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CATALOG #59 EFFECTIVE OCTOBER 16, 2017



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MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
LVPL038MPTV	3/8" FEMALE PUSH LOCK X 3/8" NPT MICRO VALVE FKM	150	3/8"	3/8"	1
LVPL038025MPTV	3/8" FEMALE PUSH LOCK X 1/4" NPT MICRO VALVE FKM	150	1/4"	3/8"	1

2" MANIFOLD T LINE STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
MLST150-80V	2" MANIFOLD T STRAINER W/80 MESH SCREEN WITH FKM GASKETS	225	1

2" MANIFOLD SWEEP

PART NO	DESCRIPTION	MAX PSI	QTY
M220SWPG90	2" FULL PORT FLANGE X FLANGE SWEEP W/ 1/4" GAUGE PORT	300	1

COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
M220CPG3G	2" X 2" FULL PORT FLANGE X 3" LONG WITH 1/2" GAUGE PORT	225	1
M300CPG12	3" X 3" FULL PORT FLANGE X 12" LONG	225	1
M300CPG12G	3" X 3" FULL PORT FLANGE X 12" LONG WITH 1/2" GAUGE PORT	225	1

45° HOSE BARB ELBOW

PART NO	DESCRIPTION	MAX PSI	QTY
M200125BRB45	2" FLANGE X 1 1/4" 45° HOSE BARB ELBOW	225	1

NEW PRODUCTS

2" FULL PORT POLY BSP DRY-MATES

FEATURES

- Lightweight
- Minimal fluid spillage
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Unrestricted 2" flow
- Patented double ball design with cam lever connection
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 2" = 3ml



2" FULL PORT POLY BSP DRY-MATES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM220DB	2" FEMALE X FPT NPT	225	2"	2"	1
DM220AB	2" MALE BSP X FPT	225	2"	2"	1

2" POLY PUMPS WITH ROLL CAGES

FEATURES

- Precision molded construction
- Lightweight
- Corrosion resistant
- Superior design
- Low maintenance
- EPDM standard, FKM available
- Engine warranty service available at authorized Briggs & Stratton® and Honda® dealers



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP

2" POLY PUMPS W/GAS ENGINES & ROLL CAGES

PART NO	DESCRIPTION	HP	QTY
200PH-5RC	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ROLL CAGE	5.5	1
200PH-5ERC	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START W/ ROLL CAGE	5.5	1
200P6PRORC	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START W/ ROLL CAGE	6.5	1



POLY MANIFOLD WET SEAL PUMPS W/HYDRAULIC MOTOR

PART NO	DESCRIPTION	HP	QTY
M220PHYW	2" MANIFOLD POLY WET SEAL PUMP W/ HYDRAULIC MOTOR	12	1



Note: See page 150 for features

M332 SERIES CAST IRON MANIFOLD WET SEAL PUMPS WITHOUT HYDRAULIC MOTOR

PART NO	DESCRIPTION	HP	QTY
M332PIHAW	3" MANIFOLD CAST IRON WET SEAL PUMP WITH OUT HYDRAULIC MOTOR	N/A	1



3" POLY WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
301POWW	3" POLY WET SEAL PUMP ONLY FOR 1" SHAFT & 4 VANE IMPELLER, FKM SEALS	N/A	1

2" POLYPROPYLENE MANIFOLD WET SEAL PUMPS WITH HYDRAULIC MOTORS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber
- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP

3" POLY WET SEAL PUMP ONLY

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber.
- Pump end separated from engine
- V-shaped for quicker priming
- Engine warranty service available at authorized Briggs & Stratton® and Honda® dealers
- Due to weight and size of pumps, Banjo ships these by truck only.



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

VALVES

1/4" - 1/2" POLY MICRO VALVES

FEATURES

- 90° rotating handle
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Standard FKM seats and O-Rings.

John Guest®
Fitting

The brand "John Guest" is a registered trademark of John Guest International Limited.



MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
LV025V	1/4" FEMALE NPT MICRO VALVE	300	1/4"	3/8"	1
LV038V	3/8" FEMALE NPT MICRO VALVE	300	3/8"	3/8"	1
LV050V	1/2" FEMALE NPT MICRO VALVE	300	1/2"	15/32"	1
LV050SLV	1/2" SIDE LOAD MICRO VALVE	300	1/2"	1/2"	1

MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU	QTY
LVHB025V	1/4" HOSE BARB MICRO VALVE	300	1/4"	3/8"	1
LVHB038V	3/8" HOSE BARB MICRO VALVE	300	3/8"	3/8"	1
LVHB050V	1/2" HOSE BARB MICRO VALVE	300	1/2"	3/8"	1
LVHB075V	3/4" HOSE BARB MICRO VALVE	300	3/4"	15/32"	1

MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
LV025MTV	1/4" FEMALE X MALE NPT MICRO VALVE	300	1/4"	3/8"	1
LV038MTV	3/8" FEMALE X MALE NPT MICRO VALVE	300	3/8"	3/8"	1
LV038050MTV	3/8" FEMALE X 1/2" MALE NPT MICRO VALVE	300	3/8" x 1/2"	3/8"	1
LV050MTV	1/2" FEMALE X MALE NPT MICRO VALVE	300	1/2"	15/32"	1
LV050100MTV	1/2" FEMALE X 1" MALE NPT MICRO VALVE	300	1/2"	15/32"	1

MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
LVHB038050MTV	3/8" HOSE BARB X 1/2" MALE NPT MICRO VALVE	300	1/2"	3/8"	1
LVHB075MTV	3/4" HOSE BARB X 3/4" MALE NPT MICRO VALVE	300	3/4"	1/2"	1
LVHB075100MTV	3/4" HOSE BARB X 1" MALE NPT MICRO VALVE	300	1"	15/32"	1

MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
LVPL038MPTV	3/8" FEMALE PUSH LOCK X 3/8" NPT MICRO VALVE FKM	150	3/8"	3/8"	1
LVPL038025MPTV	3/8" FEMALE PUSH LOCK X 1/4" NPT MICRO VALVE FKM	150	1/4"	3/8"	1

MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
LVPL025V	1/4" FEMALE PUSH LOCK MICRO VALVE	150	1/4"	3/8"	1
LVPL038V	3/8" FEMALE PUSH LOCK MICRO VALVE	150	3/8"	3/8"	1
LVPL050V	1/2" FEMALE PUSH LOCK MICRO VALVE	150	1/2"	15/32"	1

MICRO VALVES

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	QTY
MLV100V	1" MANIFOLD MICRO VALVE	300	1"	1/2"	1

½" - 2" 4 BOLTED VALVES



4 BOLTED VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU	QTY	REPLACEMENT HANDLE	REPAIR KIT
V050	½" FULL PORT VALVE	300	½"	¾"	24/box	V10153A	V07200
V075	¾" FULL PORT VALVE	300	¾"	¾"	24/box	V10153A	V07200
V100	1" STANDARD PORT VALVE	225	1"	¾"	24/box	V10153A	V07200
V100FP	1" FULL PORT VALVE	300	1"	1"	24/box	V10153A	V10200
V125	1¼" STANDARD PORT VALVE	300	1¼"	1"	24/box	V10153A	V10200
V125FP	1¼" FULL PORT VALVE	225	1¼"	1½"	24/box	V20153	V20200
V150	1½" FULL PORT VALVE	225	1½"	1½"	24/box	V20153	V20200
V200	2" STANDARD PORT VALVE	225	2"	1½"	24/box	V20153	V20200

FEATURES

- FKM seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Stainless steel bolts.

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



V25270

V25271

VALVE ACCESSORIES

FEATURES

- 304 stainless steel construction
- Installs under valve handle
- Comes complete with handle and locking device
- Padlock not included

VALVE ACCESSORIES

PART NO	DESCRIPTION	FITS VALVES	QTY
VL20153	LOCKING DEVICE	V125, V150, V200	1
V10270	STRAIGHT MOUNTING BRACKET	V100FP, V125	1
V10271	90° MOUNTING BRACKET	V100FP, V125	1
V25270	STRAIGHT MOUNTING BRACKET	V125FP, V150, V200	1
V25271	90° MOUNTING BRACKET	V125FP, V150, V200	1
V10153138	1" X 1⅝" HANDLE OFFSET	V100FP, V125	1
V20153138	2" FP X 1⅝" HANDLE OFFSET	V125FP, V150, V200	1
V25153138	2" FP X 1⅝" HANDLE OFFSET	V200FP	1



VALVES

2"-4" 6 BOLTED VALVES

FEATURES

- FKM seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Stainless steel bolts.

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



6 BOLTED VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
V200FP	2" FULL PORT VALVE	225	2"	2"	8/box	V25153	V25200
V300	3" STANDARD PORT VALVE	225	3"	2½"	8/box	V25153	V25200
V300FP	3" FULL PORT VALVE	200	3"	3"	6/box	V25153	V25200
V400	4" STANDARD PORT VALVE	100	4"	3½"	4/box	V25153	V25200
VFMT200FP	2" FULL PORT VALVE W/ F ADAPTER	225	2"	2"	6/box	V25153	V25200

VALVE ACCESSORIES

FEATURES

- Stainless steel hardware
- Locks in open and closed positions
- Locking handle replaces standard handle (sold separately)
- Padlock not included



VALVE ACCESSORIES

PART NO	DESCRIPTION	FITS VALVES	QTY
VL25153	LOCKING HANDLE	V200FP, V300, V300FP, V400, VFMT200FP, VFMT200FPSH	1
V25270	STRAIGHT MOUNTING BRACKET	V200FP, V300, V300FP, V400, VFMT200FP, VFMT200FPSH	1
V25271	90° MOUNTING BRACKET	V200FP, V300, V300FP, V400, VFMT200FP, VFMT200FPSH	1



4 BOLTED FULL PORT VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VFMT204FP	2" FULL PORT VALVE MALE NPT X MALE ADAPTER	150	2"	2"	6/box	V25153	V25200
V204FP	2" FULL PORT VALVE	150	2"	2"	8/box	V25153	V25200

2" FULL PORT BOLTED BALL VALVES

FEATURES

- FKM seals
- Stainless steel bolts
- PTFE self-lubricating stem bushings and seats cannot stick or bind
- Precision molded in fiberglass reinforced polypropylene
- Self-aligning ball moves freely against the PTFE seats for smoother operation
- Valve opens and closes with very little pressure on the handle
- Ball is diamond turned after molding to make it spherically perfect, which provides precise contact between ball and seats

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



4 BOLTED FULL PORT VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSF200FPAF	2" FULL PORT VALVE MALE ADAPTER X 2" ANSI FLANGE	200	2"	2"	6/box	V25153SH	VS25200
VSMT200FPAF	2" FULL PORT VALVE	200	2"	2"	6/box	V25153SH	VS25200

2" FULL PORT ANSI FLANGE BOLTED BALL VALVES

FEATURES

- 100% PTFE seats
- FKM seals
- Glass-filled polypropylene
- Unique compact design
- Lightweight
- Gaskets featured on page 73

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring

VALVES

2" STANDARD PORT STUBBY BALL VALVES

FEATURES

- Stainless steel bolts
- Glass reinforced polypropylene
- Multiple design options
- Unique patented compact design
- Lightweight
- All PTFE seals

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



2" STANDARD PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSF200	2" MALE ADAPTER X 2" FEMALE NPT	100	2"	1½"	24/box	VS20152SH	VS20200
VSMT200	2" MALE NPT X 2" FEMALE NPT	100	2"	1½"	24/box	VS20152SH	VS20200
VSFMT200	2" MALE ADAPTER X 2" MALE NPT	225	2"	1½"	24/box	VS20152SH	VS20200
VSFHB200	2" MALE ADAPTER X 2" HOSE BARB	100	2"	1½"	24/box	VS20152SH	VS20200

2" FULL PORT STUBBY BALL VALVES



FEATURES

- Stainless steel bolts
- 100% PTFE ball seats
- Glass reinforced polypropylene
- Unique patented compact design
- Lightweight
- FKM body seals

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring

2" STANDARD PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSMT204FP	2" MALE NPT X 2" FEMALE NPT	200	2"	2"	18/BOX	VS25153	VS25200
VSF204FP	2" MALE ADAPTER X 2" FEMALE NPT	100	2"	2"	18/BOX	VS25153	VS25200
VS204FP	2" FEMALE NPT X 2" FEMALE NPT	225	2"	2"	18/BOX	VS25153	VS25200
VSFMT204FP	2" MALE ADAPTER X 2" MALE NPT	150	2"	2"	18/BOX	VS25153	VS25200
VSFMT204HSFP	2" FP MALE ADAPTER X 2" MALE NPT W/ SS BALL, STEM & HANDLE	150	2"	2"	18/BOX	VS25153SS	VSSH25200

VALVES

3" STANDARD PORT STUBBY BALL VALVES

FEATURES

- Stainless steel bolts
- Glass reinforced polypropylene
- FKM body seals
- Unique patented compact design
- Lightweight
- All PTFE seals

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



3" STANDARD PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE STRAIGHT	REPLACEMENT HANDLE SHORT	REPAIR KIT
VSF300	3" FEMALE NPT X 3" MALE ADAPTER	100	3"	2½"	6/box	V25153	V25153SH	VS30200
VSMT200	3" FEMALE NPT X 3" MALE NPT	100	3"	2½"	6/box	V25153	V25153SH	VS30200
VSFMT200	3" MALE NPT X 3" MALE ADAPTER	225	3"	2½"	6/box	V25153	V25153SH	VS30200

3" FULL PORT STUBBY BALL VALVES

FEATURES

- Stainless steel bolts
- Glass reinforced polypropylene
- FKM body seals
- Unique patented compact design
- Lightweight
- All PTFE ball seats

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



3" FULL PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSFMT300FP	3" FULL PORT MALE ADAPTER X 3" MALE NPT	100	3"	3"	6/box	V25153	VS35200
VSFMT300HSFP	3" FULL PORT MALE ADAPTER X 3" MALE NPT W/SS BALL, STEM & HANDLE	100	3"	3"	6/box	VS30153SS	VSSH35200

3 WAY BOTTOM LOAD BALL VALVES

FEATURES

- Stainless steel bolts
- Precision molded in fiberglass reinforced polypropylene for additional strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation
- Ball is diamond turned after molding to make it spherically perfect, which provides precise contact between ball and seats
- PTFE self-lubricating stem bushings and seats
- FKM body seals
- Directional flow, right or left. Valve can be turned off to stop flow



3 WAY BOTTOM LOAD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
V075BL	3/4" 3-WAY BOTTOM LOAD VALVE	200	3/4"	1"	18/box	T	V10353TB	V10300SL
V100BL	1" 3-WAY BOTTOM LOAD VALVE	225	1"	1"	18/box	T	V10353TB	V10300SL
V125BL	1 1/4" 3-WAY BOTTOM LOAD VALVE	300	1 1/4"	1 1/2"	12/box	T	V20353TB	V15300SL
V150BL	1 1/2" 3-WAY BOTTOM LOAD VALVE	225	1 1/2"	1 1/2"	12/box	T	V20353TB	V15300SL
V200BL	2" 3-WAY BOTTOM LOAD VALVE	200	2"	2"	8/box	STRAIGHT	V25353B	V15300SL

3 WAY SIDE LOAD BALL VALVES

FEATURES

- Stainless steel bolts
- Precision molded in fiberglass reinforced polypropylene for additional strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation
- Ball is diamond turned after molding to make it spherically perfect, which provides precise contact between ball and seats
- PTFE self-lubricating stem bushings and seats
- FKM body seals
- Directional flow, right or left. Valve cannot be turned off to stop flow



3 WAY SIDE LOAD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
V075SL	3/4" 3-WAY SIDE LOAD VALVE	200	3/4"	1"	18/box	STRAIGHT	V10153A	V10300SL
V100SL	1" 3-WAY SIDE LOAD VALVE	200	1"	1"	18/box	STRAIGHT	V10153A	V10300SL
V125SL	1 1/4" 3-WAY SIDE LOAD VALVE	300	1 1/4"	1 1/2"	12/box	T	V20353TS	V15300SL
V150SL	1 1/2" 3-WAY SIDE LOAD VALVE	225	1 1/2"	1 1/2"	12/box	T	V20353TS	V15300SL
V200SL	2" 3-WAY SIDE LOAD VALVE	225	2"	2"	8/box	STRAIGHT	V25153SH	V15300SL

VALVES

1½" - 2" NOZZLE VALVES

FEATURES

- Lightweight hose end valve for convenient transfer of liquids into drums, tanks etc
- Angled end flange with 8" long polypropylene fill spout
- All stainless steel bolts

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



1½"-2" NOZZLE VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	FEMALE NPT	QTY	REPLACEMENT HANDLE	REPAIR KIT
VA150	1½" NOZZLE VALVE WITH 90° ELBOW	225	1½" x 8"	1½"	1½"	12/box	V20152	V20200
VA200	2" NOZZLE VALVE WITH 90° ELBOW	200	2" x 8"	1½"	2"	12/box	V20152	V20200
VA200FP	2" FP NOZZLE VALVE WITH 90° ELBOW	225	2" x 8"	2"	2"	6/box	V25152	V25200

1" DISPENSING NOZZLES

FEATURES

- Glass reinforced polypropylene
- 304 stainless steel handle, spring and pin
- FKM rubber parts only
- Resists corrosion

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



1" DISPENSING NOZZLE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	FEMALE NPT	QTY	REPLACEMENT HANDLE	REPAIR KIT
VN100	1" DISPENSING NOZZLE	150	1"	N/A	1"	1	VN10253	VN10200
V10161	1" NOZZLE PIPE FOR USE WITH V100, V100FP, UV100FP, SUV100FP	N/A	1"	N/A	1"	1		



1/2" - 2" SINGLE UNION SPINWELD VALVES

FEATURES

- Precision molded in glass reinforced polypropylene for strength and chemical resistance
- PTFE seats for smooth and proper sealing characteristics
- EPDM O-rings to handle most fertilizers and many chemicals
- Double O-rings in stem area for extra sealing protection
- Interlocking body and end plate to allow easy thread connection when installing valves

1/2"-2" SINGLE UNION SPINWELD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
SUV050FP	1/2" FULL PORT SINGLE UNION SPINWELD VALVE	300	1/2"	1/2"	1
SUV075FP	3/4" FULL PORT SINGLE UNION SPINWELD VALVE	300	3/4"	3/4"	1
SUV100FP	1" FULL PORT SINGLE UNION SPINWELD VALVE	300	1"	1"	1
SUV125FP	1 1/4" FULL PORT SINGLE UNION SPINWELD VALVE	300	1 1/4"	1 1/4"	1
SUV150FP	1 1/2" FULL PORT SINGLE UNION SPINWELD VALVE	300	1 1/2"	1 1/2"	1
SUV200FP	2" FULL PORT SINGLE UNION SPINWELD VALVE	200	2"	2"	1
MSUV100FP	1" MANIFOLD FULL PORT SINGLE UNION SPINWELD VALVE	300	1"	1"	1



1/2" - 2" SINGLE UNION VALVES

FEATURES

- Precision molded in glass reinforced polypropylene for strength and chemical resistance
- PTFE seats for smooth and proper sealing characteristics
- Double O-rings in stem area for extra sealing protection
- Interlocking body and end plate to allow easy thread connection when installing valves

1/2"-2" SINGLE UNION VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
UV050FP	1/2" FULL PORT SINGLE UNION VALVE	300	1/2"	3/4"	1
UV075FP	3/4" FULL PORT SINGLE UNION VALVE	300	3/4"	3/4"	1
UV100FP	1" FULL PORT SINGLE UNION VALVE	300	1"	1"	1
UV125FP	1 1/4" FULL PORT SINGLE UNION VALVE	225	1 1/4"	1 1/4"	1
UV150FP	1 1/2" FULL PORT SINGLE UNION VALVE	200	1 1/2"	1 1/2"	1
UV200FP	2" FULL PORT SINGLE UNION VALVE	300	2"	2"	1

VALVES

½" - 3" CHECK VALVES

FEATURES

- One piece construction
- Glass reinforced polypropylene
- 316 stainless steel springs
- EPDM gasket



½"-3" CHECK VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	QTY
CV050	½" CHECK VALVE	300	½"	1
CV100MT	1" MALE X FEMALE NPT CHECK VALVE	300	1"	1
CV100	1" CHECK VALVE	300	1"	1
CV221	2" FULL PORT CHECK VALVE	300	2"	1
CV300	3" FULL PORT CHECK VALVE	300	3"	1

¼" - 3" STAINLESS STEEL FULL PORT VALVES

FEATURES

- 316 stainless steel
- Blow out proof stem
- All valves 100% tested by air, under water at 100 PSI in open and closed positions
- Latch locking handle performs in both open and closed positions
- Mounting pad
- PTFE seals and seats



¼"-3" STAINLESS STEEL FULL PORT VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPAIR KIT
VSS025	¼" SS FULL PORT VALVE	1000	¼"	¼"	1	VSS02500
VSS038	⅜" SS FULL PORT VALVE	1000	⅜"	⅜"	1	VSS02500
VSS050	½" SS FULL PORT VALVE	1000	½"	½"	1	VSS05200
VSS075	¾" SS FULL PORT VALVE	1000	¾"	¾"	1	VSS07200
VSS100	1" SS FULL PORT VALVE	1000	1"	1"	1	VSS10200
VSS150	1½" SS FULL PORT VALVE	1000	1½"	1½"	1	VSS15200
VSS200	2" SS FULL PORT VALVE	1000	2"	2"	1	VSS25200
VSS300	3" SS FULL PORT VALVE	1000	3"	3"	1	VSS35200

¾" - 1" PINCH VALVES

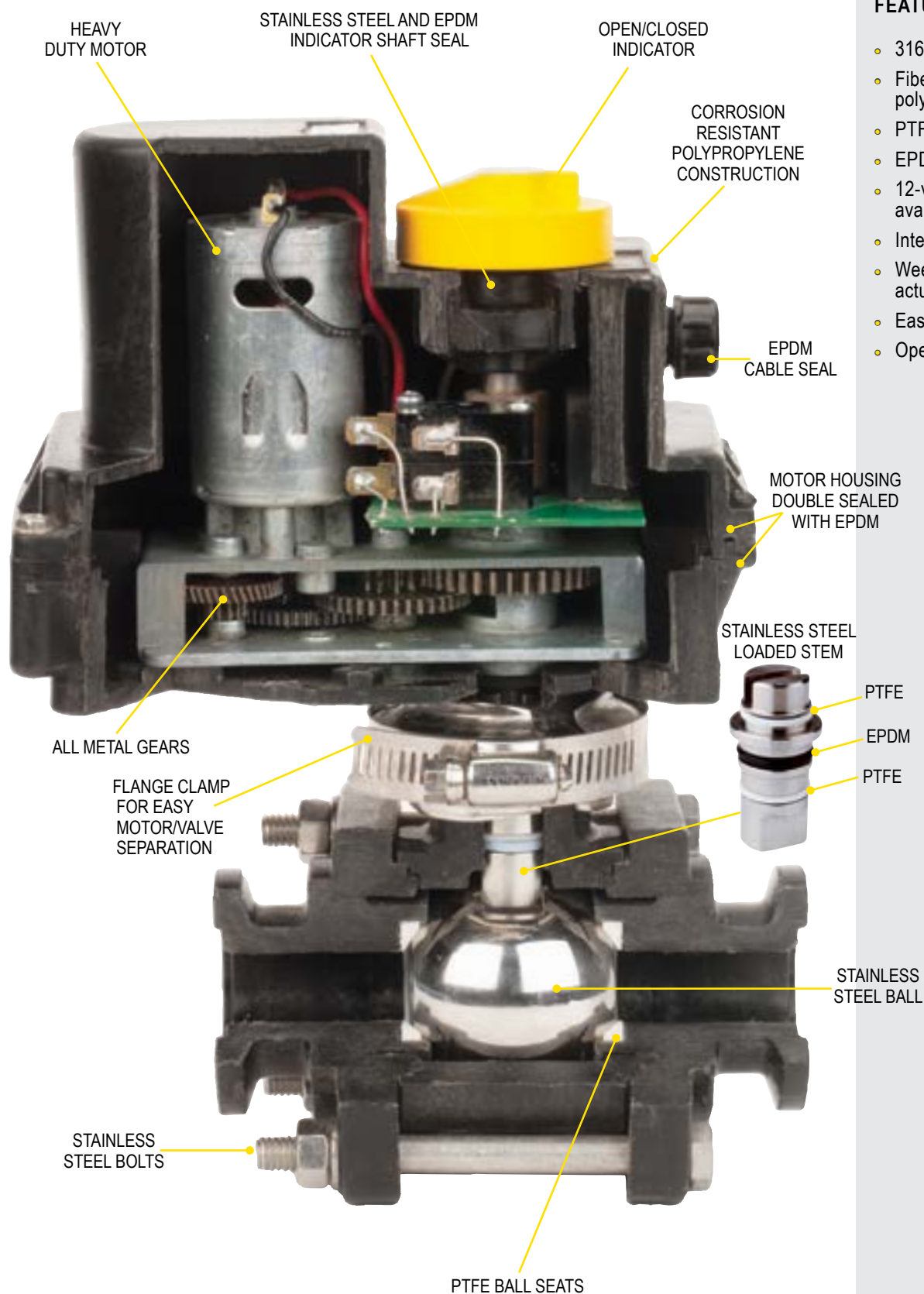
FEATURES

- Open position allows full unobstructed flow of 50-60 GPM
- Air pressure collapses the internal rubber sleeve to provide positive shut off
- Standard EPDM rubber bladder seal and FKM available
- Female NPT threads
- ATTENTION: Normally an open valve and has a maximum liquid pressure of 70 PSI. Pressure differential = pressure it takes to close valve



¾"-1" PINCH VALVES

PART NO	DESCRIPTION	GASKET	MAX PSI	PIPE SIZE	PRESSURE DIFFERENTIAL	QTY
PV075	¾" X ¾" PINCH VALVE	EPDM	300	¾"	15 TO 20 PSI	1
PV075V	¾" X ¾" PINCH VALVE	FKM	300	¾"	15 TO 20 PSI	1
PV100	1" X 1" PINCH VALVE	EPDM	300	1"	15 TO 20 PSI	1
PV100V	1" X 1" PINCH VALVE	FKM	300	1"	15 TO 20 PSI	1
PV100-075	1" X ¾" PINCH VALVE	EPDM	300	1" X ¾"	15 TO 20 PSI	1
PV100-075V	1" X ¾" PINCH VALVE	FKM	300	1" X ¾"	15 TO 20 PSI	1
PV100-075B	1" X ¾" FEMALE COUPLER PINCH VALVE	EPDM	300	1" X ¾"	15 TO 20 PSI	1
PV10265	BLADDER	EPDM	N/A			1
PV10265V	BLADDER	FKM	N/A			1



FEATURES

- 316 stainless steel ball & stem
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC with 24-volt available in most models
- Internally fused/automatic reset
- Weep hole between valve and actuator
- Easily repairable
- Open/closed indicator

ELECTRIC VALVES

1/4" - 1/2" LEV SERIES

FEATURES

- 12 Volt DC
- Stationary current draw: less than 0.04 amps
- Rotating current draw: less than 0.40 amps
- Stall current: 0.75 amps
- Response time: 1/3 second open to close
- TFM seats
- EPDM seals
- Fiberglass reinforced polypropylene
- Integrated mounting slot
- Standard 3 wire configuration



3/8"-1/2" ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
LEV038	3/8" FULL PORT ELECTRIC VALVE	300	3/8"	3/8"	1
LEV050	1/2" ELECTRIC VALVE	300	1/2"	15/32"	1



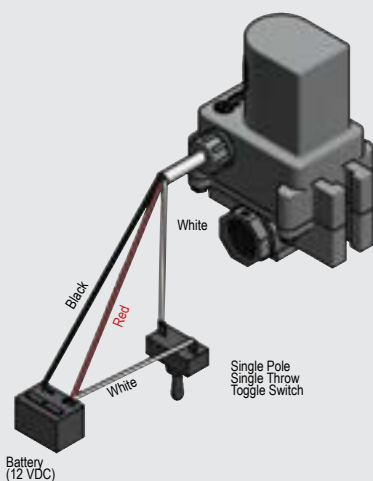
1/4"-1/2" ELECTRIC VALVES W/ PUSH LOCKS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
LEV025PL	1/4" ELECTRIC VALVE W/ PUSH LOCK	150	1/4"	3/8"	1
LEV038PL	3/8" FULL PORT ELECTRIC VALVE W/ PUSH LOCK	150	3/8"	3/8"	1
LEV050PL	1/2" ELECTRIC VALVE W/ PUSH LOCK	150	1/2"	15/32"	1



1/4"-3/8" ELECTRIC VALVES W/ PUSH LOCKS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
LEV025PLST	1/4" ELECTRIC VALVE W/ PUSH LOCK & SPRAY TIP ADAPTER	150	1/4"	3/8"	1
LEV038PLST	3/8" FULL PORT ELECTRIC VALVE W/ PUSH LOCK & SPRAY TIP ADAPTER	150	3/8"	3/8"	1





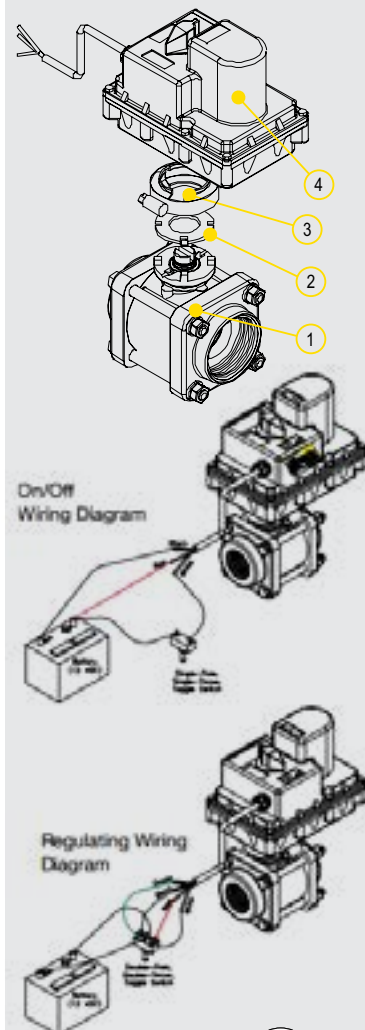
3/4"-2" ELECTRIC VALVES

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- ON/OFF has 3/4 second response
- Regulating has 4 second response

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



3/4"-1 1/4" ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV075	3/4" FULL PORT ELECTRIC VALVE	300	3/4"	1"	1
EV100FP	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1
EV125	1 1/4" ELECTRIC VALVE	300	1 1/4"	1"	1

3/4"-1 1/4" REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVR075	3/4" FULL PORT ELECTRIC VALVE	300	3/4"	1"	1
EVR100FP	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1
EVR125	1 1/4" ELECTRIC VALVE	300	1 1/4"	1"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	EV075XR1	3/4" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	EV100XR1	1" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV125XR1	1 1/4" ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV3300	3/4 SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EVR3300	REGULATING 4 WIRE, 4 SECOND	1
KIT	EV10210	REPAIR KIT	1

Note: 2 wire regulating and other response times available. Contact our sales team for part number and availability of valves.

ELECTRIC VALVES

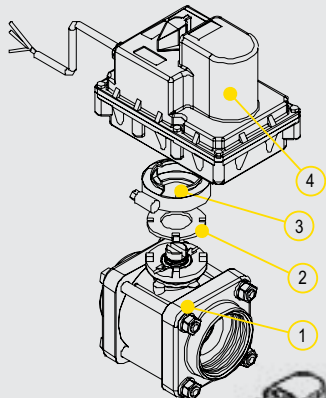
1½"- 2" THREADED

FEATURES

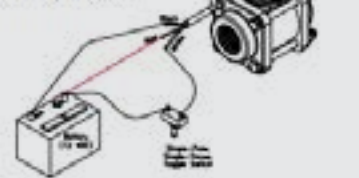
- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- ON/OFF has 1¼ second response
- Regulating has 4 second response

REPAIR KIT INCLUDES:

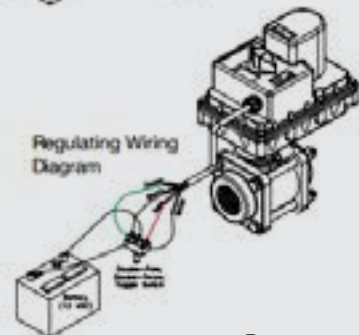
1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



On/Off
Wiring Diagram



Regulating Wiring
Diagram



1½"-2" ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV150	1½" ELECTRIC VALVE	300	1½"	1½"	1
EV200	2" ELECTRIC VALVE	300	2"	1½"	1

1½" REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVR150	1½" ELECTRIC VALVE	300	1½"	1½"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	EV150XR1	1½" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	EV200XR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EVR4300	REGULATING 4 WIRE, 4 SECOND	1
KIT	EV20210	REPAIR KIT	1

Note: 2 wire regulating and other response times available. Contact our sales team for part number and availability of valves.



2" FULL PORT ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV204FP	2" FULL PORT ELECTRIC VALVE	225	2"	2"	1

2" FULL PORT REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVR204FP	2" FULL PORT ELECTRIC VALVE	225	2"	2"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	EV204XR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV4300	1 1/2 SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EVR4300	0 REGULATING 4 WIRE, 4 SECOND	1
KIT	EV25210	REPAIR KIT	1

Note: 2 wire regulating and other response times available. Contact our sales team for part number and availability of valves.

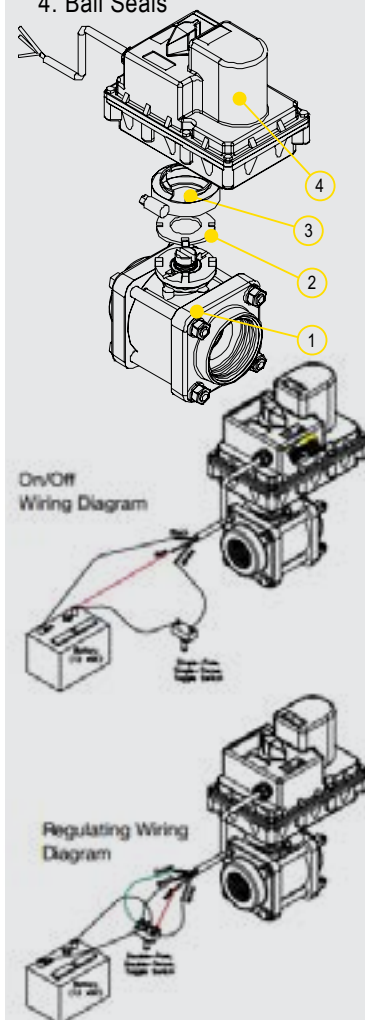
2" FULL PORT THREADED

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- ON/OFF has 1 1/4 second response
- Regulating has 4 second response

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



ELECTRIC VALVES

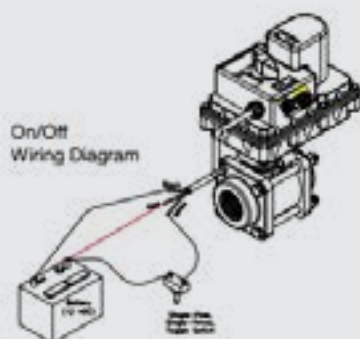
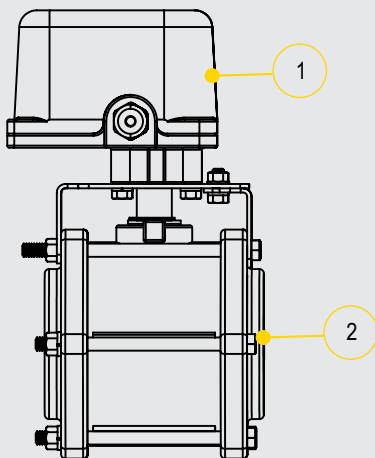
3" FULL PORT THREADED

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- FKM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- EV300FP has 3 second response
- EV300FP110 has 9 second response

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



3" FULL PORT ON/OFF ELECTRIC VALVE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV300FP	3" FULL PORT ELECTRIC VALVE 3 WIRE	200	3"	3"	1

3" FULL PORT ON/OFF ELECTRIC VALVE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV300FP110	3" FULL PORT ELECTRIC VALVE WITH 110 VOLT AC 3 WIRE	200	3"	3"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	VE5630	3 SECOND, 12 VDC MOTOR (EV300FP)	1
1	VE5630	9 SECOND, 110 VOLT AC MOTOR (EV300FP110)	1
2	EV300XR1A	3" ELECTRIC VALVE ONLY	1
KIT	EV35210	REPAIR KIT	1

Note: 4 wire regulating and 110 Volt AC, 9 seconds response times available. Contact our sales team for part number and availability of valves.

