
GARDNER DENVER®

3-526
2nd Edition
July, 1997

DUPLEX POWER PUMP
8" STROKE

MODEL
FXX_ _ B

PARTS LIST

Gardner

Denver

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

Gardner Denver® 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 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 the Gardner Denver Machinery Inc. Master Distribution Center (MDC) in Memphis, Tennessee.

Your authorized distributor can support your Gardner Denver 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 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 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
(800) 245-4946
Fax: (901) 542-6159

Factory:
Gardner Denver Machinery Inc.
1800 Gardner Expressway
Quincy, IL 62301
Phone: (217) 222-5400
Fax: (217) 224-7814

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 and look toward the fluid end. Right Hand and Left Hand are indicated in parenthesis following a part name, i.e. (RH) & (LH), when appropriate.

For Operating and Service Instructions see:

SERVICE MANUAL 3-600

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DUPLEX POWER PUMP – 8" STROKE – MODEL FXX__B **MENU/MATRIX**

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:

F	X	X									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 – MASTER CYLINDER SIZE – CONSTRUCTION

	7-1/2" – 2 pc Cast Iron	5-1/2" 1 2 pc Cast Iron	5" – 1 pc Cast Iron	5" – 2 pc Cast Steel
Slush	A	B	C	D
Grout & Cement	E	F	G	H
Oil	J	K	L	M
Water	N		P	Q
General	R	S	T	U

COLUMN 5 – SIZE SELECTIVE

	(Master Size) 7-1/2"		(Master Size) 5-1/2"		(Master Size) 5"
A.	7-1/2"		5-1/2"		7-1/2" & 5-1/2"
B.	7-1/4"		5"		7-1/2", 5-1/2" & 5"
C.	7"		4-1/2"		5-1/2" & 5"
D.	6-3/4"		4"		5-1/2" & 5"
E.	6-1/2"		3-1/2"		5-1/2" & 5"
F.	6"		3"		5"

COLUMN 6 – DESIGN VERSION

COLUMN 7 – LINER MATERIAL SELECTIVE

- A. Bronze – Standard for Water Service
- B. Hardened Steel – Standard for Slush, Grout & Cement, Oil and General Service
- C. Stainless Steel – Optional

COLUMN 8 – PISTON TYPE SELECTIVE

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

COLUMN 9 – PISTON ROD MATERIAL & PACKING SELECTIVE

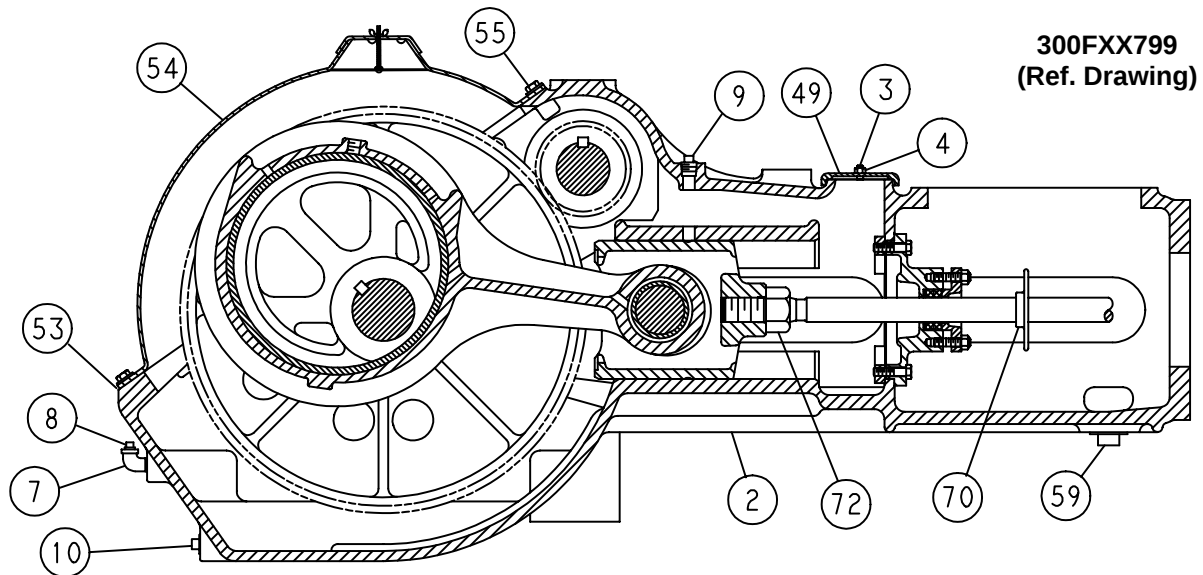
- A. Bronze Rod & Molded Rubber & Duck Packing (Standard for Water Service)
- D. Hardened Steel Rod & Molded Rubber & Duck Packing (Standard for Oil, General, Slush, Grout & Cement Service)
- G. Chrome Plated Rod & Molded Rubber & Duck Packing (Optional for Oil, General, Slush, Grout & Cement Service)
- K. Stainless Steel Rod & Molded Rubber & Duck Packing (Optional for Water Service)

COLUMN 10 – FLUID VALVE SELECTIVE

- A. Bronze – Wing Guided Type without Insert (Water Service)
- B. Bronze – Wing Guided Type with Rubber Insert (Water Service)
- C. Iron – Wing Guided Type without Insert (Oil, General or Water Service)
- D. Steel – Wing Guided Type without Insert (Oil or General Service)
- E. Steel – Wing Guided Type with Rubber Insert (Slush or Grout & Cement Service)
- F. Steel (Gravel Type) – Wing Guided with Insert (Slush or Grout & Cement Service)
- G. Steel – Center Guided without Insert (Oil or General Service)
- H. Steel – Center Guided Type with Rubber Insert (Slush or Grout & Cement Service)
- J. Steel – Center Guided Type with Polyurethane Insert (Slush or Grout & Cement Service)
- K. Steel Seat & Delrin Ball (Optional)
- L. Stainless Steel Seat & Delrin Ball (Optional)
- M. Stainless Steel – Durabla (Optional)
- N. Bronze – Ball Guided Spherical (Optional)
- P. Steel – Ball Guided Spherical (Optional)
- Q. Stainless Steel – Ball Guided Spherical (Optional)

COLUMN 11 – OPTIONAL EQUIPMENT SELECTIVE

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

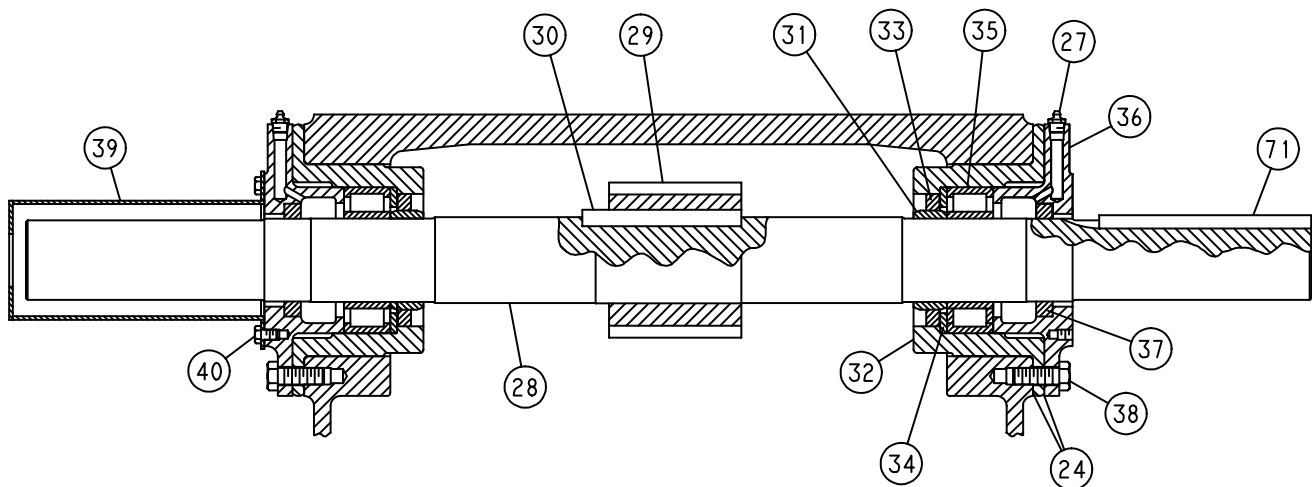


FRAME GROUP

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
	FRAME ASSEMBLY, Includes Ref. Numbers 2, 3, 4, 7, 8, 9 & 10	1	200FXX001A
2	FRAME		
3	STUD	1	79A338
4	NUT	1	50B3
7	ELBOW	1	64D4
8	PLUG	1	64AA4
9	PLUG	2	64AA7
10	PLUG	1	64A5
49	PLATE-INSPECTION	1	1PXD237
53	GASKET	8	2009457
54	HOOD	1	200FXX053
55	SCREW	12	75AA1
59	PLUG	1	64A9
70	BAFFLE, Piston Rod	2	1FXX840
72	NUT	2	50T137
*	STUD	4	79A6
*	NUT	4	50B5
*	PLATE-INSPECTION	2	FXX723
*	GASKET	2	25C1180
*	SCREW	4	655EE040
*	COVER, CRADLE	2	201FXY225
*	STUD	6	79A466
*	NUT	6	50H1

* Not Shown.

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

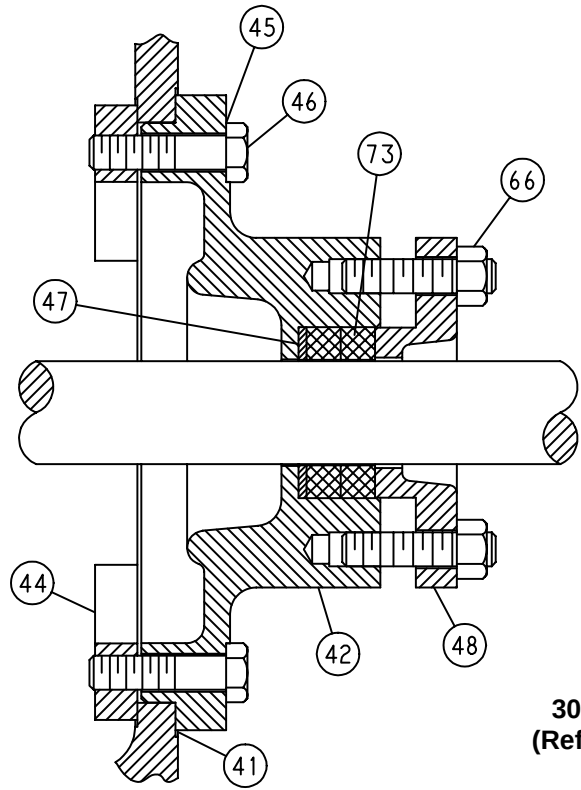


301FXX799
(Ref. Drawing)

JACKSHAFT

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
	JACKSHAFT ASSEMBLY, Includes Reference Numbers 28, 29 & 30 .	1	FXX374
24	GASKET	4	25C973
27	GREASE FITTING	2	40E5
28	JACKSHAFT	1	FXX371
29	GEAR-DRIVER	1	FXX181
30	KEY, Jackshaft to Gear	1	35C56
31	SLEEVE-SHAFT	2	FXX289
32	HOUSING-BEARING	2	1FXX368
33	SEAL-OIL, Bearing Housing	2	60G5
34	SPACER, Bearing	2	FXX376
35	BEARING, Jackshaft	2	12W4
36	PLATE-BEARING RETAINING	2	4FXX370
37	SEAL-OIL, Bearing Retaining Plate	2	60G19
38	SCREW, Housing & Retaining Plate	12	655EF070
39	COVER-SHAFT EXTENSION	1	200FXX490
40	SCREW, Shaft Extension Cover	4	75A68
71	KEY, JACKSHAFT	1	35B99

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

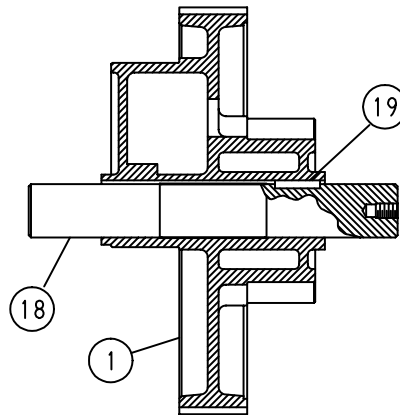


303FXX799
(Ref. Drawing)

OIL STOP HEAD

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
	OIL STOP HEAD ASSEMBLY, Includes Reference Numbers 41, 42, 44, 45, 46, 47 & 66	2	300FXX6005
41	GASKET	2	25BC177N
42	OIL STOP HEAD	2	300FXX051
44	PLATE-RETAINER	4	300FXX168
45	GASKET	8	25F9
46	SCREW	8	655EE080
47	RING-JUNK	2	BC318
48	GLAND	2	PXD238
66	NUT	4	50B5
73	PACKING	2	60BG26

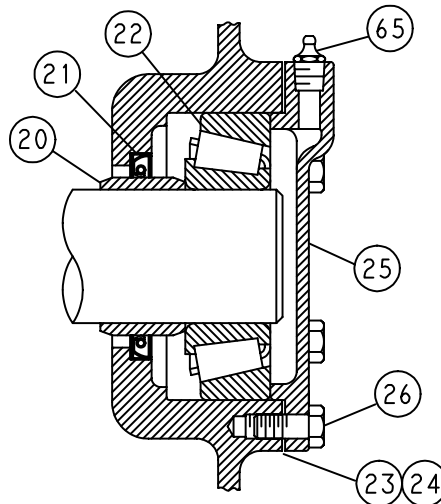
Order by Part Number and Description. Reference Numbers are for your convenience only.



