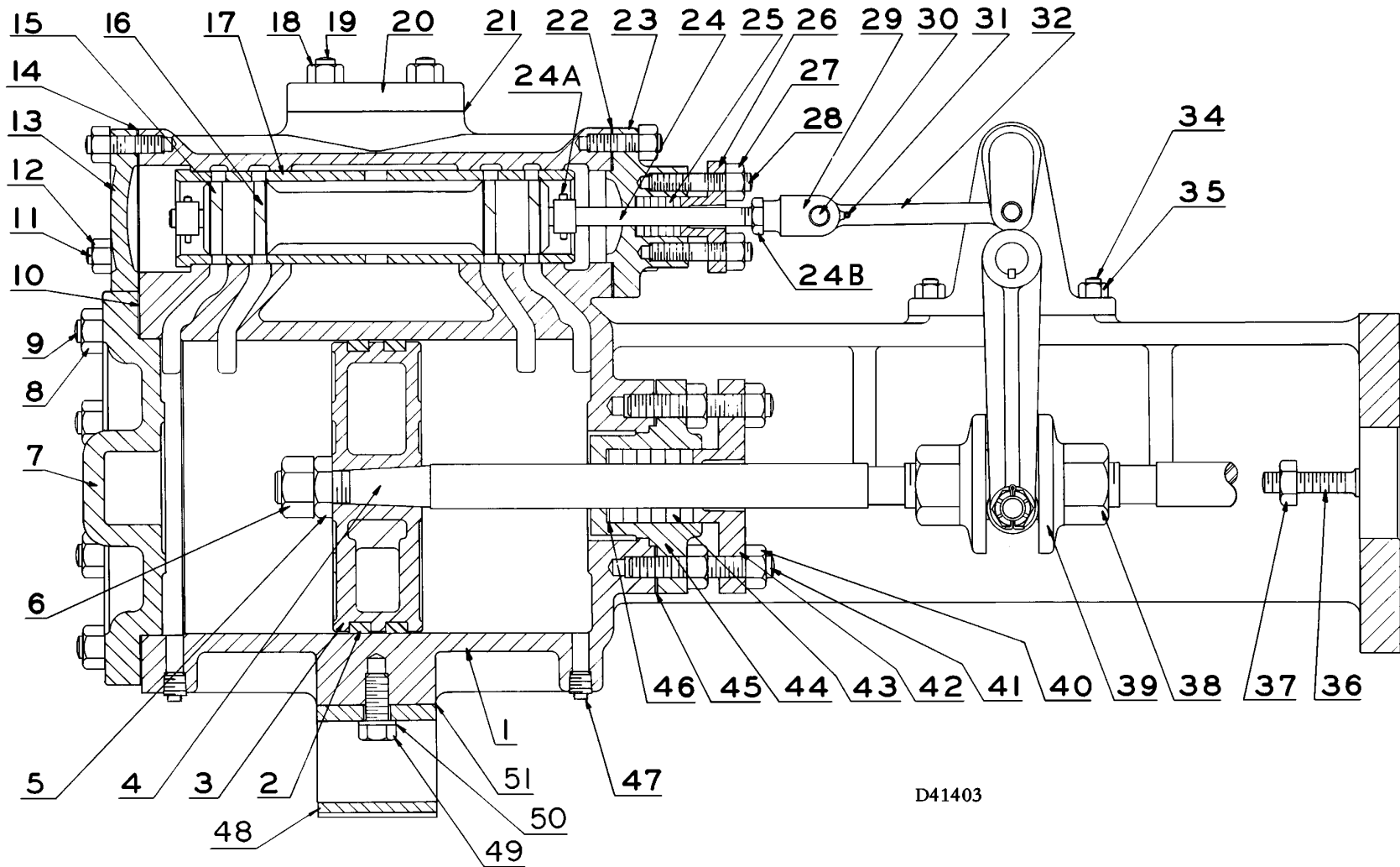
- A. Bronze Rod and Braided Synthetic Fiber Packing – Standard for Water or Boiler Feed Service
- B. Hardened Steel Rod and Braided Synthetic Fiber Packing – Standard for Oil & General Service
- C. Hardened Steel Rod – Molded Convex Packing – Standard for Slush or Grout & Cement Service
- D. Stainless Steel Rod and Braided Synthetic Fiber Packing – Optional
- E. Stainless Steel Rod and Molded Convex Packing – Optional

COLUMN 10 – FLUID VALVE SELECTIVE

- A. Bronze – Wing Guide – No Insert – Water and Boiler Feed Service
- B. Bronze – Wing Guide – Rubber Insert – Water and Boiler Feed Service
- C. Iron – Wing Guide – No Insert – Oil, Water, Boiler Feed and General Service
- D. Steel – Wing Guide – No Insert – Oil or General Service
- E. Steel – Wing Guide – Rubber Insert – Slush or Grout and Cement Service
- F. Steel – (Gravel) Wing Guide – Insert – Slush or Grout and Cement Service
- G. Steel – Center Guide – No Insert – Oil or General Service
- H. Steel – Center Guide – Rubber Insert – Slush Service
- J. Steel – Center Guide – Urethane Insert – Slush Service
- K. Stainless Steel – Durabla (Optional)
- L. Bronze – Delrin Ball – Optional
- M. Steel – Delrin Ball – Optional
- N. Stainless Steel – Delrin Ball – Optional