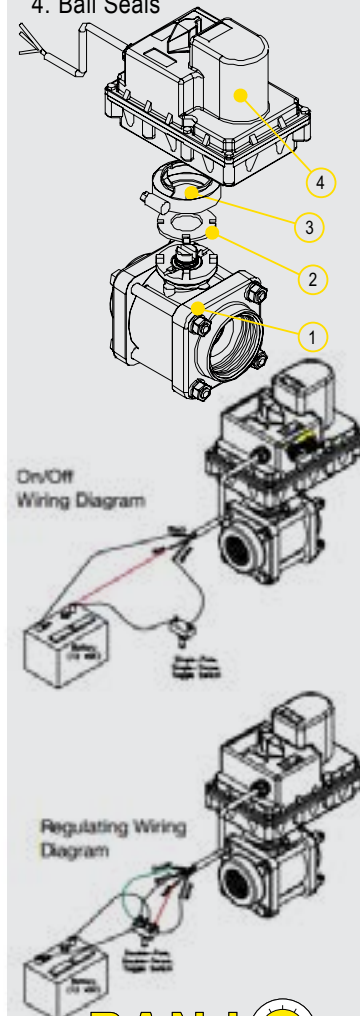
3/4" - 2" 3 WAY

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- 3/4 second response for 3/4"-1"
- 1 1/4 second response for 1 1/2"-2"
- Directional flow right or left and cannot be turned off

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



3/4"-2" ON/OFF BOTTOM LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV075BL	3/4" FULL PORT BOTTOM LOAD ELECTRIC VALVE	300	3/4"	1"	1
EV100BL	1" BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1
EV150BL	1 1/2" BOTTOM LOAD ELECTRIC VALVE	225	1 1/2"	1 1/2"	1
EV200BL	2" BOTTOM LOAD ELECTRIC VALVE	225	2"	1 1/2"	1

3/4"-2" ON/OFF SIDE LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV075SL	3/4" FULL PORT SIDE LOAD ELECTRIC VALVE	300	3/4"	1"	1
EV100SL	1" SIDE LOAD ELECTRIC VALVE	300	1"	1"	1
EV150SL	1 1/2" SIDE LOAD ELECTRIC VALVE	300	1 1/2"	1 1/2"	1
EV200SL	2" SIDE LOAD ELECTRIC VALVE	300	2"	1 1/2"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	EV075BLXR1	3/4" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV100BLXR1	1" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV150BLXR1	1 1/2" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV200BLXR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV075SLXR1	3/4" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV100SLXR1	1" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV150SLXR1	1 1/2" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV200SLXR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV3300	3/4 SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EV4300	1 1/4 SECOND 3 WIRE MOTOR ASSEMBLY	1
KIT	EV10210	REPAIR KIT (3/4"-1")	1
KIT	EV20210	REPAIR KIT (1 1/2"-2")	1

Note: 3 way regulating valves are not shown but contact our sales team for part number and availability of valves.

ELECTRIC VALVES

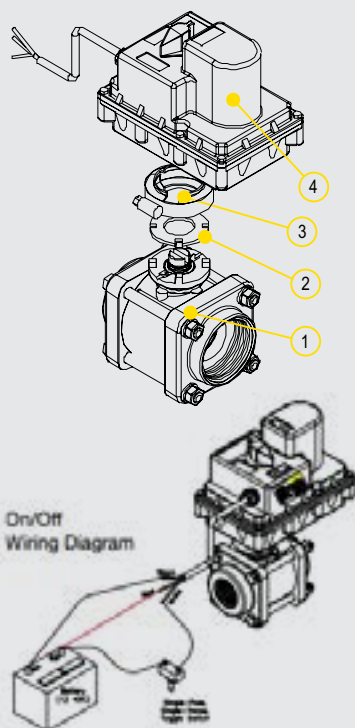
2" FULL PORT 3 WAY

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- 1¼ second response time
- Directional flow right or left and cannot be turned off

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



2" FULL PORT ON/OFF BOTTOM LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV204BLFP	2" BOTTOM LOAD ELECTRIC VALVE	200	2"	2"	1

2" FULL PORT ON/OFF SIDE LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV204SLFP	2" SIDE LOAD ELECTRIC VALVE	150	2"	2"	1

REPLACEMENT PARTS

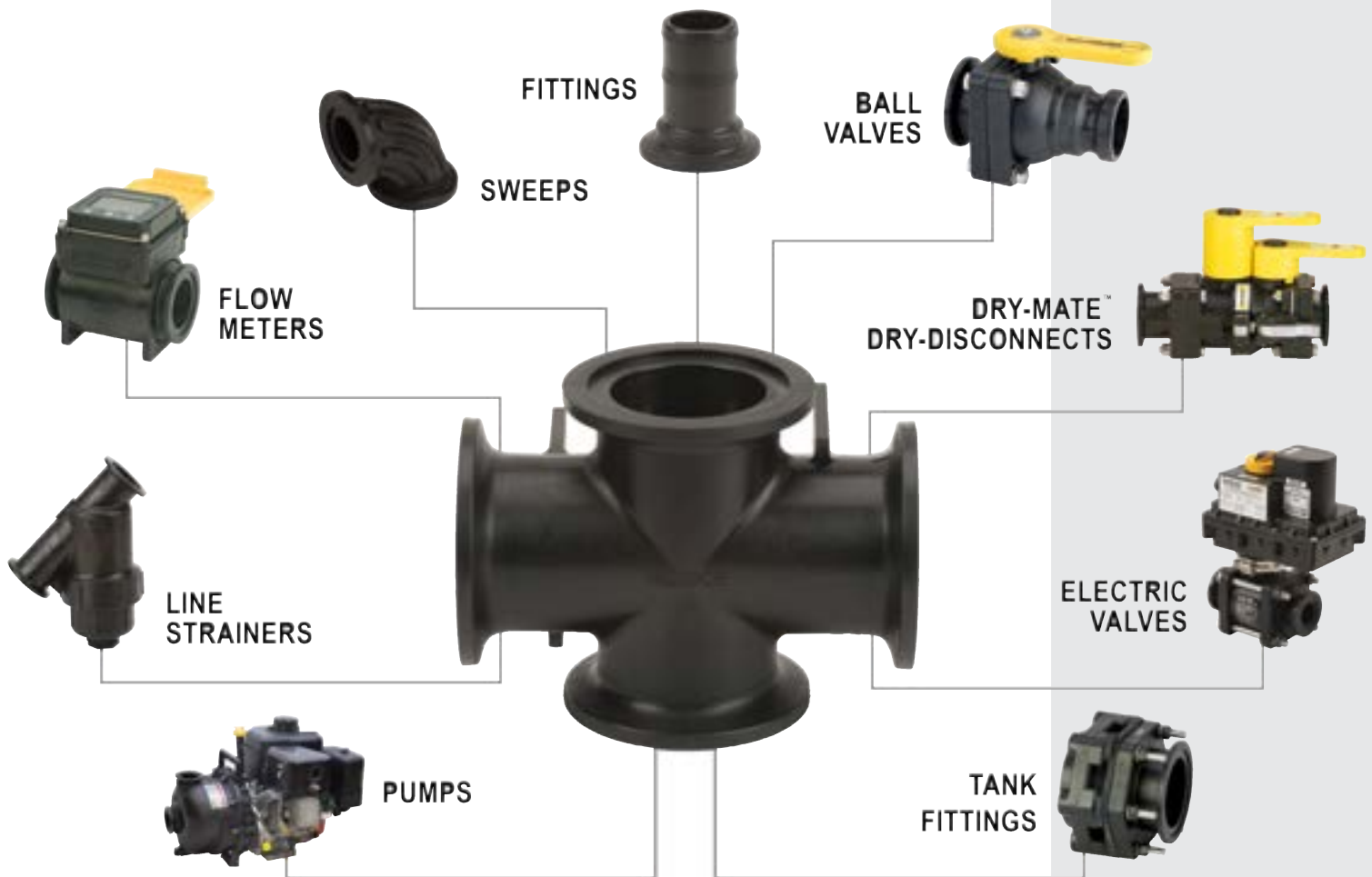
ITEM	PART NO	DESCRIPTION	QTY
1	EV204BLXR1	2" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	EV204SLXR1	2" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY	1
KIT	EV25210	REPAIR KIT	1

Note: 3 way regulating valves are not shown but contact our sales team for part number and availability of valves.

MANIFOLD FLANGE CONNECTIONS

NO THREADS. NO SWEAT.

FLANGE CONNECTIONS FOR EVERY PRODUCT



SKIP THE TAPE AND SEALANT

Flange connections utilize clamps instead of threads, facilitating quick and easy assembly and disassembly while ensuring a leak-proof system. Threaded pipe needs tape or sealant, and the slightest imperfection in the pipe or seal can cause a leak. With properly installed flange connections, you won't worry about connection leaks or wait for sealant to cure.

SAVE TIME. SAVE MONEY.

Time spent unthreading systems and repairing leaks from faulty connections is unproductive and ultimately hits your pocketbook. Banjo's manifold flange systems get you back in the field and out of the shop in no time.

GET RIGHT TO THE SOURCE

With Banjo manifold flange connections, the days of spending hours unhooking entire systems of valves and fittings are over. You can directly isolate and replace the problematic part or replumb sections without disassembling the whole system.

MANIFOLD FLANGE CONNECTIONS

1" ELECTRIC MANIFOLD VALVE ASSEMBLIES

FEATURES

- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- Internally fused/automatic reset
- Open/closed indicator



1" MANIFOLD VALVE ASSEMBLIES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	QTY
MEV102CF	1" MANIFOLD 2 BANK VALVE ASSEMBLY	300	2" IN 1" OUT	1
MEV103CF	1" MANIFOLD 3 BANK VALVE ASSEMBLY	300	2" IN 1" OUT	1
MEV104CF	1" MANIFOLD 4 BANK VALVE ASSEMBLY	300	2" IN 1" OUT	1
MEV105CF	1" MANIFOLD 5 BANK VALVE ASSEMBLY	300	2" IN 1" OUT	1

MANIFOLD FLANGE CONNECTIONS

1" ELECTRIC MANIFOLD VALVE

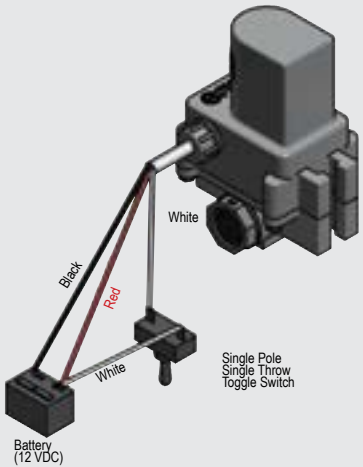
FEATURES

- Fiberglass reinforced polypropylene
- TFM seats
- EPDM seals
- 12-volt DC operated
- Internally fused/automatic reset
- Open/closed indicator
- Stationary current draw: less than 0.04 amps
- Rotating current draw: less than 0.40 amps
- Stall current: 0.75 amps
- 1/3 second response time
- Integrated mounting slot
- 3 wire configuration



1" ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MLEV100	1" MANIFOLD ELECTRIC VALVE	300	1"	1/2"	1



MANIFOLD FLANGE CONNECTIONS

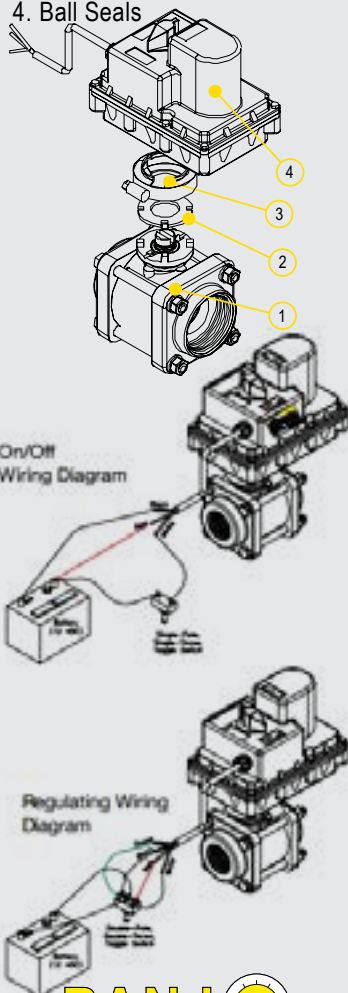
1"- 2" ELECTRIC MANIFOLD VALVES

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- ON/OFF has ¾ second response(1")
- ON/OFF has 1¼ second response(2")
- Regulating has 4 second response

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



1"-2" ON/OFF ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEV100CF	1" FULL PORT MANIFOLD ELECTRIC VALVE	300	1"	1"	1
MEV200CF	2" STANDARD PORT MANIFOLD ELECTRIC VALVE	300	2"	1½"	1
MEV220CF	2" FULL PORT MANIFOLD ELECTRIC VALVE	225	2"	2"	1

1"-2" REGULATING ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVR100CF	1" FULL PORT MANIFOLD ELECTRIC VALVE	300	1"	1"	1
MEVR200CF	2" STANDARD PORT MANIFOLD ELECTRIC VALVE	300	2"	1½"	1
MEVR220CF	2" FULL PORT MANIFOLD ELECTRIC VALVE	225	2"	2"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	MEV100XR1	1" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV200XR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV220XR1	2" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV3300	¾ SECOND 3 WIRE MOTOR ASSEMBLY FOR 1"	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY FOR 2"	1
4	EVR3300	REGULATING 4 WIRE, 4 SECOND FOR 1"	1
4	EVR4300	REGULATING 4 WIRE, 4 SECOND FOR 2"	1
KIT	EV10210	REPAIR KIT FOR 1"	1
KIT	EV20210	REPAIR KIT FOR 2	1
KIT	EV25210	REPAIR KIT FOR 2" FULL PORT	1

Note: 2 wire regulating and other response times available. Contact our sales team for part number and availability of valves.

MANIFOLD FLANGE CONNECTIONS



1"-2" ON/OFF ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEV100CF	1" FULL PORT MANIFOLD ELECTRIC VALVE	300	1"	1"	1
MEV200CF	2" STANDARD PORT MANIFOLD ELECTRIC VALVE	300	2"	1½"	1
MEV220CF	2" FULL PORT MANIFOLD ELECTRIC VALVE	225	2"	2"	1
MEV225CF	2" FULL PORT MANIFOLD ELECTRIC 5 WAY VALVE	300	2"	2"	1

1"-2" REGULATING ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVR100CF	1" FULL PORT MANIFOLD ELECTRIC VALVE	300	1"	1"	1
MEVR200CF	2" STANDARD PORT MANIFOLD ELECTRIC VALVE	300	2"	1½"	1
MEVR220CF	2" FULL PORT MANIFOLD ELECTRIC VALVE	225	2"	2"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	MEV100XR1	1" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV200XR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV220XR1	2" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV3300	¾ SECOND 3 WIRE MOTOR ASSEMBLY FOR 1"	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY FOR 2"	1
4	EVR3300	REGULATING 4 WIRE, 4 SECOND FOR 1"	1
4	EVR4300	REGULATING 4 WIRE, 4 SECOND FOR 2"	1
KIT	EV10210	REPAIR KIT FOR 1"	1
KIT	EV20210	REPAIR KIT FOR 2"	1
KIT	EV25210	REPAIR KIT FOR 2" FULL PORT	1
KIT	MV225200	REPAIR KIT FOR 2" FULL PORT 5 WAY	1

Note: 2 wire regulating and other response times available. Contact our sales team for part number and availability of valves.

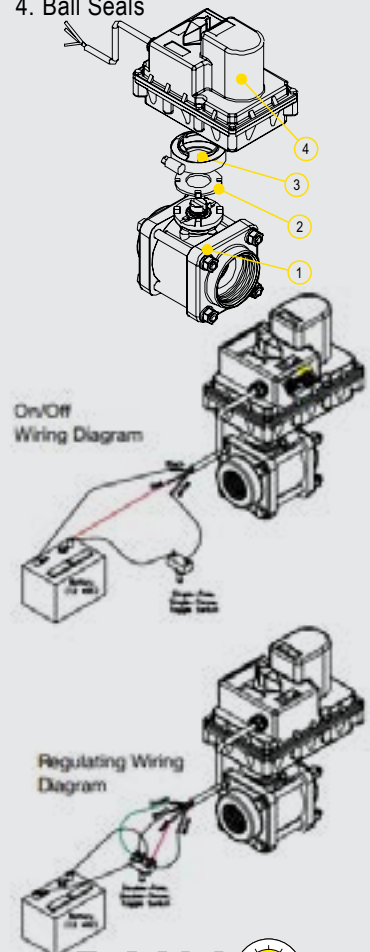
1"- 2" ELECTRIC MANIFOLD VALVES

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- ON/OFF has ¾ second response(1")
- ON/OFF has 1¼ second response(2")
- ON/OFF has 3 second response (5 way)
- Regulating has 4 second response

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



MANIFOLD FLANGE CONNECTIONS

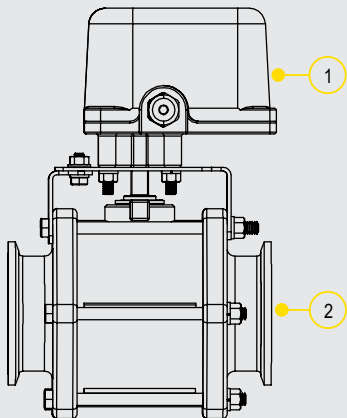
3" ELECTRIC MANIFOLD VALVES

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- Open/closed indicator
- ON/OFF has 3 second response

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals

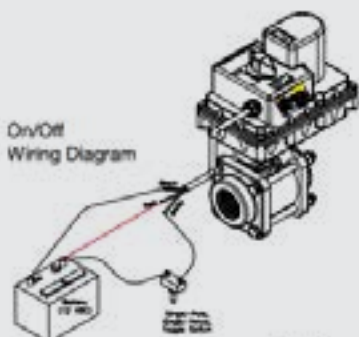


3" ON/OFF ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEV300CF	3" FULL PORT MANIFOLD ELECTRIC VALVE	200	3"	3"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	VE5630	2 SECOND 12 VDC MOTOR	1
2	MEV300XR1	3" ELECTRIC MANIFOLD VALVE ONLY	1
KIT	EV35210	REPAIR KIT FOR 3" FULL PORT	1



Note: 2 wire regulating and other response times available. Contact our sales team for part number and availability of valves.

MANIFOLD FLANGE CONNECTIONS



1"- 2" ELECTRIC MANIFOLD 3 WAY BOTTOM LOAD VALVES

FEATURES

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- Open/closed indicator
- ¾ second response for 1" On/Off
- 1¼ second response for 2" On/Off
- 4 second response for Regulating
- Directional flow right or left and cannot be turned off
- Regulating valve not available in this configuration

REPAIR KIT INCLUDES:

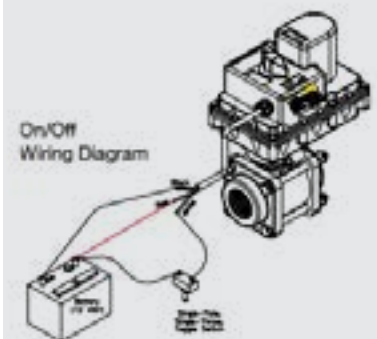
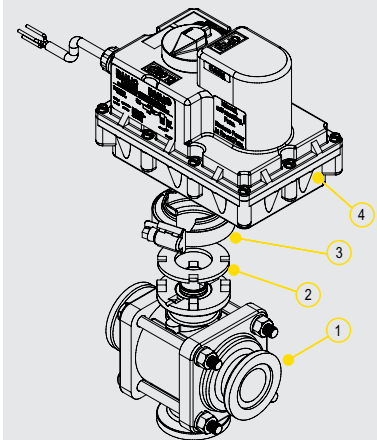
1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals

1"-2" ON/OFF BOTTOM LOAD ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEV100BLCF	1" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1
MEV200BLCF	2" STANDARD PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	300	2"	1½"	1
MEV220BLCF	2" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	150	2"	2"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	MEV100BLXR1	1" FULL PORT MANIFOLD ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV200BLXR1	2" MANIFOLD ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV220BLXR1	2" FULL PORT MANIFOLD ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV3300	¾ SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY	1
KIT	EV10210	REPAIR KIT (1")	1
KIT	EV20210	REPAIR KIT (2")	1
KIT	EV25210	REPAIR KIT (2" FULL PORT)	1



MANIFOLD FLANGE CONNECTIONS

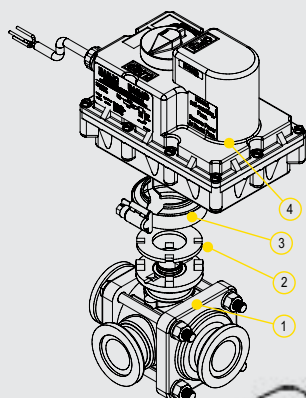
1"- 2" ELECTRIC MANIFOLD 3 WAY SIDE LOAD VALVES

FEATURES

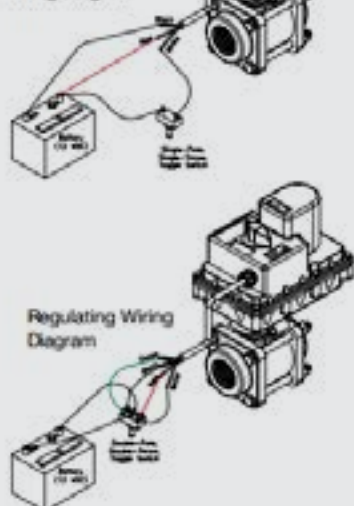
- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- Open/closed indicator
- ¾ second response for 1" On/Off
- 1¼ second response for 2" On/Off
- 4 second response for Regulating
- Directional flow right or left and cannot be turned off

REPAIR KIT INCLUDES:

1. Stem with Seals
2. Gasket
3. Body O-Ring
4. Ball Seals



On/Off
Wiring Diagram



1"-2" ON/OFF SIDE LOAD ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEV100SLCF	1" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	1"	1"	1
MEV200SLCF	2" STANDARD PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	2"	1½"	1
MEV220SLCF	2" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	150	2"	2"	1

1"-2" REGULATING SIDE LOAD ELECTRIC MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVR100SLCF	1" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	1"	1"	1
MEVR200SLCF	2" STANDARD PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	2"	1½"	1
MEVR220SLCF	2" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	150	2"	2"	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	MEV100SLXR1	1" FULL PORT MANIFOLD ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV200SLXR1	2" MANIFOLD ELECTRIC VALVE SUB ASSEMBLY	1
1	MEV220SLXR1	2" FULL PORT MANIFOLD ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EV3300	¾ SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY	1
4	EVR3300	REGULATING 4 WIRE, 4 SECOND MOTOR ASSEMBLY FOR 1"	1
4	EVR4300	REGULATING 4 WIRE, 4 SECOND MOTOR ASSEMBLY FOR 2"	1
KIT	EV10210	REPAIR KIT (1")	1
KIT	EV20210	REPAIR KIT (2")	1
KIT	EV25210	REPAIR KIT (2" FULL PORT)	1

MANIFOLD FLANGE CONNECTIONS



MANIFOLD 4 & 6 BOLTED VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
MV100CF	1" STANDARD PORT MANIFOLD VALVE	300	1"	1"	24/box	V10153A	V10200
MV200CF	2" STANDARD PORT MANIFOLD VALVE	225	2"	1½"	12/box	V20153	V20200
MV220CF	2" FULL PORT MANIFOLD VALVE	300	2"	2"	8/box	V25153	V25200
MV300	3" STANDARD PORT MANIFOLD VALVE	150	3"	2½"	6/box	V25153	V30200
MV300CF	3" FULL PORT MANIFOLD VALVE	200	3"	3"	6/box	V25153	V35200

1" - 3" 4 & 6 BOLTED VALVES

FEATURES

- FKM seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind
- Stainless steel bolts

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



MANIFOLD BOLTED 5 WAY VALVE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPAIR KIT
MV225CF	2" FULL PORT MANIFOLD 5 WAY VALVE	100	2"	2"	1	MV225200

2" BOLTED 5 WAY VALVE

FEATURES

- FKM seals
- Precision molded polypropylene is reinforced with fiberglass for additional strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind
- Stainless steel bolts

MANIFOLD FLANGE CONNECTIONS

2" STUBBY VALVES

FEATURES

- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Stainless steel bolts.
- Standard size has TFE seals and Full Port size has FKM seals

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



2" MANIFOLD STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSMT200CF	2" STANDARD PORT MANIFOLD VALVE FLANGE X MALE NPT W/TFE SEALS	150	2"	1½"	24/box	VS20152SH	VS20200
VSF200CF	2" STANDARD PORT MANIFOLD VALVE FLANGE X MALE ADAPTER W/TFE SEALS	100	2"	1½"	24/box	VS20152SH	VS20200
MVS220FP	2" FULL PORT MANIFOLD VALVE FLANGE X FEMALE NPT W/FKM SEALS	300	2"	2"	18/box	VS25153	VS25200
MVSF220FP	2" FULL PORT MANIFOLD VALVE FLANGE X MALE ADAPTER W/FKM SEALS	150	2"	2"	18/box	VS25153	VS25200
MVS220CF	2" FULL PORT MANIFOLD VALVE FLANGE X FLANGE W/FKM SEALS	150	2"	2"	18/box	VS25153	VS25200
MVSM220FP	2" FULL PORT MANIFOLD VALVE FLANGE X MALE NPT W/FKM SEALS	225	2"	2"	18/box	VS25153	VS25200

MANIFOLD FLANGE CONNECTIONS



2" FULL PORT MANIFOLD STUBBY VALVES WITH SS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
MVS220HSFP	2" FULL PORT MANIFOLD STUBBY VALVE FLANGE X FLANGE WITH SS BALL, STEM & HANDLE	200	2"	2"	1	VS25153SS	VSSH25200
MVSF220HSFP	2" FULL PORT MANIFOLD STUBBY VALVE FLANGE X MALE ADAPTER WITH SS BALL, STEM & HANDLE	150	2"	2"	1	VS25153SS	VSSH25200
MVSMT220HSFP	2" FULL PORT MANIFOLD STUBBY VALVE MALE NPT X FLANGE WITH SS BALL, STEM & HANDLE	200	2"	2"	1	VS25153SS	VSSH25200

2" FP STUBBY VALVES WITH STAINLESS STEEL

FEATURES

- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Stainless steel bolts
- Compact design
- FKM seals

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



2" FULL PORT MANIFOLD STUBBY STAINLESS STEEL VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
MVS220HSFP	2" FULL PORT MANIFOLD STUBBY SS VALVE FLANGE X FLANGE	200	2"	2"	1	VSS20153	VSS25200
MVSF220HSFP	2" FULL PORT MANIFOLD STUBBY SS VALVE FLANGE X MALE ADAPTER	150	2"	2"	1	VSS20153	VSS25200
MVSMT220HSFP	2" FULL PORT MANIFOLD STUBBY SS VALVE MALE NPT X FLANGE	200	2"	2"	1	VSS20153	VSS25200

2" FP STUBBY STAINLESS STEEL VALVES

FEATURES

- PTFE seals, no elastomers
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats
- PTFE self-lubricating stem bushings and seats cannot stick or bind

MANIFOLD FLANGE CONNECTIONS

3" STUBBY VALVES

FEATURES

- FKM seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Stainless steel bolts.

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



3" MANIFOLD STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
MVSF300	3" STANDARD PORT MANIFOLD VALVE FLANGE X MALE ADAPTER	100	3"	2½"	6/box	V25153	VS30200
MVSF300FP	3" FULL PORT MANIFOLD VALVE FLANGE X MALE ADAPTER	100	3"	3"	6/box	V25153	VS35200
MVSMT300	3" STANDARD PORT MANIFOLD VALVE FLANGE X MALE NPT	225	3"	2½"	8/box	V25153	VS30200
MVS300CF	3" STANDARD PORT MANIFOLD VALVE FLANGE X FLANGE	200	3"	2½"	6/box	V25153	VS30200
MVS300CFFP	3" FULL PORT MANIFOLD VALVE FLANGE X FLANGE	150	3"	3"	6/box	V25153	VS35200

MANIFOLD FLANGE CONNECTIONS

3" FP STUBBY VALVES WITH STAINLESS STEEL

FEATURES

- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Stainless steel bolts
- Compact design
- FKM seals

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



3" FULL PORT MANIFOLD STUBBY VALVES WITH SS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
MVS300HSFP	3" FULL PORT MANIFOLD STUBBY VALVE FLANGE X FLANGE WITH SS BALL, STEM & HANDLE	100	3"	3"	1	VS30153SS	VSSH35200
MVSF300HSFP	3" FULL PORT MANIFOLD STUBBY VALVE FLANGE X MALE ADAPTER WITH SS BALL, STEM & HANDLE	100	3"	3"	1	VS30153SS	VSSH35200
MVSMT300HSFP	3" FULL PORT MANIFOLD STUBBY VALVE MALE NPT X FLANGE WITH SS BALL, STEM & HANDLE	200	3"	3"	1	VS30153SS	VSSH35200

MANIFOLD FLANGE CONNECTIONS

3 WAY BOTTOM LOAD BALL VALVES

FEATURES

- Stainless steel bolts
- Precision molded in fiberglass reinforced polypropylene for additional strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation
- Ball is diamond turned after molding to make it spherically perfect, which provides precise contact between ball and seats
- PTFE self-lubricating stem bushings and seats
- FKM body seals
- Directional flow, right or left. Valve can be turned off to stop flow

REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



3 WAY BOTTOM LOAD MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
MV100BL	1" 3-WAY BOTTOM LOAD MANIFOLD VALVE	300	1"	1"	18/box	T	V10353TB	MV10300SL
MV200BL	2" 3-WAY BOTTOM LOAD MANIFOLD VALVE	225	2"	1½"	12/box	T	V20353TB	MV10300SL
MV220BL	2" FP 3-WAY BOTTOM LOAD MANIFOLD VALVE	150	2"	2"	8/box	STRAIGHT	V25353B	V25200BL
MV300BL	3" FP 3-WAY BOTTOM LOAD MANIFOLD VALVE	150	3"	3"	4/box	STRAIGHT	V25353B	V35200BL

3 WAY SIDE LOAD BALL VALVES

FEATURES

- Stainless steel bolts
- Precision molded in fiberglass reinforced polypropylene for additional strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation
- Ball is diamond turned after molding to make it spherically perfect, which provides precise contact between ball and seats
- PTFE self-lubricating stem bushings and seats
- FKM body seals
- Directional flow, right or left. Valve cannot be turned off to stop flow



3 WAY SIDE LOAD MANIFOLD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
MV100SL	1" 3-WAY SIDE LOAD MANIFOLD VALVE	300	1"	1"	18/box	T	V20353TS	MV10300SL
MV200SL	2" 3-WAY SIDE LOAD MANIFOLD VALVE	225	2"	1½"	10/box	STRAIGHT	V20153SH	MV10300SL
MV220SL	2" 3-WAY SIDE LOAD FULL PORT MANIFOLD VALVE	100	2"	2"	8/box	STRAIGHT	V25153SH	V25200BL

MANIFOLD FLANGE CONNECTIONS



MANIFOLD PRESSURE SPIKE VALVES

PART NO	DESCRIPTION	PRESSURE SPIKE	QTY
MPRV100-100	1" MANIFOLD PRESSURE SPIKE VALVE	300	1
MPRV100-125	1" X 1½" MANIFOLD PRESSURE SPIKE VALVE	300	1

PRESSURE SPIKE VALVES

FEATURES

- FKM seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- 360° orientation
- Poppet is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Preset pressure spring



MANIFOLD DRY DISCONNECTS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
DM200ACF	2" MALE MANIFOLD DRY-MATE WITH FKM SEALS	100	2"	1½"	1	DM20153M	DM20200A
DM200DCF	2" FEMALE MANIFOLD DRY-MATE WITH FKM SEALS	100	2"	1½"	1	DM20153F	DM20200D
DM300ACF	3" MALE MANIFOLD DRY-MATE WITH FKM SEALS	150	3"	3"	1	DM35153M	DM35200
DM300DCF	3" FEMALE MANIFOLD DRY-MATE WITH FKM SEALS	150	3"	3"	1	DM35153F	DM35200

Note: Male and female sold separately

DRY-MATE™ DRY-DISCONNECTS

FEATURES

- Easy to use
- Minimal fluid spillage
- Reduces risk of exposure
- Wide range of chemical resistance
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps.
- Spillage data: 2" = 4ml, 3" = 15ml

REPAIR KIT INCLUDES:

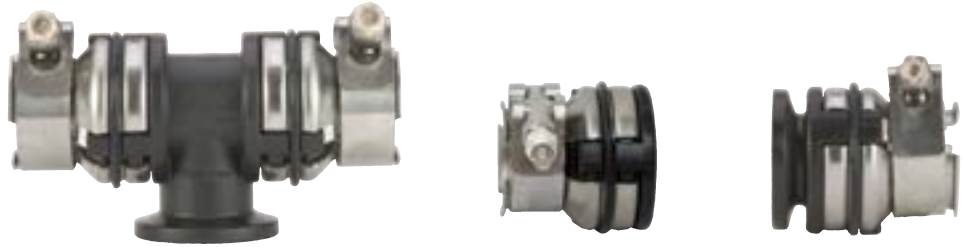
1. Face seal
2. Ball
3. Seats
4. Body gasket
5. Thrust bearings
6. Stem bushings

MANIFOLD FLANGE CONNECTIONS

BOOM NOZZLE PIPE ADAPTER

FEATURES

- Eliminates having to thread pipe
- Quick and easy assembly
- No welding necessary
- 360° orientation



BOOM NOZZLE PIPE ADAPTER

PART NO	DESCRIPTION	MAX PSI	QTY
M100PA	1" FLANGED PIPE ADAPTER	300	1
M100PAC	1" FLANGED PIPE ADAPTER CAP	300	1
M100PAT	1" FLANGED PIPE ADAPTER TEE	300	1

INDUCTORS

FEATURES

- Threaded or manifold ends
- Glass reinforced polypropylene
- Designed for use with a volume pump. Typical volumes (80-240 US GPM) and pressures (26-52 PSI) should be used to operate the inductor.