302FXX799
(Ref. Drawing)

ECCENTRIC & SHAFT

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
1	ECCENTRIC	1	1FXX255
18	SHAFT-ECCENTRIC	1	1FXX367
19	KEY	1	35C68

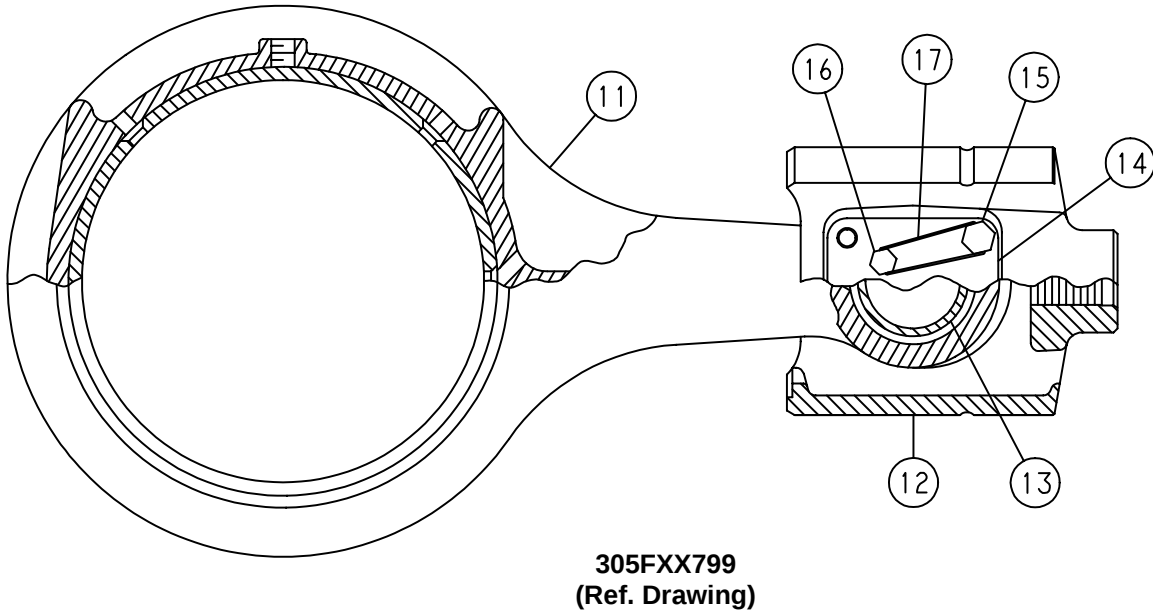


304FXX799
(Ref. Drawing)

ECCENTRIC SHAFT BEARING

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
20	SLEEVE-SHAFT	2	20AUX18
21	SEAL-OIL	2	60G7
22	BEARING	2	12C33
23	SHIM (Used opposite 25C973 Gasket)	2	77B20
24	GASKET (Used opposite 77B20 Shims)	1	25C973
25	PLATE-BEARING COVER	2	FXX366
26	SCREW	12	655EF050
65	GREASE FITTING	2	40E5

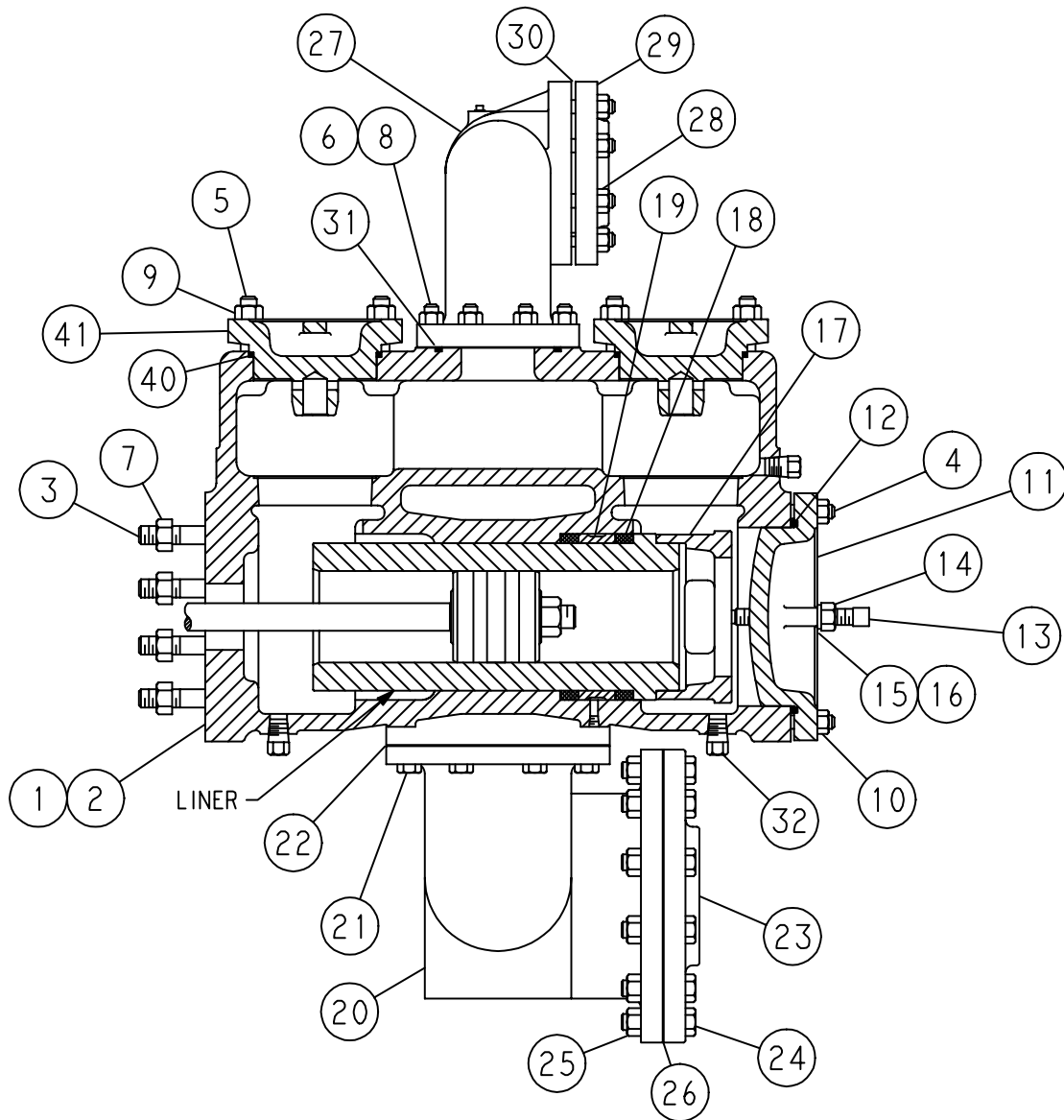
Order by Part Number and Description. Reference Numbers are for your convenience only.



CONNECTING ROD & CROSSHEAD

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
11	CONNECTING ROD ASSEMBLY, Includes next two items	2	2FXX417
	BUSHING (Eccentric End)	2	2FXX421
	BUSHING (Crosshead End)	2	FXX229
12	CROSSHEAD	2	FXX175
13	PIN-CROSSHEAD	2	1FXX189
14	PLATE-RETAINER	2	1FXX281
15	SCREW	4	655EF06D
16	SCREW	4	655EE04D
17	WIRE	48	97A29

FLUID CYLINDER



306FXX799-A
(Ref. Drawing)

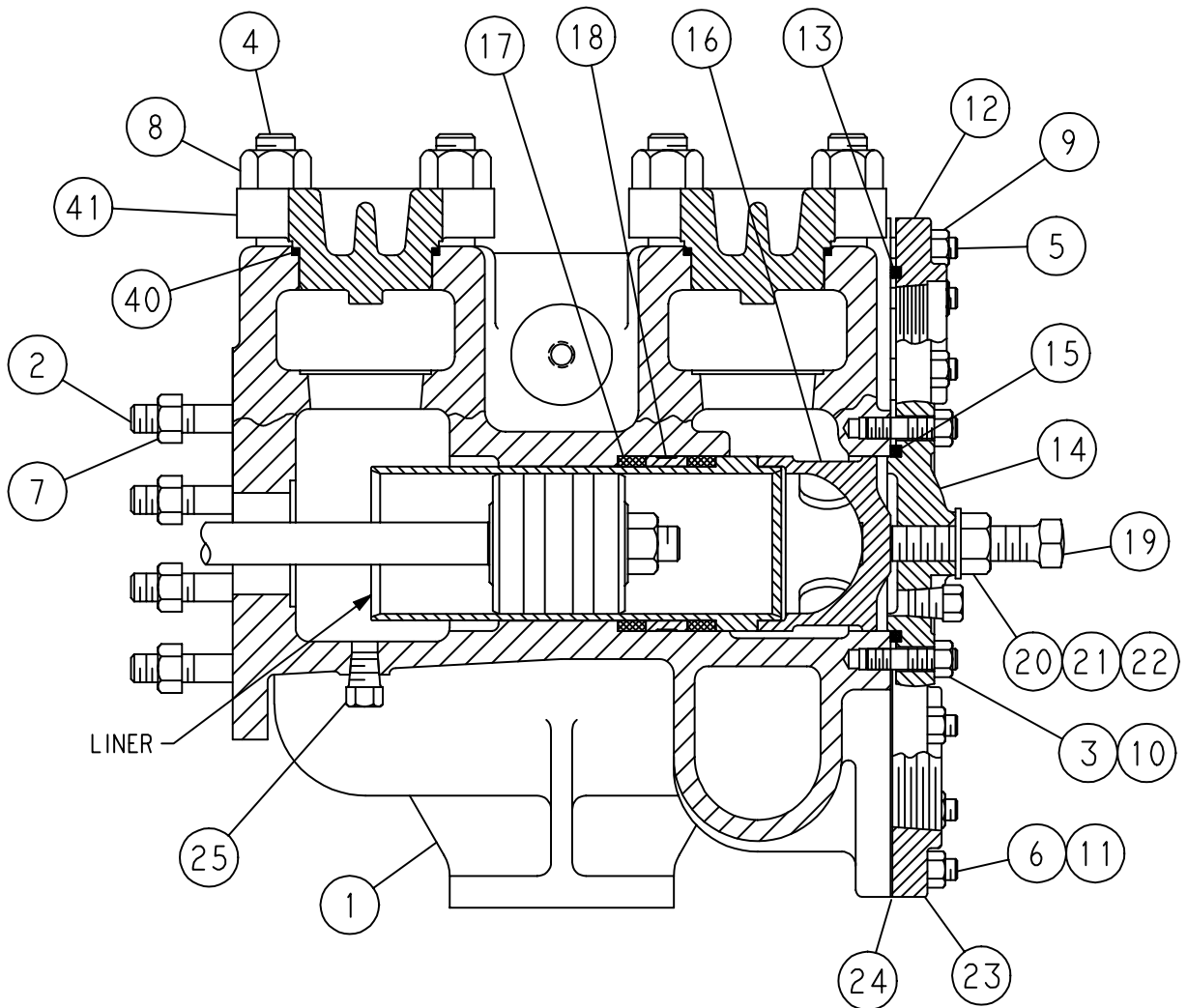
Order by Part Number and Description. Reference Numbers are for your convenience only.