COLUMN 11 – OPTIONAL EQUIPMENT

STEAM CYLINDER



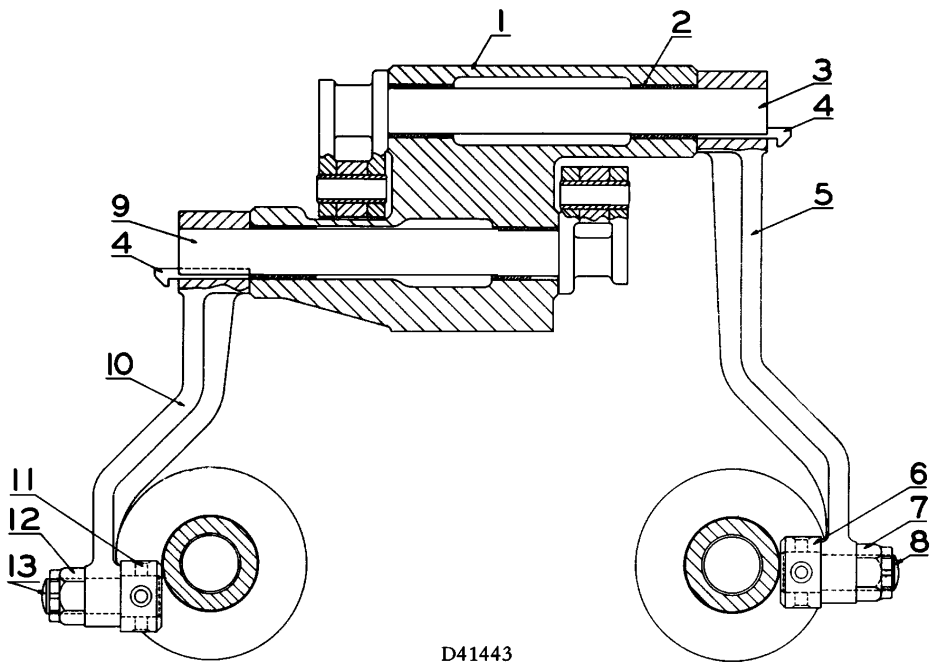
D41403

For List of Parts See Page 5.

Order by Part Number and Description. Reference Numbers for your convenience only.

Ref. No.	Name of Part	Qty. Req.	All Models DFS	Ref. No.	Name of Part	Qty. Req.	All Models DFS
Steam Cylinder				Steam Cylinder			
			Part No.				Part No.
1	ASM STEAM CYLINDER, Includes Ref. No. 8, 9, 11, 12, 17, 18, 19, 34, 35, 36, 37, 40, 41, 48, 50 & 51	1	2005576	26	GLAND, Valve Rod Stuffing Box	2	BB22
2	RING-PISTON, Steam	4	65A142	27	NUT, Valve Rod Stuffing Box	4	50W5
3	PISTON-STEAM	2	1FS3	28	STUD, Valve Rod Stuffing Box	4	79A235
4	ASM PISTON ROD, Steam, Includes Ref. No. 5 & 6	2	FJ391	29	FORK, Valve Rod	2	FJ28
5	NUT-THIN, Piston Rod (Piston End) . .	2	50T18	30	PIN, Link & Fork	4	62F26
6	NUT-FULL, Piston Rod (Piston End) . .	2	50T19	31	COTTER, Link & Fork Pin	4	62E36
7	HEAD-CYLINDER, Steam	2	FS2	32	LINK, Valve Rod	2	AJ27
8	NUT, Steam Cylinder Head	16	50B8	34	STUD, Rocker Stand	4	79A6
9	STUD, Steam Cylinder Head	16	79A172	35	NUT, Rocker Stand	4	50B5
10	GASKET, Steam Cylinder Head	2	25C934	36	STUD, Fluid End Stuffing Box	4	AUX293
11	STUD, Steam Chest Cover	12	79A67	37	NUT, Fluid End Stuffing Box	4	50B8
12	NUT, Steam Chest Cover	12	50B7	38	NUT, Piston Rod (Crosshead)	4	50T137
13	COVER-STEAM CHEST	2	FJ6	39	CROSSHEAD	2	FJ61
14	GASKET, Steam Chest Cover	2	25C931	40	NUT, Steam End Stuffing Box	8	50B8
15	RING, Steam Piston Valve	8	65A57	41	STUD, Steam End Stuffing Box	4	79A262
16	VALVE-STEAM	2	FJ330	42	GLAND, Stuffing Box	2	FD21
17	LINER-VALVE	2	FJ331	0	BUSHING-GLAND	2	1FD152
18	NUT, Steam Inlet Flange	8	50B7	43	PACKING, Steam Piston Rod	2	60BG13
19	STUD, Steam Inlet Flange	8	79A67	44	BOX-STUFFING, Piston	2	1FJ14
20	FLANGE, Steam Inlet	1	2005609	45	GASKET, Stuffing Box	2	25C929N
21	GASKET, Steam Inlet Flange	1	25BC354	46	RING-JUNK, Stuffing Box	2	BC317
22	GASKET, Valve Rod Stuffing Box	2	25C931	47	PLUG-SqHd PIPE, Cylinder Drain	4	64AA4
23	ASM STUFFING BOX, Valve Rod, Includes Ref. No. 27 & 28	2	FJ470	0	PLUG-SqHd PIPE, Lubricator Opening	3	64AA5
24	ASM CONTROL ROD, Steam Valve , Includes Ref. No. 24A & 24B	2	FJ969	48	FOOT	1	200DES166
24A	PIN-LOCK, Steam Valve Control Rod .	4	FJ838	49	SCREW-HEX CAP	2	655EG070
24B	NUT-HEX JAM	1	50F7	50	WASHER-LOCK	2	95B8
25	PACKING, Steam Valve Control Rod . .	2	60BG36	51	SHIM (1/64)	2	77E6
				51	SHIM (1/32)	2	77E7
				51	SHIM (1/16)	2	77E8
				51	SHIM (1/8)	2	77E9
				52	PLATE-NAME (Not Shown)	1	200DFS454
				53	PLATE-DATA (Not Shown)	1	200OPA454
				54	SCREW-DRIVE (Not Shown)	8	75LM199