MANIFOLD INDUCTORS

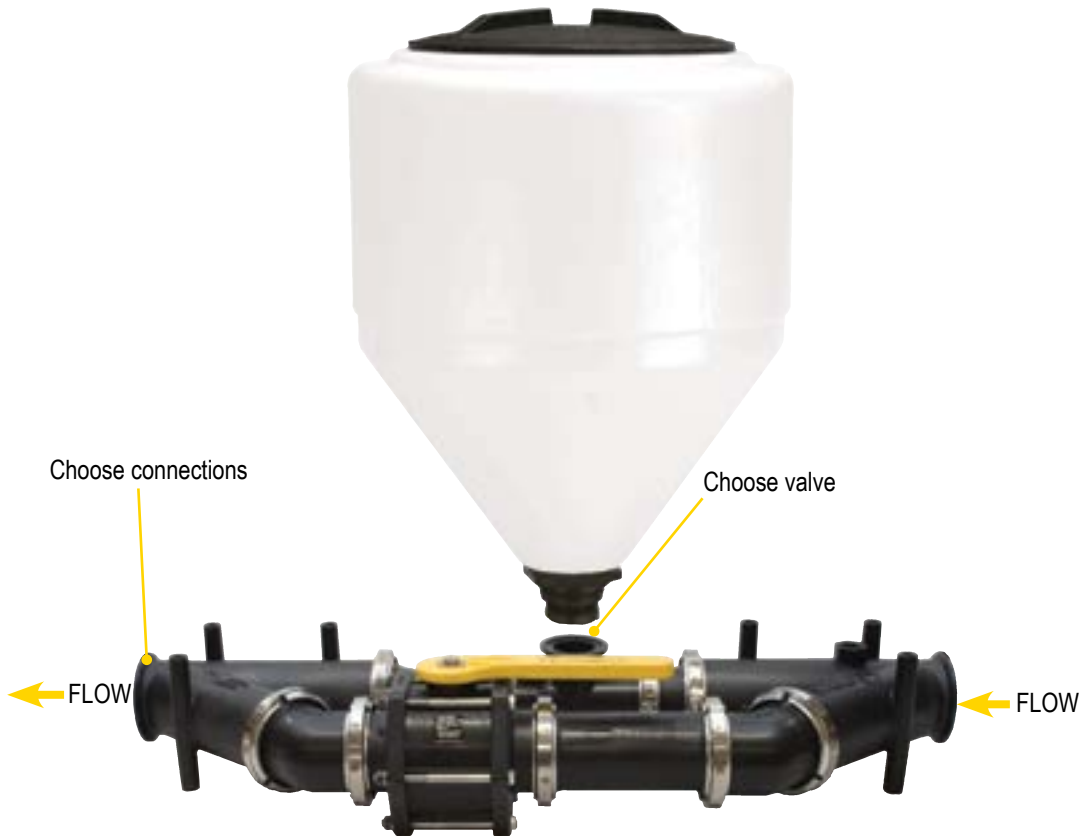
PART NO	DESCRIPTION	PRESSURE AT PUMP	VOLUME DRAW	OPENING SIZE	QTY
HV200	2" MPT INDUCTOR	225	49 GPM	7/16"	1
MHV200	2" MANIFOLD INDUCTOR WITH 1½" PORT	300	37 GPM	5/16"	1
MHV220A	2" FULL PORT MANIFOLD INDUCTOR	225	49 GPM	9/16"	1

MANIFOLD FLANGE CONNECTIONS

INDUCTOR SYSTEMS

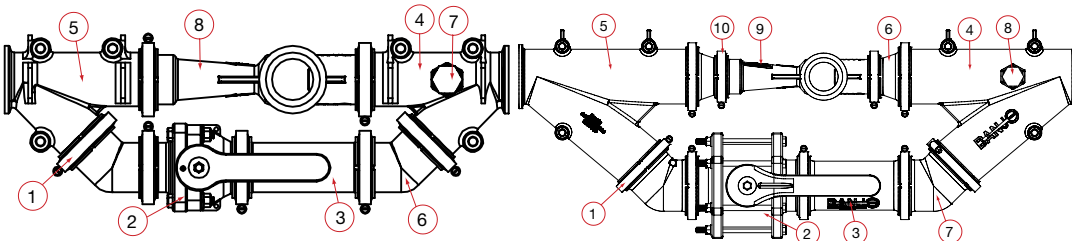
FEATURES

- Installed after pump; suction completely empties inductor tank
- Keeps pump free of chemicals
- Easy assembly/installation with manifold connections found on pages 43-49.
- Choose your connections and valve
- Tank for illustration purposes only, not included



MANIFOLD INDUCTOR SYSTEMS

PART NO	DESCRIPTION	MAX PSI	QTY
MIS220	2" FULL PORT MANIFOLD INDUCTOR SYSTEM FLANGE X FLANGE ASSEMBLED	225	1
MIS300	3" FULL PORT MANIFOLD INDUCTOR SYSTEM FLANGE X FLANGE ASSEMBLED	150	1



MANIFOLD INDUCTORS

ITEM	PART NO	DESCRIPTION	QTY
1	FC220	220 SERIES WORM SCREW CLAMP	10
2	MVS220CF	2" FP FLANGE X 2" FP FLANGE	1
3	M220CPG6	2" X 2" FULL PORT FLANGE X 6"	1
4	M220YG45	2" FULL PORT 45° Y FLANGE W/ 3/4" GAUGE PORT*	1
5	M220Y45	2" FULL PORT 45° Y FLANGE	1
6	M220CPG45	2" FULL PORT 45° COUPLING	2
7	PLUG075	3/4" PIPE PLUG	1
8	MHV220A	2" FULL PORT POLY VENTURI	1
N/S	M221G	2" FULL PORT EPDM MANIFOLD GASKET WITH RIB	7

MANIFOLD INDUCTORS

ITEM	PART NO	DESCRIPTION	QTY
1	FC300	300 SERIES WORM SCREW CLAMP	7
2	MV301CF	3" FP FLANGE X 3" FP FLANGE	1
3	M300CPG7	3" X 3" FULL PORT FLANGE X 7"	1
4	M300YG45	3" FULL PORT 45° Y FLANGE W/ 3/4" GAUGE PORT*	1
5	M300Y45	3" FULL PORT 45° Y FLANGE	1
6	M300220CPG	3" X 2" FULL PORT REDUCER FLANGE	1
7	M300CPG45	3" FULL PORT 45° COUPLING	2
8	PLUG075	3/4" PIPE PLUG	1
9	MHV220A	2" FULL PORT POLY VENTURI	1
10	FC220	220 SERIES WORM SCREW CLAMP	3
N/S	M221G	2" FULL PORT EPDM MANIFOLD GASKET WITH RIB	2
N/S	M301G	3" EPDM MANIFOLD GASKET WITH RIB	7

*Note: Gauge not included.

MANIFOLD FLANGE CONNECTIONS

FLOW METERS

FEATURES

- Displays overall total volume and batch total volume
- Flow rate allows for Gallons or Liters per minute
- The display reads 6 digits for rate, 8 digits for total and 1 decimal place reading in tenths
- Magnetic style meter with stainless steel electrodes
- Self calibrating meter
- Measures water and most conductive liquids
- Easy to change six (6) AA batteries
- No moving parts to fail during use
- Glass-reinforced polypropylene
- Temperature range from 0°F to 150°F
- Accuracy is 99% from 11 to 100 GPM for 1"
- Accuracy is 99% from 30 to 300 GPM for 2"
- Accuracy is 99% from 67 to 670 GPM for 3"
- There are 3 photoeyes located on the face of the flow meter. These are not push buttons; to activate you must hold your finger over the photoeye for 2-4 seconds
- Flow meters will not read petroleum based liquids
- It is recommended to have at least 10X the diameter of straight pipe before and after the flow meter



FLOW METERS

PART NO	DESCRIPTION	MAX PSI	GPM	QTY
FM100	1" FULL PORT FEMALE NPT FLOW METER	200	110 GPM	1
MFM100	1" FULL PORT MANIFOLD FLOW METER	200	110 GPM	1
MFM220	2" FULL PORT MANIFOLD FLOW METER	200	300 GPM	1
MFM300	3" FULL PORT FLOW METER	200	670 GPM	1

MANIFOLD FLANGE CONNECTIONS



SWEEPS

FEATURES

- Direct replacement for standard 90° flanged couplings
- Positive seals
- Quick and easy assembly
- Easy on/off hose connections
- 360° orientation
- Improved flow for max GPM

SWEEPS

PART NO	DESCRIPTION	MAX PSI	QTY
M100125BRBWP90	1" FLANGE X 1 1/4" HOSE SHANK SWEEP	300	1
M100BRBWP90	1" FLANGE X HOSE SHANK SWEEP	300	1
M100BRBWP90G	1" FULL PORT FLANGE X 1" HOSE SHANK SWEEP W/ 1/4" GAUGE PORT	300	1
M100SWP90	1" FLANGE X FLANGE SWEEP	300	1
M100SWPG90	1" FLANGE X FLANGE SWEEP W 1/4" GAUGE PORT	300	1
M200SWP90	2" FLANGE X FLANGE SWEEP	300	1
M220200SWP90	2" FULL PORT FLANGE X 2" FLANGE SWEEP	300	1
M220ASWP90	2" FULL PORT FLANGE X MALE ADAPTER SWEEP	200	1
M220BRBWP90	2" FULL PORT FLANGE X HOSE SHANK SWEEP	300	1
M220MPTSWP90	2" FULL PORT FLANGE X MALE NPT THREAD SWEEP	300	1
M220SWP90	2" FULL PORT FLANGE X FLANGE SWEEP	300	1
M220SWPG90	2" FULL PORT FLANGE X FLANGE SWEEP W/ 1/4" GAUGE PORT	300	1
M220SWP90SS	2" FULL PORT SS FLANGE X FLANGE SWEEP	300	1
M300ASWP90	3" FLANGE X MALE ADAPTER SWEEP	100	1
M300BRBWP90	3" FLANGE X MALE NPT THREAD SWEEP	225	1
M300MPTSWP90	3" FLANGE X MALE NPT THREAD SWEEP	200	1
M300SWP90	3" FLANGE X FLANGE SWEEP	200	1
M300SWPG90	3" FLANGE X FLANGE SWEEP W/ 1/4" GAUGE PORT	200	1

MANIFOLD FLANGE CONNECTIONS

FITTINGS

FEATURES

- Quick and easy assembly
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Where noted, parts must be ordered in bag quantities.



SWIVEL

PART NO	DESCRIPTION	MAX PSI	QTY
MSW220	2" FULL PORT MANIFOLD FLANGE SWIVEL	200	1

CHECK VALVES

PART NO	DESCRIPTION	MAX PSI	QTY
MCV100	1" FLANGED CHECK VALVE	300	1
MCV200	2" FLANGED CHECK VALVE	300	1
MCV221	2" FULL PORT FLANGED CHECK VALVE	200	1
MCV300	3" FLANGED CHECK VALVE	200	1

PVC GLUE SOCKET

PART NO	DESCRIPTION	MAX PSI	QTY
M101GSA	1" FLANGE X 1" PVC GLUE SOCKET FITTING	300	1
M221GSA	2" FULL PORT FLANGE X 2" PVC GLUE SOCKET FITTING	300	1
M301GSA	3" FULL PORT FLANGE X 3" PVC GLUE SOCKET FITTING	300	1

316 SS SOCKET WELD

PART NO	DESCRIPTION	MAX PSI	QTY
M100SWFSS	1" FLANGE X 1" SOCKET WELD FITTING	300	1
M104SWFSS	1" FLANGE X 1" SOCKET WELD FITTINGS X 4"	300	1
M200SWFSS	2" FLANGE X 2" SOCKET WELD FITTING	300	1
M220SWFSS	2" FULL PORT FLANGE X 2" SOCKET WELD FITTING	300	1
M220375SWFSS	2" FULL PORT FLANGE X 2" SOCKET WELD FITTING X 3/4"	300	1
M300SWFSS	3" FLANGE X 3" SOCKET WELD FITTING	300	1
M300375SWFSS	3" FLANGE X 3" SOCKET WELD FITTING X 3/4"	300	1

COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
M100CPG	1" X 1" FLANGE X 2 1/4" LONG	300	10/BAG
M200CPG	2" X 2" FLANGE X 4 1/2" LONG	300	10/BAG
M220CPG	2" X 2" FULL PORT FLANGE X 2 31/32" LONG	300	10/BAG
M220CPG3G	2" X 2" FULL PORT FLANGE X 3" LONG WITH 1/2" GAUGE PORT	225	1
M220CPG6	2" X 2" FULL PORT FLANGE X 6" LONG	300	1
M300CPG	3" X 3" FULL PORT FLANGE X 4" LONG	200	1
M300CPG7	3" X 3" FULL PORT FLANGE X 7" LONG	225	1
M300CPG12	3" X 3" FULL PORT FLANGE X 12" LONG	225	1

45° COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
M100CPG45	1" X 1" 45° FLANGE	300	10/BAG
M200CPG45	2" X 2" 45° FLANGE	300	10/BAG
M220CPG45	2" X 2" FULL PORT 45° FLANGE	225	10/BAG
M300CPG45	3" X 3" FULL PORT 45° FLANGE	225	1

MANIFOLD FLANGE CONNECTIONS



90° COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
M100CPG90	1" X 1" 90° FLANGE	300	10/BAG
M200CPG90	2" X 2" 90° FLANGE	300	1
M200CPG90SH	2" X 2" 90° SHORT FLANGE	300	1
M220CPG90	2" X 2" 90° FULL PORT FLANGE	200	1
M300CPG90	3" X 3" 90° FULL PORT FLANGE	200	1

45° Y FLANGED COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
M200YG45	2" FULL PORT 45° Y FLANGE	300	1
M220Y45	2" FULL PORT 45° Y FLANGE	300	1
M220YG45	2" FULL PORT 45° Y FLANGE W 3/4" GAUGE PORT	225	1
M300Y45	3" FULL PORT 45° Y FLANGE	200	1
M300YG45	3" FULL PORT 45° Y FLANGE W 3/4" GAUGE PORT	200	1

REDUCER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
M200100CPG	2" X 1" REDUCER FLANGE	300	10/BAG
M220100CPG	2" FULL PORT X 1" REDUCER FLANGE	225	10/BAG
M220200CPG	2" FULL PORT X 2" REDUCER FLANGE	225	10/BAG
M300200CPG	3" X 2" REDUCER FLANGE	225	1
M300220CPG	3" X 2" FULL PORT REDUCER FLANGE	225	1

TEES

PART NO	DESCRIPTION	MAX PSI	QTY
M100TEE	1" FLANGED TEE	300	10/BAG
M101TEE	1" FLANGED TEE LONG	300	10/BAG
M200100TEE	2" X 1" FLANGED TEE	300	1
M200TEE	2" FLANGED TEE	300	1
M220100TEE	2" FULL PORT FLANGED TEE X 1" FLANGED TEE	225	1
M220200TEE	2" FULL PORT FLANGED TEE X 2" FLANGED TEE	300	1
M220TEE	2" FULL PORT FLANGED TEE	225	1
M300TEE	3" FLANGED TEE	225	1

U BOLTS

PART NO	DESCRIPTION	MAX PSI	QTY
UB100	100 SERIES MOUNTING U BOLT	N/A	1
UB202	2 SERIES MOUNTING U BOLT	N/A	1
UB220	220 SERIES MOUNTING U BOLT	N/A	1

SS BUTT WELD ADAPTER

PART NO	DESCRIPTION	MAX PSI	QTY
M220BWASS	2" FULL PORT STAINLESS STEEL BUTT WELD ADAPTER	300	1

FITTINGS

FEATURES

- Quick and easy assembly
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Where noted, parts must be ordered in bag quantities

MANIFOLD FLANGE CONNECTIONS

FITTINGS

FEATURES

- Quick and easy assembly
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Where noted, parts must be ordered in bag quantities.



BRITISH STANDARD PIPE (BSP)

PART NO	DESCRIPTION	MAX PSI	QTY
M100BSP	1" FLANGE X 1" MALE BSP	300	10/BAG
M200BSP	2" FLANGE X 2" MALE BSP	300	10/BAG
M220BSP	2" FULL PORT FLANGE X 2" MALE BSP	300	10/BAG
M300BSP	3" FULL PORT FLANGE X 3" MALE BSP	300	1

FEMALE NPT THREAD

PART NO	DESCRIPTION	MAX PSI	QTY
M100050FPT	1" FLANGE X 1/2" FEMALE THREAD	300	10/BAG
M100075FPT	1" FLANGE X 3/4" FEMALE THREAD	300	10/BAG
M100FPT	1" FLANGE X 1" FEMALE THREAD	300	10/BAG
M200FPT	2" FLANGE X 2" FEMALE THREAD	300	10/BAG
M220FPT	2" FULL PORT FLANGE X 2" FEMALE THREAD	300	10/BAG
M300FPT	3" FLANGE X 3" FEMALE THREAD	200	1

MALE THREAD

PART NO	DESCRIPTION	MAX PSI	QTY
M100075MPT	1" FLANGE X 3/4" MALE THREAD	300	10/BAG
M100MPT	1" FLANGE X 1" MALE THREAD	300	10/BAG
M100125MPT	1" FLANGE X 1 1/4" MALE THREAD	300	10/BAG
M200125MPT	2" FLANGE X 1 1/4" MALE THREAD	300	10/BAG
M200150MPT	2" FLANGE X 1 1/2" MALE THREAD	300	10/BAG
M200MPT	2" FLANGE X 2" MALE THREAD	300	10/BAG
M220MPT	2" FULL PORT FLANGE X 2" MALE THREAD	300	10/BAG
M300MPT	3" FLANGE X 3" MALE THREAD	300	1

316 SS MALE THREAD

PART NO	DESCRIPTION	MAX PSI	QTY
M100MPTSS	1" FLANGE X 1" MALE THREAD	300	1
M200125MPTSS	2" FLANGE X 1 1/4" MALE THREAD	300	1
M200150MPTSS	2" FLANGE X 1 1/2" MALE THREAD	300	1
M200MPTSS	2" FLANGE X 2" MALE THREAD	300	1
M220150MPTSS	2" FULL PORT FLANGE X 1 1/2" MALE THREAD	300	1
M220MPTSS	2" FULL PORT FLANGE X 2" MALE THREAD	300	1
M300220MPTSS	3" FLANGE X 2" FULL PORT MALE THREAD	300	1
M300MPTSS	3" FLANGE X 3" MALE THREAD	300	1

MANIFOLD FLANGE CONNECTIONS

FITTINGS

FEATURES

- Quick and easy assembly
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Where noted, parts must be ordered in bag quantities

PLUGS

PART NO	DESCRIPTION	MAX PSI	QTY
M100PLG	1" FLANGE PLUG	300	10/BAG
M200PLG	2" FLANGE PLUG	300	10/BAG
M220PLG	2" FULL PORT FLANGE PLUG	300	10/BAG
M300PLG	3" FULL PORT FLANGE PLUG	225	10/BAG
M100PLG025	1" FLANGE PLUG WITH ¼" FPT	300	10/BAG
M100PLG050	1" FLANGE PLUG WITH ½" FPT	300	10/BAG
M200PLG025	2" FLANGE PLUG WITH ¼" FPT	225	10/BAG
M200PLG038	2" FLANGE PLUG WITH ⅜" FPT	300	10/BAG
M200PLG050	2" FLANGE PLUG WITH ½" FPT	225	10/BAG
M200PLG075	2" FLANGE PLUG WITH ¾" FPT	225	10/BAG
M200PLG100	2" FLANGE PLUG WITH 1" FPT	225	10/BAG
M220PLG038	2" FULL PORT FLANGE PLUG WITH ⅜" FPT	150	10/BAG
M220PLG075	2" FULL PORT FLANGE PLUG WITH ¾" FPT	225	10/BAG
M300PLG075	3" FLANGE PLUG WITH ¾" FPT	200	1
M300PLG100	3" FLANGE PLUG WITH 1" FPT	200	1

FEMALE COUPLER

PART NO	DESCRIPTION	MAX PSI	QTY
M220D	2" FULL PORT FLANGE X 2" FEMALE COUPLER	225	1
M303D	3" FULL PORT FLANGE X 3" FEMALE COUPLER WITH 3 ARMS	225	1

MALE ADAPTER

PART NO	DESCRIPTION	MAX PSI	QTY
M100A	1" FLANGE X 1" MALE ADAPTER	300	10/BAG
M200A	2" FLANGE X 2" MALE ADAPTER	300	10/BAG
M220A	2" FULL PORT FLANGE X 2" MALE ADAPTER	225	10/BAG
M300A	3" FULL PORT FLANGE X 3" MALE ADAPTER	100	1

CROSS

PART NO	DESCRIPTION	MAX PSI	QTY
M100CR	1" FLANGED CROSS	300	10/BAG
M200CR	2" FLANGED CROSS	300	1
M220CR	2" FULL PORT FLANGED CROSS	200	1
M300CR	3" FLANGED CROSS	125	1

MANIFOLD FLANGE CONNECTIONS

FITTINGS

FEATURES

- Quick and easy assembly
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Where noted, parts must be ordered in bag quantities.



HOSE BARB

PART NO	DESCRIPTION	MAX PSI	QTY
M100075BRB	1" FLANGE X 3/4" HOSE BARB	300	10/BAG
M100BRB	1" FLANGE X 1" HOSE BARB	300	10/BAG
M100125BRB	1" FLANGE X 1 1/4" HOSE BARB	300	10/BAG
M200100BRB	2" FLANGE X 1" HOSE BARB	300	10/BAG
M200125BRB	2" FLANGE X 1 1/4" HOSE BARB	300	10/BAG
M200150BRB	2" FLANGE X 1 1/2" HOSE BARB	300	10/BAG
M200BRB	2" FLANGE X 2" HOSE BARB	300	10/BAG
M220100BRB	2" FULL PORT FLANGE X 1" HOSE BARB	300	10/BAG
M220125BRB	2" FULL PORT FLANGE X 1 1/4" HOSE BARB	300	10/BAG
M220150BRB	2" FULL PORT FLANGE X 1 1/2" HOSE BARB	300	10/BAG
M220250BRB	2" FULL PORT FLANGE X 2 1/2" HOSE BARB	225	1
M220BRB	2" FULL PORT FLANGE X 2" HOSE BARB	300	10/BAG
M300220BRB	3" FLANGE X 2" FULL PORT HOSE BARB	125	1
M300BRB	3" FLANGE X 3" HOSE BARB	200	1

90° HOSE BARB ELBOW

PART NO	DESCRIPTION	MAX PSI	QTY
M100075BRB90	1" FLANGE X 3/4" 90° HOSE BARB	300	10/BAG
M100BRB90	1" FLANGE X 1" 90° HOSE BARB	300	10/BAG
M100125BRB90	1" FLANGE X 1 1/4" 90° HOSE BARB	300	10/BAG
M100150BRB90	1" FLANGE X 1 1/2" 90° HOSE BARB	300	10/BAG
M200100BRB90	2" FLANGE X 1" 90° HOSE BARB	300	10/BAG
M200125BRB90	2" FLANGE X 1 1/4" 90° HOSE BARB	300	10/BAG
M200150BRB90	2" FLANGE X 1 1/2" 90° HOSE BARB	300	1
M200BRB90	2" FLANGE X 2" 90° HOSE BARB	300	1
M220150BRB90	2" FULL PORT FLANGE X 1 1/2" 90° HOSE BARB	300	1
M220BRB90	2" FULL PORT FLANGE X 2" 90° HOSE BARB	300	1
M300220BRB90	3" FLANGE X 2" 90° FULL PORT HOSE BARB	300	1
M300BRB90	3" FLANGE X 3" 90° HOSE BARB	150	1

45° HOSE BARB ELBOW

PART NO	DESCRIPTION	MAX PSI	QTY
M100BRB45	1" FLANGE X 1" 45° HOSE BARB ELBOW	300	10/BAG
M200BRB45	2" FLANGE X 2" 45° HOSE BARB ELBOW	300	1
M200150BRB45	2" FLANGE X 1 1/2" 45° HOSE BARB ELBOW	300	10/BAG
M220BRB45	2" FULL PORT FLANGE X 2" 45° HOSE BARB ELBOW	300	10/BAG
M300BRB45	3" FLANGE X 3" 45° HOSE BARB ELBOW	150	1

HOSE BARB TEE

PART NO	DESCRIPTION	MAX PSI	QTY
M100100HBT	1" FLANGE X 1" HOSE BARB TEE	300	10/BAG
M100125HBT	1" FLANGE X 1 1/4" HOSE BARB TEE	300	10/BAG
M220200HBT	2" FULL PORT FLANGE X 2" HOSE BARB TEE	300	1
M300300HBT	3" FLANGE X 3" HOSE BARB TEE	150	1

MANIFOLD FLANGE CONNECTIONS



Rib keeps gasket in place during assembly.



BOLTED FLANGE CLAMPS

PART NO	DESCRIPTION	TORQUE	QTY
FC220B	2" FULL PORT BOLTED FLANGE CLAMP	150 IN/LBS	1
FC300B	3" BOLTED FLANGE CLAMP	150 IN/LBS	1

T-BOLT FLANGE CLAMPS

PART NO	DESCRIPTION	TORQUE	QTY
FC220TB	2" FULL PORT HI-TORQUE T-BOLT FLANGE CLAMP	100 IN/LBS	10/BAG
FC300TB	3" FULL PORT HI-TORQUE T-BOLT FLANGE CLAMP	100 IN/LBS	10/BAG

FLANGE CLAMPS

PART NO	DESCRIPTION	TORQUE	QTY
FC100	100 SERIES WORM SCREW CLAMP	50-60 IN/LBS	10/BAG
FC200	200 SERIES WORM SCREW CLAMP	90-100 IN/LBS	10/BAG
FC220	220 SERIES WORM SCREW CLAMP	90-100 IN/LBS	10/BAG
FC300	300 SERIES WORM SCREW CLAMP	90-100 IN/LBS	10/BAG

GASKETS

PART NO	DESCRIPTION	GASKET MATERIAL	QTY
M100G	100 SERIES MANIFOLD GASKET	EPDM	1
M101G	100 SERIES MANIFOLD GASKET WITH RIB	EPDM	1
M100GV	100 SERIES GASKET	FKM	1
150G	200 SERIES GASKET	EPDM	100/BAG
150GV	200 SERIES GASKET	FKM	50/BAG
200G	220 SERIES FULL PORT GASKET	EPDM	50/BAG
200GV	220 SERIES FULL PORT GASKET	FKM	50/BAG
M201G	200 SERIES MANIFOLD GASKET WITH RIB	EPDM	1
M221G	220 SERIES FULL PORT MANIFOLD GASKET WITH RIB	EPDM	1
300G	300 SERIES GASKET	EPDM	25/BAG
300GV	300 SERIES GASKET	FKM	25/BAG
M301G	300 SERIES MANIFOLD GASKET WITH RIB	EPDM	1

FITTINGS

FEATURES

- Quick and easy assembly
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Where noted, parts must be ordered in bag quantities

MANIFOLD FLANGE CONNECTIONS

1"-2" T LINE STRAINERS

FEATURES

- EPDM gaskets
- Poly ribbed 316 stainless steel screens



1" MANIFOLD T LINE STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
MLST100-16	1" MANIFOLD T STRAINER W/16 MESH SCREEN	300	1
MLST100-30	1" MANIFOLD T STRAINER W/30 MESH SCREEN	300	1
MLST100-50	1" MANIFOLD T STRAINER W/50 MESH SCREEN	300	1
MLST100-80	1" MANIFOLD T STRAINER W/80 MESH SCREEN	300	1
MLST100-100	1" MANIFOLD T STRAINER W/100 MESH SCREEN	300	1

2" MANIFOLD T LINE STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
MLST150-16	2" MANIFOLD T STRAINER W/16 MESH SCREEN	225	1
MLST150-30	2" MANIFOLD T STRAINER W/30 MESH SCREEN	225	1
MLST150-50	2" MANIFOLD T STRAINER W/50 MESH SCREEN	225	1
MLST150-80	2" MANIFOLD T STRAINER W/80 MESH SCREEN	225	1
MLST150-80V	2" MANIFOLD T STRAINER W/80 MESH SCREEN WITH FKM GASKETS	225	1
MLST150-100	2" MANIFOLD T STRAINER W/100 MESH SCREEN	225	1

1"-2" Y LINE STRAINERS

FEATURES

- EPDM gaskets
- Poly ribbed 316 stainless steel screens



1" MANIFOLD Y LINE STRAINERS

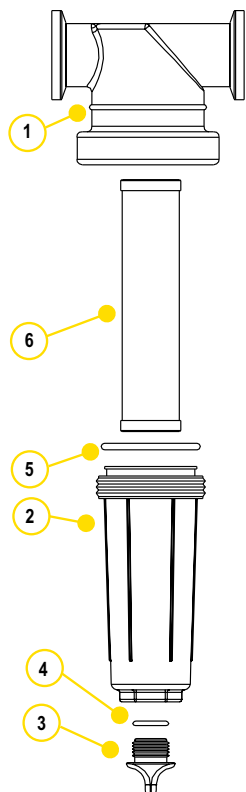
PART NO	DESCRIPTION	MAX PSI	QTY
MLS100-20	1" MANIFOLD Y STRAINER W/20 MESH SCREEN	225	1
MLS100-40	1" MANIFOLD Y STRAINER W/40 MESH SCREEN	225	1
MLS100-50	1" MANIFOLD Y STRAINER W/50 MESH SCREEN	225	1
MLS100-80	1" MANIFOLD Y STRAINER W/80 MESH SCREEN	225	1



2" MANIFOLD Y LINE STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
MLS200-06	2" MANIFOLD Y STRAINER W/6 MESH SCREEN	225	1
MLS200-12	2" MANIFOLD Y STRAINER W/12 MESH SCREEN	225	1
MLS200-20	2" MANIFOLD Y STRAINER W/20 MESH SCREEN	225	1
MLS200-30	2" MANIFOLD Y STRAINER W/30 MESH SCREEN	225	1
MLS200-50	2" MANIFOLD Y STRAINER W/50 MESH SCREEN	225	1
MLS200-50M	2" MANIFOLD Y STRAINER W/MOUNTING BRACKET W/50 MESH SCREEN	225	1
MLS200-80	2" MANIFOLD Y STRAINER W/80 MESH SCREEN	225	1
MLS200-100	2" MANIFOLD Y STRAINER W/100 MESH SCREEN	225	1
MLS200-120	2" MANIFOLD Y STRAINER W/120 MESH SCREEN	225	1

MANIFOLD FLANGE CONNECTIONS



REPLACEMENT PARTS 1"

ITEM	PART NO	DESCRIPTION	QTY
1	MLST100-H	1" T BODY	1
2	LST100-B	1" T BOWL, DRAIN PLUG, O-RING	1
3	12777	1/2" PLUG	1
4	UV15163	O-RING	1
5	LST100-G	1" EPDM GASKET	1
5	LST100-GV	1" FKM GASKET	1
6	LST116	16 MESH SCREEN	1
6	LST130	30 MESH SCREEN	1
6	LST150	50 MESH SCREEN	1
6	LST180	80 MESH SCREEN	1
6	LST1100	100 MESH SCREEN	1
KIT	MLST100-HB	KIT INCLUDES ITEMS 1-5	1

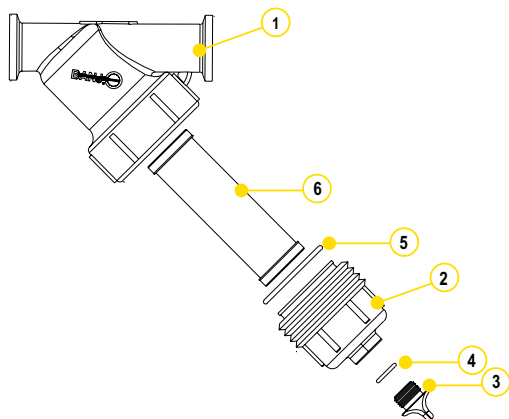
REPLACEMENT PARTS 2"

ITEM	PART NO	DESCRIPTION	QTY
1	MLST150-H	1 1/2" T BODY	1
2	LST150-B	1 1/2" T BOWL, DRAIN PLUG, O-RING	1
3	LSQ200-PL	1 1/2" PLUG	1
4	LSQ200-R	O-RING	1
5	LST150-G	1 1/2" EPDM GASKET	1
5	LST150-GV	1 1/2" FKM GASKET	1
6	LST1516	16 MESH SCREEN	1
6	LST1530	30 MESH SCREEN	1
6	LST1550	50 MESH SCREEN	1
6	LST1580	80 MESH SCREEN	1
6	LST15100	100 MESH SCREEN	1
KIT	MLST150-HB	KIT INCLUDES ITEMS 1-5	1

T LINE STRAINERS

SCREENS

MESH SIZE	RIB COLOR
16 MESH	BROWN RED
30 MESH	FLAME RED
50 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
100 MESH	TRAFFIC GREEN



REPLACEMENT PARTS 1"

ITEM	PART NO	DESCRIPTION	QTY
1	MLS100B	1" Y BODY	1
2	LS100-C1	1" Y BOWL, DRAIN PLUG, O-RING	1
3	12777	1/2" PLUG	1
4	UV15163	O-RING	1
5	LS100-G	1" EPDM GASKET	1
6	LST150	50 MESH SCREEN	1
6	LST180	80 MESH SCREEN	1
KIT	MLS100BC	KIT INCLUDES ITEMS 1-5	1

REPLACEMENT PARTS 2"

ITEM	PART NO	DESCRIPTION	QTY
1	MLS200B	2" Y BODY	1
2	LS150-C	2" Y BOWL, DRAIN PLUG, O-RING	1
3	LSQ200-PL	2" PLUG	1
4	LSQ200-R	O-RING	1
5	LS150-G	2" EPDM GASKET	1
5	LS150-GV	2" FKM GASKET	1
6	LS206	6 MESH SCREEN	1
6	LS212	12 MESH SCREEN	1
6	LS220	20 MESH SCREEN	1
6	LS230	30 MESH SCREEN	1
6	LS250	50 MESH SCREEN	1
6	LS280	80 MESH SCREEN	1
6	LS2100	100 MESH SCREEN	1
6	LS2120	120 MESH SCREEN	1
KIT	MLS200BC	KIT INCLUDES ITEMS 1-5	1

Y LINE STRAINERS

SCREENS

MESH SIZE	RIB COLOR
6 MESH	WHITE
12 MESH	BLACK
20 MESH	BEIGE
30 MESH	FLAME RED
40 MESH	BROWN
50 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
100 MESH	TRAFFIC GREEN
120 MESH	BLACK

MANIFOLD FLANGE CONNECTIONS

2" FULL PORT Y LINE STRAINERS

FEATURES

- EPDM gaskets
- 316 stainless steel screens



2" MANIFOLD Y LINE STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
MLS222-04	2" FULL PORT MANIFOLD Y STRAINER W/4 MESH SCREEN	225	1
MLS222-06	2" FULL PORT MANIFOLD Y STRAINER W/6 MESH SCREEN	225	1
MLS222-08	2" FULL PORT MANIFOLD Y STRAINER W/8 MESH SCREEN	225	1
MLS222-10	2" FULL PORT MANIFOLD Y STRAINER W/12 MESH SCREEN	225	1
MLS222-16	2" FULL PORT MANIFOLD Y STRAINER W/20 MESH SCREEN	225	1
MLS222-30	2" FULL PORT MANIFOLD Y STRAINER W/30 MESH SCREEN	225	1
MLS222-50	2" FULL PORT MANIFOLD Y STRAINER W/50 MESH SCREEN	225	1
MLS222-80	2" FULL PORT MANIFOLD Y STRAINER W/80 MESH SCREEN	225	1
MLS222-100	2" FULL PORT MANIFOLD Y STRAINER W/100 MESH SCREEN	225	1

3" Y LINE STRAINERS

FEATURES

- EPDM gaskets
- 304 stainless steel screens
- Must use on suction side or non-pressure side in all applications



3" MANIFOLD Y LINE STRAINERS

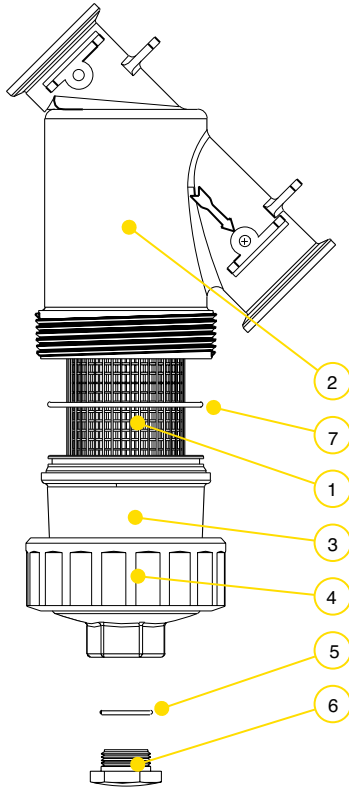
PART NO	DESCRIPTION	MAX PSI	QTY
MLS300-08	3" MANIFOLD Y STRAINER W/8 MESH SCREEN	100	1
MLS300-12	3" MANIFOLD Y STRAINER W/12 MESH SCREEN	100	1
MLS300-20	3" MANIFOLD Y STRAINER W/20 MESH SCREEN	100	1
MLS300-50	3" MANIFOLD Y STRAINER W/50 MESH SCREEN	100	1