FLUID CYLINDER

Ref. No.	Name of Part	Qty.	Models
			Part No.
	FLUID CYLINDER ASSEMBLY (RH) *, Includes Ref. No. 1 & 3 – 10 ..	1	200FYY029B
	FLUID CYLINDER ASSEMBLY (LH) *, Includes Ref. No. 2 thru 10	1	201FYY029B
1	CYLINDER–FLUID (RH) *		----
2	CYLINDER–FLUID (LH) *		----
3	STUD, Cylinder to Frame	12	79A557
4	STUD, Cylinder Head	18	79A183
5	STUD, Valve Cover	32	79A92
6	STUD, Discharge Manifold	16	79L4
7	NUT, Cylinder to Frame Stud	12	50B10
8	NUT, Discharge Manifold Stud	16	50B8
9	NUT, Valve Cover Stud	32	50B9
10	NUT, Cylinder Head Stud	18	50B8
11	HEAD–CYLINDER	2	FY41
12	GASKET–CYLINDER HEAD	2	25BE8
13	SCREW	6	1FY207
14	NUT	6	50B9
15	PACKING–RING	6	60BQ3
16	WASHER	6	95F9
17	CLAMP–LINER	2	FO217
18	SLEEVE–LINER	4	3EN519
19	SPACER–LANTERN	2	EN957
20	MANIFOLD–SUCTION	1	200FYY069
21	SCREW	16	655EG080
22	GASKET, Suction Manifold	2	25BC105N
23	FLANGE, Suction	1	64EB131
24	SCREW	12	75A150
25	NUT	12	50B9
26	GASKET, Suction Flange	1	25C1154N
27	MANIFOLD–DISCHARGE, Includes next two items	1	2FO280
	STUD, Discharge Manifold Flange	8	79L4
	PLUG, Discharge Manifold	1	64AA5
28	NUT	8	50B8
29	FLANGE, Discharge	1	64DA12
30	GASKET, Discharge Flange	1	25T34
31	GASKET, Discharge Manifold	2	25T34
32	PLUG	6	64AU5
40	GASKET, VALVE COVER (See pages 25 thru 37)		
41	VALVE COVER (See pages 25 thru 37)		

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

FLUID CYLINDER



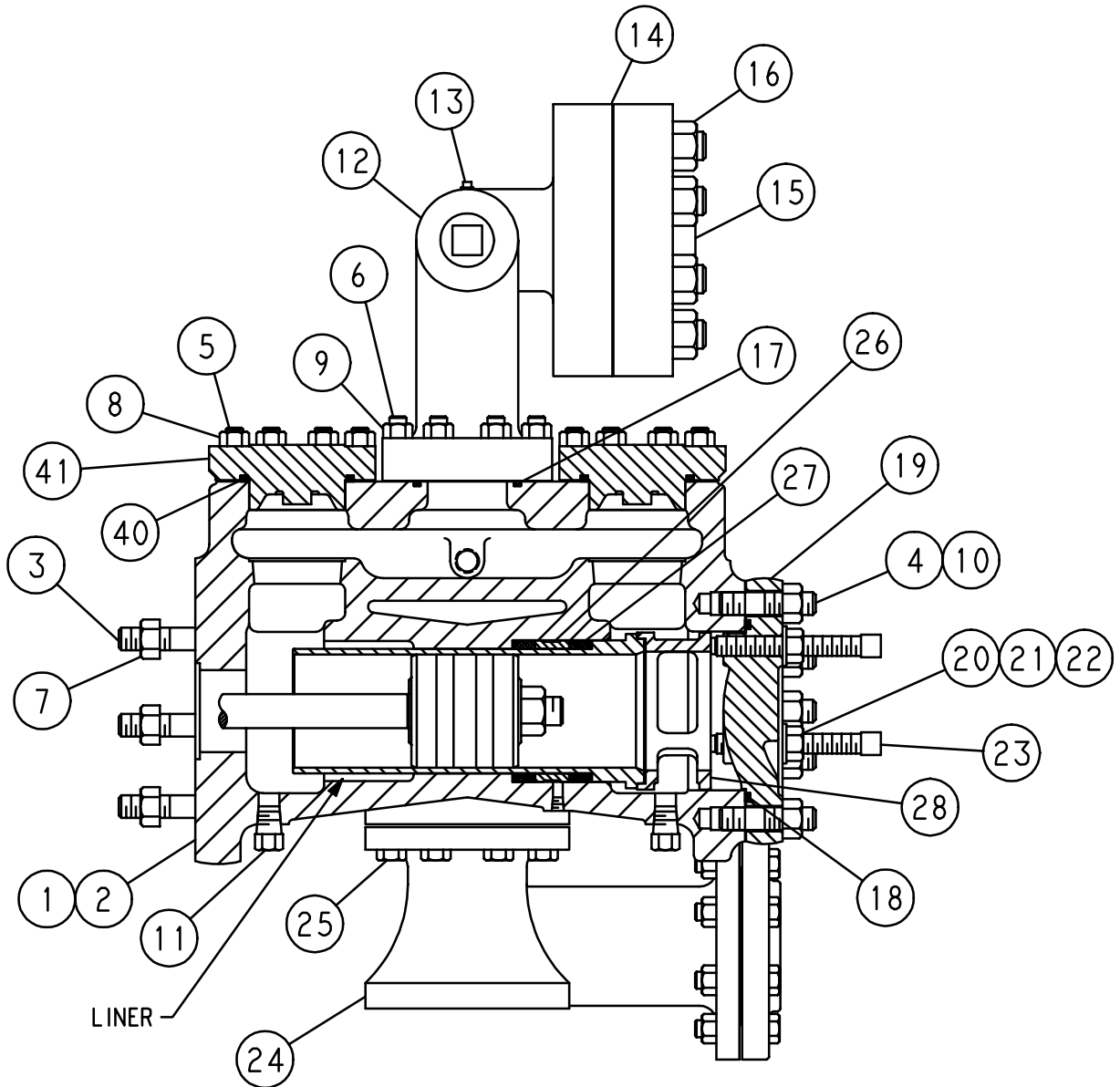
307FXX799-A
(Ref. Drawing)

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

FLUID CYLINDER

Ref. No.	Name of Part	Qty.	Models	Models
			FXXC_B FXXG_B FXXL_B FXXP_B FXXT_B Part No.	FXXB_B FXXF_B FXXK_B FXXS_B Part No.
	FLUID CYLINDER ASSEMBLY, Includes Reference Numbers 1 thru 11	1	1FD388	6FD29B
1	FLUID CYLINDER		----	----
2	STUD, Cylinder to Frame	12	79L92	79L92
3	STUD, Cylinder Head	24	79A183	79A183
4	STUD, Valve Cover	16	79A559	79A559
5	STUD, Discharge Flange	8	79A183	79A183
6	STUD, Suction Flange	8	79A183	79A183
7	NUT, Cylinder to Frame Stud	12	50B10	50B10
8	NUT, Valve Cover Stud	16	50B13	50B13
9	NUT, Discharge Flange Stud	8	50B8	50B8
10	NUT, Cylinder Head Stud	24	50B8	50B8
11	NUT, Suction Flange Stud	8	50B8	50B8
12	FLANGE, Discharge	1	64DA5	64DA5
13	GASKET, Discharge Flange	1	25BE4	25BE4
14	HEAD-CYLINDER	2	5FD41	4FD41
15	GASKET-CYLINDER HEAD	2	25BE12	25G43
16	CLAMP-LINER	2	FD217	3FD217
17	GASKET	4	4EF519	25T32
18	SPACER-LANTERN	2	FC957	FD445
19	SCREW	2	76W3	76W3
20	NUT	2	50B12	50B12
21	WASHER	2	95F12	95F12
22	PACKING-RING	2	60BQ6	60BQ6
23	FLANGE, Suction	1	FD77	FD77
24	GASKET, Suction Flange	1	25C320N	25C320N
25	PLUG	5	64AU5	64AU5
40	GASKET, VALVE COVER (See pages 25 thru 37)			
41	VALVE COVER (See pages 25 thru 37)			

FLUID CYLINDER



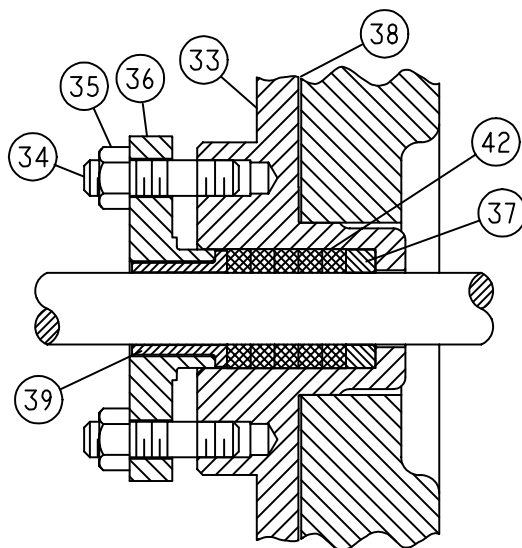
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(Ref. Drawing)

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

FLUID CYLINDER				
Ref. No.	Name of Part	Qty.	Models	Model
			FXXD_B FXXM_B FXXQ_B FXXU_B Part No.	FXXH_B Part No.
	FLUID CYLINDER ASSEMBLY (LH) *, Includes Reference Numbers 1 & 3 thru 10	1	21FC29LF	21FC29LF
	FLUID CYLINDER ASSEMBLY (RH) *, Includes Reference Numbers 2 thru 10	1	21FC29RF	21FC29RF
1	CYLINDER-FLUID (LH) *	1	----	----
2	CYLINDER-FLUID (RH) *	1	----	----
3	STUD, Cylinder to Frame	12	79L114	79L114
4	STUD, Cylinder Head	24	79L80	79L80
5	STUD, Valve Cover	64	79L4	79L4
6	STUD, Discharge Manifold	16	79L65	79L65
7	NUT, Cylinder to Frame Stud	12	50B10	50B10
8	NUT, Valve Cover Stud	64	50B8	50B8
9	NUT, Discharge Manifold Stud	16	50B8	50B8
10	NUT, Cylinder Head Stud	24	50B10	50B10
11	PLUG	6	64AU5	64AU5
12	MANIFOLD-DISCHARGE, Includes next two items	1	200FCC071	200FCC071
	STUD, Discharge Manifold Flange	8	79L9	79L9
	PLUG, Discharge Manifold	2	64AA9	64AA9
13	PLUG	1	64AA5	64AA5
14	GASKET, Discharge Flange	1	25T15	25T15
15	FLANGE, Discharge	1	202FCC073	202FCC073
16	NUT	8	50B36	50B36
17	GASKET-Discharge Manifold	2	25T20	25T20
18	GASKET-Cylinder Head	2	25T40	25T40
19	HEAD-CYLINDER	2	3FC41	3FC41
20	PACKING-RING	6	60BQ3	60BQ3
21	WASHER	6	95F9	95F9
22	NUT	6	50B9	50B9
23	SCREW	6	1FY207	1FY207
24	MANIFOLD-SUCTION ASSEMBLY, Incl. next 6 items .	1	2EF499	2EF499
	FLANGE, Suction	1	64DE8	64DE8
	GASKET, Suction Flange	1	25C320N	25C320N
	SCREW, Suction Flange	8	655EG130	655EG130
	NUT, Suction Flange Screw	8	50B8	50B8
	MANIFOLD-SUCTION	1	2EF110	2EF110
	GASKET, Suction Manifold	2	25BE18	25BE18
25	SCREW	16	655EG080	655EG080
26	SPACER-LANTERN	2	FC957	FC957
27	SLEEVE-LINER	4	4EF519	4EF519
28	CLAMP-LINER	2	FC217	FC217
40	GASKET, VALVE COVER (See pages 25 thru 37)			
41	VALVE COVER (See pages 25 thru 37)			

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

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



309FXX799-A
(Ref. Drawing)

STUFFING BOX FOR IRON FLUID ENDS

Models

FXXA_B, FXXK_B
FXXB_B, FXXL_B
FXXC_B, FXXN_B
FXXE_B, FXXP_B
FXXF_B, FXXR_B
FXXG_B, FXXS_B
FXXJ_B, FXXT_B

Ref. No.	Name of Part	Qty.	Part No.
	STUFFING BOX ASSEMBLY, Includes Ref. No. 33 thru 35	2	2007956
33	STUFFING BOX	2	2007907
34	STUD	4	79A183
35	NUT	4	50B8
36	GLAND	2	FD21
37	RING-JUNK	2	BC317
38	GASKET	2	25C1737
39	BUSHING-GLAND	2	1FD152
42	PACKING, Molded Rubber & Duck	2	60DA415

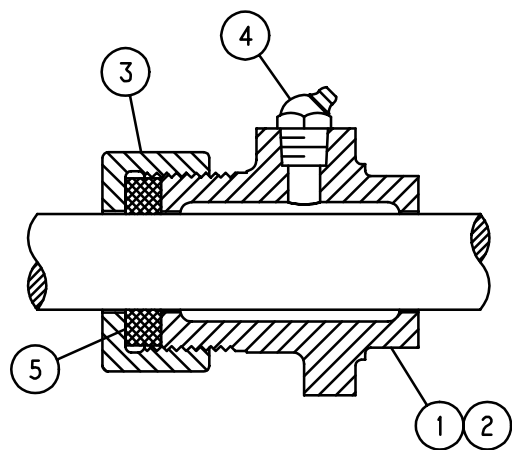
STUFFING BOX FOR STEEL FLUID ENDS

Models

FXXD_B, FXXH_B
FXXM_B, FXXQ_B
FXXU_B

Ref. No.	Name of Part	Qty.	Part No.
	STUFFING BOX ASSEMBLY, Includes Ref. No. 33 thru 35	2	16FC14B
33	STUFFING BOX	2	16FC14
34	STUD	4	79L11
35	NUT	4	50B9
36	GLAND	2	1FC21
37	RING-JUNK	2	BC317
38	GASKET	2	25AL35
39	BUSHING-GLAND	2	1FD152
42	PACKING, Molded Rubber & Duck	2	60DA415

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



314FXG799
(Ref. Drawing)

STUFFING BOX GLAND
(Optional Equipment)

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
1	GLAND ASSEMBLY, Includes Reference Numbers 2 thru 5	2	200FXX008A
2	GLAND	2	200FXX008
3	NUT	2	200FXX086
4	GREASE FITTING	2	40E10
5	PACKING-RING	2	60DD75
*	NUT	4	50AQ7C

* Not shown.