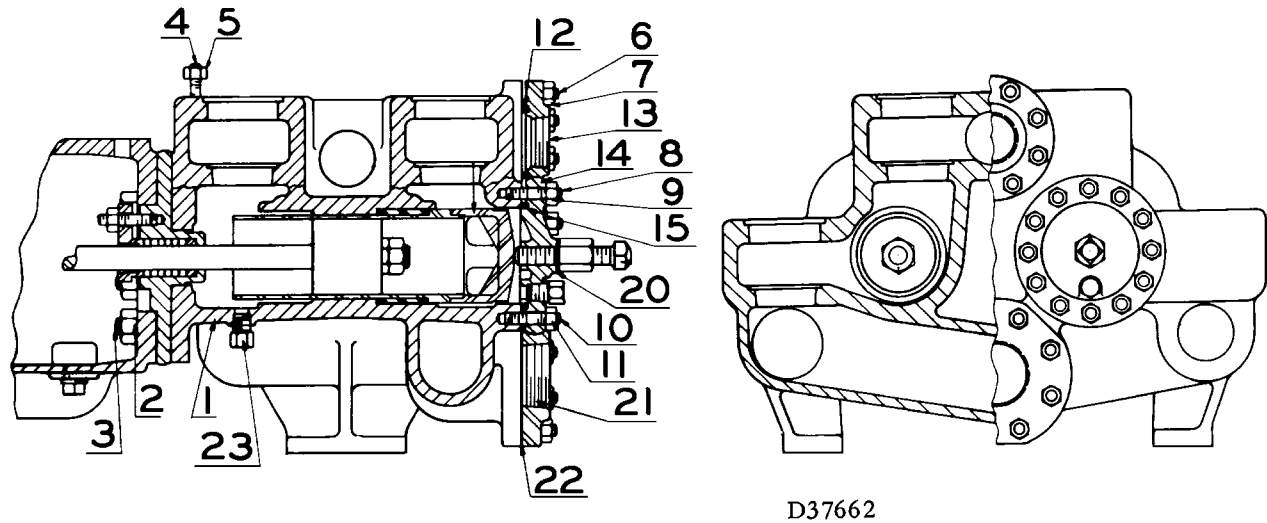
Order By Part Number and Description. Reference Numbers For Your Convenience Only.



ROCKER STAND & LEVERS

Ref. No.	Name of Part	Qty. Per Pump	All Models DFS
			Part No.
1	ASM ROCKER STAND, Includes Reference No. 2 & 14	1	FJ16
2	BEARING-SLEEVE	4	12K22
3	CRANK (Upper) with Rocker Shaft	1	FJ8
4	KEY-GIB HEAD	2	35H18
5	ASM LONG LEVER, Includes Reference No. 6, 7 & 8	1	FJ10
6	ROLLER	1	BE157
7	NUT	1	50C10
8	PIN-ROLLER	1	BE158
9	CRANK (Lower) with Rocker Shaft	1	FJ9
10	ASM SHORT LEVER, Includes Reference No. 11, 12 & 13	1	FJ11
11	ROLLER	1	BE157
12	NUT	1	50C10
13	PIN-ROLLER	1	BE158
14	FITTING-LUBE (Not Shown)	2	40E5

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

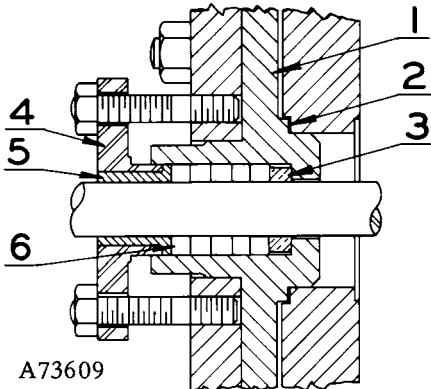


FLUID CYLINDER

Ref. No.	Name of Part	Qty. Per Pump	DFSB	
			DFSH, DFSL DFSP, DFSS	DFSE
			Part No.	Part No.
1	ASM CYLINDER-FLUID, Incl. Ref. No. 2 thru 11	1	2FD388	6FD388
2	NUT, Connecting Stud	8	50B10	50B10
3	STUD, Connecting	8	79L92	79L92
4	STUD, Valve Cover	16	79A559	79A559
5	NUT, Valve Cover Stud	16	50B13	50B13
6	STUD, Discharge Flange	8	79A183	79A183
7	NUT, Discharge Flange Stud	8	50B8	50B8
8	STUD, Cylinder Head	24	79A183	79A183
9	NUT, Cylinder Head Stud	24	50B8	50B8
10	STUD, Suction Flange	8	79A183	79A183
11	NUT, Suction Flange Stud	8	50B8	50B8
12	GASKET, Discharge Flange	1	25G4	25G4
13	FLANGE-DISCHARGE	1	64DA5	64DA5
14	HEAD-CYLINDER	2	5FD41	5FD41
15	GASKET, Cylinder Head	2	25G12	25G12
20	PACKING, Liner Clamp Screw	2	60BQ6	60BQ6
21	FLANGE-SUCTION	1	FD77	FD77
22	GASKET, Suction Flange	1	25C320N	25C320N
23	PLUG-SqHd PIPE	3	64AU5	64AU5
*	PLUG-SqHd PIPE, Suction Passage	4	None	64A9

* Not shown on illustration.

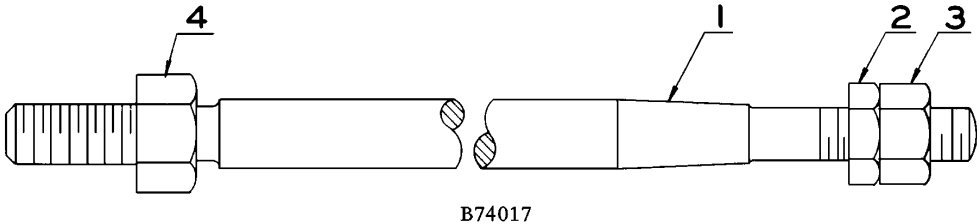
Order By Part Number and Description. Reference Numbers For Your Convenience Only.