MANIFOLD FLANGE CONNECTIONS

2" FULL PORT Y LINE STRAINERS

FEATURES

- EPDM gaskets
- 316 stainless steel screens



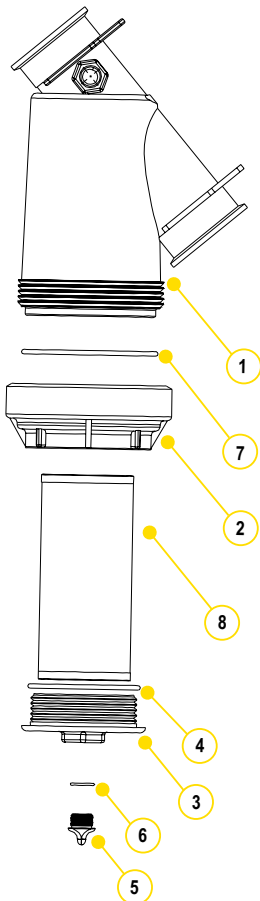
REPLACEMENT PARTS 2"

ITEM	PART NO	DESCRIPTION	QTY
1	LST204SS	4 SS MESH SCREEN	1
1	LST206SS	6 SS MESH SCREEN	1
1	LST208SS	8 SS MESH SCREEN	1
1	LST210SS	10 SS MESH SCREEN	1
1	LST216SS	16 SS MESH SCREEN	1
1	LST230SS	30 SS MESH SCREEN	1
1	LST250SS	50 SS MESH SCREEN	1
1	MLS250SS	50 SS MESH PERFORATED SCREEN	1
1	LST280SS	80 SS MESH SCREEN	1
1	MLS280SS	80 SS MESH PERFORATED SCREEN	1
1	LST2100SS	100 SS MESH SCREEN	1
1	MLS2100SS	100 SS MESH PERFORATED SCREEN	1
2	MLS222B	2" FLANGED Y STRAINER BODY	1
3	MLS220C1	2" FLANGED Y STRAINER CAP	1
4	MLS220R1	2" FLANGED Y STRAINER RING	1
5	LSQ200-R	2" PLUG GASKET	1
6	LSQ200-PL	2" PLUG	1
7	MLS220G1	2" BODY GASKET	1
2-7	MLS222BC	STRAINER WITHOUT SCREEN	1

3" Y LINE STRAINERS

FEATURES

- EPDM gaskets
- 304 stainless steel screens
- Must use on suction side or non-pressure side in all applications



REPLACEMENT PARTS 3"

ITEM	PART NO	DESCRIPTION	QTY
1	MLS300B	3" FLANGED Y STRAINER BODY	1
2	MLS300CAP	3" FLANGED Y STRAINER CAP	1
3	LS300EC	3" END CAP	1
4	MLS300ECG	3" EPDM END CAP GASKET	1
4	MLS300ECGV	3" FKM END CAP GASKET	1
5	13777	3/4" PLUG	1
6	13778	O-RING	1
7	MLS300G	3" EPDM CAP GASKET	1
7	MLS300GV	3" FKM CAP GASKET	1
8	LS304	4 SS MESH SCREEN	1
8	LS308	8 SS MESH SCREEN	1
8	LS312	12 SS MESH SCREEN	1
8	LS320	20 SS MESH SCREEN	1
8	LS350	50 SS MESH SCREEN	1
1-7	MLS300BC	STRAINER WITHOUT SCREEN	1

MANIFOLD FLANGE CONNECTIONS

BOTTOM DRAIN BOLTED TANK FITTINGS

FEATURES

- Stainless steel bolts
- Bolt head plugs sealed ultrasonically
- Glass reinforced polypropylene
- EPDM standard
- FKM available



BOTTOM DRAIN BOLTED TANK FITTINGS

PART NO	DESCRIPTION	MAX PSI	QTY
MBF100BD	1" FLANGE X 1" EPDM FEMALE THREAD	150	27
MBF100BDV	1" FLANGE X 1" FKM FEMALE THREAD	150	27
MBF150200BD	2" FLANGE X 1½" EPDM FEMALE THREAD	150	27
MBF200BD	2" FLANGE X 2" EPDM FEMALE THREAD	150	25
MBF220BD	2" FULL PORT FLANGE X 2" EPDM FEMALE THREAD	150	27
MBF300BD	3" FLANGE X 3" EPDM FEMALE THREAD	150	16
MBF300BDV	3" FLANGE X 3" FKM FEMALE THREAD	150	16

BOTTOM DRAIN TANK FITTINGS

FEATURES

- Stainless steel bolts
- Bolt head plugs sealed ultrasonically
- Glass reinforced polypropylene
- EPDM standard
- Groove allows more drainage
- Gasket not included



BOTTOM DRAIN BOLTED TANK FITTINGS

PART NO	DESCRIPTION	HOLE SIZE	MAX PSI	QTY
MTF220BD	2" FULL PORT FLANGE X 2" EPDM FLANGE	3¼"	300	1
MTF300BD	3" FLANGE X 3" EPDM FLANGE	4½"	200	1

BOLTED TANK FITTINGS

FEATURES

- Stainless steel bolts
- Bolt head plugs sealed ultrasonically
- Glass reinforced polypropylene
- EPDM standard
- FKM available



BOLTED TANK FITTINGS

PART NO	DESCRIPTION	MAX PSI	QTY
MBF100	1" FLANGE X 1" EPDM FEMALE THREAD	150	27
MBF100V	1" FLANGE X 1" FKM FEMALE THREAD	150	27
MBF200	2" FLANGE X 2" EPDM FEMALE THREAD	150	27
MBF200V	2" FLANGE X 2" FKM FEMALE THREAD	150	27
MBF220	2" FULL PORT FLANGE X 2" EPDM FEMALE THREAD	150	27
MBF220V	2" FULL PORT FLANGE X 2" FKM FEMALE THREAD	150	27
MBF300	3" FLANGE X 3" EPDM FEMALE THREAD	150	27
MBF300V	3" FLANGE X 3" FKM FEMALE THREAD	150	27

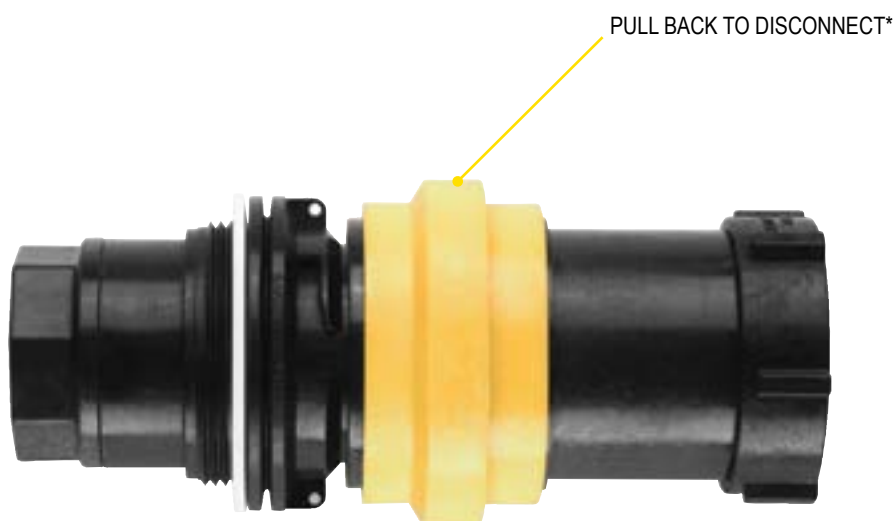
DRY POPPET COUPLINGS

FEATURES

- Lightweight
- Minimal fluid spillage
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Maximum operating temperature 150° F
- 30 GPM maximum flow
- Precision molded in polypropylene
- 1" female NPT threads

APPLICATIONS

- Agriculture
- Industrial
- Pharmaceutical
- Chemical processing



DRY POPPET COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
DPCF100	FEMALE DRY POPPET COUPLER, 1" FEMALE NPT THREADS W/ FKM SEALS	100	1
DPCM100	MALE DRY POPPET ADAPTER, 1" FEMALE NPT THREADS W/ FKM SEALS	150	1
DPCMT100	MALE DRY POPPET ADAPTER, W/2" MALE THREADED BODY 1" FEMALE NPT THREADS W/ FKM SEALS	150	1

***Note:** Male adapter and female coupler shown coupled together but sold separately.

DRY-MATES

1½" POLY DRY-MATES

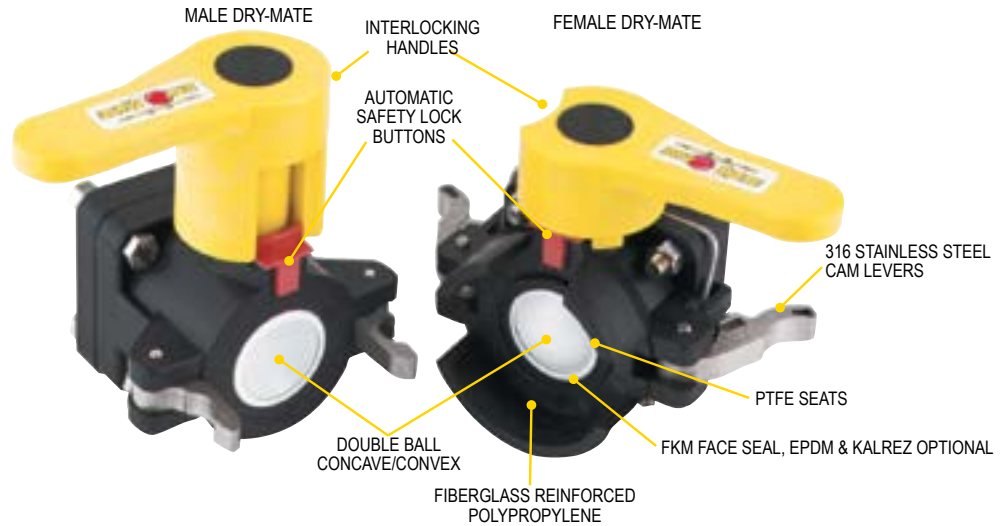
FEATURES

- Lightweight
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Unrestricted 1½" flow
- Patented double ball design with cam lever connection
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 1½" = 3ml



REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring

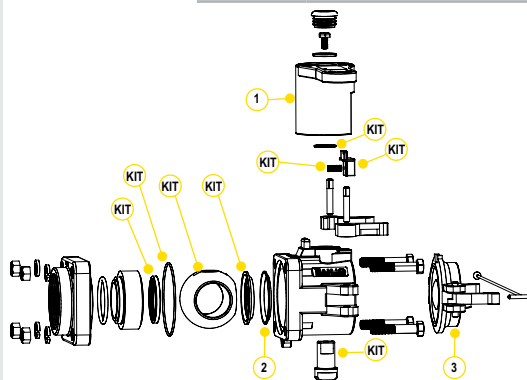


1½" POLY MALE DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM150A	1½" MALE X FPT NPT W/FKM SEALS	100	1½"	1½"	1
DM150AE	1½" MALE X FPT NPT W/EPDM SEALS	100	1½"	1½"	1
DM150AT	1½" MALE X FPT NPT W/ KALREZ® SEALS	100	1½"	1½"	1
DM150AB	1½" MALE X FPT BSP W/FKM SEALS	100	1½"	1½"	1
DM150ABE	1½" MALE X FPT BSP W/EPDM SEALS	100	1½"	1½"	1
DM150ABT	1½" MALE X FPT BSP W/ KALREZ® SEALS	100	1½"	1½"	1

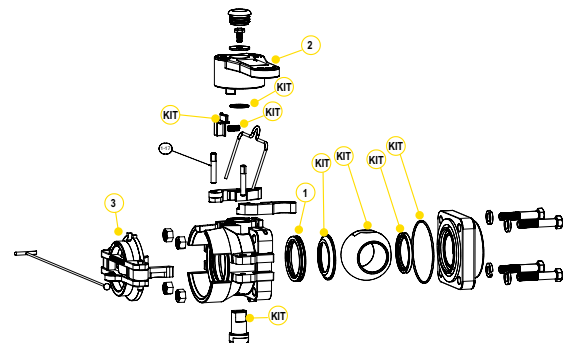
1½" POLY FEMALE DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM150D	1½" FEMALE X FPT NPT W/FKM SEALS	100	1½"	1½"	1
DM150DE	1½" FEMALE NPT W/EPDM SEALS	100	1½"	1½"	1
DM150DT	1½" FEMALE NPT W/KALREZ® SEALS	100	1½"	1½"	1
DM150DB	1½" FEMALE X FPT BSP W/FKM SEALS	100	1½"	1½"	1
DM150DBE	1½" FEMALE X FPT BSP W/EPDM SEALS	100	1½"	1½"	1
DM150DBT	1½" FEMALE X FPT BSP W/ KALREZ® SEALS	100	1½"	1½"	1



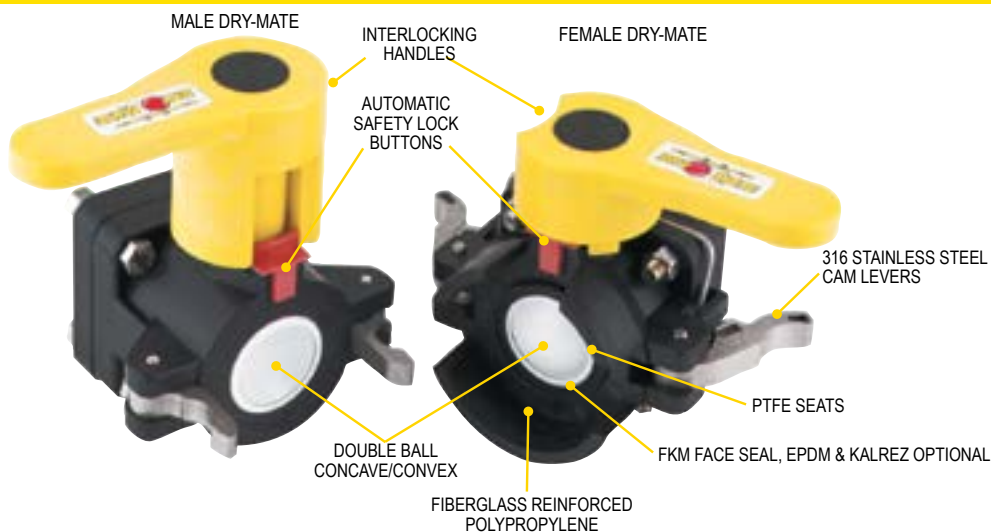
REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20153M	MALE HANDLE	1
1	DB20153M	LOW PROFILE HANDLE	1
2	DB20290	FKM FACE SEAL	1
2	DM20295A	EPDM FACE SEAL	1
2	DM20296	KALREZ® FACE SEAL	1
3	DM200CAP	DUST CAP	1
KIT	DM20200A	REPAIR KIT FOR DM150A	1



REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM20153F	FEMALE HANDLE	1
3	DM200PL	DUST PLUG	1
KIT	DM20200D	REPAIR KIT FOR DM150D	1



2" POLY MALE DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM200A	2" MALE X FPT NPT W/FKM SEALS	100	2"	1½"	1
DM200AB	2" MALE X FPT BSP W/FKM SEALS	100	2"	1½"	1
DM200AE	2" MALE X FPT NPT W/EPDM SEALS	100	2"	1½"	1
DM200AT	2" MALE X FPT NPT W/ KALREZ® SEALS	100	2"	1½"	1
DMMT201A	2" MALE X MALE NPT W/LOW PROFILE HANDLE	100	2"	1½"	1
DMMT201AE	2" MALE X MALE NPT W/LOW PROFILE HANDLE W/EPDM SEALS	100	2"	1½"	1

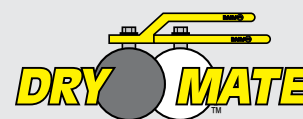
2" POLY FEMALE DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM200D	2" FEMALE X FPT NPT W/FKM SEALS	100	2"	1½"	1
DM200DB	2" FEMALE X FPT BSP W/FKM SEALS	100	2"	1½"	1
DM200DE	2" FEMALE W/EPDM SEALS	100	2"	1½"	1
DM200DT	2" FEMALE W/KALREZ® SEALS	100	2"	1½"	1

2" POLY DRY-MATES

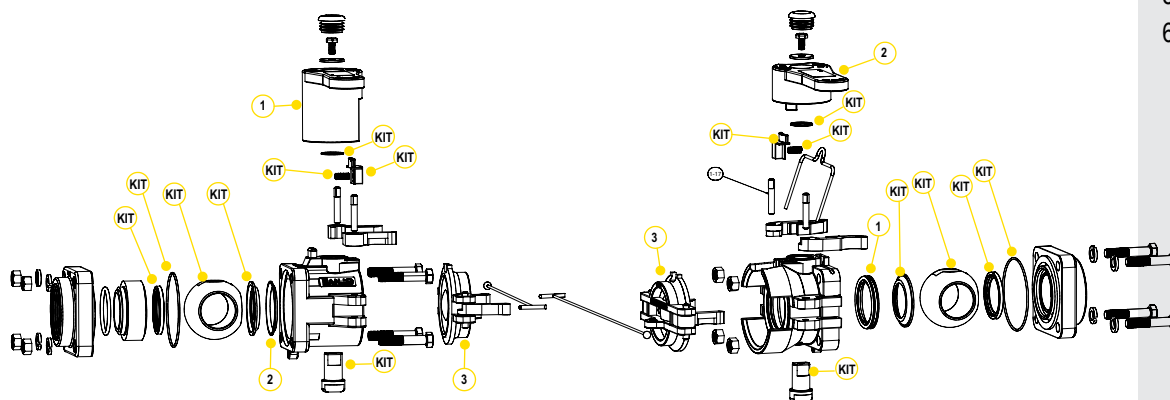
FEATURES

- Lightweight
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Unrestricted 1½" flow
- Patented double ball design with cam lever connection
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 2" = 4ml



REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20153M	MALE HANDLE	1
1	DB20153M	LOW PROFILE HANDLE	1
2	DB20290	FKM FACE SEAL	1
2	DM20295A	EPDM FACE SEAL	1
2	DM20296	KALREZ® FACE SEAL	1
3	DM200CAP	DUST CAP	1
KIT	DM20200A	REPAIR KIT FOR DM200A	1

REPLACEMENT PARTS FEMALE

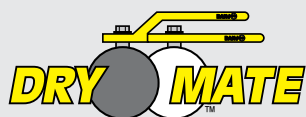
ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM20153F	FEMALE HANDLE	1
3	DM200PL	DUST PLUG	1
KIT	DM20200D	REPAIR KIT FOR DM200D	1

DRY-MATES

2" FULL PORT POLY DRY-MATES

FEATURES

- Lightweight
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Unrestricted 2" flow
- Patented double ball design with cam lever connection
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 2" = 2ml

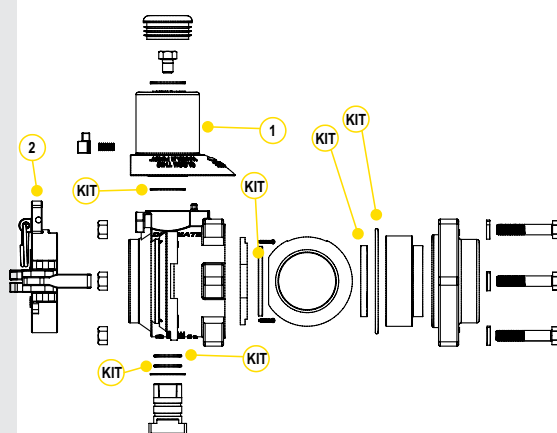


2" FULL PORT POLY DRY-MATES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM220D	2" FEMALE BSP X FPT NPT W/FKM SEALS	225	2"	2"	1
DM220DB	2" FEMALE X FPT NPT W/FKM SEALS	225	2"	2"	1
DM220A	2" MALE X FPT W/FKM SEALS	225	2"	2"	1
DM220AB	2" MALE BSP X FPT W/FKM SEALS	225	2"	2"	1

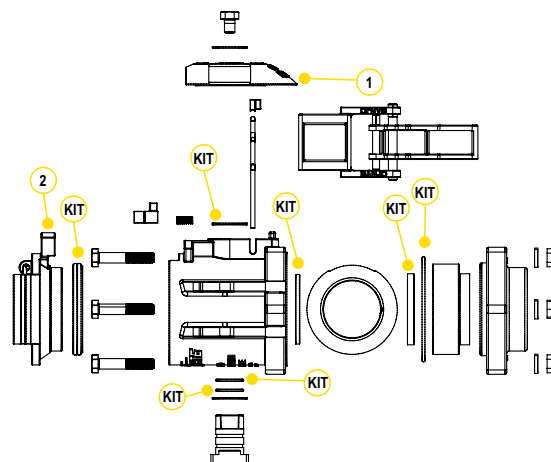
REPAIR KIT INCLUDES:

1. Body gasket
2. Thrust washer
3. Ball seats
4. Upper stem bushing
5. Stem o-ring
6. Face seal



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM25153M	MALE HANDLE	1
2	DM220CAP	DUST CAP	1
KIT	DM25200	REPAIR KIT	1



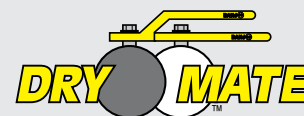
REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM25153F	FEMALE HANDLE	1
2	DM221PL	DUST PLUG	1
KIT	DM25200	REPAIR KIT	1

3" FULL PORT POLY DRY-MATES

FEATURES

- Lightweight
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Unrestricted 3" flow
- Patented double ball design with cam lever connection
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 3" = 15ml



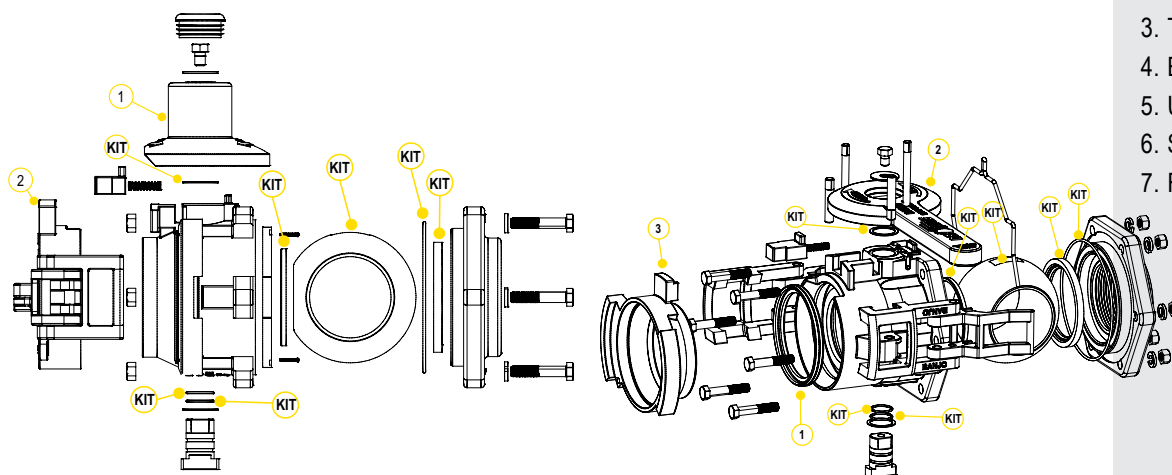
REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring
7. Face seal



3" FULL PORT POLY DRY-MATES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM300AFP	3" FP MALE X 3" FEMALE NPT THREADS W/ FKM SEALS	150	3"	3"	1
DM300ABFP	3" FP MALE X 3" BSP THREADS W/ FKM SEALS	150	3"	3"	1
DM300DFP	3" FP FEMALE X 3" FEMALE NPT THREADS W/ FKM SEALS	150	3"	3"	1
DM300DBFP	3" FP FEMALE X 3" BSP THREADS W/ FKM SEALS	150	3"	3"	1



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM35153M	MALE HANDLE	1
2	DM300CAP	DUST CAP	1
KIT	DM35200	REPAIR KIT	1

REPLACEMENT PARTS FEMALE

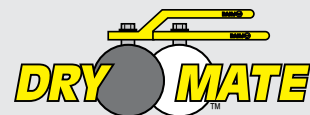
ITEM	PART NO	DESCRIPTION	QTY
1	DM35294	FACE SEAL FKM	1
2	DM35153F	FEMALE HANDLE	1
3	DM300PL	DUST PLUG	1
KIT	DM35200	REPAIR KIT	1

DRY-MATES

1" FULL PORT STAINLESS STEEL DRY-MATES

FEATURES

- 316 stainless steel construction
- Unrestricted 1" flow
- Patented double ball design with cam lever connection
- 300°F maximum operating temperature
- 100% PTFE ball seats
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 1" = 1ml



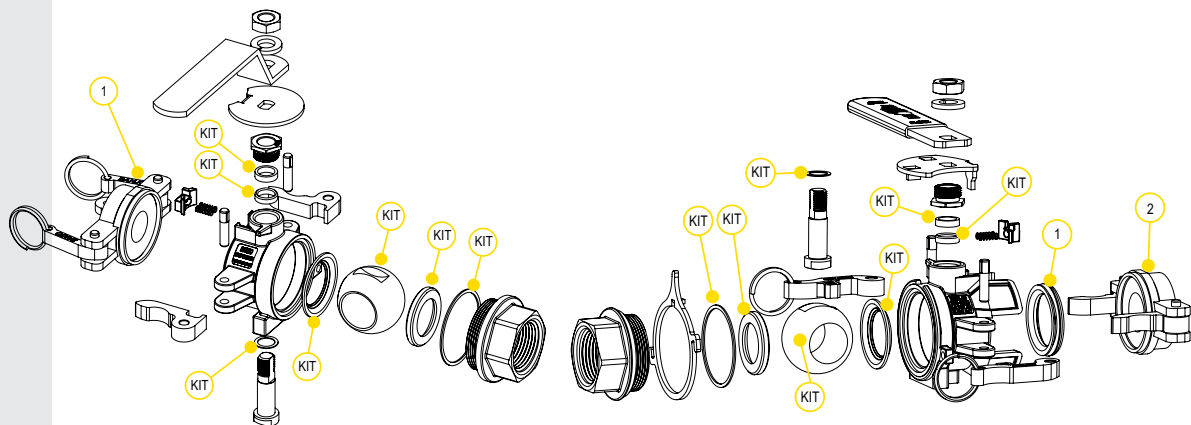
REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring
7. Face seal



1" FULL PORT STAINLESS STEEL DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM100ASS	1" MALE X FPT NPT W/ PTFE SEALS	150	1"	1"	1
DM100ABSS	1" MALE X FPT BSP W/ PTFE SEALS	150	1"	1"	1
DM100DSS	1" FEMALE X FPT NPT W/ FKM SEALS	150	1"	1"	1
DM100DSSE	1" FEMALE X FPT NPT W/ EPDM SEALS	150	1"	1"	1
DM100DSST	1" FEMALE X FPT NPT W/ KALREZ® SEALS	150	1"	1"	1
DM100DBSS	1" FEMALE X FPT BSP W/ FKM SEALS	150	1"	1"	1
DM100DBSSE	1" FEMALE X FPT BSP W/ EPDM SEALS	150	1"	1"	1
DM100DBSST	1" FEMALE X FPT BSP W/ KALREZ® SEALS	150	1"	1"	1



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM100CAP	DUST CAP	1
KIT	DM101SS	REPAIR KIT	1

REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM10294A	FKM FACE SEAL	1
1	DM10295A	EPDM FACE SEAL	1
1	DM10296	KALREZ® FACE SEAL	1
2	DM100PL	POLY PLUG	1
KIT	DM102SSV	FKM REPAIR KIT	1
KIT	DM102SSE	EPDM REPAIR KIT	1
KIT	DM102SST	KALREZ® REPAIR KIT	1



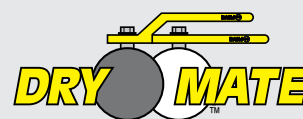
1 1/2" FULL PORT STAINLESS STEEL DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM150ASS	1 1/2" MALE X FPT NPT W/ PTFE SEALS	150	1 1/2"	1 1/2"	1
DM150ABSS	1 1/2" MALE X FPT BSP W/ PTFE SEALS	150	1 1/2"	1 1/2"	1
DM150DSS	1 1/2" FEMALE X FPT NPT W/ FKM SEALS	150	1 1/2"	1 1/2"	1
DM150DSSE	1 1/2" FEMALE X FPT NPT W/ EPDM SEALS	150	1 1/2"	1 1/2"	1
DM150DSST	1 1/2" FEMALE X FPT NPT W/ KALREZ® SEALS	150	1 1/2"	1 1/2"	1
DM150DBSS	1 1/2" FEMALE X FPT BSP W/ FKM SEALS	150	1 1/2"	1 1/2"	1
DM150DBSSE	1 1/2" FEMALE X FPT BSP W/ EPDM SEALS	150	1 1/2"	1 1/2"	1

1 1/2" FULL PORT STAINLESS STEEL DRY-MATES

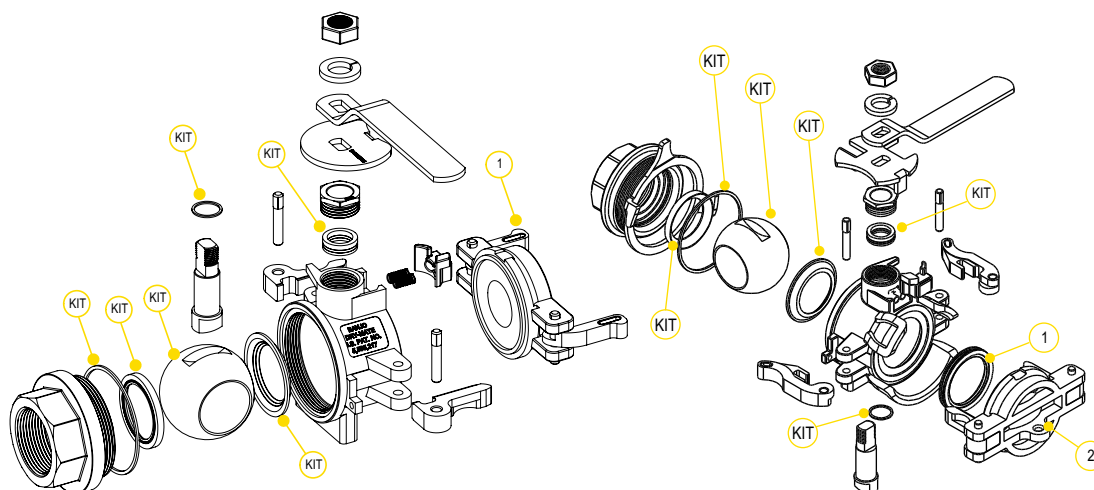
FEATURES

- 316 stainless steel construction
- Unrestricted 1 1/2" flow
- Patented double ball design with cam lever connection
- 300°F maximum operating temperature
- 100% PTFE ball seats
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 1 1/2" = 2ml



REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring
7. Face seal



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM200ACAP	DUST CAP	1
KIT	DM201SS	REPAIR KIT	1

REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM200APL	DUST PLUG	1
KIT	DM202SSV	FKM REPAIR KIT	1
KIT	DM202SSE	EPDM REPAIR KIT	1
KIT	DM202SST	KALREZ® REPAIR KIT	1

DRY-MATES

2" STAINLESS STEEL DRY-MATES

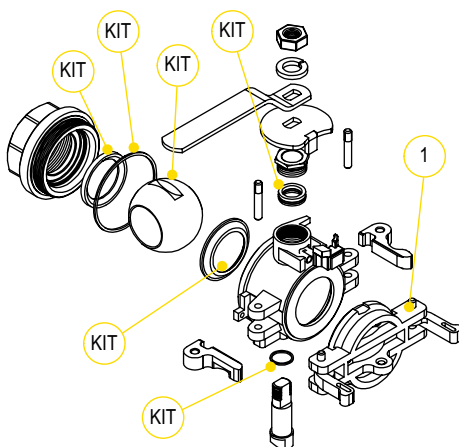
FEATURES

- 316 stainless steel construction
- Patented double ball design with cam lever connection
- 300°F maximum operating temperature
- 100% PTFE ball seats
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 2" = 2ml



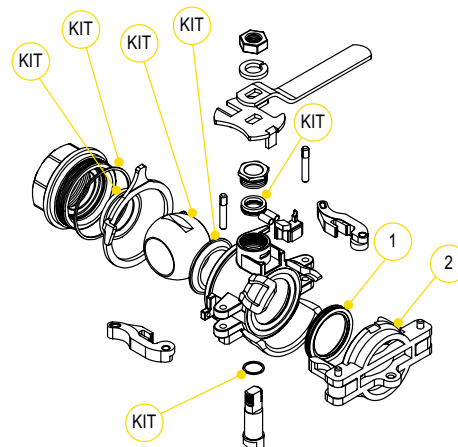
REPAIR KIT INCLUDES:

1. Ball
2. Body gasket
3. Thrust washer
4. Ball seats
5. Upper stem bushing
6. Stem o-ring
7. Face seal



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM200ACAP	DUST CAP	1
KIT	DM201SS	REPAIR KIT	1



REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM200APL	POLY PLUG	1
KIT	DM202SSV	FKM REPAIR KIT	1
KIT	DM202SSE	EPDM REPAIR KIT	1
KIT	DM202SST	KALREZ® REPAIR KIT	1

2" FULL PORT STAINLESS STEEL DRY-MATES

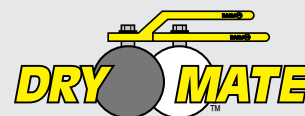
FEATURES

- 316 stainless steel construction
- Unrestricted 2" flow
- Patented double ball design with cam lever connection
- 300°F maximum operating temperature
- 100% PTFE ball seats
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps
- Spillage data: 2" FP = 2.5ml



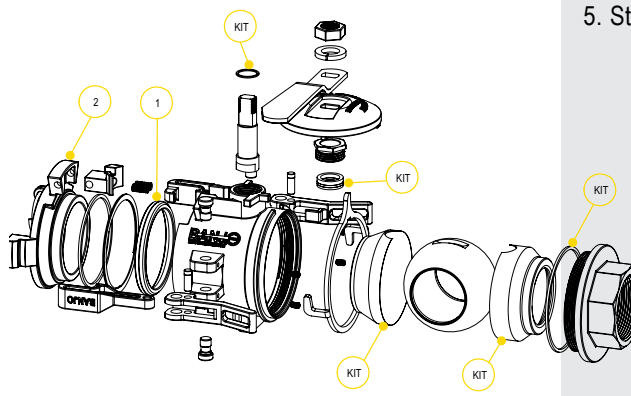
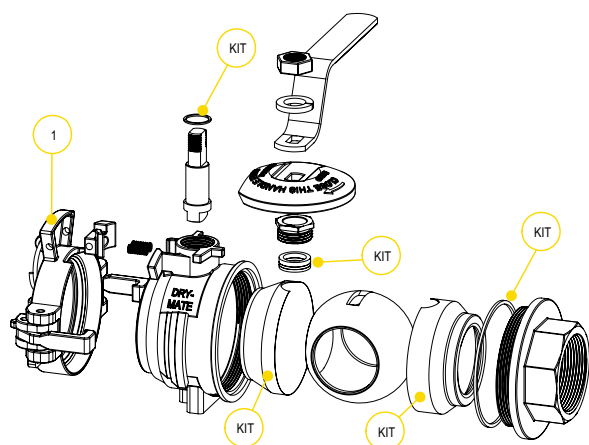
2" FULL PORT STAINLESS STEEL DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM220ASS	2" FULL PORT MALE X FPT NPT W/ PTFE SEALS	300	2"	2"	1
DM220ABSS	2" FULL PORT MALE X FPT BSP W/ PTFE SEALS	300	2"	2"	1
DM220DSS	2" FULL PORT FEMALE X FPT NPT W/ FKM SEALS	300	2"	2"	1
DM220DSSE	2" FULL PORT FEMALE X FPT NPT W/ EPDM SEALS	300	2"	2"	1
DM220DSST	2" FULL PORT FEMALE X FPT NPT W/ KALREZ® SEALS	300	2"	2"	1
DM220DBSS	2" FULL PORT FEMALE X FPT BSP W/ FKM SEALS	300	2"	2"	1



REPAIR KIT INCLUDES:

1. Body gasket
2. Thrust washer
3. Ball seats
4. Upper stem bushing
5. Stem o-ring



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM220CAP	DUST CAP	1
KIT	DM221SS	REPAIR KIT	1

REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM25294	FKM FACE SEAL	1
1	DM25294E	EPDM FACE SEAL	1
1	DM25294T	KALREZ® FACE SEAL	1
2	DM220PL	DUST PLUG	1
KIT	DM222SS	REPAIR KIT	1