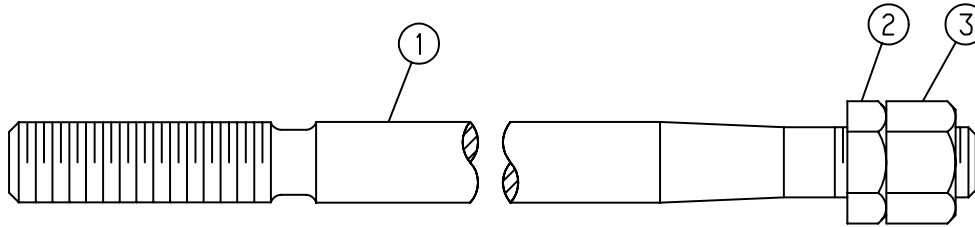
CYLINDER LINERS
TWO (2) REQUIRED PER PUMP

Size	Models	
	FXXA_B	FXXN_B
	FXXE_B	FXXR_B
	FXXJ_B	
	Hardened Steel Part No.	Bronze Part No.
7-1/2"	FY45675	FY6275BB
7-1/4"	FZ45672	FZ6272BB
7"	FZ45670	FZ6270BB
6-3/4"	FZ45667	FZ6267BB
6-1/2"	FZ45665	FZ6265BB
6"	FZ45660	FZ6260BB
5-1/2"	FZ45655	FZ6255BB
5"	FZ45650	FZ6250BB

Size	Models	
	FXXD_B	FXXQ_B
	FXXH_B	FXXU_B
	FXXM_B	
	Hardened Steel Part No.	Bronze Part No.
5"	1EF45650	33EF64
4-1/2"	1EF45645	34EF64
4"	1EF45640	35EF64
3-1/2"	1EF45635	36EF64
3"	1EF45630	37EF64
2-1/2"	1EF45625	38EF64

Size	Models		Models	
	FXXC_B	FXXP_B	FXXB_B	FXXK_B
	FXXG_B	FXXT_B	FXXF_B	FXXS_B
	FXXL_B			
	Stainless Steel Part No.	Hardened Steel Part No.	Bronze Part No.	Hardened Steel Part No.
5-1/2"	None	None	None	FD45655
5"	16FD64	FD45650	FD64	1FD45650
4-1/2"	20FD64	FD45645	3FD64	2FD45645
4"	22FD64	FD45640	6FD64	1FD45640
3-1/2"	24FD64	FD45635	9FD64	200FDD456
3"	26FD64	FD45630	12FD64	None
2-1/2"	28FD64	FD45625	15FD64	None

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

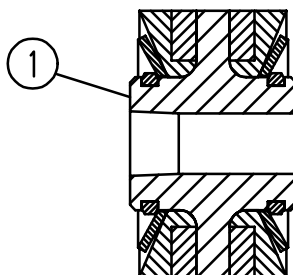


301FXG810
(Ref. Drawing)

PISTON RODS & NUTS (API NO. 3 TAPER)

Ref. No.	Name of Part	Qty.	Models	
			Part No.	Part No.
			Models	Models
			FXXA_B	FXXB_B FXXL_B
			FXXE_B	FXXC_B FXXM_B
			FXXJ_B	FXXD_B FXXP_B
			FXXN_B	FXXF_B FXXQ_B
			FXXR_B	FXXG_B FXXS_B
				FXXH_B FXXT_B
				FXXK_B FXXU_B
1	BRONZE PISTON ROD, Incl. Ref. No. 2 & 3	2	2FXX183	11EF183
2	NUT (Thin)	2	50T281	50T281
3	NUT (Full)	2	50T282	50T282
1	HARDENED STEEL PISTON ROD, Incl. Ref. No. 2 & 3	2	FXX183	5EF183
2	NUT (Thin)	2	None	None
3	NUT (Full)	2	50AW36	50AW36
1	CHROME PLATED PISTON ROD, Incl. Ref. No. 2 & 3 .	2	5FXX183	14EF183
2	NUT (Thin)	2	None	None
3	NUT (Full)	2	50AW36	50AW36
1	STAINLESS STEEL PISTON ROD, Incl. Ref. No. 2 & 3 .	2	4FXX183	13EF183
2	NUT (Thin)	2	None	None
3	NUT (Full)	2	50AW36	50AW36

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

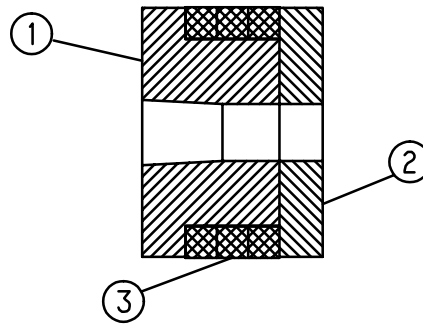


322FXG799
(Ref. Drawing)

**STEEL INSERT TYPE PISTON – STANDARD FOR SLUSH, GROUT & CEMENT SERVICE
(API NO. 1 TAPER)**

Ref. No.	Name of Part	Qty.	Models FXXA_B & FXXE_B		
			7-1/2" Part No.	7-1/4" Part No.	7" Part No.
1	PISTON ASSEMBLY, Incl. next item .	2	212TBB045A	211TBB045A	210TBB045A
	INSERT GROUP, Includes Retainer Plates & Rings	2	TBB76021	TBB76020	TBB76019
Ref. No.	Name of Part	Qty.	Models FXXA_B & FXXE_B		
			6-3/4" Part No.	6-1/2" Part No.	6" Part No.
1	PISTON ASSEMBLY, Incl. next item .	2	209TBB045A	208TBB045A	206TBB045A
	INSERT GROUP, Includes Retainer Plates & Rings	2	TBB76018	TBB76017	TBB76015
Ref. No.	Name of Part	Qty.	Models FXXA_B FXXB_B FXXE_B FXXF_B 5-1/2" Part No.		Models FXXA_B FXXB_B FXXC_B FXXG_B FXXD_B FXXH_B 5" Part No.
			Part No.		Part No.
1	PISTON ASSEMBLY, Incl. next item	2	204TBB045A		202TBB045A
	INSERT GROUP, Incl. Retainer Plates & Rings .	2	TBB76013		TBB76011
Ref. No.	Name of Part	Qty.	Models FXXB_B FXXC_B 4-1/2" Part No.		
			Part No.		
1	PISTON ASSEMBLY, Incl. next item .	2	200TBB045A	221TBK045A	220TBK045A
	INSERT GROUP, Includes Retainer Plates & Rings	2	TBB76009	TBK90423	TBK90422
Ref. No.	Name of Part	Qty.	Models FXXC_B, FXXD_B, FXXG_B & FXXH_B 3" Part No.		
			Part No.		
1	PISTON ASSEMBLY, Incl. next item	2	221TBA045A		
	INSERT GROUP, Incl. Retainer Plates & Rings .	2	TBA75994		

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



324FXG799
(Ref. Drawing)

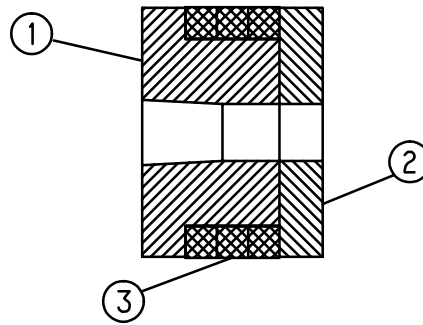
FOLLOWER TYPE FLUID PISTON – FOR WATER AND GENERAL SERVICE
(API NO. 1 TAPER)

Ref. No.	Name of Part	Qty.	Models FXXN_B & FXXR_B			
			7-1/2" Part No.	7-1/4" Part No.	7" Part No.	6-3/4" Part No.
1	BODY-PISTON (Iron)	2	FY45	17F045	19F045	21F045
2	FOLLOWER-PISTON (Iron)	2	F746	F046	18F046	3F046
1	BODY-PISTON (Bronze)	2	1FY45	18F045	20F045	22F045
2	FOLLOWER-PISTON (Bronze) . . .	2	1FY46	1F046	19F046	8F046
3	PACKING, Regular Cure	See ()	60D47 (12)	2009041 (12)	60D52 (12)	2009042 (16)
3	PACKING, Rock Hard	See ()	60Y47 (12)	60Y2 (12)	60Y52 (12)	60Y3 (16)

Ref. No.	Name of Part	Qty.	Models FXXN_B & FXXR_B		Models FXXN_B FXXR_B FXXS_B
			6-1/2" Part No.	6" Part No.	5-1/2" Part No.
1	BODY-PISTON (Iron)	2	23F045	27F045	31F045
2	FOLLOWER-PISTON (Iron)	2	2F046	4F046	6F046
1	BODY-PISTON (Bronze)	2	24F045	28F045	32F045
2	FOLLOWER-PISTON (Bronze) . . .	2	9F046	10F046	12F046
3	PACKING, Regular Cure	See ()	60D9 (12)	60D8 (12)	60D7 (12)
3	PACKING, Rock Hard	See ()	60Y9 (12)	60Y8 (12)	60Y7 (12)

Ref. No.	Name of Part	Qty.	Models		
			FXXN_B FXXP_B	FXXQ_B FXXR_B FXXS_B 5" Part No.	FXXT_B FXXU_B
1	BODY-PISTON (Iron)	2		35F045	
2	FOLLOWER-PISTON (Iron)	2		7F046	
1	BODY-PISTON (Bronze)	2		36F045	
2	FOLLOWER-PISTON (Bronze) . . .	2		13F046	
3	PACKING, Regular Cure	See ()		60D6 (12)	
3	PACKING, Rock Hard	See ()		60Y6 (12)	

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



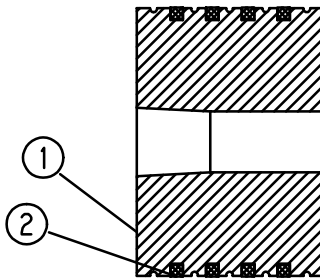
324FXG799
(Ref. Drawing)

FOLLOWER TYPE FLUID PISTON – FOR WATER AND GENERAL SERVICE (CONTINUED)
(API NO. 1 TAPER)

Ref. No.	Name of Part	Qty.	Models		
			FXXP_B	FXXS_B	
			FXXQ_B	FXXT_B	
			FXXU_B		
			4-1/2"	4"	3-1/2"
			Part No.	Part No.	Part No.
1	BODY-PISTON (Iron)	2	37F045	FD45	1FD45
2	FOLLOWER-PISTON (Iron)	2	16F046	FD46	1FD46
1	BODY-PISTON (Bronze)	2	38F045	4FD45	5FD45
2	FOLLOWER-PISTON (Bronze)	2	22F046	4FD46	5FD46
3	PACKING, Regular Cure	See ()	60D22 (12)	60D17 (14)	60D25 (14)
3	PACKING, Rock Hard	See ()	60Y22 (12)	60Y17 (14)	60Y25 (14)

Ref. No.	Name of Part	Qty.	Models	
			FXXP_B	FXXT_B
			FXXQ_B	FXXU_B
			3"	2-1/2"
			Part No.	Part No.
1	BODY-PISTON (Iron)	2	2FD45	3FD45
2	FOLLOWER-PISTON (Iron)	2	2FD46	3FD46
1	BODY-PISTON (Bronze)	2	6FD45	7FD45
2	FOLLOWER-PISTON (Bronze)	2	6FD46	7FD46
3	PACKING, Regular Cure	See ()	60D11 (12)	60D13 (10)
3	PACKING, Rock Hard	See ()	60Y11 (12)	60Y13 (10)

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



323FXG799
(Ref. Drawing)

**SOLID IRON TYPE PISTON WITH CAST IRON RINGS – STANDARD FOR OIL SERVICE
(API NO. 1 TAPER)**

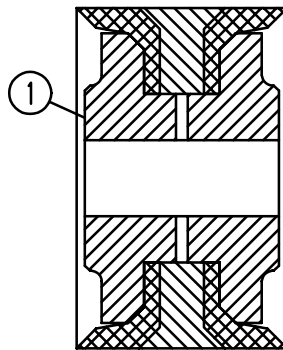
Ref. No.	Name of Part	Qty.	Model FXXJ_B			
			7-1/2" Part No.	7-1/4" Part No.	7" Part No.	6-3/4" Part No.
1	PISTON	2	FY350	1FY350	2FY350	3FY350
2	RING-PISTON	See ()	65A43 (10)	65A92 (10)	65A39 (10)	65A101 (10)