FLUID STUFFING BOX

Ref. No.	Name of Part	Qty. Per Pump	All Models DFS
			Part No.
1	BOX-STUFFING (RH)*	1	200FDD014
2	GASKET, Stuffing Box	2	25C1737
3	RING-JUNK	2	BC317
4	GLAND	2	FD21
5	BUSHING-GLAND	2	1FD152
6	PACKING, Braided (Oil & Water Service) 250 PSI Max.	2	60BG13
6	PACKING, Oil Resistant Molded Convex (Standard Slush Service)	2	60BH2
6	PACKING, Molded Nitrile & Duck (General, Slush, Oil & Water Service) 250° Max.	2	60DA415

* For definition of Right Hand and Left Hand side of pump see ordering instructions on page 1.



PISTON ROD & NUTS** (API NO. 3 TAPER)

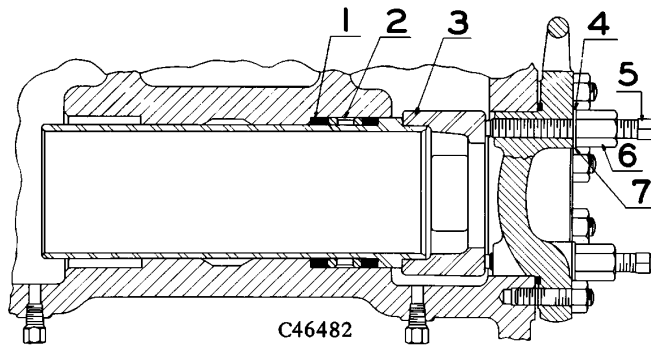
Ref. No.	Name of Part	Qty. Per Pump	All DFS Models		
			Bronze	Stainless Steel	Hardened Steel
			Part No.	Part No.	Part No.
1	PISTON ROD, Incl. Ref. No. 2 & 3	2	11FC24	8FC24	15FC24
2	NUT (Thin)	2	50T235	NONE	50T156
3	NUT (Full)	2	50T236	50V7	50T157
4	NUT, Crosshead	2	50T137	50T137	50T137

** Selective for Column 9.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

CYLINDER LINERS

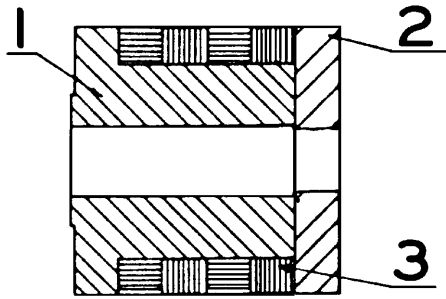
Name of Part		Qty. Per Pump	All Models DFS
			Part No.
5"	LINER, Slush Proof	2	FD45650
4-1/2"	LINER, Slush Proof	2	FD45645
4"	LINER, Slush Proof	2	FD45640
3-1/2"	LINER, Slush Proof	2	FD45635
3"	LINER, Slush Proof	2	FD45630
2-1/2"	LINER, Slush Proof	2	FD45625
5"	LINER, Bronze	2	FD64
4-1/2"	LINER, Bronze	2	3FD64
4"	LINER, Bronze	2	6FD64
3-1/2"	LINER, Bronze	2	9FD64
3"	LINER, Bronze	2	12FD64
2-1/2"	LINER, Bronze	2	15FD64
5"	LINER, Stainless Steel	2	16FD64
4-1/2"	LINER, Stainless Steel	2	20FD64
4"	LINER, Stainless Steel	2	22FD64
3-1/2"	LINER, Stainless Steel	2	24FD64
3"	LINER, Stainless Steel	2	26FD64
2-1/2"	LINER, Stainless Steel	2	28FD64



FLUID LINER, PACKING, CLAMP & SET SCREW

Ref. No.	Name of Part	Qty. Per Pump	All Models DFS
			Part No.
1	SLEEVE-LINER	4	4EF519
2	SPACER, Liner	2	FC957
3	CLAMP-LINER	2	FD217
4	WASHER, Set Screw	2	95F12
5	SET SCREW, Liner	2	76W3
6	NUT, Set Screw	2	50B12
7	PACKING, Set Screw	2	60BQ6

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

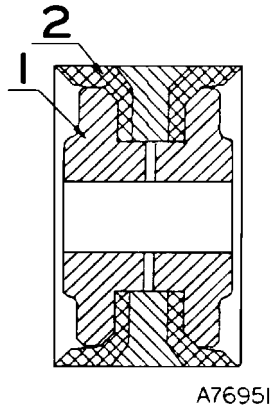


FOLLOWER TYPE FLUID PISTONS*
FOR WATER AND GENERAL SERVICE (API NO. 3 TAPER)

Ref. No.	Name of Part	Qty. Per Pump	Models DFSL, DFSP, DFSS		
			5"	4-1/2"	4"
			Part No.	Part No.	Part No.
1	BODY-PISTON (Iron)	2	35F045	37F045	FD45
2	FOLLOWER-PISTON (Iron)	2	7F046	16F046	FD46
1	BODY-PISTON (Bronze)	2	36F045	38F045	4FD45
2	FOLLOWER-PISTON (Bronze)	2	13F046	22F046	4FD46
3	PACKING, Regular Cure	See ()	60D6(12)	60D22(12)	60D17(14)
3	PACKING, Rock Hard	See ()	60Y6(12)	60Y22(12)	60Y17(14)
			3-1/2"	3"	2-1/2"
			Part No.	Part No.	Part No.
1	BODY-PISTON (Iron)	2	1FD45	2FD45	3FD45
2	FOLLOWER-PISTON (Iron)	2	1FD46	2FD46	3FD46
1	BODY-PISTON (Bronze)	2	5FD45	6FD45	7FD45
2	FOLLOWER-PISTON (Bronze)	2	5FD46	6FD46	7FD46
3	PACKING, Regular Cure	See ()	60D25(14)	60D11(12)	60D13(10)
3	PACKING, Rock Hard	See ()	60Y25(14)	60Y11(12)	60Y13(10)