CLOSED TRANSFER SYSTEM
ADAPTERS

FEATURES

- Allows to safely and properly flush chemical containers



CLOSED TRANSFER SYSTEM ADAPTERS				
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	QTY
CTS200AR	CLOSED MIX BOTTLE ADAPTER	40	63 MM BTL	1
CTS200D	TANK ADAPTER W/2" MALE NPT THREADS	40	2"	1

SPIN WELD BALL VALVES

FEATURES

- PTFE seats
- FKM stem o-rings
- Precision molded polypropylene is reinforced with fiberglass for additional strength
- Zinc alloy collar
- FKM, EPDM and Santoprene collar gaskets available
- Handles close in either direction
- For faster shipping, order in box quantities



SPINWELD BALL VALVE

PART NO	DESCRIPTION	GASKET MATERIAL	COLLAR FITS	COLLAR NUMBER	COLLAR ID	MAX PSI	QTY
W230237	2" POLY SPINWELD VALVE W/NPT OUTLET & CAP & FOIL SEAL	FKM	MAUSER®	V22283 C & D	2 1/4"	20	24/BOX
W230238	2" POLY SPINWELD VALVE W/QDC OUTLET & CAP & FOIL SEAL	FKM	MAUSER®	V22283 C & D	2 1/4"	20	24/BOX
W230239	2" POLY SPINWELD VALVE W/NPT OUTLET & CAP & FOIL SEAL	EPDM	MAUSER®	V22283 C & D	2 1/4"	20	24/BOX
W230240	2" POLY SPINWELD VALVE W/QDC OUTLET & CAP & FOIL SEAL	EPDM	MAUSER®	V22283 C & D	2 1/4"	20	24/BOX
WSF210FSA	2" POLY SPINWELD VALVE W/QDC OUTLET, FOIL SEAL & CAP	SANTOPRENE	SCHUTZ®	V20280 A & B	2 3/4"	50	24/BOX
WSF210FSAV	2" POLY SPINWELD VALVE W/QDC OUTLET, FOIL SEAL & CAP	FKM	SCHUTZ®	V20280 A & B	2 3/4"	50	24/BOX
WSMT210FSA	2" POLY SPINWELD VALVE W/NPT OUTLET, FOIL SEAL & CAP	SANTOPRENE	SCHUTZ®	V20280 A & B	2 3/4"	225	24/BOX
WSMT210FSAV	2" POLY SPINWELD VALVE W/NPT OUTLET, FOIL SEAL & CAP	FKM	SCHUTZ®	V20280 A & B	2 3/4"	225	24/BOX

IBC/TANK ACCESSORIES

FDA UNION VALVE AND ADAPTERS

FEATURES

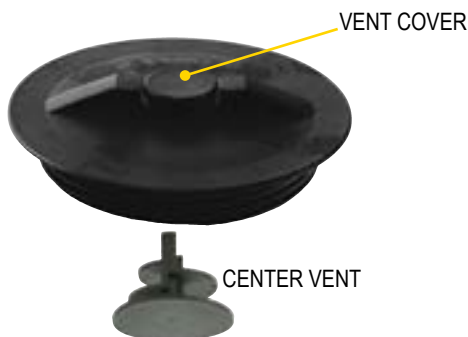
- Precision molded in glass reinforced polypropylene for strength and chemical resistance
- PTFE seats or smooth operation and proper sealing characteristics
- Double EPDM o-rings in stem area for extra sealing protection
- Interlocking body and end plate to allow easy thread connection when installing valves



UNION VALVE AND ADAPTERS

PART NO	DESCRIPTION	MAX PSI	QTY
MBP200	2" BUTTRESS X 2" NPT ASSEMBLY	200	1
NIP2101	2" NPT X BSP NIPPLE	300	1
UV204FPFD	2" FDA UNION VALVE WITH EPDM	225	1

IBC/TANK ACCESSORIES



IBC SOLID TANK LIDS

PART NO	DESCRIPTION	GASKET	QTY
TL650S	6" SOLID TANK LID W/GASKET	SANTOPRENE	1
TL650E	6" SOLID TANK LID W/GASKET	EPDM	1

IBC TANK LID WITH UNVENTED PLUG

PART NO	DESCRIPTION	GASKET	QTY
TL651S	6" TANK LID W/ UNVENTED 2" PLUG W/GASKET	SANTOPRENE	1

IBC TANK LIDS WITH VENTED PLUG

PART NO	DESCRIPTION	GASKET	QTY
TL652S	6" TANK LID W/ VENTED 2" PLUG W/GASKET	SANTOPRENE	1
TL652E	6" TANK LID VENTED 2" PLUG W/GASKET	EPDM	1

TANK LID FOR SPRAY TANKS

PART NO	DESCRIPTION	GASKET	QTY
TL600C	6" VENTED TANK LID	N/A	1

VENTED TANK LIDS

PART NO	DESCRIPTION	GASKET	QTY
TLVA10	10" VENTED TANK LID & RING ASSEMBLY (NEW STYLE)	N/A	1
TLA10	10" VENTED TANK LID & RING ASSEMBLY (OLD STYLE)	N/A	1
TLV10R	10" VENTED TANK LID ASSEMBLY W/O RING	N/A	1
TLV2	CENTER VENT	N/A	1

TANK LIDS

FEATURES

- Maximum air flow through vent channels
- Airflow equivalent to a 3" hole
- No secondary venting needed
- Baffled vents
- Center vent goes in underside of lid
- NPT Threads

SIPHON TUBES

PART NO	DESCRIPTION	QTY
ST200	2" POLY SIPHON TUBE	1
ST300	3" POLY SIPHON TUBE	1

SIPHON TUBES

FEATURES

- Full flow size
- Long length
- Male NPT threads
- Made of polypropylene



IBC/TANK ACCESSORIES

POLYPROPYLENE ACCESSORIES

FEATURES

- Glass reinforced polypropylene



BUTTRESS BY MALE ADAPTER

PART NO	DESCRIPTION	GASKET	PSI	QTY
TA283	2" BUTTRESS X 2" MALE NPT THREADS W/GASKET	SANTOPRENE	300	1
TA283QD	2" BUTTRESS X 2" MALE ADAPTER QDC W GASKET	SANTOPRENE	150	1



CAPS

PART NO	DESCRIPTION	PSI	QTY
201FPT	2" FEMALE NPT CAP - BLACK	20	1
211FPT	2" FEMALE NPT CAP - YELLOW	20	1



BUNG PLUGS

PART NO	DESCRIPTION	QTY
231MPT	2" MPT SOLID BUNG W/ EPDM GASKET	1
231MPTBN	2" MPT SOLID BUNG W/ BUNA NITRILE GASKET	1
TL6531	2" VENTED PLUG W/ EPDM GASKET	1



DUST CAPS & LANYARD

PART NO	DESCRIPTION	PSI	QTY
200CAP	2" CAM LEVER DUST CAP	200	1
200CAPSH	2" CAM LEVER DUST CAP WITH SHORT ARMS	200	1
201CAPSH	2" CAM LEVER DUST CAP W/SHORT ARMS & RINGS	200	1
202CAP	2" CAM LEVER DUST CAP	20	1
V20207	11" POLYURETHANE LANYARD	N/A	1



BOLTED TANK FLANGES

PART NO	DESCRIPTION	PSI	QTY
BF075	¾" X 1" THREADED EPDM FLANGE	150	27
BF100	1" X 1" THREADED EPDM FLANGE	150	27
BF100V	1" X 1" THREADED FKM FLANGE	150	27
BF125	1¼" X 1" THREADED EPDM FLANGE	150	27
BF150	1½" X 2" THREADED EPDM FLANGE	150	27
BF200	2" X 2" THREADED EPDM FLANGE	150	27
BF200V	2" X 2" THREADED FKM FLANGE	150	27
BF220	2" X 2" FULL PORT THREADED EPDM FLANGE	150	27
BF220V	2" X 2" FULL PORT THREADED FKM FLANGE	150	27
BF300	3" X 3" THREADED EPDM FLANGE	150	16

BOLTED TANK FLANGE GASKETS

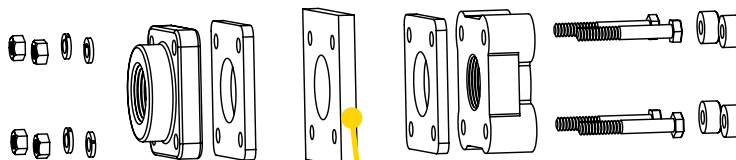
PART NO	DESCRIPTION	PSI	QTY
BF100GE	1" FULL EPDM GASKET	N/A	1
BF200GE	1½" & 2" FULL EPDM GASKET	N/A	1
BF200GV	1½" & 2" FULL FKM GASKET	N/A	1
BF220GE	2" FULL PORT EPDM GASKET	N/A	1
BF220GV	2" FULL PORT FKM GASKET	N/A	1
BF300GE	3" FULL EPDM GASKET	N/A	1
BF300GV	3" FULL FKM GASKET	N/A	1

BOLTED TANK FLANGES

FEATURES

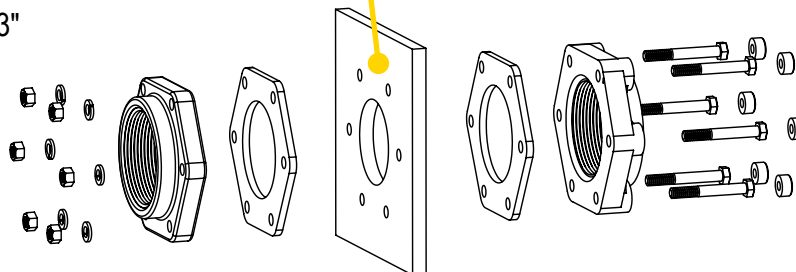
- Stainless steel bolts
- Bolt head plugs ultrasonically sealed
- Glass reinforced polypropylene
- EPDM gaskets standard and FKM available
- **WARNING:** Do not tighten tank flange bolts more than 12 ft pounds

¾" — 2"



Tank Wall

3"



IBC/TANK ACCESSORIES

BOLTED BOTTOM DRAIN TANK FLANGES

FEATURES

- Stainless steel bolts
- Bolt head plugs ultrasonically sealed
- Glass reinforced polypropylene
- EPDM gaskets standard and FKM available
- Allows 100% rinse free
- No sediment build up
- Excellent for avoiding herbicide cross contamination
- Fits most cone bottom and chemical inductor tanks, 30 gallons and larger.
- For faster shipping, order in box quantities



BOLTED TANK FLANGES

PART NO	DESCRIPTION	MAX PSI	QTY
BF075BD	3/4" X 1" THREADED POLY FLANGE W/ EPDM GASKET	150	27
BF075BDV	3/4" X 1" THREADED POLY FLANGE W/FKM GASKET	150	27
BF100BD	1" X 1" THREADED POLY FLANGE W/EPDM GASKET	150	27
BF150BD	1 1/2" X 2" THREADED POLY FLANGE W/EPDM GASKET	150	27
BF200BD	2" X 2" THREADED POLY FLANGE W/EPDM GASKET	150	27
BF220BD	2" X 2" FULL PORT THREADED POLY FLANGE W/EPDM GASKET	150	27
BF300BD	3" X 3" THREADED POLY FLANGE W/EPDM GASKET	150	16

BOLTED TANK FLANGE GASKETS

PART NO	DESCRIPTION	MAX PSI	QTY
BF100GE	3/4", 1" & 1 1/4" FULL EPDM GASKET	N/A	1
BF100GRE	3/4", 1" & 1 1/4" FOOT EPDM GASKET	N/A	4
BF100GRV	3/4", 1" & 1 1/4" FOOT FKM GASKET	N/A	4
BF200GE	1 1/2" & 2" FULL EPDM GASKET	N/A	1
BF200GV	1 1/2" & 2" FULL FKM GASKET	N/A	1
BF200GFV	1 1/2" & 2" STD. PORT. 2" FULL PORT FOOT FKM GASKET	N/A	4
BF220GE	2" FULL PORT EPDM GASKET	N/A	1
BF220GV	2" FULL PORT FKM GASKET	N/A	1
BF300GE	3" FULL EPDM GASKET	N/A	1
BF300GV	3" FULL FKM GASKET	N/A	1
BF300GFE	3" FOOT EPDM GASKET	N/A	6
BF300GFV	3" FOOT FKM GASKET	N/A	6

BULKHEAD TANK FITTINGS



POLY BULKHEAD FITTINGS

PART NO	DESCRIPTION	HOLE SIZE	MAX PSI	QTY
TF050	1/2" POLY BULKHEAD EPDM TANK FITTING	1 5/8"	300	10/BAG
TF075	3/4" POLY BULKHEAD EPDM TANK FITTING	1 5/8"	300	10/BAG
TF075V	3/4" POLY BULKHEAD FKM TANK FITTING	1 5/8"	300	1
TF100	1" POLY BULKHEAD EPDM TANK FITTING	2 1/4"	300	10/BAG
TF125	1 1/4" POLY BULKHEAD EPDM TANK FITTING	2 1/4"	300	1
TF150	1 1/2" POLY BULKHEAD EPDM TANK FITTING	3"	300	1
TF200	2" POLY BULKHEAD EPDM TANK FITTING	3"	300	1
TF200V	2" POLY BULKHEAD FKM TANK FITTING	3"	300	1
TF220	2" POLY BULKHEAD EPDM TANK FITTING	3 1/4"	300	1
TF300	3" POLY BULKHEAD EPDM TANK FITTING	4 1/2"	300	1
TF400	4" POLY BULKHEAD EPDM TANK FITTING	5 3/4"	225	1

FEATURES

- Double sided female NPT threads
- Available with EPDM or FKM gasket
- Where noted, parts must be ordered in bag quantities



316 STAINLESS STEEL BULKHEAD FITTINGS

PART NO	DESCRIPTION	HOLE SIZE	MAX PSI	QTY
TF038SS	3/8" SS BULKHEAD TANK FITTING	1"	300	1
TF050SS	1/2" SS BULKHEAD TANK FITTING	1 3/8"	300	1
TF075SS	3/4" SS BULKHEAD TANK FITTING	1 5/8"	300	1
TF100SS	1" SS BULKHEAD TANK FITTING	2 1/4"	300	1
TF125SS	1 1/4" SS BULKHEAD TANK FITTING	2 1/4"	300	1
TF150SS	1 1/2" SS BULKHEAD TANK FITTING	3"	300	1
TF200SS	2" SS BULKHEAD TANK FITTING	3"	300	1
TF220SS	2" SS BULKHEAD TANK FITTING	3 1/4"	300	1
TF300SS	3" SS BULKHEAD TANK FITTING	4 3/8"	300	1

BULKHEAD GASKETS

PART NO	DESCRIPTION	HOLE SIZE	FITS POLY	FITS SS	QTY
100G	3/8" Poly Bulkhead EPDM Gasket	1"		TF038SS	1
100GV	3/8" Poly Bulkhead FKM Gasket	1"		TF038SS	100/BAG
TF138GV	1/2" Poly Bulkhead FKM Gasket	1 3/8"		TF050SS	100/BAG
150G	1/2" & 3/4" Poly Bulkhead EPDM Gasket	1 5/8"	TF050 & TF075	TF075SS	100/BAG
150GV	1/2" & 3/4" Poly Bulkhead FKM Gasket	1 5/8"	TF050 & TF075	TF075SS	50/BAG
200G	1" & 1 1/4" Poly Bulkhead EPDM Gasket	2 1/4"	TF100 & TF125	TF100SS & TF125SS	50/BAG
200GV	1" & 1 1/4" Poly Bulkhead FKM Gasket	2 1/4"	TF100 & TF125	TF100SS & TF125SS	50/BAG
300G	1 1/2" & 2" Poly Bulkhead EPDM Gasket	3"	TF200 & TF150	TF200SS & TF150SS	25/BAG
300GV	1 1/2" & 2" Poly Bulkhead FKM Gasket	3"	TF200 & TF150	TF200SS & TF150SS	25/BAG
TF220G	2" Poly Bulkhead EPDM Gasket	3 1/4"	TF220	TF220SS	50/BAG
TF220GV	2" Poly Bulkhead FKM Gasket	3 1/4"	TF220	TF220SS	50/BAG
TF300G	3" Poly Bulkhead EPDM Gasket	4 1/2"	TF300	TF300SS	50/BAG
TF300GV	3" Poly Bulkhead FKM Gasket	4 1/2"	TF300	TF300SS	20/BAG
TF400G	4" Poly Bulkhead EPDM Gasket	5 3/4"	TF400		1
TF400GV	4" Poly Bulkhead FKM Gasket	5 3/4"	TF400		1

IBC/TANK ACCESSORIES

ANTI VORTEX VENT CAPS

FEATURES

- Male NPT
- Glass reinforced polypropylene
- 304 stainless steel screen



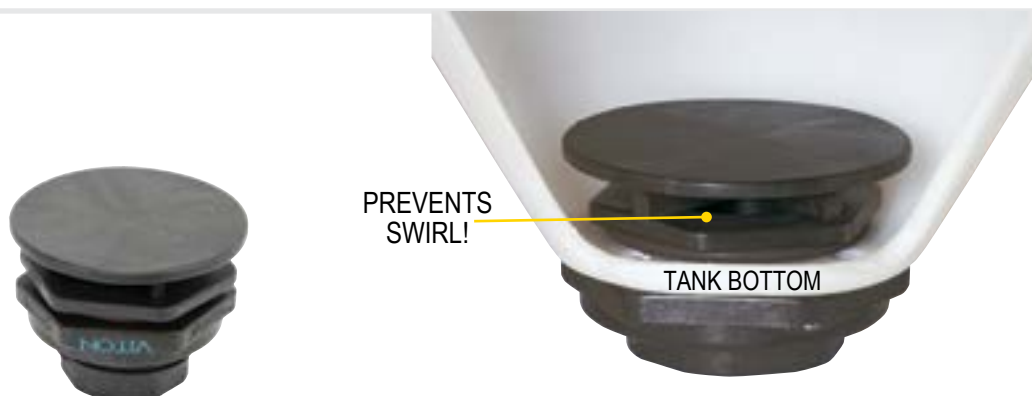
ANTI VORTEX VENT CAPS

PART NO	DESCRIPTION	BORE SIZE	BORE AREA	VENT AREA	QTY
VC200	2" ANTI VORTEX VENT CAP WITHOUT SCREEN	2"	3.1 SQ IN	3.9 SQ IN	1
VC230	2" ANTI VORTEX VENT CAP W/12 MESH SS SCREEN	2"	3.1 SQ IN	3.9 SQ IN	1
VC300	3" ANTI VORTEX VENT CAP WITHOUT SCREEN	3"	7 SQ IN	9 SQ IN	1
VC330	3" ANTI VORTEX VENT CAP W/10 MESH SS SCREEN	3"	7 SQ IN	9 SQ IN	1

ANTI VORTEX TANK FLANGES

FEATURES

- Standard with FKM
- Prevents swirl in bottom of tank



ANTI VORTEX TANK FLANGES

PART NO	DESCRIPTION	HOLE SIZE	QTY
TF100AV	1" ANTI VORTEX TANK FLANGES	2 1/4"	1
TF125AV	1 1/4" ANTI VORTEX TANK FLANGES	2 1/4"	1
TF150AV	1 1/2" ANTI VORTEX TANK FLANGES	3"	1
TF200AV	2" ANTI VORTEX TANK FLANGES	3"	1



THREADED ANSI FLANGES

PART NO	DESCRIPTION	QTY
AF100	1" FEMALE THREADED ANSI FLANGE	1
AF150	1½" FEMALE THREADED ANSI FLANGE	1
AF200	2" FEMALE THREADED ANSI FLANGE	1
AF300	3" FEMALE THREADED ANSI FLANGE	1
AF400	4" FEMALE THREADED ANSI FLANGE	1

BLIND ANSI FLANGES

PART NO	DESCRIPTION	QTY
AFB200	2" BLIND ANSI FLANGE	1
AFB300	3" BLIND ANSI FLANGE	1
AFB400	4" BLIND ANSI FLANGE	1

ANSI FLANGE GASKETS

PART NO	DESCRIPTION	QTY
AF100G	1" ANSI FLANGE EPDM GASKET	1
AF100GV	1" ANSI FLANGE FKM GASKET	1
AF150G	1½" ANSI FLANGE EPDM GASKET	1
AF150GV	1½" ANSI FLANGE FKM GASKET	1
AF200G	2" ANSI FLANGE EPDM GASKET	1
AF200GV	2" ANSI FLANGE FKM GASKET	1
AF300G	3" ANSI FLANGE EPDM GASKET	1
AF300GV	3" ANSI FLANGE FKM GASKET	1
AF400G	4" ANSI FLANGE EPDM GASKET	1
AF400GV	4" ANSI FLANGE FKM GASKET	1

ANSI FLANGES

FEATURES

- Glass reinforced polypropylene
- Heavy duty

CAM LEVER COUPLINGS

3/4"-4" STAINLESS STEEL

FEATURES

- Tough 316 stainless steel to ensure durability
- Chemical resistant to protect against corrosion
- Precision made casting assures uniformity and proper fit
- Versatile to interchange with all types of cam lever couplings
- Smooth operation makes connections quick and easy
- Standard with Buna "N" gaskets and FKM available



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.



STAINLESS STEEL CAM LEVER COUPLINGS

ITEM	DESCRIPTION	3/4"	1"	1 1/2"	2"	3"	4"
A	MALE ADAPTER X FEMALE THREAD	075ASS	100ASS	150ASS	200ASS	300ASS	400ASS
B	FEMALE COUPLER X MALE THREAD	075BSS	100BSS	150BSS	200BSS	300BSS	400BSS
C	FEMALE COUPLER X HOSE SHANK	075CSS	100CSS	150CSS	200CSS	300CSS	400CSS
D	FEMALE COUPLER X FEMALE THREAD	075DSS	100DSS	150DSS	200DSS	300DSS	400DSS
E	MALE ADAPTER X HOSE SHANK	075ESS	100ESS	150ESS	200ESS	300ESS	400ESS
F	MALE ADAPTER X MALE THREAD	075FSS	100FSS	150FSS	200FSS	300FSS	400FSS
PL	PLUG FOR FEMALE COUPLER	075PL/SS	100PL/SS	150PL/SS	200PL/SS	300PL/SS	400PL/SS
CAP	CAP FOR MALE ADAPTER	075CAP/SS	100CAP/SS	150CAP/SS	200CAP/SS	300CAP/SS	400CAP/SS

3/4" SERIES STAINLESS STEEL CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
075ASS	3/4" MALE ADAPTER X 3/4" FEMALE THREAD	300	N/A	1
075BSS	3/4" FEMALE COUPLER X 3/4" MALE THREAD	300	BUNA	1
075CSS	3/4" FEMALE COUPLER X 3/4" HOSE SHANK	300	BUNA	1
075DSS	3/4" FEMALE COUPLER X 3/4" FEMALE THREAD	300	BUNA	1
075ESS	3/4" MALE ADAPTER X 3/4" HOSE SHANK	300	N/A	1
075FSS	3/4" MALE ADAPTER X 3/4" MALE THREAD	300	N/A	1
075CAP/SS	3/4" CAP X MALE ADAPTER	300	BUNA	1
075PL/SS	3/4" PLUG X FEMALE COUPLER	300	N/A	1

1" SERIES STAINLESS STEEL CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
100ASS	1" MALE ADAPTER X 1" FEMALE THREAD	300	N/A	1
100BSS	1" FEMALE COUPLER X 1" MALE THREAD	300	BUNA	1
100CSS	1" FEMALE COUPLER X 1" HOSE SHANK	300	BUNA	1
100DSS	1" FEMALE COUPLER X 1" FEMALE THREAD	300	BUNA	1
100ESS	1" MALE ADAPTER X 1" HOSE SHANK	300	N/A	1
100FSS	1" MALE ADAPTER X 1" MALE THREAD	300	N/A	1
100CAP/SS	1" CAP X MALE ADAPTER	300	BUNA	1
100PL/SS	1" PLUG X FEMALE COUPLER	300	N/A	1

CAM LEVER COUPLINGS

1½" SERIES STAINLESS STEEL CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
150ASS	1½" MALE ADAPTER X 1½" FEMALE THREAD	300	N/A	1
150BSS	1½" FEMALE COUPLER X 1½" MALE THREAD	300	BUNA	1
150CSS	1½" FEMALE COUPLER X 1½" HOSE SHANK	300	BUNA	1
150DSS	1½" FEMALE COUPLER X 1½" FEMALE THREAD	300	BUNA	1
150ESS	1½" MALE ADAPTER X 1½" HOSE SHANK	300	N/A	1
150FSS	1½" MALE ADAPTER X 1½" MALE THREAD	300	N/A	1
150CAP/SS	1½" CAP X MALE ADAPTER	300	BUNA	1
150PL/SS	1½" PLUG X FEMALE COUPLER	300	N/A	1

2" SERIES STAINLESS STEEL CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
200ASS	2" MALE ADAPTER X 2" FEMALE THREAD	300	N/A	1
200BSS	2" FEMALE COUPLER X 2" MALE THREAD	300	BUNA	1
200CSS	2" FEMALE COUPLER X 2" HOSE SHANK	300	BUNA	1
200DSS	2" FEMALE COUPLER X 2" FEMALE THREAD	300	BUNA	1
200ESS	2" MALE ADAPTER X 2" HOSE SHANK	300	N/A	1
200FSS	2" MALE ADAPTER X 2" MALE THREAD	300	N/A	1
200CAP/SS	2" CAP X MALE ADAPTER	300	BUNA	1
200PL/SS	2" PLUG X FEMALE COUPLER	300	N/A	1

3" SERIES STAINLESS STEEL CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
300ASS	3" MALE ADAPTER X 3" FEMALE THREAD	300	N/A	1
300BSS	3" FEMALE COUPLER X 3" MALE THREAD	300	BUNA	1
300CSS	3" FEMALE COUPLER X 3" HOSE SHANK	300	BUNA	1
300DSS	3" FEMALE COUPLER X 3" FEMALE THREAD	300	BUNA	1
300ESS	3" MALE ADAPTER X 3" HOSE SHANK	300	N/A	1
300FSS	3" MALE ADAPTER X 3" MALE THREAD	300	N/A	1
300CAP/SS	3" CAP X MALE ADAPTER	300	BUNA	1
300PL/SS	3" PLUG X FEMALE COUPLER	300	N/A	1

4" SERIES STAINLESS STEEL CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
400ASS	4" MALE ADAPTER X 4" FEMALE THREAD	300	N/A	1
400BSS	4" FEMALE COUPLER X 4" MALE THREAD	300	BUNA	1
400CSS	4" FEMALE COUPLER X 4" HOSE SHANK	300	BUNA	1
400DSS	4" FEMALE COUPLER X 4" FEMALE THREAD	300	BUNA	1
400ESS	4" MALE ADAPTER X 4" HOSE SHANK	300	N/A	1
400FSS	4" MALE ADAPTER X 4" MALE THREAD	300	N/A	1
400CAP/SS	4" CAP X MALE ADAPTER	300	BUNA	1
400PL/SS	4" PLUG X FEMALE COUPLER	300	N/A	1

REPLACEMENT PARTS

PART NO	DESCRIPTION	QTY
100RING	RING FITS ¾" & 1"	1
150RING	RING FITS 1½", 2", 3", 4"	1
300K6	CAM ARM WITH RING FITS 3" & 4"	1
75GV	¾" FKM GASKET	1
100GV	1" FKM GASKET	100/BAG
150GV	1½" FKM GASKET	50/BAG
200GB	2" BUNA GASKET	1
200GV	2" FKM GASKET	50/BAG
300GV	3" FKM GASKET	25/BAG
400GV	4" FKM GASKET	1

¾"-4" STAINLESS STEEL

FEATURES

- Tough 316 stainless steel to ensure durability
- Chemical resistant to protect against corrosion
- Precision made casting assures uniformity and proper fit
- Versatile to interchange with all types of cam lever couplings
- Smooth operation makes connections quick and easy
- Standard with Buna "N" gaskets and FKM available



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.

CAM LEVER COUPLINGS

1/4"-4" POLYPROPYLENE

FEATURES

- Stainless steel rings, arms and pins
- Versatile — interchangeable with all types of cam lever couplings
- Precision molded — ensures a uniform and accurate fit
- Durable — polypropylene is glass reinforced for rugged strength
- Smooth operating — finger rings are designed for easy opening of cam levers
- Economical and superior in performance
- Standard with EPDM gaskets, FKM gaskets can be ordered separately on page 79
- Where noted, parts must be ordered in bag quantities
- 1/4", 3/8" and 1/2" series couplings interchange with 3/4" size couplings. Coupling ends are 3/4" size.
- 1 1/4" series couplings interchange with 1" size couplings. Coupling ends are 1" size.
- 1 1/2" x 1 1/4" couplings interchange with 1 1/2" size couplings. Coupling ends are 1 1/2" size.



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.



STAINLESS STEEL CAM LEVER COUPLINGS

ITEM	DESCRIPTION	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2" x 1 1/4"	1 1/2"	2"	2 1/2"	3"	3" 3 ARMS	4" 3 ARMS
A	MALE ADAPTER X FEMALE THREAD	75A1/4	75A3/8	75A1/2	75A3/4	100A	125A	150125A	150A	200A		300A		400A
B	FEMALE COUPLER X MALE THREAD			75B1/2	75B3/4	100B	125B	150125B	150B	200B		300B	303B	400B
C	FEMALE COUPLER X HOSE SHANK			050C	075C	100C	125C	150125C	150C	200C		300C	303C	400C
D	FEMALE COUPLER X FEMALE THREAD		075D3/8	050D	075D	100D	125D	150125D	150D	200D		300D		400D
E	MALE ADAPTER X HOSE SHANK			050E	075E	100E	125E	150125E	150E	200E		300E		400E
F	MALE ADAPTER X MALE THREAD			050F	075F	100F	125F	150125F	150F	200F		300F		400F
PL	PLUG FOR FEMALE COUPLER			75PL	75PL	100125PL	100125PL	150PL	150PL	200PL	250PL	300PL		400PL
CAP	CAP FOR MALE ADAPTER			075CAP	075CAP	100125CAP	100125CAP	150CAP	150CAP	200CAP	250CAP	300CAP		400CAP (2 arms)
CAPSH	CAP WITH SHORT ARMS							200CAPSH						

1/4" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
75A1/4	3/4" MALE ADAPTER X 1/4" FEMALE THREAD	300	N/A	10/BAG

3/8" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
75A3/8	3/4" MALE ADAPTER X 3/8" FEMALE THREAD	300	N/A	10/BAG
075D3/8	3/4" FEMALE COUPLER X 3/8" FEMALE THREAD	300	N/A	10/BAG

1/2" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
75A1/2	3/4" MALE ADAPTER X 1/2" FEMALE THREAD	225	N/A	10/BAG
75B1/2	3/4" FEMALE COUPLER X 1/2" MALE THREAD	300	EPDM	10/BAG
050C	3/4" FEMALE COUPLER X 1/2" HOSE SHANK	300	EPDM	10/BAG
050D	3/4" FEMALE COUPLER X 1/2" FEMALE THREAD	300	EPDM	10/BAG
050E	3/4" MALE ADAPTER X 1/2" HOSE SHANK	300	N/A	10/BAG
050F	3/4" MALE ADAPTER X 1/2" MALE THREAD	300	N/A	10/BAG
075CAP	3/4" CAP X MALE ADAPTER	300	EPDM	10/BAG
75PL	3/4" PLUG X FEMALE COUPLER	300	N/A	10/BAG

CAM LEVER COUPLINGS

3/4" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
75A3/4	3/4" MALE ADAPTER X 3/4" FEMALE THREAD	225	N/A	10/BAG
75B3/4	3/4" FEMALE COUPLER X 3/4" MALE THREAD	300	EPDM	10/BAG
075C	3/4" FEMALE COUPLER X 3/4" HOSE SHANK	300	EPDM	10/BAG
075D	3/4" FEMALE COUPLER X 3/4" FEMALE THREAD	300	EPDM	10/BAG
075E	3/4" MALE ADAPTER X 3/4" HOSE SHANK	300	N/A	10/BAG
075F	3/4" MALE ADAPTER X 3/4" MALE THREAD	300	N/A	10/BAG
075CAP	3/4" CAP X MALE ADAPTER	300	EPDM	10/BAG
75PL	3/4" PLUG X FEMALE COUPLER	300	N/A	10/BAG

1" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
100A	1" MALE ADAPTER X 1" FEMALE THREAD	300	N/A	10/BAG
100B	1" FEMALE COUPLER X 1" MALE THREAD	300	EPDM	10/BAG
100C	1" FEMALE COUPLER X 1" HOSE SHANK	300	EPDM	10/BAG
100D	1" FEMALE COUPLER X 1" FEMALE THREAD	300	EPDM	10/BAG
100E	1" MALE ADAPTER X 1" HOSE SHANK	300	N/A	10/BAG
100F	1" MALE ADAPTER X 1" MALE THREAD	300	N/A	10/BAG
100125CAP	1" CAP X MALE ADAPTER	300	EPDM	10/BAG
100125PL	1" PLUG X FEMALE COUPLER	300	N/A	10/BAG

1 1/4" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
125A	1" MALE ADAPTER X 1 1/4" FEMALE THREAD	300	N/A	10/BAG
125B	1" FEMALE COUPLER X 1 1/4" MALE THREAD	300	EPDM	10/BAG
125C	1" FEMALE COUPLER X 1 1/4" HOSE SHANK	300	EPDM	10/BAG
125D	1" FEMALE COUPLER X 1 1/4" FEMALE THREAD	300	EPDM	10/BAG
125E	1" MALE ADAPTER X 1 1/4" HOSE SHANK	300	N/A	10/BAG
125F	1" MALE ADAPTER X 1 1/4" MALE THREAD	300	N/A	10/BAG
100125CAP	1" CAP X MALE ADAPTER	300	EPDM	10/BAG
100125PL	1" PLUG X FEMALE COUPLER	300	N/A	10/BAG

1 1/2" X 1 1/4" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
150125A	1 1/2" MALE ADAPTER X 1 1/4" FEMALE THREAD	225	N/A	10/BAG
150125B	1 1/2" FEMALE COUPLER X 1 1/4" MALE THREAD	300	EPDM	1
150125C	1 1/2" FEMALE COUPLER X 1 1/4" HOSE SHANK	300	EPDM	1
150125D	1 1/2" FEMALE COUPLER X 1 1/4" FEMALE THREAD	300	EPDM	1
150125E	1 1/2" MALE ADAPTER X 1 1/4" HOSE SHANK	225	EPDM	10/BAG
150125F	1 1/2" MALE ADAPTER X 1 1/4" MALE THREAD	300	N/A	10/BAG
150CAP	1 1/2" CAP X MALE ADAPTER	300	EPDM	1
150PL	1 1/2" PLUG X FEMALE COUPLER	225	N/A	10/BAG

1 1/2" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
150A	1 1/2" MALE ADAPTER X 1 1/2" FEMALE THREAD	225	N/A	10/BAG
150B	1 1/2" FEMALE COUPLER X 1 1/2" MALE THREAD	300	EPDM	1
150C	1 1/2" FEMALE COUPLER X 1 1/2" HOSE SHANK	300	EPDM	1
150D	1 1/2" FEMALE COUPLER X 1 1/2" FEMALE THREAD	300	EPDM	1
150E	1 1/2" MALE ADAPTER X 1 1/2" HOSE SHANK	200	N/A	10/BAG
150F	1 1/2" MALE ADAPTER X 1 1/2" MALE THREAD	300	N/A	10/BAG
150CAP	1 1/2" CAP X MALE ADAPTER	300	EPDM	1
150PL	1 1/2" PLUG X FEMALE COUPLER	225	N/A	10/BAG

1/4"-4" POLYPROPYLENE

FEATURES

- Tough 316 stainless steel to ensure durability
- Chemical resistant to protect against corrosion
- Precision made casting assures uniformity and proper fit
- Versatile to interchange with all types of cam lever couplings
- Smooth operation makes connections quick and easy
- Standard with Buna "N" gaskets and FKM available
- Where noted, parts must be ordered in bag quantities



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.