Ref. No.	Name of Part	Qty.	Model FXXJ_B			Models FXXJ_B & FXXK_B 5-1/2" Part No.
			6-1/2" Part No.	6" Part No.		
1	PISTON	2	4FY350	6FY350		8FY350
2	RING-PISTON	See ()	65A17 (10)	65A8 (10)		65A6 (10)

Ref. No.	Name of Part	Qty.	Models FXXJ_B FXXK_B FXXL_B FXXM_B			
			5" Part No.	4-1/2" Part No.	4" Part No.	3-1/2" Part No.
1	PISTON	2	9FY350	FX0350	FD350	1FD350
2	RING-PISTON	See ()	65A3 (10)	65A47 (8)	65A33 (8)	65A9 (8)

Ref. No.	Name of Part	Qty.	Models FXXL_B FXXM_B	
			3" Part No.	2-1/2" Part No.
1	PISTON	2	2FD350	3FD350
2	RING-PISTON	See ()	65A14 (8)	65A44 (8)

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



325FXG799
(Ref. Drawing)

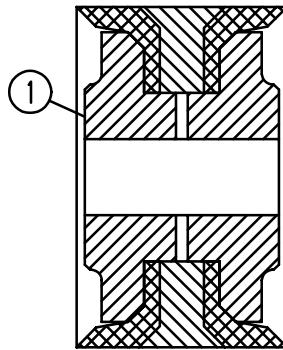
**CUP-TYPE PISTONS – IRON & STEEL FOR OIL AND GENERAL SERVICE
BRONZE FOR WATER SERVICE
API NO. 1 TAPER (OPTIONAL)**

Ref. No.	Name of Part	Qty.	Models FXXJ_B, FXXR_B & FXXN_B		
			7-1/2" Part No.	7-1/4" Part No.	7" Part No.
1	PISTON (Iron) Incl. following Cup . . .	2	P3APIL750	P3APIL725	P3APIL700
1	PISTON (Steel) Incl. following Cup . .	2	P3APIL750S	P3APIL725S	P3APIL700S
1	PISTON (Bronze) Incl. following Cup .	2	P3APIL750B	P3APIL725B	P3APIL700B
	CUP	4	60BB25	60BB24	60BB23

Ref. No.	Name of Part	Qty.	Models FXXJ_B, FXXR_B & FXXN_B		
			6-3/4" Part No.	6-1/2" Part No.	6" Part No.
1	PISTON (Iron) Incl. following Cup . . .	2	P3APIL675	P3APIL650	P3APIL600
1	PISTON (Steel) Incl. following Cup . .	2	P3APIL675S	P3APIL650S	P3APIL600S
1	PISTON (Bronze) Incl. following Cup .	2	P3APIL675B	P3APIL650B	P3APIL600B
	CUP	4	60BB22	60BB21	60BB19

Ref. No.	Name of Part	Qty.	Models FXXJ_B FXXK_B FXXN_B FXXR_B FXXS_B 5-1/2" Part No.		Models FXXJ_B FXXN_B FXXS_B FXXK_B FXXP_B FXXT_B FXXL_B FXXQ_B FXXU_B FXXM_B FXXR_B 5" Part No.	
			Part No.		Part No.	
1	PISTON (Iron) Incl. following Cup . . .	2	P3APIL550		P3APIL500	
1	PISTON (Steel) Incl. following Cup . .	2	P3APIL550S		P3APIL500S	
1	PISTON (Bronze) Incl. following Cup .	2	P3APIL550B		P3APIL500B	
	CUP	4	60BB17		60BB15	

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



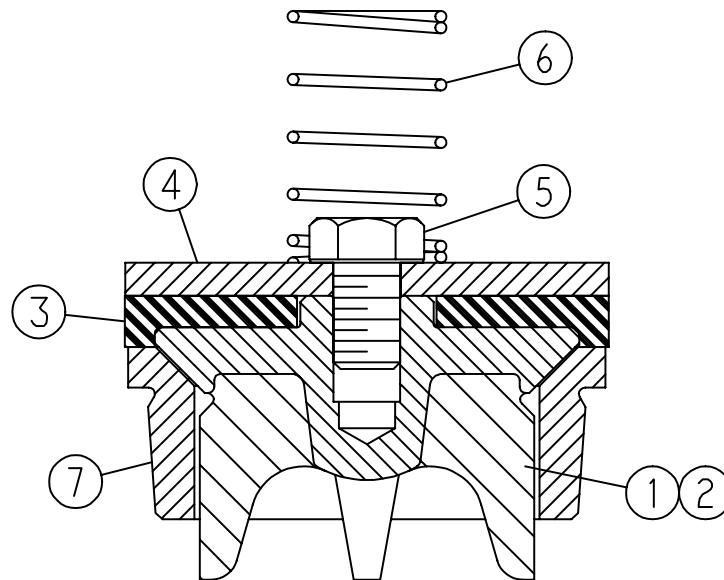
325FXG799
(Ref. Drawing)

**CUP-TYPE PISTONS – IRON & STEEL FOR OIL AND GENERAL SERVICE
BRONZE FOR WATER SERVICE (CONTINUED)
API NO. 1 TAPER (OPTIONAL)**

Ref. No.	Name of Part	Qty.	Models		
			FXXK_B	FXXP_B	FXXS_B
			FXXL_B	FXXQ_B	FXXT_B
			FXXM_B		FXXU_B
			4-1/2"	4-1/4"	3-1/2"
			Part No.	Part No.	Part No.
1	PISTON (Iron) Incl. following Cup . . .	2	P3APIL450	P3APIL400	P3APIL350
1	PISTON (Steel) Incl. following Cup . .	2	P3APIL450S	P3APIL400S	P3APIL350S
1	PISTON (Bronze) Incl. following Cup .	2	P3APIL450B	P3APIL400B	P3APIL350B
	CUP	4	60BB13	60BB11	60BB9

Ref. No.	Name of Part	Qty.	Models	
			FXXL_B	FXXQ_B
			FXXM_B	FXXT_B
			FXXP_B	FXXU_B
			3"	
			Part No.	
1	PISTON (Iron) Incl. following Cup . . .	2	P3APIL300	
1	PISTON (Steel) Incl. following Cup . .	2	P3APIL300S	
1	PISTON (Bronze) Incl. following Cup .	2	P3APIL300B	
	CUP	4	60BB7	

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



300FXG799
(Ref. Drawing)

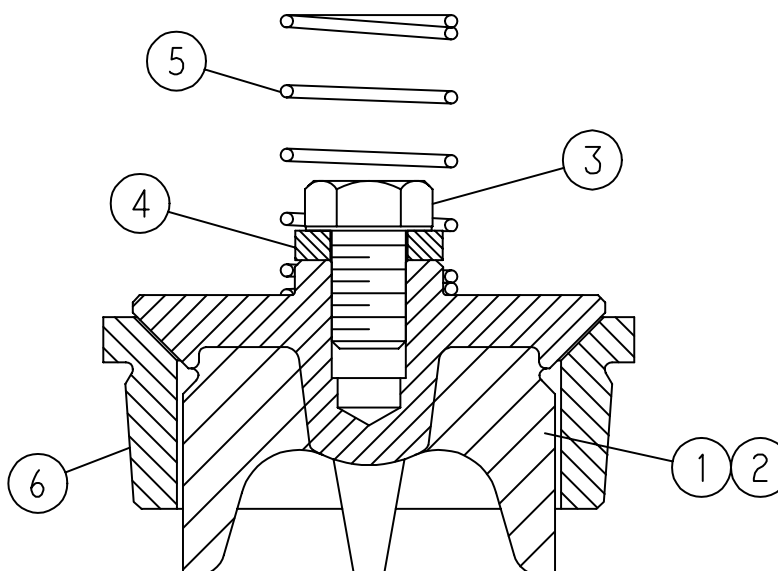
**WING GUIDED VALVE WITH RUBBER INSERT
(SLUSH, WATER, GROUT & CEMENT SERVICE)**

Ref. No.	Name of Part	Qty.	Model FXXQ_B Part No.	Models	
				FXXB_B FXXC_B FXXF_B FXXG_B Part No.	Models FXXD_B FXXH_B Part No.
			Bronze	Hardened Steel	
1	ASSEMBLY, Includes Ref. No. 2 thru 5	8	9EF206A	1FG928	11EF206A
2	VALVE-FLUID	8	9EF206	17FG206	11EF206
3	INSERT	8	5EF452	1FG452 **	5EF452
4	WASHER	8	95G35	95D49	95D53
5	SCREW	8	7FF156	5FF156	5FF156
6	SPRING	8	78D88	78A171	78A298
7	SEAT-VALVE	8	6PA39	11PA39	4PA39
*	GASKET, VALVE COVER	8	25AL36	25BE18	25AL36
*	VALVE COVER	8	9FC147	FD147	9FC147

* Not shown.

** Also available as 7FG452 Polyurethane Insert.

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



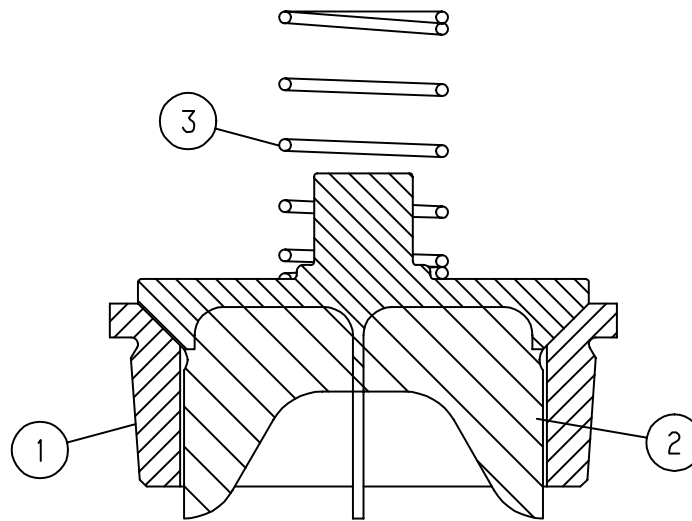
301FXG799
(Ref. Drawing)

**WING GUIDED VALVE
HARDENED STEEL WITHOUT INSERT
(OIL OR GENERAL SERVICE)**

Ref. No.	Name of Part	Qty.	Models		
			FXXK_B FXXL_B FXXS_B FXXT_B Part No.	FXXQ_B Part No.	FXXM_B FXXU_B Part No.
			Bronze	Hardened Steel	
1	FLUID VALVE ASSEMBLY, Includes Ref. No. 2 thru 5	8	9EF206B	17FG206C	11EF206B
2	VALVE-FLUID	8	9EF206	17FG206	11EF206
3	SCREW	8	7FF156	5FF156	5FF156
4	WASHER	8	95G38	95D136	95D136
5	SPRING	8	78A299	78A134	78A299
6	SEAT-VALVE	8	6PA39	11FG39	4PA39
*	VALVE COVER	8	9FC147	FD147	9FC147
*	GASKET	8	25AL36	25BE18	25AL36

* Not shown.

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



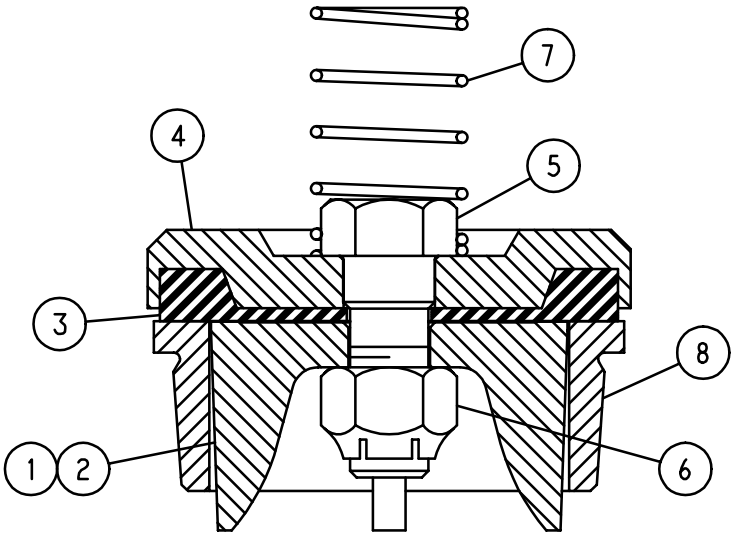
304FXG799
(Ref. Drawing)

**WING GUIDED VALVE
WITHOUT INSERT
(OIL, WATER OR GENERAL SERVICE)**

Ref. No.	Name of Part	Qty.	Models FXXK_B FXXL_B FXXP_B FXXS_B FXGT_B Part No.	Model FXXP_B Part No.
			Iron Fitted	Brass Fitted
1	SEAT-VALVE	8	FG39	FG39
2	VALVE-FLUID	8	FG69	1FG69
3	SPRING	8	78A172	78D72
*	VALVE COVER	8	FD147	FD147
*	GASKET, VALVE COVER	8	25BE18	25BE18

* Not shown.