* Selective for Column 8.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

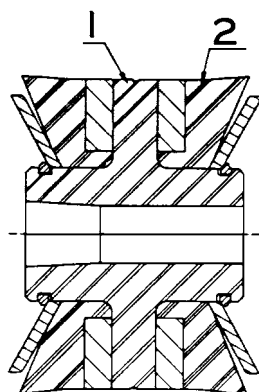


CUP-TYPE PISTONS*
IRON & STEEL FOR OIL AND GENERAL SERVICE
BRONZE FOR WATER SERVICE
API NO. 3 TAPER (OPTIONAL)

Ref. No.	Name of Part	Qty. Per Pump	Models DFSH, DFSL, DFSP, DFSS		
			5"	4-1/2"	4"
			Part No.	Part No.	Part No.
1	PISTON (IRON) Incl. Ref. No. 2	2	P3APIL500	P3APIL450	P3APIL400
1	PISTON (STL) Incl. Ref. No. 2	2	P3APIL500S	P3APIL450S	P3APIL400S
1	PISTON (BRNZ) Incl. Ref. No. 2	2	P3APIL500B	P3APIL450B	P3APIL400B
2	CUP	4	60BB15	60BB13	60BB11
			3-1/2"	3"	2-1/2"
			Part No.	Part No.	Part No.
1	PISTON (IRON) Incl. Ref. No. 2	2	P3APIL350	P3APIL300	P3APIL250
1	PISTON (STL) Incl. Ref. No. 2	2	P3APIL350S	P3APIL300S	P3APIL250S
1	PISTON (BRNZ) Incl. Ref. No. 2	2	P3APIL350B	P3APIL300B	P3APIL250B
2	CUP	4	60BB9	60BB7	60BB33

* Selective for Column 8.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

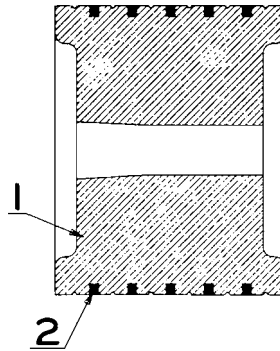


STEEL INSERT-TYPE PISTON*
STANDARD FOR SLUSH, GROUT & CEMENT SERVICE
(API NO. 3 TAPER)

Ref. No.	Name of Part	Qty. Per Pump	Models DFSB & DFSE		
			5"	4-1/2"	4"
			Part No.	Part No.	Part No.
1	ASM. PISTON, Incl. Ref. No. 2	2	202TBB045A	200TBB045A	221TBK045A
2	INSERT GROUP, Incl. Retainer Plates and Rings	2	TBB76011	TBB76009	TBK90423
			3-1/2"	3"	
			Part No.	Part No.	
1	ASM. PISTON, Incl. Ref. No. 2	2	220TBK045A	221TBA045A	
2	INSERT GROUP, Incl. Retainer Plates and Rings	2	TBK90422	TBA75994	

* Selective for Column 8.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.



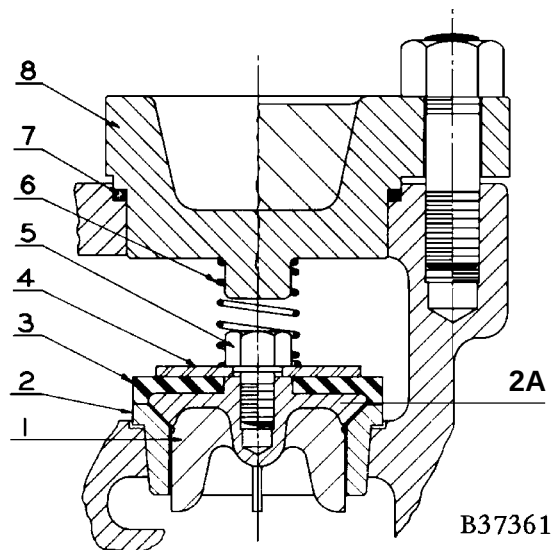
IRON SOLID-TYPE PISTON W/CAST IRON RINGS*
STANDARD FOR OIL SERVICE
(API NO. 3 TAPER)

Ref. No.	Name of Part	Qty. Per Pump	5"	Model DFSH 4-1/2"	4"
			Part No.	Part No.	Part No.
1	Piston	2	9FY350	FX0350	FD350
2	Ring-Piston	See ()	65A3(10)	65A47(8)	65A33(8)

Ref. No.	Name of Part	Qty. Per Pump	3-1/2"	Model DFSH 3"	2-1/2"
			Part No.	Part No.	Part No.
1	Piston	2	1FD350	2FD350	3FD350
2	Ring-Piston	See ()	65A9(8)	64A14(8)	65A44(8)