CAM LEVER COUPLINGS

¼"-4" POLYPROPYLENE

FEATURES

- Stainless steel rings, arms and pins
- Versatile — interchangeable with all types of cam lever couplings
- Precision molded — ensures a uniform and accurate fit
- Durable — polypropylene is glass reinforced for rugged strength
- Smooth operating — finger rings are designed for easy opening of cam levers
- Economical and superior in performance
- Standard with EPDM gaskets, FKM also available
- Where noted, parts must be ordered in bag quantities
- ¼", ⅜" and ½" series couplings interchange with ¾" size couplings. Coupling ends are ¾" size.
- 1¼" series couplings interchange with 1" size couplings. Coupling ends are 1" size.
- 1½" x 1¼" couplings interchange with 1½" size couplings. Coupling ends are 1½" size.



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.



2" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
200A	2" MALE ADAPTER X 2" FEMALE THREAD	225	N/A	10/BAG
200B	2" FEMALE COUPLER X 2" MALE THREAD	225	EPDM	1
201B	2" FEMALE COUPLER X 2" EXTENDED MALE THREAD	200	EPDM	1
200C	2" FEMALE COUPLER X 2" HOSE SHANK	225	EPDM	1
200D	2" FEMALE COUPLER X 2" FEMALE THREAD	200	EPDM	1
200E	2" MALE ADAPTER X 2" HOSE SHANK	200	N/A	10/BAG
200F	2" MALE ADAPTER X 2" MALE THREAD	300	N/A	10/BAG
200CAP	2" CAP X MALE ADAPTER	200	EPDM	1
200CAPSH	2" CAP X MALE ADAPTER W/SHORT ARMS	200	EPDM	1
200PL	2" PLUG X FEMALE COUPLER	225	N/A	10/BAG

2" X 1½" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
200150C	2" FEMALE COUPLER X 1½" HOSE SHANK	300	EPDM	1

2½" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
250CAP	2½" CAP X MALE ADAPTER	300	EPDM	1
250PL	2½" PLUG X FEMALE COUPLER	300	N/A	1



SPOOL ADAPTERS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
200FF	2" MALE ADAPTER X 2" MALE ADAPTER	150	N/A	1
300F200F	3" MALE ADAPTER X 2" MALE ADAPTER	75	N/A	1
300FF	3" MALE ADAPTER X 3" MALE ADAPTER	75	N/A	1

CAM LEVER COUPLINGS



3" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
300A	3" MALE ADAPTER X 3" FEMALE THREAD	100	N/A	1
300B	3" FEMALE COUPLER X 3" MALE THREAD	150	EPDM	1
303B	3" FEMALE COUPLER X 3" EXTENDED MALE THREAD	75	EPDM	1
303B200A	3" FEMALE COUPLER W/ 3 ARMS X 2" MALE ADAPTER	200	EPDM	1
300C	3" FEMALE COUPLER X 3" HOSE SHANK	200	EPDM	1
303C	3" FEMALE COUPLER W/ 3 ARMS X 3" HOSE SHANK	200	EPDM	1
300D	3" FEMALE COUPLER X 3" FEMALE THREAD	200	EPDM	1
300E	3" MALE ADAPTER X 3" HOSE SHANK	150	N/A	1
300F	3" MALE ADAPTER X 3" MALE THREAD	100	N/A	1
300CAP	3" CAP X MALE ADAPTER	100	EPDM	1
300PL	3" PLUG X FEMALE COUPLER	150	N/A	1

4" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
400A	4" MALE ADAPTER X 4" FEMALE THREAD	75	N/A	1
400B	4" FEMALE COUPLER X 4" MALE THREAD	150	EPDM	1
400C	4" FEMALE COUPLER X 4" HOSE SHANK	150	EPDM	1
400D	4" FEMALE COUPLER X 4" FEMALE THREAD	100	EPDM	1
400E	4" MALE ADAPTER X 4" HOSE SHANK	50	N/A	1
400F	4" MALE ADAPTER X 4" MALE THREAD	75	N/A	1
400CAP	4" CAP X MALE ADAPTER (W/2 ARMS)	100	EPDM	1
400PL	4" PLUG X FEMALE COUPLER	75	N/A	1

REPLACEMENT PARTS

PART NO	DESCRIPTION	QTY
100RING	RING FITS ¾" & 1"	1
150RING	RING FITS 1½", 2", 3", 4"	1
150(200)K	1½", 2" SS CAM ARM W/RING	1
300K	3" SS CAM ARM WITH RING	1
V20207	11" LANYARD	1
75SHM	¾" SHIM	1
100SHM	1" SHIM	1
150SHM	1½" SHIM	1
200SHM	2" SHIM	1
300SHM	3" SHIM	1
400SHM	4" SHIM	1
75G	½" & ¾" EPDM GASKET	1
75GV	½" & ¾" FKM GASKET	1
100G	1" & 1¼" EPDM GASKET	1
100GV	1" & 1¼" FKM GASKET	100/BAG
150G	1½" EPDM GASKET	100/BAG
150GV	1½" FKM GASKET	50/BAG
200G	2" EPDM GASKET	50/BAG
200GV	2" FKM GASKET	50/BAG
300G	3" EPDM GASKET	25/BAG
300GV	3" FKM GASKET	25/BAG
400G	4" EPDM GASKET	25/BAG
400GV	4" FKM GASKET	25/BAG



¼"-4" POLYPROPYLENE

FEATURES

- Tough 316 stainless steel to ensure durability
- Chemical resistant to protect against corrosion
- Precision made casting assures uniformity and proper fit
- Versatile to interchange with all types of cam lever couplings
- Smooth operation makes connections quick and easy
- Standard with Buna "N" gaskets and FKM available
- Where noted, parts must be ordered in bag quantities



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.

CAM LEVER COUPLINGS

1½"-2" 90° & 45°
POLYPROPYLENE

FEATURES

- Precision molded in polypropylene, reinforced with fiberglass for strength
- Stainless steel rings, arms and pins resist corrosion
- 90° angle couplings and adapters will reduce the number of elbows and other pipe fittings used in plumbing applications



WARNING! Couplings should not be disconnected under pressure or with liquid in the line.



1½" 90° POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
150A90	1½" 90° MALE ADAPTER X 1½" FEMALE THREAD	225	EPDM	1
150C90	1½" 90° FEMALE COUPLER X 1½" HOSE SHANK	225	EPDM	1
150D90	1½" 90° FEMALE COUPLER X 1½" FEMALE THREAD	300	EPDM	1
150F90	1½" 90° MALE ADAPTER X 1½" MALE THREAD	300	EPDM	1

2" 90° SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
200A90	2" 90° MALE ADAPTER X 2" FEMALE THREAD	225	EPDM	1
200B90	2" 90° FEMALE COUPLER X 2" MALE THREAD	225	EPDM	1
200C90	2" 90° FEMALE COUPLER X 2" HOSE SHANK	225	EPDM	1
200D90	2" 90° FEMALE COUPLER X 2" FEMALE THREAD	200	EPDM	1
200F90	2" 90° MALE ADAPTER X 2" MALE THREAD	225	EPDM	1

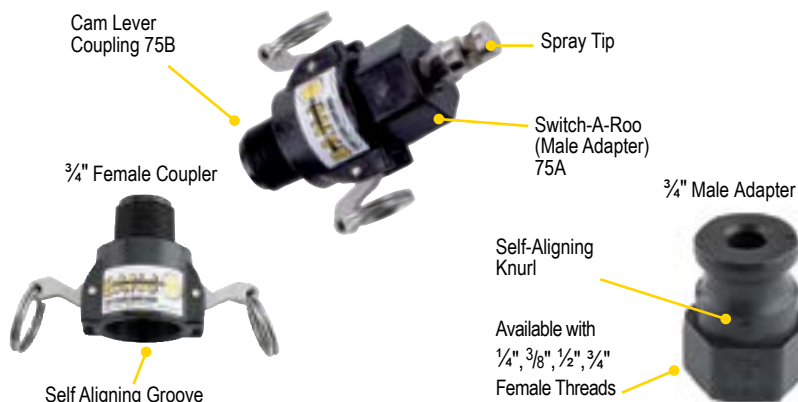
2" 45° POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
200F45	2" 45° MALE ADAPTER X 2" MALE THREAD	225	N/A	1

SWITCH-A-ROOS

FEATURES

- The Switch-A-Roo is a fast, convenient method of changing spray nozzles on application equipment
- Precision molded in polypropylene, reinforced with fiberglass for strength
- The female coupling is normally mounted on the spray boom and the male adapter is made to fit all sizes of spray nozzles
- Available with self-aligning groove
- Where noted, parts must be ordered in bag quantities



SWITCH-A-ROOS

PART NO	DESCRIPTION	MAX PSI	QTY
75A1/4/SA	¾" MALE ADAPTER X ¼" W/SELF-ALIGNING GROOVE	300	10/BAG
75A3/8/SA	¾" MALE ADAPTER X ⅜" W/SELF-ALIGNING GROOVE	300	10/BAG
75A1/2/SA	¾" MALE ADAPTER X ½" W/SELF-ALIGNING GROOVE	225	10/BAG
75A3/4/SA	¾" MALE ADAPTER X ¾" W/SELF-ALIGNING GROOVE	225	10/BAG
75B1/2	¾" FEMALE COUPLER X ½" MALE THREAD	300	10/BAG
75B3/4	¾" FEMALE COUPLER X ¾" MALE THREAD	300	10/BAG

CAM LEVER COUPLINGS

GARDEN HOSE FITTINGS

FEATURES

- Same construction and design that farmers use for their heavy spraying applications.
- Rugged, secure quick-connect cam arms
- Heavy-duty thick wall reinforced polypropylene
- Proven, leak-free construction
- Full flow design



GARDEN HOSE FITTINGS

PART NO	DESCRIPTION	MAX PSI	QTY
GHFT075A	3/4" ADAPTER X 3/4" GARDEN HOSE FEMALE THREAD	225	10/BAG
GHMT075B	3/4" COUPLER X 3/4" GARDEN HOSE MALE THREAD	300	10/BAG
GHFT075D	3/4" COUPLER X 3/4" GARDEN HOSE FEMALE THREAD	300	10/BAG
GHMT075F	3/4" ADAPTER X 3/4" GARDEN HOSE MALE THREAD	300	10/BAG
GHFT075MPT	3/4" MALE NPT X 3/4" GARDEN HOSE FEMALE THREAD	300	10/BAG
GHMT075FPT	3/4" FEMALE NPT X 3/4" GARDEN HOSE MALE THREAD	300	10/BAG
GHMT075MPT	3/4" MALE NPT X 3/4" GARDEN HOSE MALE THREAD	300	10/BAG



GARDEN HOSE NOZZLE

FEATURES

- Heavy duty machined aluminum construction stands up to hard use
- Comfort grip soft rubber
- Resists dents, mars and scratches; protects any surface that comes in contact with nozzle
- Aluminum hose connection provides a tight fit, will not rust
- Multiple spray pattern adjusts from a powerful jet stream to a gentle fan spray. Ideal for all your spraying needs.
- Stainless steel spray cap for precise spray patterns



Spray nozzle patterns

GARDEN HOSE NOZZLE

PART NO	DESCRIPTION	MAX PSI	QTY
GHN075	3/4" GARDEN HOSE SPRAY NOZZLE	N/A	1

PIPE FITTINGS

SUPER CLAMPS

FEATURES

- Stainless steel construction
- 304 stainless steel bolt with 316 stainless steel nut to prevent seizing
- 360° sealing surface
- Ideal for high torque applications
- Strong, positive connections where ordinary hose clamps fail
- T-bolt design
- 3 spot welds for extra strength
- Sold in bags of 10 only
- Torque specifications: working torque 50-80 inch pounds, maximum torque 125 inch pounds



SUPER CLAMPS

PART NO	DESCRIPTION	MIN-MAX DIAMETER	MAX TORQUE	QTY
TC120	1" T-BOLT HOSE CLAMP	1.20"-1.34"	75 IN-LBS	10/BAG
TC130	1¼" T-BOLT HOSE CLAMP	1.30"-1.70"	75 IN-LBS	10/BAG
TC150	1½" T-BOLT HOSE CLAMP	1.50"-1.75"	125 IN-LBS	10/BAG
TC162	1¼" T-BOLT HOSE CLAMP	1.62"-1.87"	125 IN-LBS	10/BAG
TC181	1½" T-BOLT HOSE CLAMP	1.81"-2.06"	125 IN-LBS	10/BAG
TC193	1½" T-BOLT HOSE CLAMP	1.93"-2.18"	125 IN-LBS	10/BAG
TC206	2" T-BOLT HOSE CLAMP	2.06"-2.40"	125 IN-LBS	10/BAG
TC218	2" T-BOLT HOSE CLAMP	2.18"-2.50"	125 IN-LBS	10/BAG
TC224	2" T-BOLT HOSE CLAMP	2.24"-2.55"	125 IN-LBS	10/BAG
TC231	2" T-BOLT HOSE CLAMP	2.31"-2.62"	125 IN-LBS	10/BAG
TC250	2" T-BOLT HOSE CLAMP	2.50"-2.81"	125 IN-LBS	10/BAG
TC287	2" T-BOLT HOSE CLAMP	2.87"-3.18"	125 IN-LBS	10/BAG
TC312	3" T-BOLT HOSE CLAMP	3.12"-3.49"	125 IN-LBS	10/BAG
TC331	3" T-BOLT HOSE CLAMP	3.31"-3.62"	125 IN-LBS	10/BAG
TC343	3" T-BOLT HOSE CLAMP	3.50"-3.82"	125 IN-LBS	10/BAG
TC425	4" T-BOLT HOSE CLAMP	4.25"-4.56"	125 IN-LBS	10/BAG
TC438	4" T-BOLT HOSE CLAMP	4.38"-4.76"	125 IN-LBS	10/BAG
TC456	4" T-BOLT HOSE CLAMP	4.56"-4.94"	125 IN-LBS	10/BAG

TWO BARREL CLAMPS

FEATURES

- Perfect for tight, hard to reach spaces
- Minimizes parts that protrude by tightening together versus tightening away from
- Deep socket tools not required
- 300 stainless steel construction



TWO BARREL CLAMPS

PART NO	DESCRIPTION	MIN-MAX DIAMETER	MAX TORQUE	QTY
BC090	¾" 300 SS FLOATING BRIDGE W/LOCK WASHER	0.91"-0.98"	75 IN-LBS	1
BC114	1" 300 SS FLOATING BRIDGE W/LOCK WASHER	1.14"-1.22"	75 IN-LBS	1



NIPPLES

PART NO	DESCRIPTION	MAX PSI	QTY
NIP025-SH	1/4" SHORT POLY NIPPLE	300	10/BAG
NIP038-SH	3/8" SHORT POLY NIPPLE	300	10/BAG
NIP050-SH	1/2" SHORT POLY NIPPLE	300	10/BAG
NIP050-3	1/2" X 3" POLY NIPPLE	300	10/BAG
NIP075-SH	3/4" SHORT POLY NIPPLE	300	10/BAG
NIP075-4	3/4" X 4" POLY NIPPLE	300	10/BAG
NIP075-6	3/4" X 6" POLY NIPPLE	300	10/BAG
NIP100-SH	1" SHORT POLY NIPPLE	300	10/BAG
NIP100-4	1" X 4" POLY NIPPLE	300	10/BAG
NIP100-6	1" X 6" POLY NIPPLE	300	10/BAG
NIP125-SH	1 1/4" SHORT POLY NIPPLE	300	10/BAG
NIP125-4	1 1/4" X 4" POLY NIPPLE	300	10/BAG
NIP125-6	1 1/4" X 6" POLY NIPPLE	300	10/BAG
NIP150-SH	1 1/2" SHORT POLY NIPPLE	300	10/BAG
NIP150-3	1 1/2" X 3" POLY NIPPLE	300	10/BAG
NIP150-4	1 1/2" X 4" POLY NIPPLE	300	10/BAG
NIP150-5	1 1/2" X 5" POLY NIPPLE	300	10/BAG
NIP150-6	1 1/2" X 6" POLY NIPPLE	300	10/BAG
NIP200-SH	2" SHORT POLY NIPPLE	300	10/BAG
NIP200-4	2" X 4" POLY NIPPLE	300	10/BAG
NIP200-6	2" X 6" POLY NIPPLE	300	10/BAG
NIP300-SH	3" SHORT POLY NIPPLE	300	1
NIP300-4	3" X 4" POLY NIPPLE	300	1
NIP300-6	3" X 6" POLY NIPPLE	300	1
NIP400-SH	4" SHORT POLY NIPPLE	300	1



REDUCING NIPPLES

PART NO	DESCRIPTION	MAX PSI	QTY
RN050-038	1/2" X 3/8" POLY REDUCING NIPPLE	300	10/BAG
RN075-050	3/4" X 1/2" POLY REDUCING NIPPLE	300	10/BAG
RN100-050	1" X 1/2" POLY REDUCING NIPPLE	300	10/BAG
RN100-075	1" X 3/4" POLY REDUCING NIPPLE	300	10/BAG
RN125-075	1 1/4" X 3/4" POLY REDUCING NIPPLE	300	10/BAG
RN125-100	1 1/4" X 1" POLY REDUCING NIPPLE	300	10/BAG
RN150-100	1 1/2" X 1" POLY REDUCING NIPPLE	300	10/BAG
RN150-125	1 1/2" X 1 1/4" POLY REDUCING NIPPLE	300	10/BAG
RN200-125	2" X 1 1/4" POLY REDUCING NIPPLE	300	10/BAG
RN200-150	2" X 1 1/2" POLY REDUCING NIPPLE	300	10/BAG
RN300-200	3" X 2" POLY REDUCING NIPPLE	300	1



PIPE COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
CPLG025	1/4" POLY PIPE COUPLING	300	10/BAG
CPLG038	3/8" POLY PIPE COUPLING	300	10/BAG
CPLG050	1/2" POLY PIPE COUPLING	300	10/BAG
CPLG075	3/4" POLY PIPE COUPLING	300	10/BAG
CPLG100	1" POLY PIPE COUPLING	300	10/BAG
CPLG125	1 1/4" POLY PIPE COUPLING	300	10/BAG
CPLG150	1 1/2" POLY PIPE COUPLING	300	10/BAG
CPLG200	2" POLY PIPE COUPLING	300	10/BAG
CPLG300	3" POLY PIPE COUPLING	225	1



REDUCING COUPLINGS

PART NO	DESCRIPTION	MAX PSI	QTY
RC100-075	1" X 3/4" POLY REDUCING COUPLING	300	10/BAG
RC150-100	1 1/2" X 1" POLY REDUCING COUPLING	300	10/BAG
RC150-125	1 1/2" X 1 1/4" POLY REDUCING COUPLING	300	10/BAG
RC200-050	2" X 1/2" POLY REDUCING COUPLING	300	10/BAG
RC200-100	2" X 1" POLY REDUCING COUPLING	300	10/BAG
RC200-125	2" X 1 1/4" POLY REDUCING COUPLING	300	10/BAG
RC200-150	2" X 1 1/2" POLY REDUCING COUPLING	300	10/BAG
RC300-200	3" X 2" POLY REDUCING COUPLING	300	1



REDUCING BUSHINGS

PART NO	DESCRIPTION	MAX PSI	QTY
RB038-025	3/8" MPT X 1/4" FPT REDUCING BUSHING	300	10/BAG
RB050-025	1/2" MPT X 1/4" FPT REDUCING BUSHING	300	10/BAG
RB050-038	1/2" MPT X 3/8" FPT REDUCING BUSHING	300	10/BAG
RB075-018	3/4" MPT X 1/8" FPT REDUCING BUSHING	300	10/BAG
RB075-025	3/4" MPT X 1/4" FPT REDUCING BUSHING	300	10/BAG
RB075-038	3/4" MPT X 3/8" FPT REDUCING BUSHING	300	10/BAG
RB075-050	3/4" MPT X 1/2" FPT REDUCING BUSHING	300	10/BAG
RB100-025	1" MPT X 1/4" FPT REDUCING BUSHING	300	10/BAG
RB100-050	1" MPT X 1/2" FPT REDUCING BUSHING	300	10/BAG
RB100-075	1" MPT X 3/4" FPT REDUCING BUSHING	300	10/BAG
RB125-075	1 1/4" MPT X 3/4" FPT REDUCING BUSHING	300	10/BAG
RB125-100	1 1/4" MPT X 1" FPT REDUCING BUSHING	300	10/BAG
RB150-075	1 1/2" MPT X 3/4" FPT REDUCING BUSHING	300	10/BAG
RB150-100	1 1/2" MPT X 1" FPT REDUCING BUSHING	300	10/BAG
RB150-125	1 1/2" MPT X 1 1/4" FPT REDUCING BUSHING	300	10/BAG
RB200-075	2" MPT X 3/4" FPT REDUCING BUSHING	300	10/BAG
RB200-100	2" MPT X 1" FPT REDUCING BUSHING	300	10/BAG
RB200-125	2" MPT X 1 1/4" FPT REDUCING BUSHING	300	10/BAG
RB200-150	2" MPT X 1 1/2" FPT REDUCING BUSHING	300	10/BAG
RB300-150	3" MPT X 1 1/2" FPT REDUCING BUSHING	300	1
RB300-200	3" MPT X 2" FPT REDUCING BUSHING	300	1
RB400-300	4" MPT X 3" FPT REDUCING BUSHING	300	1

PIPE FITTINGS

FEATURES

- Glass reinforced polypropylene
- Heavy duty (Schedule 80)
- Lightweight with excellent strength
- NPT threads
- Excellent chemical resistance
- Where noted, parts must be ordered in bag quantities

PIPE FITTINGS

PIPE FITTINGS

FEATURES

- Glass reinforced polypropylene
- Heavy duty (Schedule 80)
- Lightweight with excellent strength
- NPT threads
- Excellent chemical resistance
- Where noted, parts must be ordered in bag quantities



PIPE CAPS

PART NO	DESCRIPTION	MAX PSI	QTY
CAP050	1/2" POLY PIPE CAP	300	10/BAG
CAP075	3/4" POLY PIPE CAP	300	10/BAG
CAP100	1" POLY PIPE CAP	300	10/BAG
CAP125	1 1/4" POLY PIPE CAP	300	10/BAG
CAP150	1 1/2" POLY PIPE CAP	300	10/BAG
CAP200	2" POLY PIPE CAP	300	10/BAG
CAP300	3" POLY PIPE CAP	300	1



PIPE PLUGS

PART NO	DESCRIPTION	MAX PSI	QTY
PLUG025	1/4" POLY PIPE PLUG	300	10/BAG
PLUG038	3/8" POLY PIPE PLUG	300	10/BAG
PLUG050	1/2" POLY PIPE PLUG	300	10/BAG
PLUG075	3/4" POLY PIPE PLUG	300	10/BAG
PLUG100	1" POLY PIPE PLUG	300	10/BAG
PLUG125	1 1/4" POLY PIPE PLUG	300	10/BAG
PLUG150	1 1/2" POLY PIPE PLUG	300	10/BAG
PLUG200	2" POLY PIPE PLUG	300	10/BAG
PLUG300	3" POLY PIPE PLUG	300	1



HOSE BARB CROSS

PART NO	DESCRIPTION	MAX PSI	QTY
HBC050075	1/2" X 3/4" HOSE BARB CROSS	300	1



CROSSES

PART NO	DESCRIPTION	MAX PSI	QTY
CR025	1/4" POLY CROSS	300	10/BAG
CR038	3/8" POLY CROSS	300	10/BAG
CR050	1/2" POLY CROSS	300	5/BAG
CR075	3/4" POLY CROSS	300	5/BAG
CR100	1" POLY CROSS	300	5/BAG
CR125	1 1/4" POLY CROSS	300	1
CR150	1 1/2" POLY CROSS	300	1
CR200	2" POLY CROSS	300	1



TEES

PART NO	DESCRIPTION	MAX PSI	QTY
TEE025	1/4" POLY TEE	300	10/BAG
TEE038	3/8" POLY TEE	300	10/BAG
TEE050	1/2" POLY TEE	300	10/BAG
TEE075	3/4" POLY TEE	300	10/BAG
TEE100	1" POLY TEE	300	10/BAG
TEE125	1 1/4" POLY TEE	300	10/BAG
TEE150	1 1/2" POLY TEE	300	1
TEE200	2" POLY TEE	300	1
TEE300	3" POLY TEE	225	1



GAUGE PORT TEE

PART NO	DESCRIPTION	MAX PSI	QTY
TEG075	3/4" POLY TEE W/ 1/4" FEMALE THREAD	300	10/BAG
TEG100	1" POLY TEE W/ 1/4" FEMALE THREAD	300	10/BAG



90° ELBOWS

PART NO	DESCRIPTION	MAX PSI	QTY
EL025-90	1/4" 90° POLY ELBOW	300	10/BAG
EL038-90	3/8" 90° POLY ELBOW	300	10/BAG
EL050-90	1/2" 90° POLY ELBOW	300	10/BAG
EL075-90	3/4" 90° POLY ELBOW	300	10/BAG
EL100-90	1" 90° POLY ELBOW	300	10/BAG
EL125-90	1 1/4" 90° POLY ELBOW	300	10/BAG
EL150-90	1 1/2" 90° POLY ELBOW	300	10/BAG
EL200-90	2" 90° POLY ELBOW	300	1
EL300-90	3" 90° POLY ELBOW	300	1



45° ELBOW

PART NO	DESCRIPTION	MAX PSI	QTY
EL100-45	1" 45° POLY ELBOW	300	10/BAG



90° STREET ELBOWS

PART NO	DESCRIPTION	MAX PSI	QTY
SL025-90	1/4" 90° POLY STREET ELBOW	300	10/BAG
SL038-90	3/8" 90° POLY STREET ELBOW	300	10/BAG
SL050-90	1/2" 90° POLY STREET ELBOW	300	10/BAG
SL075-90	3/4" 90° POLY STREET ELBOW	300	10/BAG
SL100-90	1" 90° POLY STREET ELBOW	300	10/BAG
SL125-90	1 1/4" 90° POLY STREET ELBOW	300	10/BAG
SL150-90	1 1/2" 90° POLY STREET ELBOW	300	10/BAG
SL200-90	2" 90° POLY STREET ELBOW	300	10/BAG
SL300-90	3" 90° POLY STREET ELBOW	300	1



45° STREET ELBOWS

PART NO	DESCRIPTION	MAX PSI	QTY
SL075-45	3/4" 45° POLY STREET ELBOW	300	10/BAG
SL100-45	1" 45° POLY STREET ELBOW	300	10/BAG
SL125-45	1 1/4" 45° POLY STREET ELBOW	300	10/BAG
SL150-45	1 1/2" 45° POLY STREET ELBOW	300	10/BAG
SL200-45	2" 45° POLY STREET ELBOW	225	10/BAG
SL300-45	3" 45° POLY STREET ELBOW	300	1



90° HOSE BARB ELBOW

PART NO	DESCRIPTION	MAX PSI	QTY
HBB20012590	2" X 1 1/4" 90° POLY HOSE BARB ELBOW	300	10/BAG



90° HOSE BARB ELBOW

PART NO	DESCRIPTION	MAX PSI	QTY
HBEL100-90	1" 90° POLY HOSE BARB ELBOW	300	10/BAG
HBEL150/100-90	1 1/2" X 1" 90° POLY HOSE BARB ELBOW	300	1

PIPE FITTINGS

FEATURES

- Glass reinforced polypropylene
- Heavy duty (Schedule 80)
- Lightweight with excellent strength
- NPT threads
- Excellent chemical resistance
- Where noted, parts must be ordered in bag quantities

PIPE FITTINGS

HOSE BARBS

FEATURES

- Glass reinforced polypropylene
- Heavy duty (Schedule 80)
- Lightweight with excellent strength
- NPT threads
- Excellent chemical resistance
- Where noted, parts must be ordered in bag quantities



STRAIGHT HOSE BARBS

PART NO	DESCRIPTION	MAX PSI	QTY
HB025	1/4" MALE THREAD X 1/4" HOSE BARB	300	10/BAG
HB025-038	1/4" MALE THREAD X 3/8" HOSE BARB	300	10/BAG
HB025-050	1/4" MALE THREAD X 1/2" HOSE BARB	300	10/BAG
HB038	3/8" MALE THREAD X 3/8" HOSE BARB	300	10/BAG
HB038-025	3/8" MALE THREAD X 1/4" HOSE BARB	300	10/BAG
HB038-050	3/8" MALE THREAD X 1/2" HOSE BARB	300	10/BAG
HB050-025	1/2" MALE THREAD X 1/4" HOSE BARB	300	10/BAG
HB050-038	1/2" MALE THREAD X 3/8" HOSE BARB	300	10/BAG
HB050	1/2" MALE THREAD X 1/2" HOSE BARB	300	10/BAG
HB050-075	1/2" MALE THREAD X 3/4" HOSE BARB	300	10/BAG
HB075-038	3/4" MALE THREAD X 3/8" HOSE BARB	300	10/BAG
HB075-050	3/4" MALE THREAD X 1/2" HOSE BARB	300	10/BAG
HB075-058	3/4" MALE THREAD X 5/8" HOSE BARB	300	10/BAG
HB075	3/4" MALE THREAD X 3/4" HOSE BARB	300	10/BAG
HB075-100	3/4" MALE THREAD X 1" HOSE BARB	300	10/BAG
HB100-075	1" MALE THREAD X 3/4" HOSE BARB	300	10/BAG
HB100	1" MALE THREAD X 1" HOSE BARB	300	10/BAG
HB100-125	1" MALE THREAD X 1 1/4" HOSE BARB	300	10/BAG
HB125-075	1 1/4" MALE THREAD X 3/4" HOSE BARB	300	10/BAG
HB125-100	1 1/4" MALE THREAD X 1" HOSE BARB	300	10/BAG
HB125	1 1/4" MALE THREAD X 1 1/4" HOSE BARB	300	10/BAG
HB125-150	1 1/4" MALE THREAD X 1 1/2" HOSE BARB	300	10/BAG
HB150-100	1 1/2" MALE THREAD X 1" HOSE BARB	300	10/BAG
HB150-125	1 1/2" MALE THREAD X 1 1/4" HOSE BARB	300	10/BAG
HB150	1 1/2" MALE THREAD X 1 1/2" HOSE BARB	300	10/BAG
HB150-200	1 1/2" MALE THREAD X 2" HOSE BARB	300	10/BAG
HB200-150	2" MALE THREAD X 1 1/2" HOSE BARB	300	10/BAG
HB200	2" MALE THREAD X 2" HOSE BARB	300	10/BAG
HB300	3" MALE THREAD X 3" HOSE BARB	225	1
HB400	4" MALE THREAD X 4" HOSE BARB	150	1



FEMALE HOSE BARBS

PART NO	DESCRIPTION	MAX PSI	QTY
HB075	3/4" FEMALE THREAD	300	10/BAG
HB075-100	3/4" FEMALE THREAD X 1" HOSE SHANK	300	10/BAG
HB0100	1" FEMALE THREAD X 1" HOSE SHANK	300	10/BAG



90° HOSE BARBS

PART NO	DESCRIPTION	MAX PSI	QTY
HB025-90	1/4" MALE THREAD X 1/4" 90° HOSE BARB	300	10/BAG
HB025/038-90	1/4" MALE THREAD X 3/8" 90° HOSE BARB	300	10/BAG
HB025/050-90	1/4" MALE THREAD X 1/2" 90° HOSE BARB	300	10/BAG
HB038-90	3/8" MALE THREAD X 3/8" 90° HOSE BARB	300	10/BAG
HB050/038-90	1/2" MALE THREAD X 3/8" 90° HOSE BARB	300	10/BAG
HB050-90	1/2" MALE THREAD X 1/2" 90° HOSE BARB	300	10/BAG
HB050/075-90	1/2" MALE THREAD X 3/4" 90° HOSE BARB	300	10/BAG
HB075/050-90	3/4" MALE THREAD X 1/2" 90° HOSE BARB	300	10/BAG
HB075-90	3/4" MALE THREAD X 3/4" 90° HOSE BARB	300	10/BAG
HB075/100-90	3/4" MALE THREAD X 1" 90° HOSE BARB	300	10/BAG
HB100/075-90	1" MALE THREAD X 3/4" 90° HOSE BARB	300	10/BAG
HB100-90	1" MALE THREAD X 1" 90° HOSE BARB	300	10/BAG
HB100/125-90	1" MALE THREAD X 1 1/4" 90° HOSE BARB	300	10/BAG
HB125/100-90	1 1/4" MALE THREAD X 1" 90° HOSE BARB	300	10/BAG
HB125-90	1 1/4" MALE THREAD X 1 1/4" 90° HOSE BARB	300	10/BAG
HB125/150-90	1 1/4" MALE THREAD X 1 1/2" 90° HOSE BARB	300	10/BAG
HB150/125-90	1 1/2" MALE THREAD X 1 1/4" 90° HOSE BARB	300	10/BAG
HB150-90	1 1/2" MALE THREAD X 1 1/2" 90° HOSE BARB	300	10/BAG
HB200/150-90	2" MALE THREAD X 1 1/2" 90° HOSE BARB	300	10/BAG
HB200-90	2" MALE THREAD X 2" 90° HOSE BARB	300	10/BAG
HB300-90	3" MALE THREAD X 3" 90° HOSE BARB	225	1



316 STAINLESS STEEL HOSE BARBS

PART NO	DESCRIPTION	MAX PSI	QTY
HB025SS	1/4" MALE THREAD X 1/4" HOSE SHANK	300	1
HB025-038SS	1/4" MALE THREAD X 3/8" HOSE SHANK	300	1
HB025-050SS	1/4" MALE THREAD X 1/2" HOSE SHANK	300	1
HB038SS	3/8" MALE THREAD X 3/8" HOSE SHANK	300	1
HB038-050SS	3/8" MALE THREAD X 1/2" HOSE SHANK	300	1
HB050SS	1/2" MALE THREAD X 1/2" HOSE SHANK	300	1
HB050-058SS	1/2" MALE THREAD X 5/8" HOSE SHANK	300	1
HB050-075SS	1/2" MALE THREAD X 3/4" HOSE SHANK	300	1
HB075-050SS	3/4" MALE THREAD X 1/2" HOSE SHANK	300	1
HB075SS	3/4" MALE THREAD X 3/4" HOSE SHANK	300	1
HB075-100SS	3/4" MALE THREAD X 1" HOSE SHANK	300	1
HB100-075SS	1" MALE THREAD X 3/4" HOSE SHANK	300	1
HB100SS	1" MALE THREAD X 1" HOSE SHANK	300	1
HB125SS	1 1/4" MALE THREAD X 1 1/4" HOSE SHANK	300	1
HB150SS	1 1/2" MALE THREAD X 1 1/2" HOSE SHANK	300	1
HB200SS	2" MALE THREAD X 2" HOSE SHANK	300	1
HB300SS	3" MALE THREAD X 3" HOSE SHANK	300	1



HOSE BARB TEES

PART NO	DESCRIPTION	MAX PSI	QTY
HBT025	1/4" HOSE BARB TEE	300	10/BAG
HBT038	3/8" HOSE BARB TEE	300	10/BAG
HBT050-038	1/2" X 1/2" X 3/8" HOSE BARB TEE	300	10/BAG
HBT050	1/2" HOSE BARB TEE	300	10/BAG
HBT050-075	1/2" X 1/2" X 3/4" HOSE BARB TEE	300	10/BAG
HBT075-050	3/4" X 3/4" X 1/2" HOSE BARB TEE	300	10/BAG
HBT075	3/4" HOSE BARB TEE	300	10/BAG
HBT075-100	3/4" X 3/4" X 1" HOSE BARB TEE	300	10/BAG
HBT100-075	1" X 1" X 3/4" HOSE BARB TEE	300	10/BAG
HBT100	1" HOSE BARB TEE	300	10/BAG
HBT200	2" HOSE BARB TEE	300	1
HBT300	3" HOSE BARB TEE	300	1



HOSE BARB THREADED TEES

PART NO	DESCRIPTION	MAX PSI	QTY
HBT100-100	1" HOSE BARB X 1" HOSE BARB X 1" MALE THREAD HOSE BARB TEE	300	10/BAG
HBT150-100	1 1/2" HOSE BARB X 1 1/2" HOSE BARB X 1" MALE THREAD HOSE BARB TEE	300	1
HBT150-150	1 1/2" HOSE BARB X 1 1/2" HOSE BARB X 1 1/2" MALE THREAD HOSE BARB TEE	300	1



SS HOSE BARB THREADED TEES

PART NO	DESCRIPTION	MAX PSI	QTY
HBT075-050SS	3/4" HOSE BARB X 3/4" HOSE BARB X 1/2" MALE THREAD HOSE BARB TEE	150	1



HOSE MENDERS

PART NO	DESCRIPTION	MAX PSI	QTY
HM025	1/4" X 1/4" HOSE BARB	300	10/BAG
HM038	3/8" X 3/8" HOSE BARB	300	10/BAG
HM050	1/2" X 1/2" HOSE BARB	300	10/BAG
HM075	3/4" X 3/4" HOSE BARB	300	10/BAG
HM100	1" X 1" HOSE BARB	300	10/BAG
HM125	1 1/4" X 1 1/4" HOSE BARB	300	10/BAG
HM150	1 1/2" X 1 1/2" HOSE BARB	300	10/BAG
HM200	2" X 2" HOSE BARB	300	10/BAG
HM300	3" X 3" HOSE BARB	300	1



SWIVELS

PART NO	DESCRIPTION	MAX PSI	QTY
SW100	1" MALE X 1" FEMALE SWIVEL	300	1
SW150	1 1/2" MALE X 1 1/2" FEMALE SWIVEL	300	1
SW220	2" FULL PORT MALE X 2" FULL PORT FEMALE SWIVEL	150	1



8 STATION MANIFOLD

PART NO	DESCRIPTION	MAX PSI	QTY
TM075/050	8 STATION MANIFOLD 3/4" INLET X 1/2" OUTLET, 1/4" GAUGE PORT	225	1

PIPE FITTINGS

FEATURES

- Glass reinforced polypropylene
- Heavy duty (Schedule 80)
- Lightweight with excellent strength
- NPT threads
- Excellent chemical resistance
- Where noted, parts must be ordered in bag quantities

Recommended procedure for sealing pipe threads:

We DO NOT recommend using pipe tape. Pipe tape enlarges the outside diameter of the male thread and may cause the female thread to split. We recommend using a pipe thread sealant. Use on clean tapered threads. Apply a thick even coat on male threads using brush applicator. For pipe diameters smaller than 1 1/4" apply to male threads only. For 1 1/4" and larger sizes apply to both male and female threads. Avoid applying excessive amounts. Hand tighten joints and then torque another 1/2 to 3/4 turn until threads seal.