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



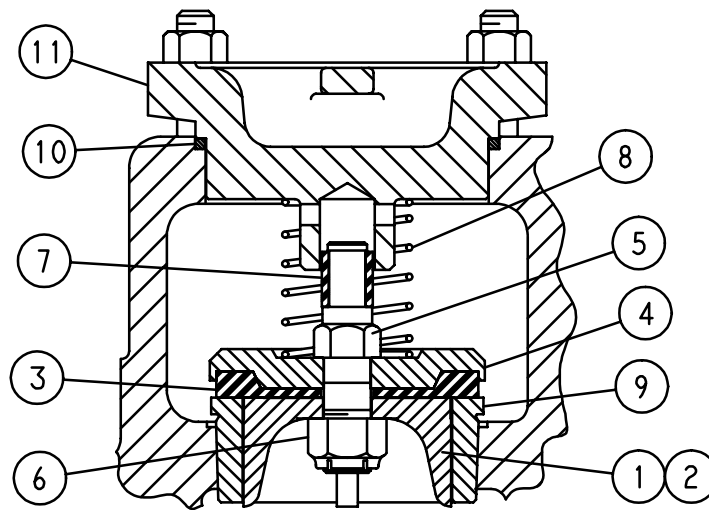
305FXG799
(Ref. Drawing)

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

Ref. No.	Name of Part	Qty.	Models
			Part No.
1	FLUID VALVE ASSEMBLY, Includes Reference Numbers 2 thru 6	8	200FGG482A
2	VALVE-FLUID	8	200FGG482
3	INSERT	8	200FGG106
4	WASHER	8	200FGG279
5	SCREW	8	200FGG655
6	LOCKNUT	8	50AF8
7	SPRING (Steel)	8	78A171
8	SEAT	8	200FGG039
*	VALVE COVER	8	FD147
*	GASKET, VALVE COVER	8	25BE18

* Not shown.

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

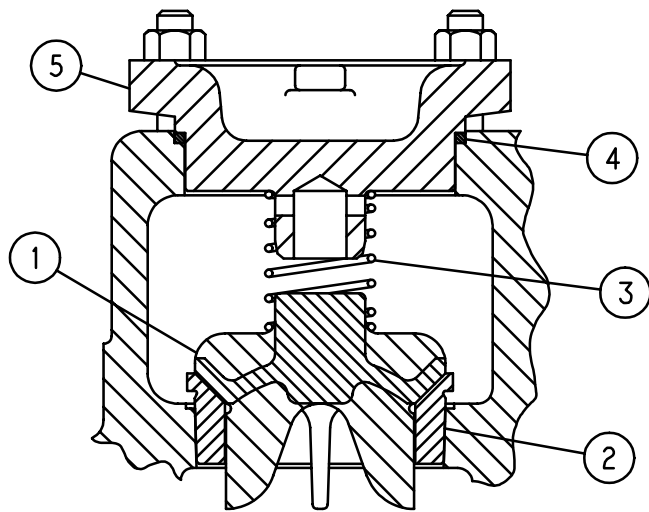


310FXX799
(Ref. Drawing)

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

Ref. No.	Name of Part	Qty.	Models FXXA_B FXXE_B Part No.
1	FLUID VALVE ASSEMBLY, Includes Reference Numbers 2 thru 6	8	200FYY482A
2	VALVE-FLUID	8	200FYY482
3	INSERT	8	200FYY106
4	WASHER	8	200FYY279
5	BOLT-VALVE	8	200FYY012
6	LOCKNUT	8	50V6
7	BUSHING	8	2013547
8	SPRING	8	78A169
9	SEAT-VALVE	8	200FYY039
10	GASKET, VALVE COVER	8	25BE32
11	VALVE COVER	8	1FY147

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

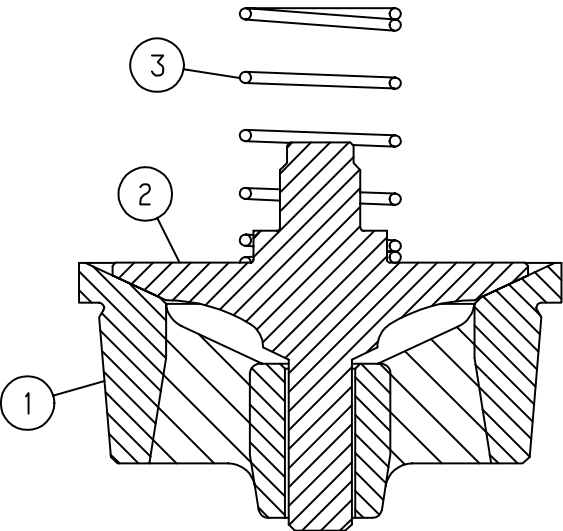


311FXX799
(Ref. Drawing)

WING GUIDED GRAVEL VALVE
BRONZE WITHOUT INSERT
(WATER SERVICE – STANDARD)

Ref. No.	Name of Part	Qty.	Model FXXN_B Part No.
1	VALVE-FLUID	8	2EN206
2	SEAT-VALVE	8	7EN39
3	SPRING	8	78D83
4	GASKET, VALVE COVER	8	25BE32
5	VALVE COVER	8	1FY147

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



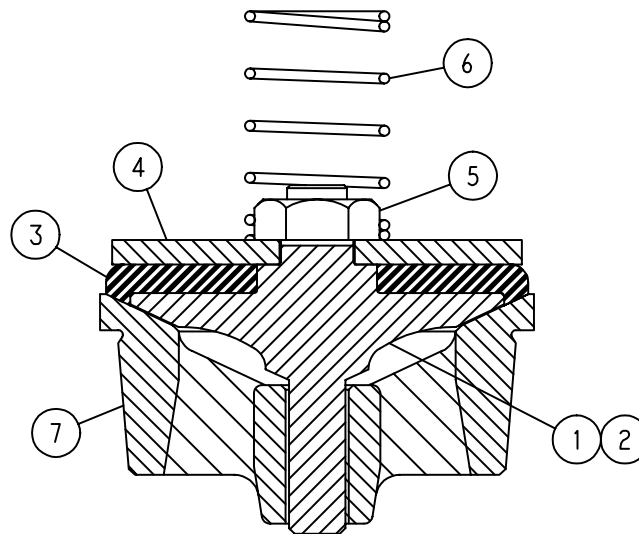
303FXG799
(Ref. Drawing)

CENTER GUIDED VALVE
HARDENED STEEL WITHOUT INSERT
(OIL OR GENERAL SERVICE)

Ref. No.	Name of Part	Qty.	Models	Models
			FXXK_B FXXL_B FXXS_B FXXT_B Part No.	FXXM_B FXXU_B Part No.
1	SEAT-VALVE	8	1FG451	PA451
2	VALVE COVER	8	3FG482	EF482
3	VALVE-FLUID	8	78A134	78A299
*	VALVE COVER	8	FD147	9FC147
*	GASKET, VALVE COVER	8	25BE18	25AL36

* Not shown.

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



302FXG799
(Ref. Drawing)

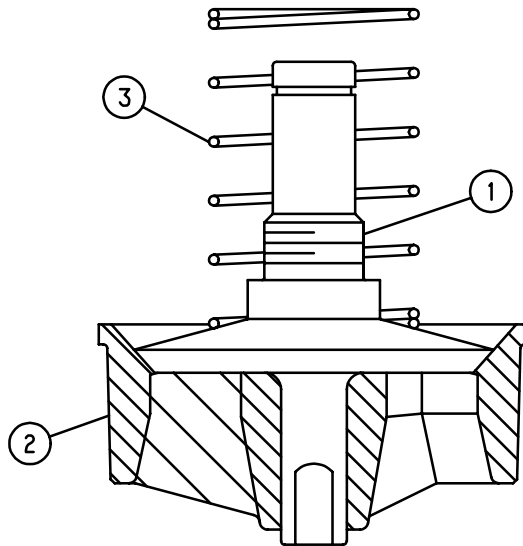
**CENTER GUIDED VALVE
HARDENED STEEL WITH RUBBER INSERT
(SLUSH, GROUT & CEMENT SERVICE)**

Ref. No.	Name of Part	Qty.	Models		
			FXXD_B FXXH_B Part No.	FXXB_B FXXC_B FXXF_B FXXG_B Part No.	FXXD_B FXXH_B Part No.
1	FLUID VALVE ASSEMBLY, Includes Reference Numbers 2 thru 5	8	EF482E **	1FG908	EF482G
2	VALVE-FLUID	8	EF482	3FG482	EF482
3	INSERT	8	6EF452	5FG452	7EF452
4	WASHER	8	3EF279	1FG279	3EF279
5	NUT	8	50V50	50G8	50V50
6	SPRING	8	78A298	78A171	78A298
7	SEAT-VALVE	8	PA451	1FG451	PA451
*	VALVE COVER	8	9FC147	FD147	9FC147
*	GASKET	8	25AL36	25BE18	25AL36

* Not shown.

** With Polyurethane Insert.

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



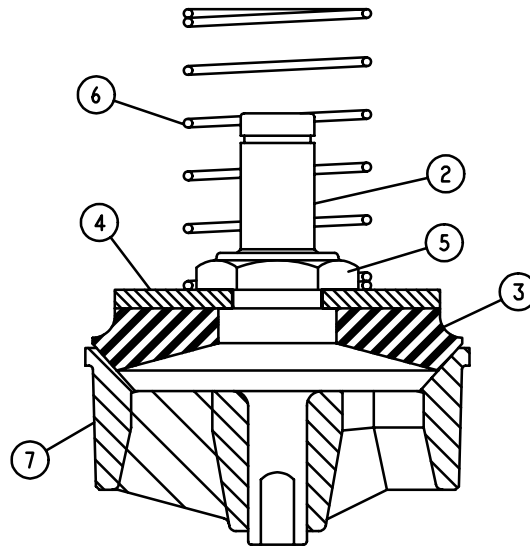
312FXX799
(Ref. Drawing)

FITTED-CENTER GUIDED VALVE
STEEL WITHOUT INSERT
(OIL OR GENERAL SERVICE – STANDARD)

Ref. No.	Name of Part	Qty.	Models FXXJ_B FXXR_B Part No.
1	FLUID VALVE	8	202PZL482
2	SEAT-VALVE	8	201FYY039
3	SPRING	8	78A169
*	VALVE COVER	8	FY147
*	GASKET	8	25U32

* Not shown.

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



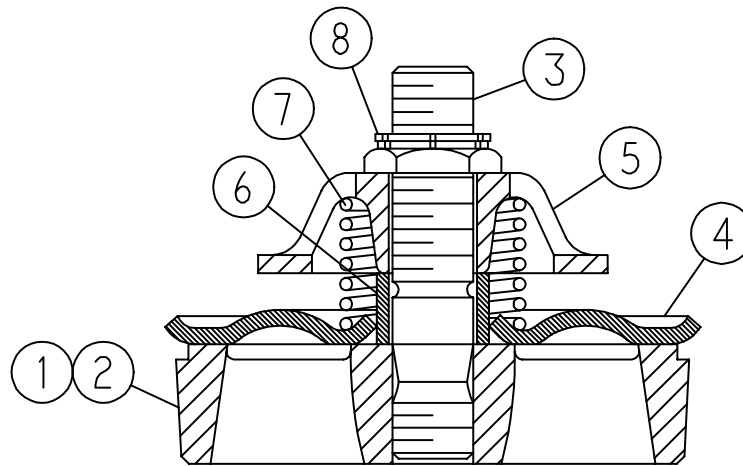
313FXX799
(Ref. Drawing)

**FITTED-CENTER GUIDED VALVE
STEEL WITH CARBOXYLATED RUBBER INSERT
(SLUSH, GROUT & CEMENT SERVICE)**

Ref. No.	Name of Part	Qty.	Models FXXA_B FXXE_B Part No.
1	FLUID VALVE ASSEMBLY, Includes Reference Numbers 2 thru 5	8	202PZL482B
2	VALVE-FLUID	8	202PZL482
3	INSERT	8	202PZL106
4	WASHER	8	201PZL279
5	LOCKNUT	8	50V27
6	SPRING	8	78A139
7	SEAT-VALVE	8	201FYY039
*	GASKET	8	25BE32
*	VALVE COVER	8	FY147

* Not shown.