* Selective for Column 8.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

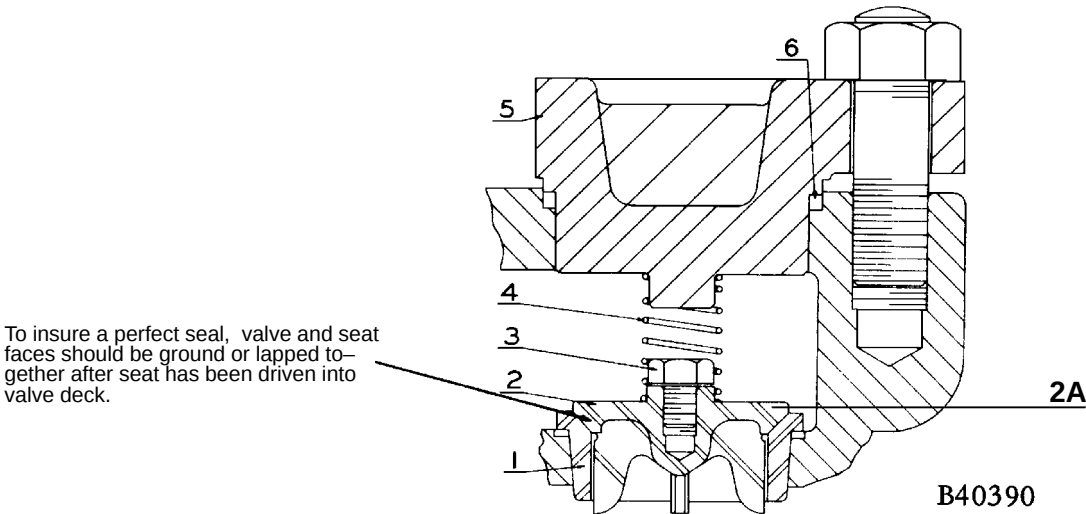


WING GUIDED VALVE
HARDENED STEEL, SLUSH SERVICE
WITH NITRILE INSERT

Ref. No.	Name of Part	Qty. Per Pump	Models DFSB DFSE
			Part No.
	VALVE GROUP (For Reference Only – Do Not Order)		FD53281
1	ASM FLUID VALVE, Includes Reference No. 2A, 3, 4 & 5	8	1FG928
2	SEAT-VALVE	8	11FG39
2A	VALVE-FLUID	8	17FG206
3	INSERT	8	1FG452*
4	WASHER	8	95D49
5	SCREW	8	5FF156
6	SPRING	8	78A171
7	GASKET, Valve Cover	8	25G18
8	COVER-VALVE	8	FD147

* Also available as 7FG452 Urethane Insert

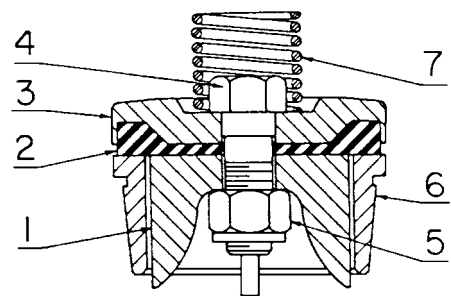
Order By Part Number and Description. Reference Numbers For Your Convenience Only.



WING GUIDED VALVE
HARDENED STEEL, OIL SERVICE
WITHOUT INSERT

Ref. No.	Name of Part	Qty. Per Pump	Models DFSH DFSS
			Part No.
	VALVE GROUP (For Reference Only – Do Not Order)		FD55212
1	SEAT–VALVE	8	11FG39
2	ASM FLUID VALVE, Includes Reference No. 2A & 3	8	17FG206A
2A	VALVE–FLUID	8	17FG206
3	SCREW	8	5FF156
4	SPRING	8	78A134
5	COVER–VALVE	8	FD147
6	GASKET, Valve Cover	8	25U18

Order By Part Number and Description. Reference Numbers For Your Convenience Only.



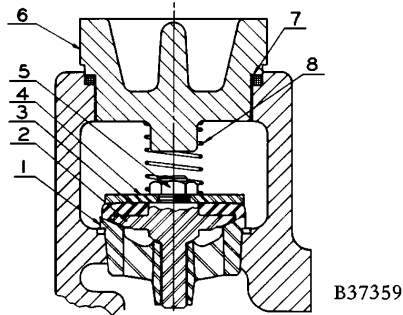
B75688

**HARDENED STEEL
WING GUIDED GRAVEL VALVE WITH RUBBER INSERT
SLUSH, GROUT & CEMENT SERVICE**

Ref. No.	Name of Part	Qty. Per Pump	Models DFSB DFSE
			Part No.
	ASM VALVE – Less Seat, Includes Reference No. 1 Thru 5	8	200FGG482A
1	VALVE	8	200FGG482
2	INSERT	8	200FGG106
3	WASHER	8	200FGG279
4	BOLT	8	200FGG655
5	NUT	8	50AF8
6	SEAT	8	200FGG039
7	SPRING (Steel)	8	78A171
7	SPRING (Bronze)	8	78D22
*	COVER-VALVE	8	FD147
*	GASKET, Valve Cover	8	25G18

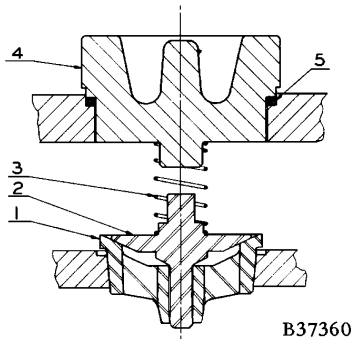
* Not shown on illustration.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.



**LOWER GUIDED VALVE
HARDENED STEEL, SLUSH SERVICE – WITH NITRILE INSERT**

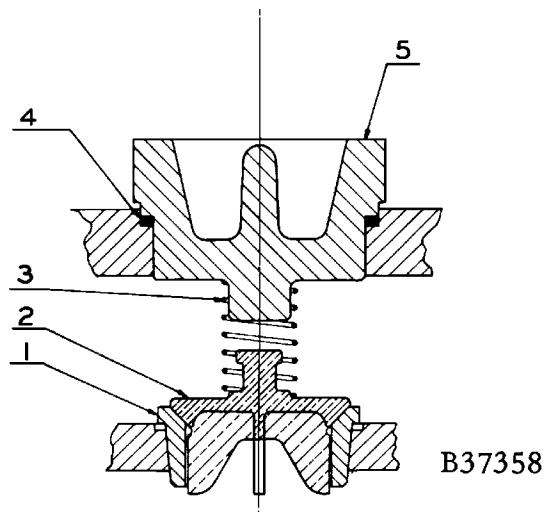
Ref. No.	Name of Part	Qty. Per Pump	Model DFSB
			Part No.
	VALVE GROUP (For Reference Only – Do Not Order)		FD52651
1	SEAT-VALVE	8	1FG451
	ASM FLUID VALVE, Includes Reference No. 2, 3, 4 & 5	8	1FG908
2	VALVE-FLUID	8	3FG482
3	SPRING	8	5FG452
4	WASHER	8	1FG279
5	NUT	8	50G8
6	COVER-VALVE	8	FD147
7	GASKET, Valve	8	25G18
8	SPRING	8	78A171



**LOWER GUIDED VALVE
HARDENED STEEL, OIL SERVICE – WITHOUT INSERT**

Ref. No.	Name of Part	Qty. Per Pump	Models DFSH DFSS
			Part No.
	VALVE GROUP (For Reference Only – Do Not Order)		FD52484
1	SEAT-VALVE	8	1FG451
2	VALVE-FLUID	8	3FG482
3	SPRING	8	78A134
4	COVER-VALVE	8	FD147
5	GASKET, Valve Cover	8	25U18

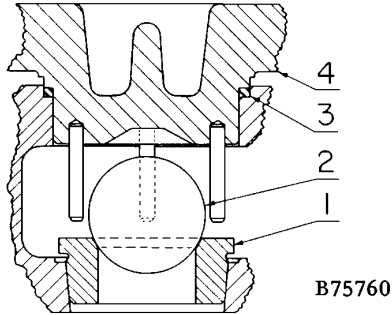
Order By Part Number and Description. Reference Numbers For Your Convenience Only.