We can no longer ship this product outside of the United States.

PIPE SEALANT

FEATURES

- RECTORSEAL® No. 21™ is slow drying, soft set multi-purpose sealant designed for use where black is preferred. 8 oz can with brush in the cap. Conforms to TT-S-1732.
- RECTORSEAL® TRU-BLU™ is fast drying, flexible set designed for high vibration environments. Teflon™ has been added to enhance thread lubrication during assembly and break out. Conforms to TT-S-1732.

*DuPont Registered Trademark



PIPE SEALANT

PART NO	DESCRIPTION	QTY
RS21	RECTORSEAL® NO. 21™ (8 OZ W/ BRUSH IN CAP-24/CASE)	1
RSTB	RECTORSEAL® TRU-BLU™ (8 OZ W/ BRUSH IN CAP-24/CASE)	1

LINE STRAINERS

MINI T STRAINERS

FEATURES

- Heavy duty glass reinforced polypropylene
- Clear or black bowl
- Polypropylene ribbed 316 stainless steel screens
- EPDM gaskets standard
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)



MINI T STRAINERS W/CLEAR BOWLS

PART NO	DESCRIPTION	MAX PSI	QTY
LSTM050-30C	1/2" X 1/2" CLEAR BOWL STRAINER W/30 MESH SCREEN	200	1
LSTM050-50C	1/2" X 1/2" CLEAR BOWL STRAINER W/50 MESH SCREEN	200	1
LSTM050-80C	1/2" X 1/2" CLEAR BOWL STRAINER W/80 MESH SCREEN	200	1
LSTM050-100C	1/2" X 1/2" CLEAR BOWL STRAINER W/100 MESH SCREEN	200	1
LSTM075-30C	3/4" X 3/4" CLEAR BOWL STRAINER W/30 MESH SCREEN	200	1
LSTM075-50C	3/4" X 3/4" CLEAR BOWL STRAINER W/50 MESH SCREEN	200	1
LSTM075-80C	3/4" X 3/4" CLEAR BOWL STRAINER W/80 MESH SCREEN	200	1
LSTM075-100C	3/4" X 3/4" CLEAR BOWL STRAINER W/100 MESH SCREEN	200	1

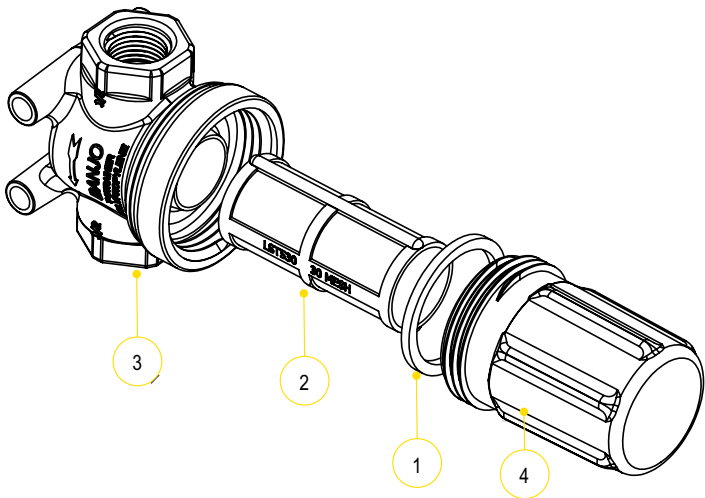


MINI T STRAINERS W/BLACK BOWLS

PART NO	DESCRIPTION	MAX PSI	QTY
LSTM050-30	1/2" X 1/2" BLACK BOWL STRAINER W/30 MESH SCREEN	200	1
LSTM050-50	1/2" X 1/2" BLACK BOWL STRAINER W/50 MESH SCREEN	200	1
LSTM050-80	1/2" X 1/2" BLACK BOWL STRAINER W/80 MESH SCREEN	200	1
LSTM050-100	1/2" X 1/2" BLACK BOWL STRAINER W/100 MESH SCREEN	200	1
LSTM075-30	3/4" X 3/4" BLACK BOWL STRAINER W/30 MESH SCREEN	200	1
LSTM075-50	3/4" X 3/4" BLACK BOWL STRAINER W/50 MESH SCREEN	200	1
LSTM075-80	3/4" X 3/4" BLACK BOWL STRAINER W/80 MESH SCREEN	200	1
LSTM075-100	3/4" X 3/4" BLACK BOWL STRAINER W/100 MESH SCREEN	200	1

Note: Also available in manifold version. See our website and price list for details.

MINI T STRAINERS



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LSTM050G	EPDM GASKET	1
2	LST530	30 MESH SCREEN	1
2	LST550	50 MESH SCREEN	1
2	LST580	80 MESH SCREEN	1
2	LST5100	100 MESH SCREEN	1
3	LSTM050H	1/2" STRAINER HEAD	1
3	LSTM075H	3/4" STRAINER HEAD	1
4	LSTM050BC	CLEAR BOWL	1
4	LSTM050B	BLACK BOWL	1

STANDARD MESHES & DATA

	30 MESH	50 MESH	80 MESH	100 MESH
MICRONS	595	297	177	149
WIRE DIAMETER	.012	.009	.0055	.0045
OPENING	.021	.011	.007	.005
% OPEN AREA	40.8	30.3	31.4	30.3

SCREENS

MESH SIZE	RIB COLOR
30 MESH	FLAME RED
50 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
100 MESH	TRAFFIC GREEN

LINE STRAINERS

¾"-1½" T STRAINERS

FEATURES

- Heavy duty glass reinforced polypropylene
- Clean out plug
- Polypropylene ribbed 316 stainless steel screens
- EPDM gaskets standard, FKM available
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)



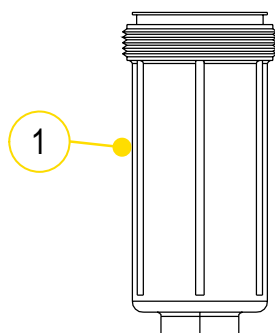
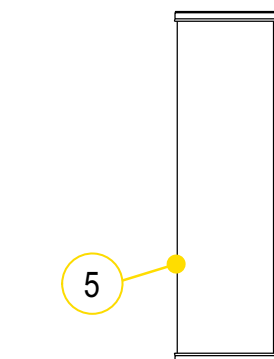
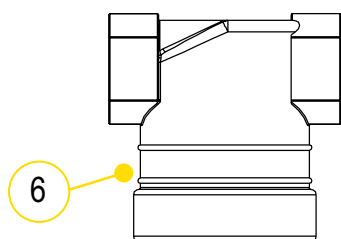
¾"-1" T STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LST075-16	¾" X ¾" T STRAINER W/16 MESH SS SCREEN	300	1
LST075-30	¾" X ¾" T STRAINER W/30 MESH SS SCREEN	300	1
LST075-50	¾" X ¾" T STRAINER W/50 MESH SS SCREEN	300	1
LST075-80	¾" X ¾" T STRAINER W/80 MESH SS SCREEN	300	1
LST075-100	¾" X ¾" T STRAINER W/100 MESH SS SCREEN	300	1
LST100-16	1" X 1" T STRAINER W/16 MESH SS SCREEN	300	1
LST100-30	1" X 1" T STRAINER W/30 MESH SS SCREEN	300	1
LST100-50	1" X 1" T STRAINER W/50 MESH SS SCREEN	300	1
LST100-80	1" X 1" T STRAINER W/80 MESH SS SCREEN	300	1
LST100-100	1" X 1" T STRAINER W/100 MESH SS SCREEN	300	1

1¼"-1½" T STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LST125-16	1¼" X 1¼" T STRAINER W/16 MESH SS SCREEN	300	1
LST125-30	1¼" X 1¼" T STRAINER W/30 MESH SS SCREEN	300	1
LST125-50	1¼" X 1¼" T STRAINER W/50 MESH SS SCREEN	300	1
LST125-80	1¼" X 1¼" T STRAINER W/80 MESH SS SCREEN	300	1
LST125-100	1¼" X 1¼" T STRAINER W/100 MESH SS SCREEN	300	1
LST150-16	1½" X 1½" T STRAINER W/16 MESH SS SCREEN	300	1
LST150-30	1½" X 1½" T STRAINER W/30 MESH SS SCREEN	300	1
LST150-50	1½" X 1½" T STRAINER W/50 MESH SS SCREEN	300	1
LST150-80	1½" X 1½" T STRAINER W/80 MESH SS SCREEN	300	1
LST150-100	1½" X 1½" T STRAINER W/100 MESH SS SCREEN	300	1

3/4"-1 1/2" T STRAINERS



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LST100-B	3/4" & 1" BOWL	1
2	LST100-G	3/4" & 1" EPDM GASKET	1
2	LST100-GV	3/4" & 1" FKM GASKET	1
3	12777	1/2" PLUG	1
4	UV15163V	FKM O-RING FOR CLEAN OUT PLUG	1
5	LST116	16 MESH SCREEN	1
5	LST130	30 MESH SCREEN	1
5	LST150	50 MESH SCREEN	1
5	LST180	80 MESH SCREEN	1
5	LST1100	100 MESH SCREEN	1
6	LST075-H	3/4" STRAINER HEAD	1
6	LST100-H	1" STRAINER HEAD	1
N/S	LST075-HB	3/4" STRAINER HEAD, BOWL & GASKET	1
N/S	LST100-HB	1" STRAINER HEAD, BOWL & GASKET	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LST150-B	1 1/4" & 1 1/2" BOWL	1
2	LST150-G	1 1/4" & 1 1/2" EPDM GASKET	1
2	LST150-GV	1 1/4" & 1 1/2" FKM GASKET	1
3	LSQ200-PL	1" CLEAN OUT PLUG	1
4	LSQ200-RV	FKM O-RING FOR CLEAN OUT PLUG	1
5	LST1516	16 MESH SCREEN	1
5	LST1530	30 MESH SCREEN	1
5	LST1550	50 MESH SCREEN	1
5	LST1580	80 MESH SCREEN	1
5	LST15100	100 MESH SCREEN	1
6	LST125-H	1 1/4" STRAINER HEAD	1
6	LST150-H	1 1/2" STRAINER HEAD	1
N/S	LST125-HB	1 1/4" STRAINER HEAD, BOWL & GASKET	1
N/S	LST150-HB	1 1/2" STRAINER HEAD, BOWL & GASKET	1

STANDARD MESHERS & DATA

	16 MESH	30 MESH	50 MESH	80 MESH	100 MESH
MICRONS	1190	595	297	177	149
WIRE DIAMETER	.018	.012	.009	.0055	.0045
OPENING	.044	.021	.011	.007	.005
% OPEN AREA	50.7	40.8	30.3	31.4	30.3

SCREENS

MESH SIZE	RIB COLOR
16 MESH	BROWN RED
30 MESH	FLAME RED
50 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
100 MESH	TRAFFIC GREEN

LINE STRAINERS

2" T STRAINERS POLY/STAINLESS COMBO

FEATURES

- Heavy duty glass reinforced polypropylene bowl
- 316 stainless steel head
- Clean out plug
- 316 stainless steel screens
- FKM gaskets



2" T STRAINERS POLY/SS COMBO

PART NO	DESCRIPTION	MAX PSI	QTY
LST200-10SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/10 MESH SCREEN	300	1
LST200-16SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/16 MESH SCREEN	300	1
LST200-30SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/30 MESH SCREEN	300	1
LST200-50SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/50 MESH SCREEN	300	1
LST200-80SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/80 MESH SCREEN	300	1
LST200-100SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/100 MESH SCREEN	300	1

LSQ STRAINERS

FEATURES

- Precision molded in glass reinforced polypropylene
- Cam lever configuration for easy access for cleaning and servicing
- 3/4" plug in cam lever cap for attaching ball valve for draining or back flushing
- Poly ribbed 316 stainless steel screen
- EPDM lathe cut gasket
- FKM gaskets available
- For faster shipping, order in box quantities
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)

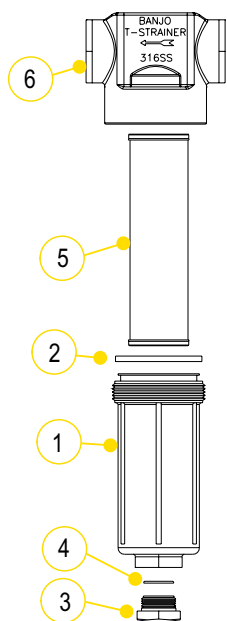


1 1/2" LSQ STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LSQ150-06	1 1/2" X 1 1/2" LSQ STRAINER W/6 MESH SCREEN	100	6/BOX
LSQ150-12	1 1/2" X 1 1/2" LSQ STRAINER W/12 MESH SCREEN	100	6/BOX
LSQ150-20	1 1/2" X 1 1/2" LSQ STRAINER W/20 MESH SCREEN	100	6/BOX
LSQ150-30	1 1/2" X 1 1/2" LSQ STRAINER W/30 MESH SCREEN	100	6/BOX
LSQ150-50	1 1/2" X 1 1/2" LSQ STRAINER W/50 MESH SCREEN	100	6/BOX
LSQ150-80	1 1/2" X 1 1/2" LSQ STRAINER W/80 MESH SCREEN	100	6/BOX
LSQ150-120	1 1/2" X 1 1/2" LSQ STRAINER W/120 MESH SCREEN	100	6/BOX

2" LSQ STRAINERS

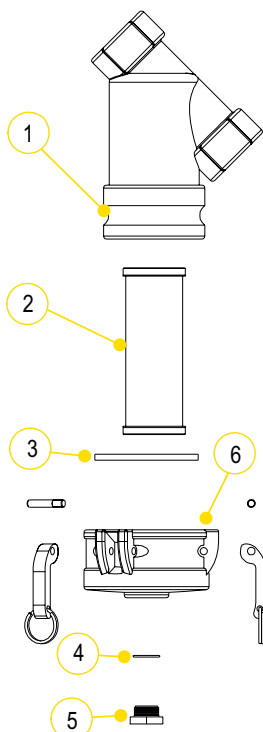
PART NO	DESCRIPTION	MAX PSI	QTY
LSQ200-06	2" X 2" LSQ STRAINER W/6 MESH SCREEN	100	6/BOX
LSQ200-12	2" X 2" LSQ STRAINER W/12 MESH SCREEN	100	6/BOX
LSQ200-20	2" X 2" LSQ STRAINER W/20 MESH SCREEN	100	6/BOX
LSQ200-30	2" X 2" LSQ STRAINER W/30 MESH SCREEN	100	6/BOX
LSQ200-50	2" X 2" LSQ STRAINER W/50 MESH SCREEN	100	6/BOX
LSQ200-80	2" X 2" LSQ STRAINER W/80 MESH SCREEN	100	6/BOX
LSQ200-120	2" X 2" LSQ STRAINER W/120 MESH SCREEN	100	6/BOX



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LST200-B	2" POLY BOWL	1
2	LST200-GV	2" FKM GASKET	1
3	LSQ200-PL	1" CLEAN OUT PLUG	1
4	LSQ200-RV	FKM O-RING FOR CLEAN OUT PLUG	1
5	LST204SS	4 MESH SS SCREEN	1
5	LST206SS	6 MESH SS SCREEN	1
5	LST208SS	8 MESH SS SCREEN	1
5	LST210SS	10 MESH SS SCREEN	1
5	LST216SS	16 MESH SS SCREEN	1
5	LST230SS	30 MESH SS SCREEN	1
5	LST250SS	50 MESH SS SCREEN	1
5	LST280SS	80 MESH SS SCREEN	1
5	LST2100SS	100 MESH SS SCREEN	1
6	LST200-HSS	2" SS HEAD	1
N/S	LST200-HBSS	2" SS HEAD, POLY BOWL & GASKET	1

2" T STRAINERS POLY/STAINLESS COMBO



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LSQ150-B	1½" LSQ BODY	1
1	LSQ200-B	2" LSQ BODY	1
2	LS206	6 MESH SCREEN	1
2	LS212	12 MESH SCREEN	1
2	LS220	20 MESH SCREEN	1
2	LS230	30 MESH SCREEN	1
2	LS250	50 MESH SCREEN	1
2	LS280	80 MESH SCREEN	1
2	LS2120	120 MESH SCREEN	1
3	LSQ200-G	2" EPDM GASKET	1
3	LSQ200-GV	2" FKM GASKET	1
4	13778V	O-RING	1
5	PLUG075S	¾" CLEAN OUT PLUG	1
6	LSQ200-C	2" CAP	1

LSQ STRAINERS

SCREENS

MESH SIZE	RIB COLOR
6 MESH	WHITE
12 MESH	BLACK
20 MESH	BEIGE
30 MESH	FLAME RED
50 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
120 MESH	BLACK

STANDARD MESHES & DATA

	6 MESH	8 MESH	10 MESH	12 MESH	16 MESH	20 MESH	30 MESH	50 MESH	80 MESH	100 MESH	120 MESH
MICRONS	3360	2380	2000	1680	1190	841	595	297	177	149	125
WIRE DIAMETER	.035	.028	.025	.023	.018	.016	.012	.009	.0055	.0045	.0037
OPENING	.132	.097	.075	.060	.044	.034	.021	.011	.007	.005	.0046
% OPEN AREA	62.7	60.2	56.3	51.8	50.7	46.2	40.8	30.3	31.4	30.3	30.5

LINE STRAINERS

½"-1¼" Y STRAINERS

FEATURES

- Heavy duty glass reinforced polypropylene
- Corrosion resistant
- Easy grip end cap
- Heavy duty end cap threads
- Clean out plug
- Polypropylene ribbed 316 stainless steel screens
- EPDM gaskets standard, FKM available
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)



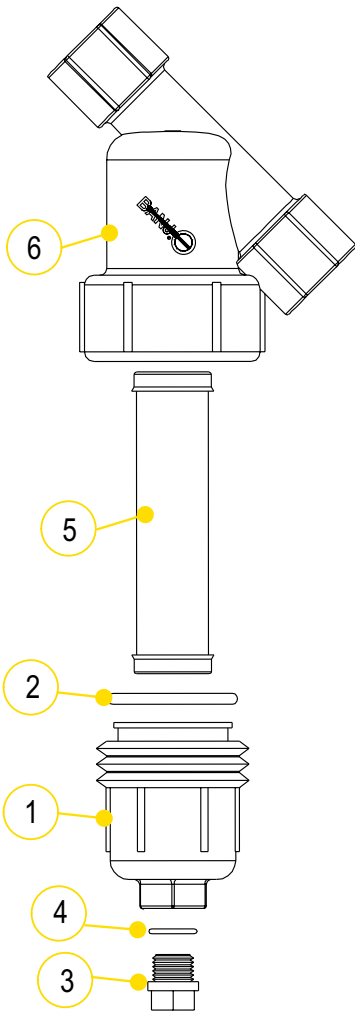
½"-¾" Y STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LS050-20	½" X ½" Y STRAINER W/20 MESH SS SCREEN	225	1
LS050-40	½" X ½" Y STRAINER W/40 MESH SS SCREEN	225	1
LS050-60	½" X ½" Y STRAINER W/60 MESH SS SCREEN	225	1
LS050-80	½" X ½" Y STRAINER W/80 MESH SS SCREEN	225	1
LS075-20	¾" X ¾" Y STRAINER W/20 MESH SS SCREEN	225	1
LS075-40	¾" X ¾" Y STRAINER W/40 MESH SS SCREEN	225	1
LS075-60	¾" X ¾" Y STRAINER W/60 MESH SS SCREEN	225	1
LS075-80	¾" X ¾" Y STRAINER W/80 MESH SS SCREEN	225	1



1"-1¼" Y STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LS100-20	1" X 1" Y STRAINER W/20 MESH SS SCREEN	200	1
LS100-40	1" X 1" Y STRAINER W/40 MESH SS SCREEN	200	1
LS100-80	1" X 1" Y STRAINER W/80 MESH SS SCREEN	200	1
LS125-20	1¼" X 1¼" Y STRAINER W/20 MESH SS SCREEN	200	1
LS125-40	1¼" X 1¼" Y STRAINER W/40 MESH SS SCREEN	200	1
LS125-80	1¼" X 1¼" Y STRAINER W/80 MESH SS SCREEN	200	1



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LS075-C1	1/2"-3/4" END CAP	1
2	LS075-G	1/2"-3/4" O-RING	1
3	12723	1/4" DRAIN PLUG (FITS 1/2"-3/4")	1
4	12724	1/2"-3/4" EPDM O-RING FOR DRAIN PLUG	1
5	LS720	1/2"-3/4" 20 MESH SCREEN	1
5	LS740	1/2"-3/4" 40 MESH SCREEN	1
5	LS760	1/2"-3/4" 60 MESH SCREEN	1
5	LS780	1/2"-3/4" 80 MESH SCREEN	1
6	LS050-B	1/2" Y BODY	1
6	LS075-B	3/4" Y BODY	1
N/S	LS050B/C1	1/2" Y BODY, CAP & GASKET	1
N/S	LS075B/C1	3/4" Y BODY, CAP & GASKET	1

REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LS100-C1	1"-1 1/4" END CAP	1
2	LS100-G	1"-1 1/4" O-RING	1
2	LS100-GV	1"-1 1/4" FKM GASKET	1
3	12777	1/2" PLUG (FITS 1"-1 1/4")	1
5	LS120	1"-1 1/4" 20 MESH SCREEN	1
5	LS140	1"-1 1/4" 40 MESH SCREEN	1
5	LS180	1"-1 1/4" 80 MESH SCREEN	1
6	LS100-B	1" Y BODY	1
6	LS125-B	1 1/4" Y BODY	1
N/S	LS100B/C1	1" Y BODY, CAP & GASKET	1
N/S	LS125B/C1	1 1/4" Y BODY, CAP & GASKET	1

STANDARD MESHES & DATA

	6 MESH	8 MESH	10 MESH	12 MESH	16 MESH	20 MESH	30 MESH	50 MESH	80 MESH	100 MESH	120 MESH
MICRONS	3360	2380	2000	1680	1190	841	595	297	177	149	125
WIRE DIAMETER	.035	0.28	0.25	0.23	.018	0.16	.012	.009	.0055	.0045	.0037
OPENING	.132	.097	.075	.060	.044	.034	.021	.011	.007	.005	.0046
% OPEN AREA	62.7	60.2	56.3	51.8	50.7	46.2	40.8	30.3	31.4	30.3	30.5

1/2"-1 1/4" Y STRAINERS

SCREENS

MESH SIZE	RIB COLOR
6 MESH	WHITE
12 MESH	BLACK
20 MESH	BEIGE
30 MESH	FLAME RED
40 MESH	BROWN
50 MESH	GENTIAN BLUE
60 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
100 MESH	TRAFFIC GREEN
120 MESH	BLACK

LINE STRAINERS

1½"-2" Y STRAINERS

FEATURES

- Heavy duty glass reinforced polypropylene
- Corrosion resistant
- Easy grip end cap
- Heavy duty end cap threads
- Clean out plug
- Polypropylene ribbed 316 stainless steel screens
- EPDM gaskets standard, FKM available
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)



1½" Y STRAINERS

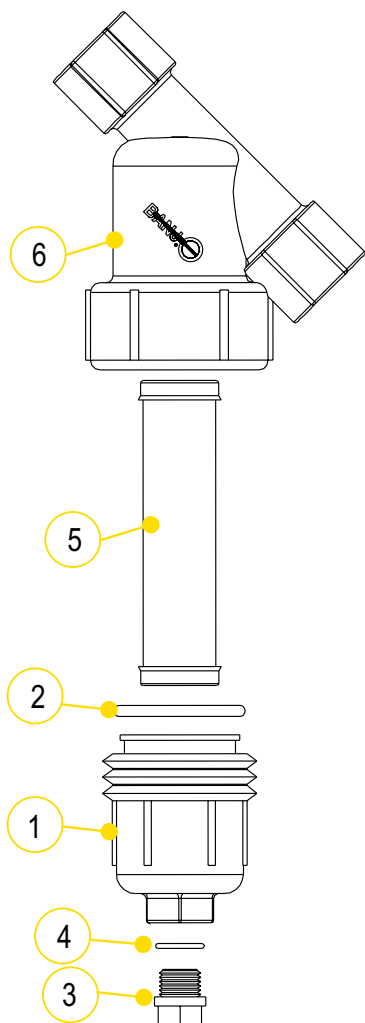
PART NO	DESCRIPTION	MAX PSI	QTY
LS150-06	1½" X 1½" Y STRAINER W/6 MESH SS SCREEN	150	1
LS150-12	1½" X 1½" Y STRAINER W/12 MESH SS SCREEN	150	1
LS150-20	1½" X 1½" Y STRAINER W/20 MESH SS SCREEN	150	1
LS150-30	1½" X 1½" Y STRAINER W/30 MESH SS SCREEN	150	1
LS150-50	1½" X 1½" Y STRAINER W/50 MESH SS SCREEN	150	1
LS150-80	1½" X 1½" Y STRAINER W/80 MESH SS SCREEN	150	1
LS150-120	1½" X 1½" Y STRAINER W/120 MESH SS SCREEN	150	1



2" Y STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LS200-06	2" X 2" Y STRAINER W/6 MESH POLY RIBBED SS SCREEN	150	1
LS200-12	2" X 2" Y STRAINER W/12 MESH POLY RIBBED SS SCREEN	150	1
LS200-20	2" X 2" Y STRAINER W/20 MESH POLY RIBBED SS SCREEN	150	1
LS200-30	2" X 2" Y STRAINER W/30 MESH POLY RIBBED SS SCREEN	150	1
LS200-50	2" X 2" Y STRAINER W/50 MESH POLY RIBBED SS SCREEN	150	1
LS200-80	2" X 2" Y STRAINER W/80 MESH POLY RIBBED SS SCREEN	150	1
LS200-100	2" X 2" Y STRAINER W/100 MESH POLY RIBBED SS SCREEN	150	1
LS200-120	2" X 2" Y STRAINER W/120 MESH POLY RIBBED SS SCREEN	150	1

1½"-2" Y STRAINERS



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LS150-C	1½" - 2" END CAP	1
2	LS150-G	1½"-2" O-RING	1
2	LS150-GV	1½"-2" FKM GASKET	1
3	LSQ200-PL	1" DRAIN PLUG (FITS 1½" - 2")	1
4	LSQ200-RV	1½"-2" FKM O-RING FOR DRAIN PLUG	1
5	LS206	1½"-2" 6 MESH SCREEN	1
5	LS212	1½"-2" 12 MESH SCREEN	1
5	LS220	1½"-2" 20 MESH SCREEN	1
5	LS230	1½"-2" 30 MESH SCREEN	1
5	LS250	1½"-2" 50 MESH SCREEN	1
5	LS280	1½"-2" 80 MESH SCREEN	1
5	LS2100	1½"-2" 100 MESH SCREEN	1
5	LS2120	1½"-2" 120 MESH SCREEN	1
5	LS212P	1½"-2" 12 MESH ALL POLY SCREEN	1
5	LS220P	1½"-2" 20 MESH ALL POLY SCREEN	1
5	LS250P	1½"-2" 50 MESH ALL POLY SCREEN	1
6	LS150-B	1½" Y BODY	1
6	LS200-B	2" Y BODY	1
N/S	LS150B/C	1½" Y BODY, CAP & GASKET	1
N/S	LS200B/C	2" Y BODY, CAP & GASKET	1

SCREENS

MESH SIZE	RIB COLOR
6 MESH	WHITE
12 MESH	BLACK
20 MESH	BEIGE
30 MESH	FLAME RED
40 MESH	BROWN
50 MESH	GENTIAN BLUE
80 MESH	ZINC YELLOW
100 MESH	TRAFFIC GREEN
120 MESH	BLACK

STANDARD MESHERS & DATA

	6 MESH	8 MESH	12 MESH	20 MESH	30 MESH	50 MESH	80 MESH	100 MESH	120 MESH
MICRONS	3360	2380	1680	841	595	297	177	149	125
WIRE DIAMETER	.035	0.28	0.23	0.16	.012	.009	.0055	.0045	.0037
OPENING	.132	.097	.060	.034	.021	.011	.007	.005	.0046
% OPEN AREA	62.7	60.2	51.8	46.2	40.8	30.3	31.4	30.3	30.5

LINE STRAINERS

3" Y STRAINERS

FEATURES

- Heavy duty glass reinforced polypropylene
- Corrosion resistant
- High volume
- Heavy duty end cap threads
- ½" clean out plug
- 304 stainless steel screens
- EPDM gaskets standard, FKM available
- Warning: to be used on suction side or non-pressure side in all applications



3" Y STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
LSM300-04	3" X 3" Y STRAINER W/4 MESH SCREEN	75	2/BOX
LSM300-08	3" X 3" Y STRAINER W/8 MESH SCREEN	75	2/BOX
LSM300-12	3" X 3" Y STRAINER W/12 MESH SCREEN	75	2/BOX
LSM300-20	3" X 3" Y STRAINER W/20 MESH SCREEN	75	2/BOX
LSM300-50	3" X 3" Y STRAINER W/50 MESH SCREEN	75	2/BOX

3" Y STAINLESS STEEL STRAINERS

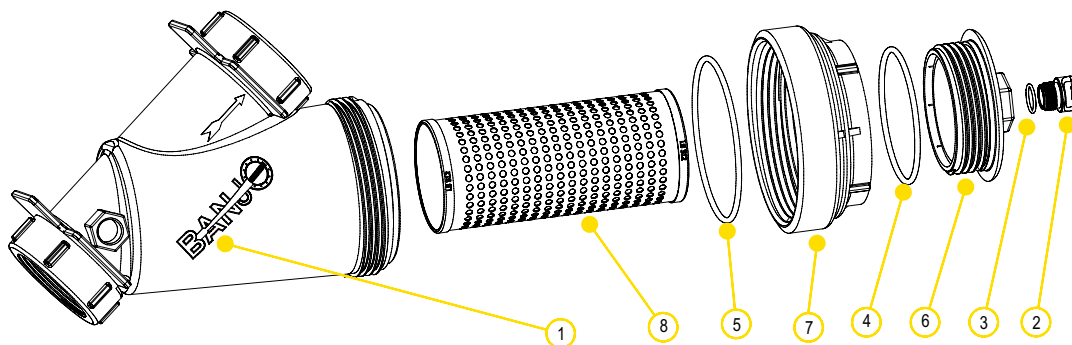
FEATURES

- Heavy duty stainless steel
- Corrosion resistant
- High volume
- Heavy duty end cap threads
- ½" clean out plug
- 304 stainless steel screens
- EPDM gaskets standard, FKM available
- Warning: to be used on suction side or non-pressure side in all applications



3" Y STRAINERS

PART NO	DESCRIPTION	QTY
LSS300-BC	3" SS BODY, CAP & GASKETS	1
LSS300-B	3" SS BODY	1
LSS300-C	3" SS CAP	1
LSS300-S	EPDM SCREEN SEAL	2
LSS300-SV	FKM SCREEN SEAL	2
LSS300-G	EPDM CAP GASKET	1
LSS300-GV	FKM CAP GASKET	1

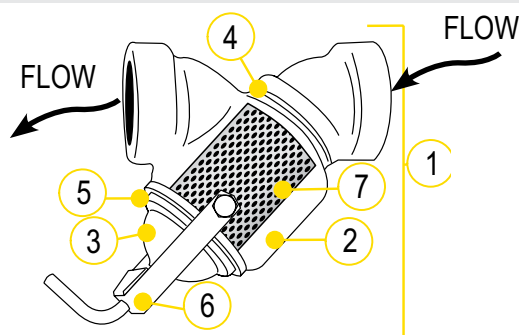


REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	MLS300B1	3" BODY	1
2	13777	3/4" PLUG	1
3	13778	O-RING	1
4	MLS300ECG	EPDM END CAP GASKET	1
4	MLS300ECGV	FKM CAP GASKET	1
5	MLS300G	EPDM CAP GASKET	1
5	MLS300GV	FKM CAP GASKET	1
6	LS300EC	END CAP ONLY (PLUG SOLD SEPARATELY)	1
7	MLS300CAP	3" CAP	1
8	LS304	4 MESH SCREEN	1
8	LS308	8 MESH SCREEN	1
8	LS312	12 MESH SCREEN	1
8	LS320	20 MESH SCREEN	1
8	LS350	50 MESH SCREEN	1

3" Y STRAINERS

- 304 stainless steel screens



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LSS300-BC	3" SS BODY, CAP & GASKETS	1
2	LSS300-B	3" SS BODY	1
3	LSS300-C	3" SS CAP	1
4	LSS300-S	EPDM SCREEN SEAL	2
4	LSS300-SV	FKM SCREEN SEAL	2
5	LSS300-G	EPDM CAP GASKET	1
5	LSS300-GV	FKM CAP GASKET	1
6	LSS300-H	HANDLE/CLAMP ASSEMBLY	1
7	LSS306	6 MESH SS SCREEN	1
7	LSS308	8 MESH SS SCREEN	1
7	LSS312	12 MESH SS SCREEN	1
7	LSS320	20 MESH SS SCREEN	1
7	LSS330	30 MESH SS SCREEN	1
7	LSS350	50 MESH SS SCREEN	1

3" Y STAINLESS STEEL STRAINERS

- 304 stainless steel screens

CENTRIFUGAL PUMPS

PUMP ACCESSORIES PAGES 101

ROLL CAGES
SUCTION BASKET STRAINERS
BASE PLATES

1½" & 2" POLY PUMPS PAGES 102 - 115

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
WET SEAL WITH GAS ENGINE
ELECTRIC MOTOR DRIVEN
HYDRAULIC MOTOR DRIVEN
MANIFOLD

3" POLY PUMPS PAGES 116- 125

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
MANIFOLD
HYDRAULIC MOTOR DRIVEN
WET SEAL WITH GAS ENGINE

1½" & 2" CAST IRON PUMPS PAGES 126 - 133

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
WET SEALS
ELECTRIC MOTOR DRIVEN
HYDRAULIC MOTOR DRIVEN

2" CAST IRON 222 SERIES PUMPS PAGES 134 - 139

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
HYDRAULIC MOTOR DRIVEN
ELECTRIC MOTOR DRIVEN
MANIFOLD WET SEAL

3" CAST IRON PUMPS PAGES 140 - 145

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
WET SEALS
HYDRAULIC MOTOR DRIVEN

3" CAST IRON 333 SERIES PUMPS PAGES 146 - 147

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
ELECTRIC MOTOR DRIVEN

3" CAST IRON MANIFOLD WET SEAL M332 SERIES PUMPS PAGES 148 - 151

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
ELECTRIC MOTOR DRIVEN
HYDRAULIC MOTOR DRIVEN

4" CAST IRON 444 SERIES PUMPS PAGES 152 - 153

GAS ENGINE PUMPS
PUMP ONLY

2" & 3" STAINLESS STEEL PUMPS PAGES 154- 161

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
ELECTRIC MOTOR DRIVEN
HYDRAULIC MOTOR DRIVEN





PUMP ROLL CAGES

PART NO	DESCRIPTION	QTY
PRC200	2" PUMP ROLL CAGE	1

ROLL CAGE

FEATURES

- Made of steel tube construction for stability
- Powder coated finish for durability
- Fits all 2" polypropylene pumps
- Unassembled



SUCTION BASKET STRAINERS

PART NO	DESCRIPTION	QTY
200SBS	2" FEMALE THREAD POLY BASKET	1
300SBS	3" FEMALE THREAD POLY BASKET	1

SUCTION BASKET STRAINERS

FEATURES

- Made of polyethylene
- Prevents plugging and damage to pump while suctioning from streams or ponds.