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



326FXG799
(Ref. Drawing)

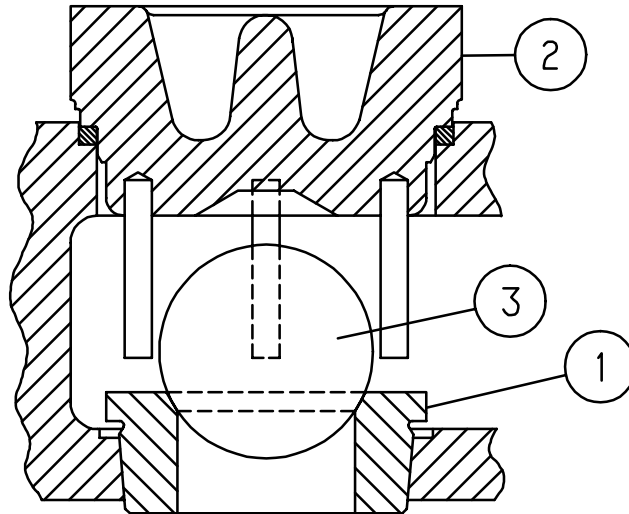
**DURABLA VALVE
STAINLESS STEEL
GENERAL SERVICE (OPTIONAL)**

Ref. No.	Name of Part	Qty.	Model FXXR_B Part No.	Models FXXS_B FXXT_B Part No.	Model FXXU_B Part No.
1	FLUID VALVE ASSEMBLY, Includes Reference Numbers 2 thru 8	8	1FO1602	2FG1602	2PA1602
2	VALVE SEAT ASSEMBLY	8	2109269	18FG39A **	9PA39A **
3	STUD	8	2109266	79AG14 **	79AG15 **
4	DISC	8	2109264	90AN23	90AN21
5	GUARD	8	2109265	50AK11	50AK11
6	SLEEVE	8	2109267	80K10	80K10
7	SPRING	8	78R7	78R3	78R3
8	NUT	8	2109268	50AK14	50AK14
*	VALVE COVER	8	3FY147	4FD147	201FCC147
*	GASKET	8	25U32	25BE18	25AL36

* Not shown.

** Stud furnished with Seat may be purchased separately.

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



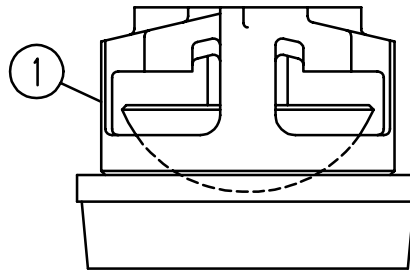
306FXG799
(Ref. Drawing)

**DELRIN BALL VALVE
GENERAL SERVICE (OPTIONAL)**

Ref. No.	Name of Part	Qty.	Models FXXS_B FXXT_B Part No.	Models FXXS_B FXXT_B Part No.
			Steel	Stainless Steel
1	SEAT-VALVE	8	200FDD039	201FDD039
2	COVER-VALVE	8	200FDD147A	200FDD147A
3	VALVE-BALL, DELRIN	8	200FDD481	200FDD481
*	GASKET, VALVE COVER	8	25BE18	25BE18

* Not shown.

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



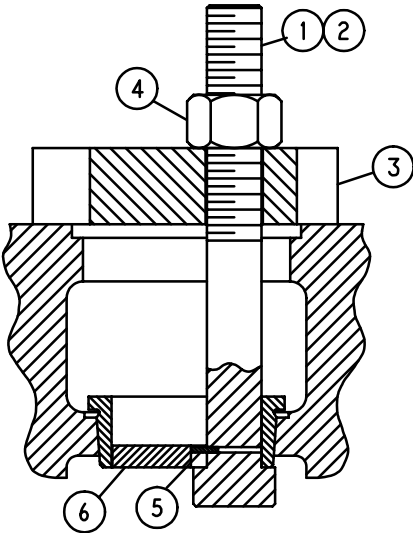
302FXG810
(Ref. Drawing)

BALL GUIDED SPHERICAL VALVE
OIL, WATER OR GENERAL SERVICE (OPTIONAL)

Ref. No.	Name of Part	Qty.	Models		
			FXXJ_B FXXN_B FXXR_B Part No.	FXXK_B FXXL_B FXXP_B FXXS_B FXXT_B Part No.	FXXM_B FXXQ_B FXXU_B Part No.
1	FLUID VALVE ASSEMBLY (Steel)	8	3FO1614	3FG1614	3PA1614
1	FLUID VALVE ASSEMBLY (Stainless Steel) ..	8	6FO1614	6FG1614	6PA1614
1	FLUID VALVE ASSEMBLY (Bronze)	8	FO1614	FG1614	PA1614
*	VALVE COVER	8	3FY147	4FD147	201FCC147
*	GASKET, VALVE COVER	8	25U32	25BE18	25AL36

* Not shown.

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



316FXG799
(Ref. Drawing)

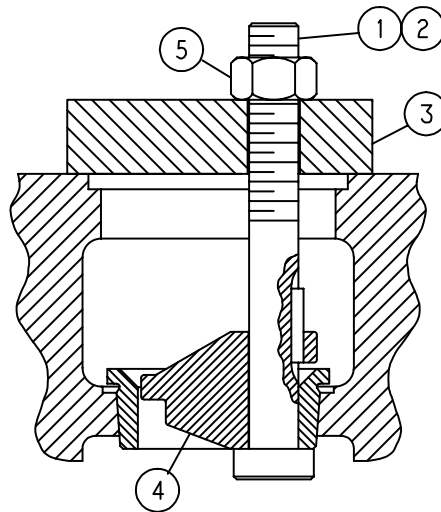
VALVE SEAT PULLER
WING-GUIDED & GRAVEL TYPE
(Optional Equipment)

Models
FXXB_B
FXXC_B
FXXF_B
FXXG_B
FXXK_B
FXXL_B
FXXP_B
FXXS_B
FXXT_B

Models
FXXA_B FXXP_B
FXXE_B FXXS_B
FXXJ_B

Ref. No.	Name of Part	Qty.	Part No.	Part No.	Part No.
			Wing Guided	Gravel Type	Gravel Type
1	PULLER ASSEMBLY, Valve Seat, Includes Reference Numbers 2 thru 6	1	201FYY219A	202FYY219A	200FGG219A
2	BOLT-PULLER	8	2015079	2015079	2015079
3	PLATE-PULLER	8	3AUX292	3AUX292	3AUX292
4	NUT	8	50T62	50T62	50T62
5	PIN-SPRING ROLL	8	62R40	62R40	62R40
6	PULLER, Valve Seat	8	201FYY219	202FYY219	200FGG219

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



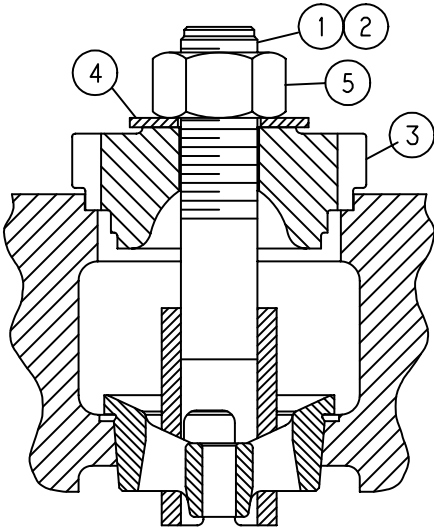
317FXG799
(Ref. Drawing)

VALVE SEAT PULLER – WING GUIDED & DELRIN BALL
(Optional Equipment)

Ref. No.	Name of Part	Qty.	Models		Models
			FXXB_B FXXC_B FXXF_B FXXG_B FXXK_B	FXXL_B FXXP_B FXXS_B FXXT_B	FXXD_B FXXH_B FXXM_B FXXQ_B FXXU_B
			Part No.	Part No.	Part No.
			Wing Guided	Delrin Ball	Wing Guided
1	PULLER ASSEMBLY, Includes Reference Numbers 2 thru 5	1	1AUX545	FDD67544	2015080
2	BOLT–PULLER	1	2AUX325	2AUX235	2015079
3	PLATE–PULLER	1	2AUX292	2AUX292	3AUX292
4	PULLER	1	3AUX291	200FDD219	2015078
5	NUT	1	50C11	50C11	50T62
*	PIN	1	None	None	62R40

* Not shown.

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



318FXG799
(Ref. Drawing)

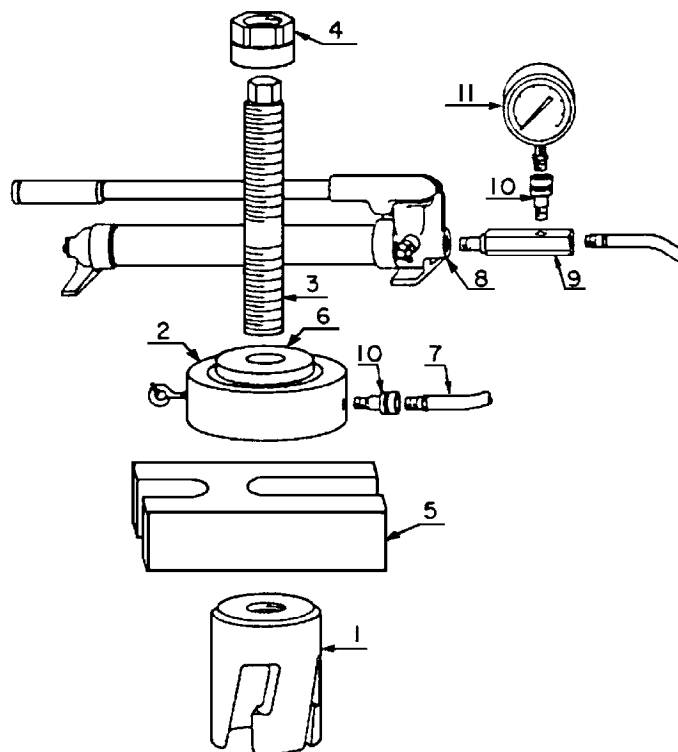
VALVE SEAT PULLER – CENTER GUIDED
(Optional Equipment)

Models

FXXB_B	FXXD_B
FXXC_B	FXXH_B
FXXF_B	FXXM_B
FXXG_B	FXXQ_B
FXXK_B	FXXU_B
FXXL_B	FXXS_B
FXXP_B	FXXT_B

Ref. No.	Name of Part	Qty.	Part No.
1	PULLER ASSEMBLY, Includes Ref. Nos. 2 thru 5	1	3AUX545
2	PULLER	1	AUX549
3	PLATE-PULLER	1	4AUX292
4	WASHER	1	95A22
5	NUT	1	50T161

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



**VALVE SEAT PULLER – CENTER GUIDED TYPE
(OPTIONAL EQUIPMENT)**

Ref. No.	Name of Part	Qty.	Models
			FXXA FXXE FXXJ FXXR Part No.
1	HEAD (Not Included with 100E12 Puller)	1	100E13
	VALVE SEAT PULLER ASSEMBLY, Includes Reference Numbers 2 thru 11	1	100E12
2	HYDRAULIC JACK	1	2116728
3	CENTER STEM	1	2117314
4	CENTER STEM NUT	1	2117315
5	PULLER H BAR BASE	1	2116727
6	CENTER BUSHING	1	2117316
*	CENTER BUSHING	1	2117317
7	HYDRAULIC HOSE	1	2117318
8	HYDRAULIC PUMP	1	2117319
9	GAUGE ADAPTOR	1	2117320
10	GAUGE COUPLER	1	2117321
*	GAUGE COUPLER	1	2117322
11	GAUGE 170 TON	1	2117323
*	CARRYING CASE	1	21170555

* Not shown.