WING GUIDED VALVE
BEVELLED SEAT

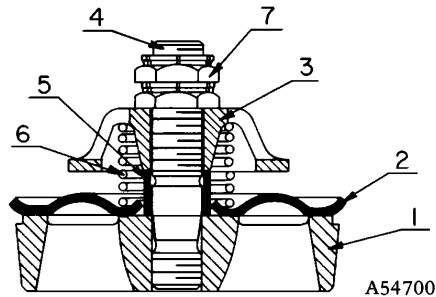
Ref. No.	Name of Part	Qty. Per Pump	DFSH DFSL DFSP DFSS	DFSL DFSP
			Part No.	Part No.
1	SEAT-VALVE	8	FG39	FG39
2	VALVE-FLUID, Iron Fitted	8	FG69	
2	VALVE-FLUID, Brass Fitted	8		1FG69
3	SPRING, Iron Fitted	8	78A172	
3	SPRING, Brass Fitted	8		78D72
4	COVER-VALVE	8	FD147	FD147
5	GASKET, Valve Cover	8	25G18	25G18

Order By Part Number and Description. Reference Numbers For Your Convenience Only.



BALL VALVE

Ref. No.	Name of Part	Qty. Per Pump	Models DFSS	
			(Steel)	(Stainless Steel)
			Part No.	Part No.
1	SEAT-VALVE	8	200FDD039	201FDD039
2	VALVE-BALL, Delrin	8	200FDD481	200FDD481
3	GASKET, Valve Cover	8	25G18	25G18
4	COVER-VALVE	8	200FDD147A	200FDD147A
**	VALVE SEAT PULLER for Ball Valve (Optional Equipment)	1	FDD67544	FDD67544



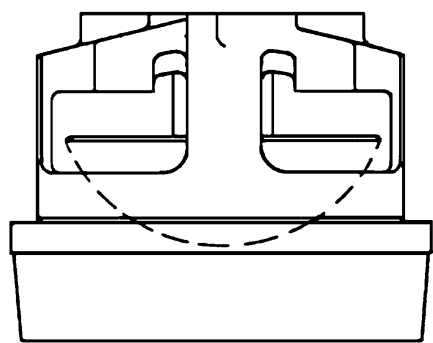
DURABLA VALVE - (Stainless Steel)

Ref. No.	Name of Part	Qty. Per Pump	DFSL, DFSP DFSS
			Part No.
	ASM FLUID VALVE, Includes Reference No. 1 thru 7	8	2FG1602
1	ASM VALVE SEAT, Includes Reference No. 4*	8	15FG39A
2	DISC	8	90AN10
3	GUARD	8	50AK11
4	STUD*	8	79AG15
5	SLEEVE	8	80K17
6	SPRING	8	78R3
7	NUT	8	50AK14
**	COVER-VALVE	8	4FD147
**	GASKET, Valve Cover	8	25G18

* Stud furnished with Seat but may be purchased separately.

** Not shown on illustration.

Order By Part Number and Description. Reference Numbers For Your Convenience Only.



A76953

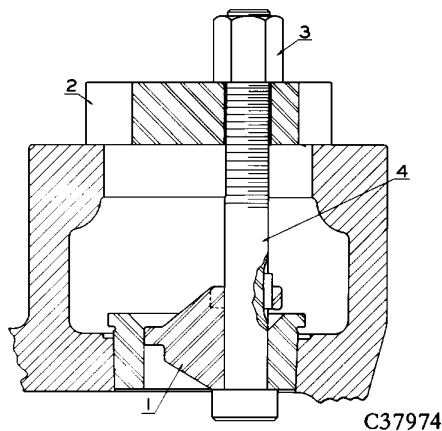
BALL GUIDED SPHERICAL VALVE*
Oil, Water or General Service
(Optional)

Ref. No.	Name of Part	Qty. Per Pump	Models DFSH DFSS	Models DFSL DFSP	Model DFSS
			Part No. (Steel)	Part No. (Bronze)	Part No. (Stainless Steel)
1	ASM FLUID VALVE	8	3FG1614	FG1614	6FG1614
**	COVER-VALVE, FLUID CYLINDER	8	7FG147	7FG147	7FG147
**	GASKET, VALVE COVER	8	25G18	25G18	25G18

* Selective for Column 10.

** Not shown on illustration

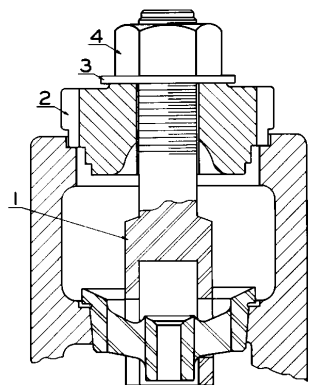
Order By Part Number and Description. Reference Numbers For Your Convenience Only.



WING GUIDED VALVE SEAT PULLER

Ref. No.	Name of Part	Qty. Per Pump	DFSB, DFSE DFSH, DFSS
			Part No.
	ASM VALVE SEAT PULLER, Includes Ref. No. 1 thru 4 and Pin	1	1AUX545
1	PULLER	1	3AUX291
2	PLATE-PULLER	1	2AUX292
3	NUT	1	50C11
4	BOLT-PULLER	1	2AUX235
*	PIN	1	— — — —

* Not shown on illustration

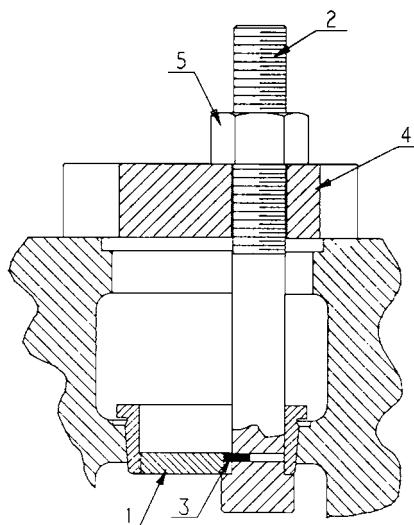


B37975

LOWER GUIDED VALVE SEAT PULLER

Ref. No.	Name of Part	Qty. Per Pump	DFSB, DFSH DFSS
			Part No.
	ASM VALVE SEAT PULLER, Includes Reference No. 1 thru 4	1	3AUX545
1	PULLER	1	AUX549
2	PLATE-PULLER	1	4AUX292
3	NUT	1	95A22
4	STUD	1	50T161

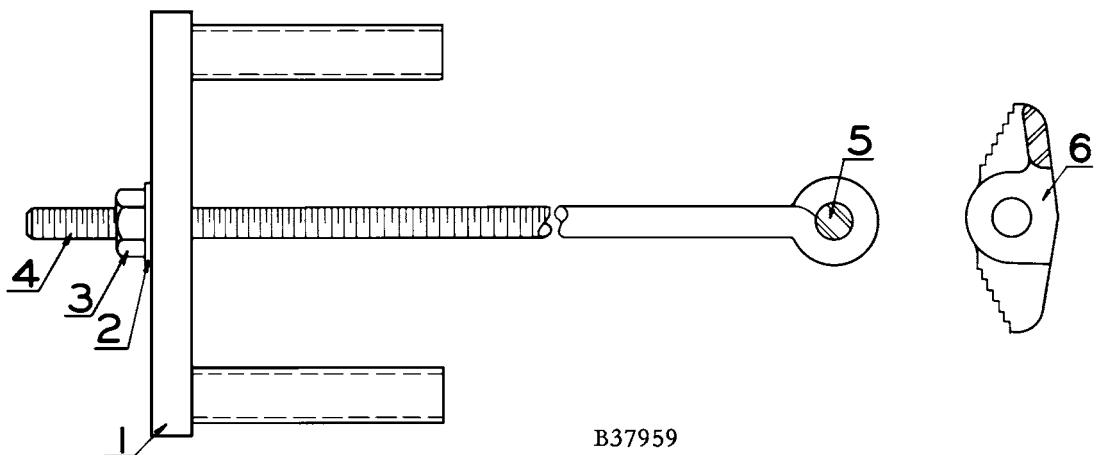
Order By Part Number and Description. Reference Numbers For Your Convenience Only.



GRAVEL TYPE – VALVE SEAT PULLER
(Optional Equipment)

Ref. No.	Name of Part	Qty. Per Pump	DFSB DFSE
			Part No.
	ASM PULLER, VALVE SEAT (Includes next 5 items)	1	200FGG219A
1	PULLER, Valve Seat	1	200FGG219
2	BOLT–PULLER	1	2015079
3	PIN–SPRING ROLL	1	62R40
4	PLATE–PULLER	1	3AUX292
5	NUT–HEX	1	50T62

Order By Part Number and Description. Reference Numbers For Your Convenience Only.

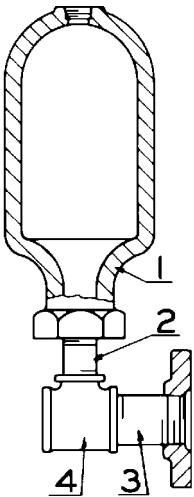


B37959

LINER PULLER

Ref. No.	Name of Part	Qty. Per Pump	All Models DFS
			Part No.
	ASM LINER PULLER, Incl. Ref. No. 1 thru 6	1	FD284
1	TOOL-LINER PULLER	1	FD346
2	WASHER	1	95A8
3	NUT	1	50B8
4	BOLT-PULLER	1	FD344
5	PIN, Liner Puller Eyebolt	1	62A93
6	PULLER, Liner (4", 4-1/2" & 5")	1	EF345

Order By Part Number and Description. Reference Numbers For Your Convenience Only.



A37955

AIR CHAMBER

Ref. No.	Name of Part	Qty. Per Pump	All Models DFS
			Part No.
1	AIR CHAMBER	1	EW44
2	NIPPLE, Air Chamber	1	63U32X24
3	NIPPLE, Discharge	1	63U48X40
4	TEE, Discharge	1	64G30
*	BUSHING	1	64E109

* Not shown on illustration

北京

信德迈科技(北京)有限公司CNMEC Technology
北京朝阳区胜古中路2号金基业大厦201室
邮编：100029
电话：010-8428 2935 13910962635
传真：010-8428 8762
主页：[//www.cnmec.biz](http://www.cnmec.biz)
电子邮件：sales@cnmec.biz

西安

西安嘉岳自动化技术有限公司Garye Automation
地址：西安经开区凤城二路天地时代广场B座23层22312室
邮编：710016
电话：029 - 8610 8648 15319759129
传真：029 - 8610 6806
主页：<http://www.garye.cn>
电子邮件：sales@garye.cn

Gardner
Denver

For additional information contact your local representative or
Gardner Denver Machinery Inc., Customer Service Department,
1800 Gardner Expressway, Quincy, Illinois 62301
Telephone: (800) 682-9868 FAX: (217) 224-7814



Sales and Service in all major cities.

For parts information, contact Gardner Denver,
Master Distribution Center, Memphis, TN
Telephone: (800) 245-4946 FAX: (901) 542-6159

Specifications subject to change without notice.
Copyright 1996 Gardner Denver Machinery Inc.