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



300FXG810
(Ref. Drawing)

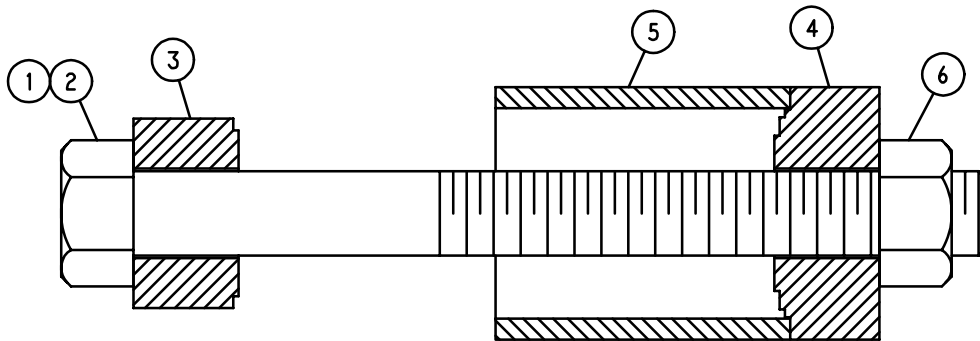
LINER PULLER
(Optional Equipment)

Ref. No.	Name of Part	Qty.	Models	Models	Models
			FXXD_B FXXH_B FXXM_B FXXQ_B FXXU_B Part No.	FXXC_B FXXG_B FXXL_B FXXP_B FXXT_B Part No.	FXXB_B FXXF_B FXXK_B FXXS_B Part No.
1	PULLER ASSEMBLY, Includes Reference Numbers 2 thru 6	1	EF284	FD284	1FD345A
2	BOLT-PULLER	1	FC344	FD344	FD344
3	TOOL, Liner Puller	1	FC346	FD346	FD346
4	NUT	1	50B8	50B8	50B8
5	PIN	1	62A93	62A93	62A93
6	WASHER	1	95A8	95A8	95A8
7	PULLER	1	EF345	EF345	1FD345

LINER PULLER
(Optional Equipment)

Ref. No.	Name of Part	Qty.	Models
			FXXA_B FXXE_B FXXJ_B FXXN_B FXXR_B Part No.
1	PULLER LINER (Mechanical)	1	100E18

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



321FXG799
(Ref. Drawing)

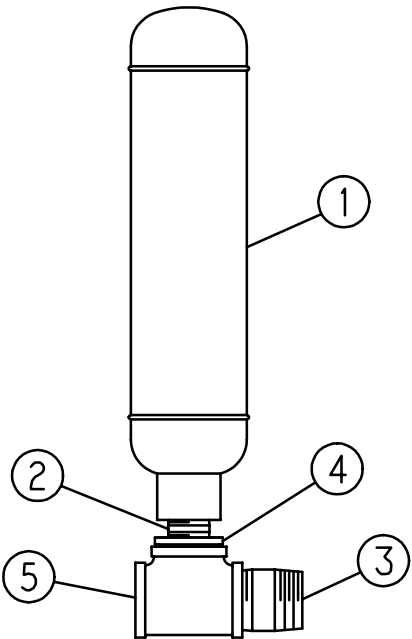
CROSSHEAD PIN BUSHING PULLER
(Optional Equipment)

Ref. No.	Name of Part	Qty.	All FXX Models Part No.
1	PULLER ASSEMBLY, Includes Reference Numbers 2 thru 6	1	FXX1585
2	BOLT-PULLER	1	FXX1277
3	PLATE-PULLER	1	FXX1279
4	PLATE-PULLER	1	FXX1278
5	BUSHING	1	FXX1276
6	NUT	1	50T161

RELIEF VALVES
(Optional Equipment)

Name of Part	Qty.	All FXX Models Part No.
RELIEF VALVE (2" MPT) 125# – 150#	1	5825319
RELIEF VALVE (2" MPT) 500# – 1375#	1	187922

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



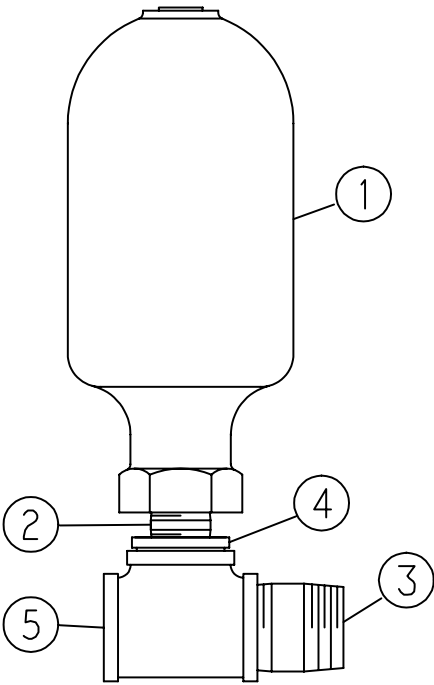
301FXX810
(Ref. Drawing)

SURGE CHAMBER – DISCHARGE
(Optional Equipment)

Models
FXXD_B
FXXH_B
FXXM_B
FXXQ_B
FXXU_B
Part No.

Ref. No.	Name of Part	Qty.	Part No.
1	CHAMBER–SURGE	1	1FC44
2	NIPPLE	1	63V32X24
3	NIPPLE	1	63V48X40
4	BUSHING–PIPE	1	64E109
5	TEE	1	64G30

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



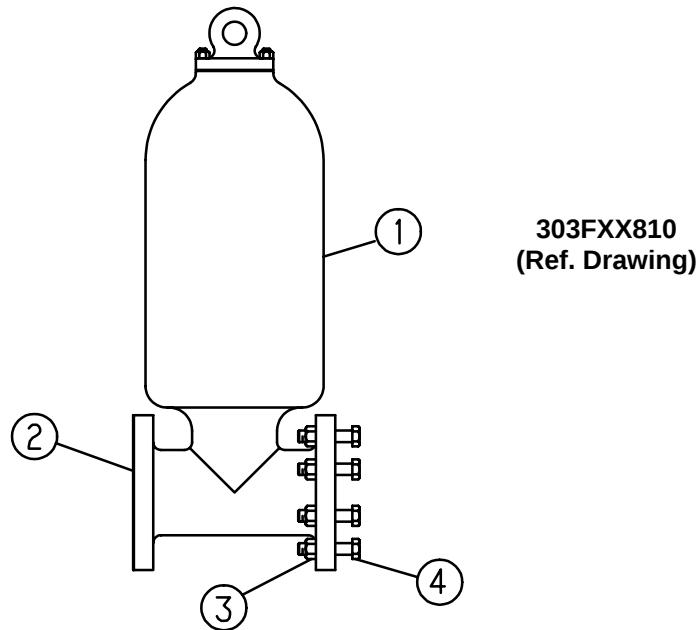
302FXX810
(Ref. Drawing)

SURGE CHAMBER – DISCHARGE
(Optional Equipment)

Models	
FXXB_B	FXXC_B
FXXF_B	FXXG_B
FXXK_B	FXXL_B
FXXS_B	FXXP_B
	FXXT_B

Ref. No.	Name of Part	Qty.	Part No.
1	CHAMBER–SURGE, Includes next item	1	EW44A
	PLUG	1	64B6
2	NIPPLE	1	63U32X24
3	NIPPLE	1	63U48X40
4	BUSHING–PIPE	1	64E109
5	TEE	1	64G30

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



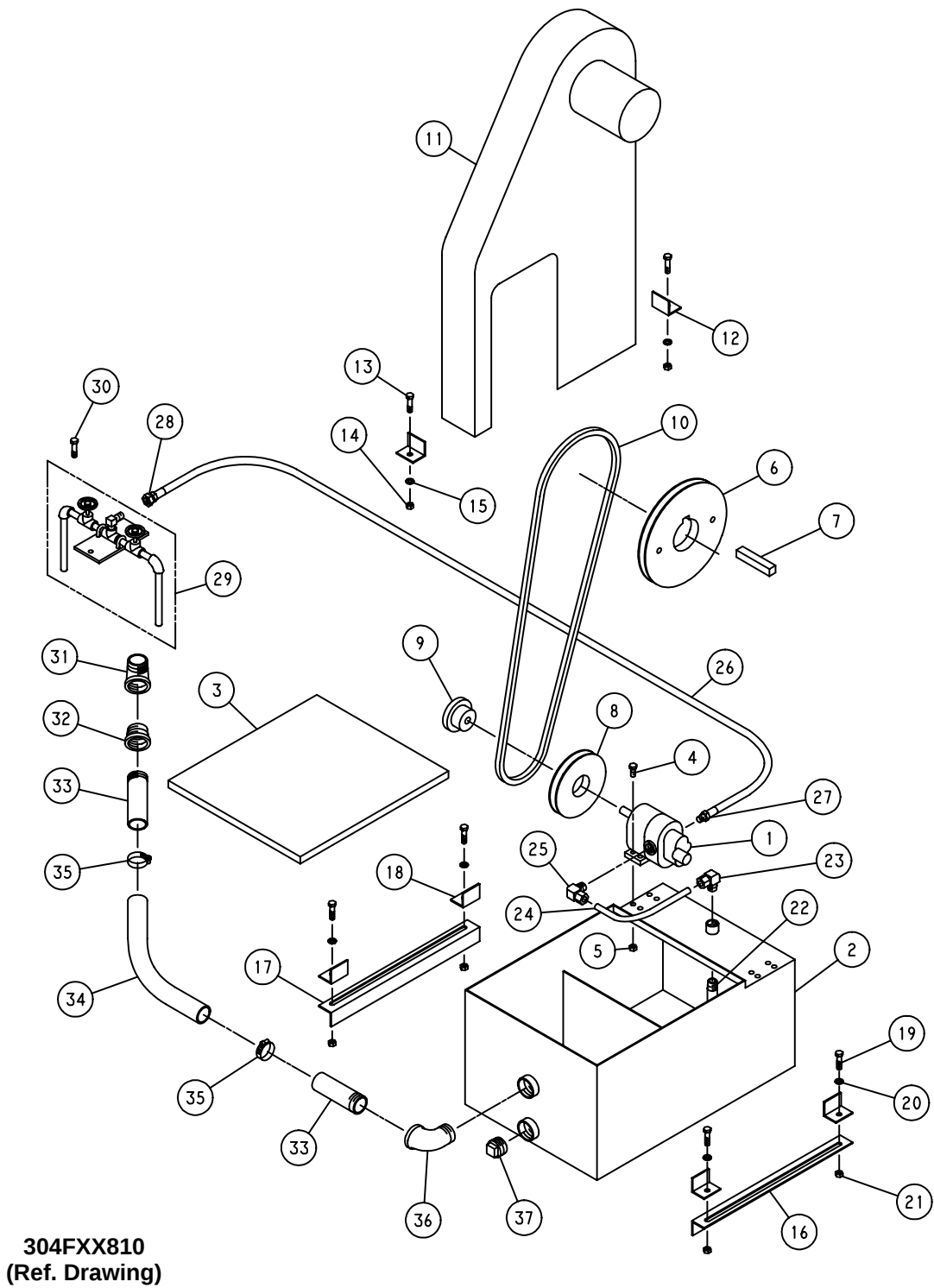
303FXX810
(Ref. Drawing)

SURGE CHAMBER – DISCHARGE
(Optional Equipment)

Models
FXXA_B
FXXE_B
FXXJ_B
FXXN_B
FXXR_B
Part No.

Ref. No.	Name of Part	Qty.	Part No.
1	CHAMBER–SURGE ASSEMBLY, Includes next four items	1	2FY44A
	NUT, Top Flange Stud	4	50B5
	STUD, Top Flange	4	79A238
	FLANGE–Top	1	BF117
	GASKET, Top Flange	1	25C539
2	GASKET	1	25C320N
3	NUT	8	50B8
4	SCREW	8	655EG140

ROD OILER (Optional Equipment)



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

**ROD OILER
(Optional Equipment)**

Ref. No.	Name of Part	Qty.	Models FXXA_B FXXE_B FXXJ_B FXXN_B FXXR_B Part No.	Models
				FXXB_B FXXC_B FXXD_B FXXF_B FXXG_B FXXH_B FXXK_B FXXL_B FXXM_B FXXP_B FXXQ_B FXXS_B FXXT_B FXXU_B Part No.
1	PUMP-OIL	1	46C14	46C14
2	TANK-LUB OIL	1	200FXD250	200FXD250
3	COVER-TANK	1	200FXD249	200FXD249
4	SCREW, Pump to Tank	4	75A130	75A130
5	NUT, Pump to Tank Screw	4	50B3	50B3
6	SHEAVE-AUXILIARY	1	158106	158106
7	KEY, Sheave to Jackshaft	1	118518	118518
8	SHEAVE-AUXILIARY	1	141322	141322
9	BUSHING-SHEAVE	1	22F09SH	22F09SH
10	BELT (or Belt Set)	1	13C84	13C83
11	GUARD-AUXILIARY	1	200FXX240	201FXX240
12	LUG, To Mount Auxiliary Guard	2	5400840	5400840
13	SCREW, To Mount Auxiliary Guard	2	655ED060	655ED060
14	WASHER, To Mount Auxiliary Guard	2	95B3	95B3
15	NUT, To Mount Auxiliary Guard	2	50B3	50B3
16	SUPPORT, Lub Oil Tank (Long)	1	104170	104170
17	SUPPORT, Lub Oil Tank (Short)	1	5400839	5400839
18	LUG, To Mount Lub Oil Tank	4	5400840	5400840
19	SCREW, To Mount Lub Oil Tank	4	655ED060	655ED060
20	WASHER, To Mount Lub Oil Tank	4	95B3	95B3
21	NUT, To Mount Lub Oil Tank	4	50B3	50B3
22	NIPPLE	1	63F14	63F14
23	ELBOW	1	86N13	86N13
24	TUBE	18"	85D8B	85D8B
25	ELBOW	1	86N6	86N6
26	HOSE	144"	R5F	R5F
27	COUPLING-HOSE	1	29Q154	29Q154
28	COUPLING-HOSE	1	29Q145	29Q145
29	LUBE PIPING ASSEMBLY	1	164204	164204
30	SCREW, Lubricator Assembly to Pump	2	655ED020	655ED020
31	ELBOW-PIPE	1	64D9	64D9
32	BUSHING-PIPE	1	64E31	64E31
33	NIPPLE	2	63AJ20X50	63AJ20X50
34	HOSE	1	2009150	2009150
35	CLAMP	2	29B33	29B33
36	ELBOW	1	64D7	64D7
37	PLUG	2	64A7	64A7
*	COVER	1	202FXY225	202FXY225
*	COVER	1	203FXY225	203FXY225
*	STUD	6	79A466	79A466
*	NUT	6	50H1	50H1

* Not shown.

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

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For additional information contact your local representative or
Gardner Denver Machinery Inc., Customer Service Department,
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