BASE PLATE ASSEMBLY

PART NO	DESCRIPTION	QTY
18700	BASE PLATE ASSEMBLY INCLUDES PLATE, COUPLING GUARD, BOLT BAG AND SHIMS	1

BASE PLATE ASSEMBLY

FEATURES

- Universal fit for 1½", 2" and 3" polypropylene or cast iron pumps

CENTRIFUGAL PUMPS

1½" & 2" POLY PUMPS

FEATURES

- Precision molded construction
- Lightweight
- Corrosion resistant
- Superior design
- Low maintenance
- EPDM standard, FKM available
- Engine warranty service available at authorized Briggs & Stratton® and Honda® dealers



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



2" POLY PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
200PH-5	2" POLY PUMP W/5.5 HP HONDA® ENGINE	5.5	1
200PH-5RC	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ROLL CAGE	5.5	1
200PH-5E	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1
200PH-5ERC	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START W/ ROLL CAGE	5.5	1
200PH-5V	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/FKM & 316 SS SEAL	5.5	1
200PH6	2" POLY PUMP W/6.5 HP HONDA® ENGINE	6.5	1
200P6PRO	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1
200P6PRORC	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START W/ ROLL CAGE	6.5	1
200P6PROE	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START	6.5	1
200P6PROV	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/FKM & 316 SS SEAL	6.5	1

1½" & 2" POLY PUMP BEARING PEDESTALS

PART NO	DESCRIPTION	HP	QTY
200PB	2" POLY BEARING PEDESTAL W/ ¾" SHAFT & 3 VANE IMPELLER	N/A	1
200PB-V	2" POLY BEARING PEDESTAL W/ ¾" SHAFT & 3 VANE IMPELLER W/FKM & 316 SS SEAL	N/A	1
205PB	2" POLY BEARING PEDESTAL W/ ¾" SHAFT & 5 VANE IMPELLER	N/A	1
205PB-V	2" POLY BEARING PEDESTAL W/ ¾" SHAFT & 5 VANE IMPELLER W/FKM & 316 SS SEAL	N/A	1

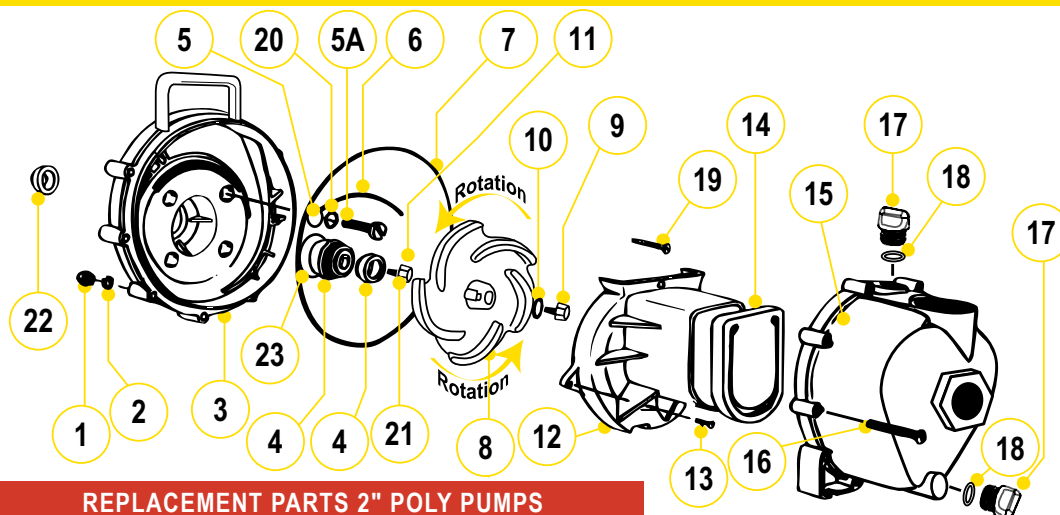
1½" & 2" POLY PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY
200PO	2" POLY PUMP ONLY* W/ 3 VANE IMPELLER	N/A	1
200PO-V	2" POLY PUMP ONLY* W/3 VANE IMPELLER W/ FKM & 316 SS SEAL	N/A	1
205PO	2" POLY PUMP ONLY* W/ 5 VANE IMPELLER	N/A	1
205PO-V	2" POLY PUMP ONLY* W/ 5 VANE IMPELLER W/ FKM & 316 SS SEAL	N/A	1

Note: Requires ¾" shaft on motor

CENTRIFUGAL PUMPS

1½" & 2" POLY PUMPS

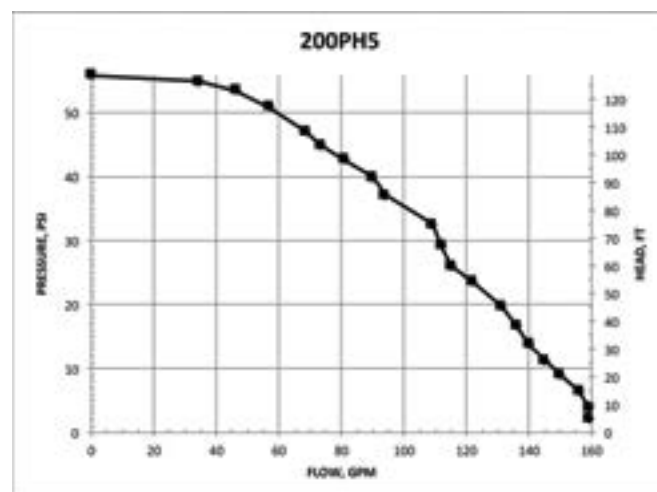


REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	V07019	SS BODY NUTS	10
2	V07018	SS LOCK WASHERS	10
3	12703A	POLY PUMP REAR BRACKET	1
4	12713	SEAL ASSEMBLY	1
4	12733V	FKM SEAL ASSEMBLY	1
5	12717	O-RING FOR SCREW HEAD	4
5	12717V	FKM O-RING FOR SCREW HEAD	4
5A	12715A	SS BRACKET SCREWS	4
6	12754	O-RING SEGMENT	1
6	12754V	FKM O-RING SEGMENT	1
7	12719A	BODY O-RING	1
7	12719AV	FKM BODY O-RING	1
8	12772	5 VANE IMPELLER	1
8	12771A	3 VANE IMPELLER	1
9	12765A	SS IMPELLER BOLT	1
10	A204	O-RING	1
10	A204V	FKM O-RING	1
11	12775A	IMPELLER HEX NUT	1
12	12702A	POLY PUMP VOLUTE	1
13	12725	SS VOLUTE SCREWS	2
14	12705	POLY PUMP CHECK VALVE	1
14	12705V	FKM CHECK VALVE	1
15	12712A	BODY ASSEMBLY	1
16	12720	SS BODY SCREWS	10
17	12777	½" PLUG	2
18	UV15163	PRIME/DRAIN PLUG O-RING	2
18	UV15163V	FKM PRIME/DRAIN PLUG O-RING	2
19	12900	SS UPPER VOLUTE SCREW	1
20	12901	SS REAR BRACKET WASHER	4
21	12902A	IMPELLER KEY	1
22	12716	POLY PUMP SLINGER	1
23	12710	O-RING FOR SEAL ASSEMBLY	1
23	12710V	FKM O-RING FOR SEAL ASSEMBLY	1
N/S	12882A	BEARING PEDESTAL	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
KIT	12000A	5 VANE IMPELLER REPAIR KIT (ITEMS 4-8, 10, 14, 18, 22, 23 & 12099)	1
KIT	12000AV	5 VANE FKM IMPELLER REPAIR KIT (ITEMS 4-8, 10, 14, 18, 22, 23 & 12099)	1
KIT	12999A	PUMP SEAL/O-RING KIT (ITEMS 5-7, 10, 18, 22, 23 & 12099)	1
KIT	12999AV	FKM PUMP SEAL/O-RING KIT (ITEMS 5-7, 10, 18, 22, 23 & 12099)	1

KITS 2" POLY PUMPS

PART NO	REPAIR KIT NO	SEAL KIT NO
200PH-5	12000A	12999A
200PH-5RC	12000A	12999A
200PH-5E	12000A	12999A
200PH-5ERC	12000A	12999A
200PH-5V	12000AV	12999AV
200PH6	12000A	12999A
200P6PRO	12000A	12999A
200P6PROE	12000A	12999A
200P6PRORC	12000A	12999A
200P6PROV	12000AV	12999AV
200PB	12003A	12999A
200PB-V	12003AV	12999AV
205PB	12000A	12999A
205PB-V	12000AV	12999AV
200PO	12003A	12999A
200PO-V	12003AV	12999AV
205PO	12000A	12999A
205PO-V	12000AV	12999AV



CENTRIFUGAL PUMPS

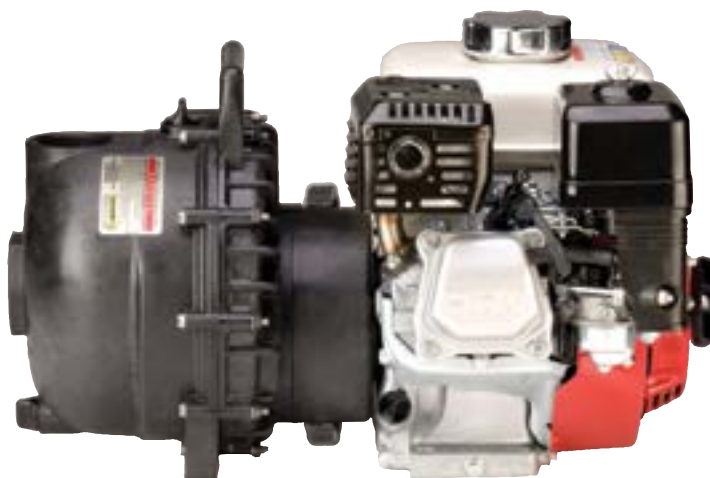
2" POLY WET SEAL PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber.
- Pump end separated from engine
- V-shaped for quicker priming
- Engine warranty service available at authorized Briggs & Stratton® and Honda® dealers



WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS



2" POLY WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
200PH5W	2" POLY WET SEAL PUMP W/5.5 HP HONDA® ENGINE	5.5	1
200P6PROW	2" POLY WET SEAL PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1

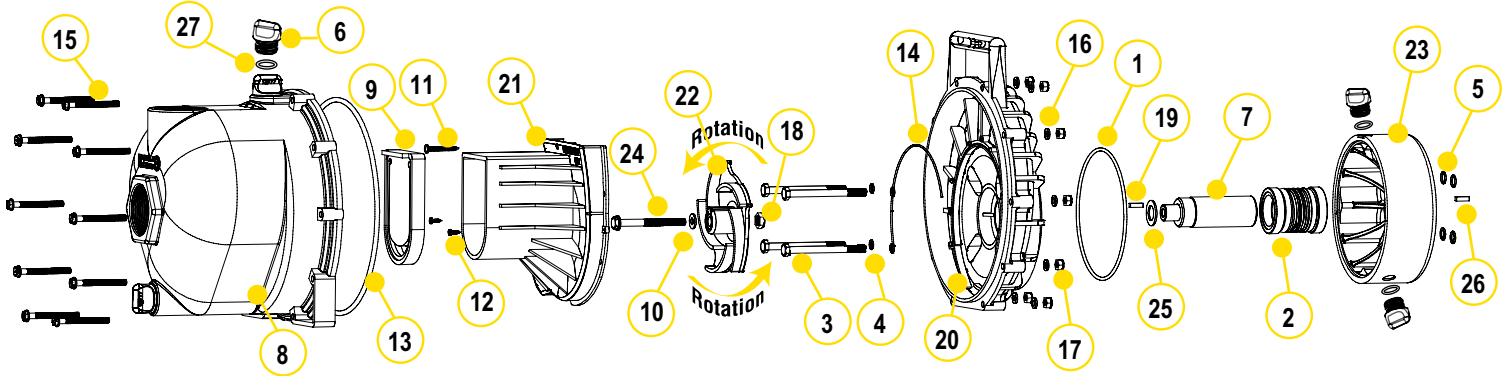


2" POLY WET SEAL BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
200PBW	2" POLY WET SEAL BEARING PEDESTAL W/ 3/4" SHAFT & 5 VANE IMPELLER	N/A	1

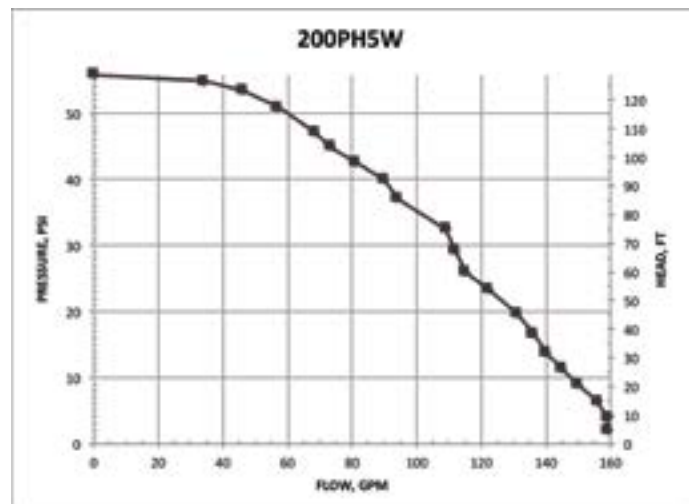
CENTRIFUGAL PUMPS

2" POLY WET SEAL PUMPS



REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	13719	O-RING	1
2	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
3	13034	$\frac{5}{16}$ " - 24 X 3 $\frac{3}{4}$ " HHCS	4
4	12717	O-RING FOR BRACKET SCREW	4
5	12709	O-RING	4
6	12777	$\frac{1}{2}$ " PLUG	4
7	12155	ADAPTER SHAFT	1
8	12712A	BODY ASSEMBLY	1
9	12705	CHECK VALVE	1
10	A204	IMPELLER BOLT GASKET	1
11	12900	#10 X $1\frac{1}{2}$ " PPH SMS	1
12	12725	#6 X $1\frac{1}{2}$ " PPH SMS	2
13	12719A	BODY O-RING	1
14	12754	O-RING SEGMENT	1
15	12720	$\frac{1}{4}$ " - 20 X 2 $\frac{1}{2}$ " SL IND HWHS	10
16	V07018	$\frac{1}{4}$ " LOCK WASHER	10
17	V07019	$\frac{1}{4}$ " - 20 HEX NUT	10
18	12775A	$\frac{7}{16}$ " - 14 HEX NUT	1
19	12902A	$\frac{3}{16}$ " SQ. X $\frac{5}{8}$ " KEY	2
20	12707W	WET SEAL REAR BRACKET	1
21	12702A	VOLUTE	1
22	12772	5 VANE IMPELLER	1
23	12202W	WET SEAL RESERVOIR	1
24	12766	$\frac{5}{16}$ " - 24 X 3 $\frac{1}{4}$ " HFS	1
25	CV10175	GASKET	1
26	12902A	$\frac{1}{4}$ " SQ. $\frac{3}{4}$ " KEY STOCK	1
27	UV15163	O-RING FOR DRAIN PLUG	4



CENTRIFUGAL PUMPS

2" POLY PUMPS WITH ELECTRIC MOTORS

FEATURES

- Additional drive unit protection with added 1" spacer for ultimate protection
- Special non-metallic mechanical seal designed for better chemical resistance
- All elastomers are FKM
- All internal fasteners are PTFE coated stainless steel
- The "Super Slinger" included for even more drive unit protection (not shown)
- Engine warranty service available at authorized Briggs & Stratton® and Honda® dealers



2" POLY PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY
234PPE5	2" POLY PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR W/ EPDM ELASTOMERS	5.0	1
234PPE5V	2" POLY PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR W/FKM ELASTOMERS	5.0	1
234PPE51	2" POLY PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR W/ EPDM ELASTOMERS	5.0	1
234PPE51V	2" POLY PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR W/FKM ELASTOMERS	5.0	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

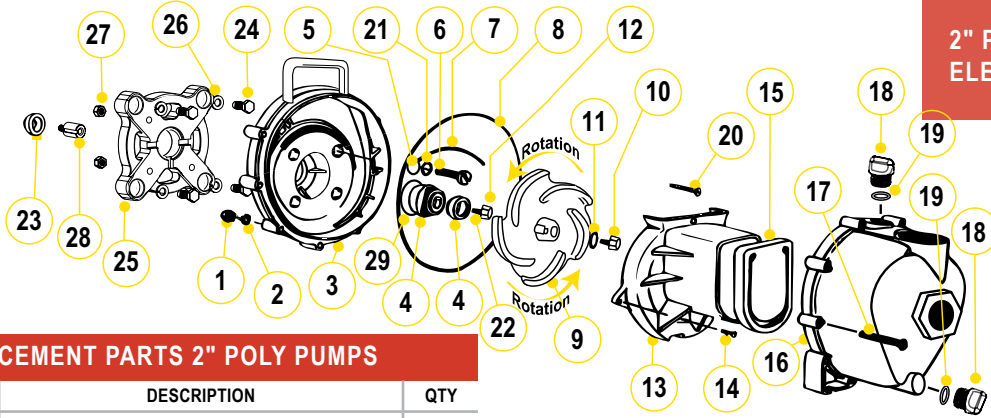


2" POLY PUMPS FOR 56C FACED MOTORS

PART NO	DESCRIPTION	HP	QTY
200PEO	2" POLY PUMP W/ 56C FACE ADAPTER	N/A	1

CENTRIFUGAL PUMPS

2" POLY PUMPS WITH ELECTRIC MOTORS

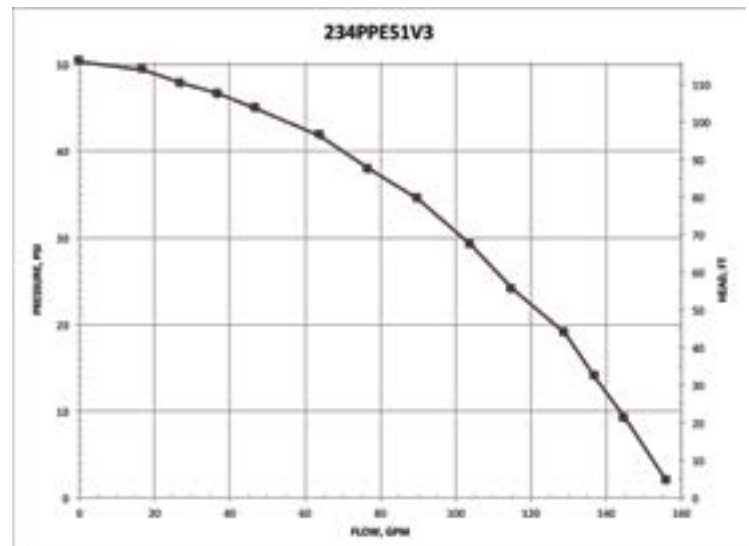


REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	V07019	SS BODY NUTS	10
2	V07018	SS LOCK WASHERS	10
3	12703A	POLY PUMP REAR BRACKET	1
4	12713	SEAL ASSEMBLY EPDM	1
4	12713V	SEAL ASSEMBLY FKM	1
5	12717	SCREW HEADS O-RING EPDM	4
5	12717V	SCREW HEADS O-RING FKM	4
6	BF107	SS BRACKET SCREWS	4
7	12754	O-RING SEGMENT EPDM	1
7	12754V	O-RING SEGMENT FKM	1
8	12719A	BODY O-RING EPDM	1
8	12719AV	BODY O-RING FKM	1
9	12772	5 VANE IMPELLER	1
10	12765A	SS IMPELLER BOLT	1
11	A204	O-RING	1
11	A204V	FKM O-RING	1
12	12775A	IMPELLER HEX NUT	1
13	12702A	POLY PUMP VOLUTE	1
14	12725	SS VOLUTE SCREWS	2
15	12705	POLY PUMP CHECK VALVE EPDM	1
15	12705V	POLY PUMP CHECK VALVE FKM	1
16	12712A	BODY ASSEMBLY EPDM	1
16	12712AV	BODY ASSEMBLY FKM	1
17	12720	SS BODY SCREWS	10
18	12777	1/2" PLUG	2
19	UV15163	PRIME/DRAIN PLUG O-RING	2
19	UV15163V	FKM PRIME/DRAIN PLUG O-RING	2
20	12900	SS UPPER VOLUTE SCREW	1
21	12901	SS REAR BRACKET WASHER	4
22	12902A	IMPELLER KEY	1
23	12710	O-RING FOR SEAL ASSEMBLY	1
23	12710V	FKM O-RING FOR SEAL ASSEMBLY	1
24	17704	3/8"-16 X 1.25" HHCS	8
25	12046	56C FRAME ADAPTER	1
26	V20018	LOCK WASHER FOR 56C FRAME ADAPTER	8
27	V10119	NUT FOR 56C FRAME ADAPTER	4
N/S	17701	BASE PLATE	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	12052	56C FRAME ADAPTER SHAFT	1
KIT	12756	56C FRAME ADAPTER KIT (ITEMS 6, 22, 24-27, 12052, 12053, 15751, 15752)	1
KIT	12000A	5 VANE IMPELLER REPAIR KIT (ITEMS 4-8, 10, 14, 18, 23 & 12099)	1
KIT	12000AV	5 VANE FKM IMPELLER REPAIR KIT (ITEMS 4-8, 10, 14, 18, 23 & 12099)	1
KIT	12999A	PUMP SEAL/O-RING KIT (ITEMS 4-7, 10, 18, 23 & 12099)	1
KIT	12999AV	FKM PUMP SEAL/O-RING KIT (ITEMS 4-7, 10, 18, 23 & 12099)	1

KITS 2" POLY PUMPS

PART NO	REPAIR KIT NO	SEAL KIT NO	FRAME ADAPTER KIT
234PPE5	12000A	12999A	12756
234PPE5V	12000AV	12999AV	12756
234PPE51	12000A	12999A	12756
234PPE51V	12000AV	12999AV	12756
200PEO	12003A	12999A	12756



CENTRIFUGAL PUMPS

2" POLY PUMPS WITH HYDRAULIC MOTORS

FEATURES

- Precision molded construction
- Lightweight
- Corrosion resistant
- Low maintenance
- Hydraulic fluid capacity is minimum 6 gallons and maximum 10 gallons
- Open or closed system
- 3600 R.P.M.
- Recommendation to use the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



2" POLY PUMPS W/HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY
200PHA	2" POLY PUMP WITHOUT HYDRAULIC MOTOR	N/A	1
200PHY	2" POLY PUMP W/12 HP HYDRAULIC MOTOR	12.0	1
200PHYW	2" POLY WET SEAL PUMP W/12 HP HYDRAULIC MOTOR	12.0	1

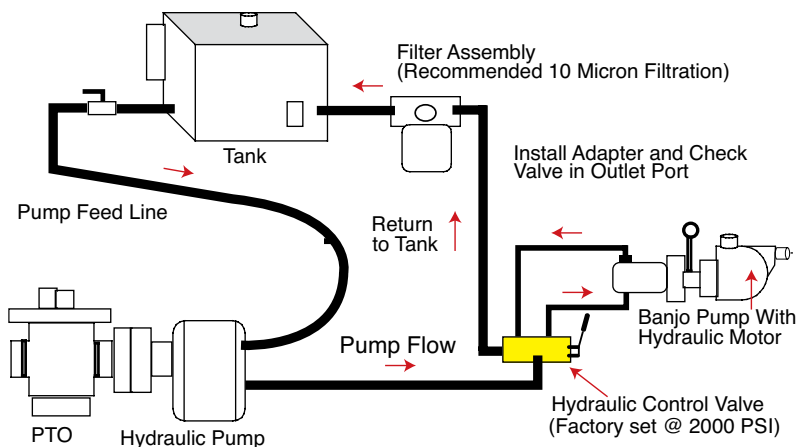


WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

SPOOL VALVE ASSEMBLY DIAGRAM

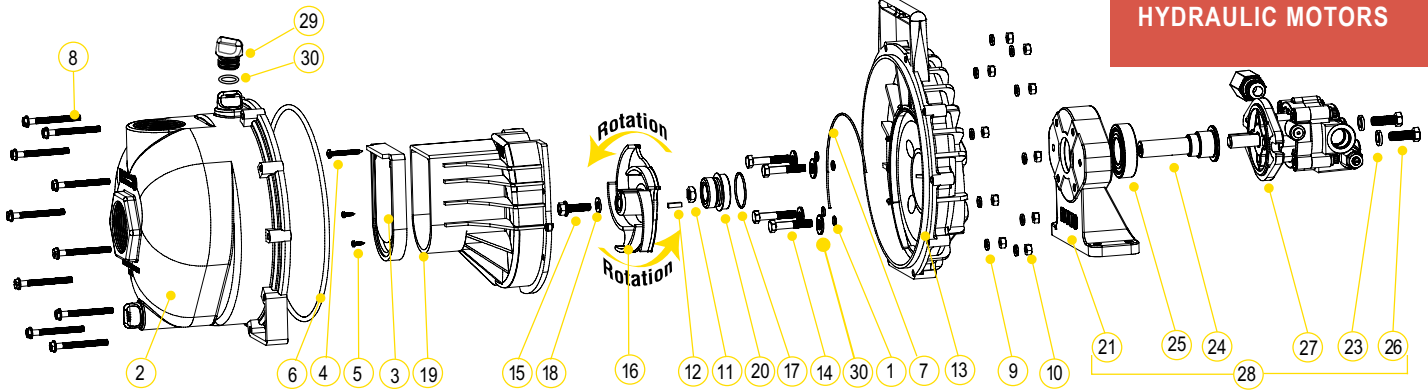


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

CENTRIFUGAL PUMPS

2" POLY PUMPS WITH HYDRAULIC MOTORS



REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12717	O-RING FOR SCREW HEADS	4
2	12712A	BODY ASSEMBLY	1
3	12705	CHECK VALVE	1
4	12900	SS UPPER VOLUTE SCREW	4
5	12725	SS VOLUTE SCREWS	2
6	12719A	BODY O-RING	1
7	12754	O-RING SEGMENT	1
8	12720	SS BODY SCREWS	10
9	V07018	SS LOCK WASHERS	10
10	V07019	SS BODY NUTS	10
11	12775A	IMPELLER HEX NUT	1
12	12902A	IMPELLER KEY	1
13	12703A	POLY PUMP REAR BRACKET	1
14	12715A	5/16"-24 X 1.75" HHCS	4
15	12765A	SS IMPELLER BOLT	1
16	12772	5 VANE IMPELLER	1
17	12710	O-RING FOR SEAL ASSEMBLY	1
18	A204	O-RING	1
19	12702A	POLY PUMP VOLUTE	1
20	12713	MECHANICAL SEAL ASSEMBLY	1
21	12049E	HYDRAULIC PEDESTAL HOUSING	1
22	V20018	3/8" LOCK WASHER	2
23	12055E	ADAPTER SHAFT	1
24	17056E	BEARING	1
25	18010SS	3/8"-16 X 1.25" HHCS	2
26	HY1013	HYDRAULIC MOTOR	1
27	12600B	COMPLETE HYDRAULIC ASSEMBLY	1
28	12777	1/2" PLUG	2
29	UV15163	O-RING FOR PLUG	2
30	12901	WASHER (200PHA & 200PHY)	1
N/S	HY1003	HYDRAULIC MOTOR SEAL KIT	2
KIT	12000A	5 VANE IMPELLER REPAIR KIT (ITEMS 2,4,7,8,17,19,21,30, 12099)	1
KIT	12999A	PUMP SEAL/O-RING KIT (ITEMS 2,7,8,17,19,21,30, 12099)	1

KITS 2" POLY PUMPS

PART NO	EPDM REPAIR KIT NO	EPDM SEAL KIT NO	HYDRAULIC MOTOR SEAL KIT
200PHA	12000A	12999A	N/A
200PHY	12000A	12999A	HY1003

HYDRAULIC MOTOR DATA

U.S. GALLONS/REV.	0.0025
CUBIC INCHES/REV.	0.580
LITERS/REV.	0.0097
MAX HYDRAULIC PRESSURE	2000 PSI
MIN HYDRAULIC PRESSURE	200 PSI
INLET PORT	SAE 10 (7/8-14 UNF-2B)
OUTLET PORT	SAE 10 (7/8-14 UNF-2B)
MINIMUM GPM REQUIRED	6 GPM 2400 RPM
MAXIMUM GPM REQUIRED	10 GPM 4000 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

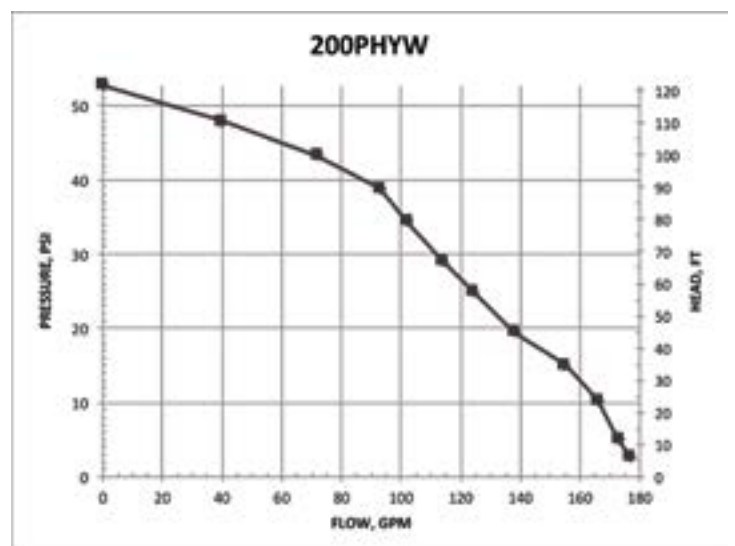
CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT

SUPPLIED CHECK VALVE IS TO ENSURE PROPER ROTATION OF THE BANJO PUMP. PLACE CHECK VALVE IN OUTLET PORT (MARKED "B") FOR PROPER RIGHT HAND ROTATION.

SPOOL VALVE INFORMATION

REQUIRED OUTLET FLOW	MIN 6 GPM / MAX 10 GPM
REQUIRED SYSTEM PRESSURE	MIN 600 PSI / MAX 3000 PSI



CENTRIFUGAL PUMPS

2" POLY MANIFOLD PUMPS WITH GAS ENGINES

FEATURES

- Precision molded construction
- Lightweight
- Corrosion resistant
- Low maintenance



2" POLY MANIFOLD PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
M220PH5	2" POLY MANIFOLD PUMP W/5.5 HP HONDA® ENGINE	5.5	1
M220PH5E	2" POLY MANIFOLD PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1
M220PH6	2" FP MANIFOLD PUMP W/6.5 HP HONDA® ENGINE	6.5	1
M220P6PRO	2" FP MANIFOLD PUMP W/6.5 HP BRIGGS & STRATTON® PRO SERIES ENGINE	6.5	1
M220P6PROE	2" FP MANIFOLD PUMP W/6.5 HP BRIGGS & STRATTON® PRO SERIES ENGINE W/ELECTRIC START	6.5	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



2" POLY MANIFOLD BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
M220PB	2" POLY MANIFOLD BEARING PEDESTAL W/ ¾" SHAFT & 3 VANE IMPELLER	N/A	1

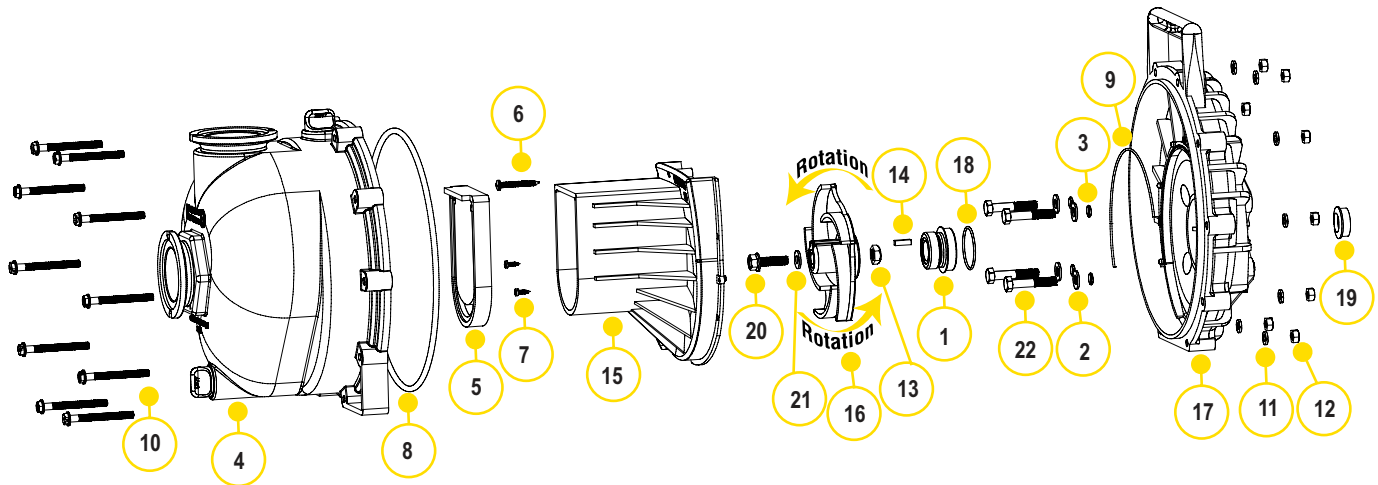


2" POLY MANIFOLD PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
M225PO	2" POLY MANIFOLD PUMP ONLY W/ ¾" SHAFT & 5 VANE IMPELLER	N/A	1

CENTRIFUGAL PUMPS

2" POLY MANIFOLD PUMPS WITH GAS ENGINES

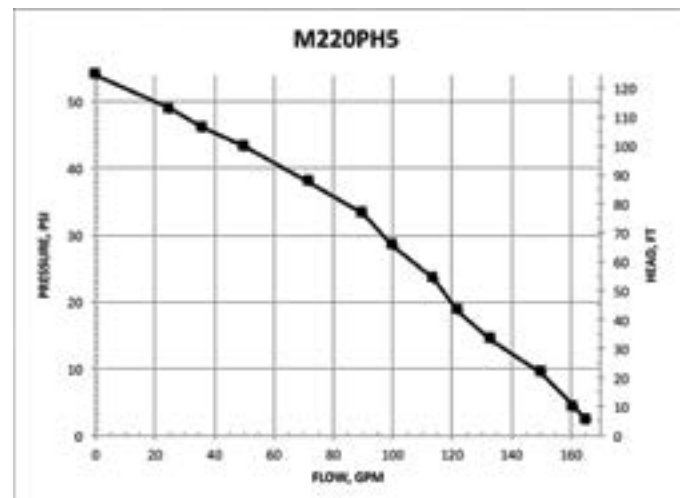


REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12713	MECHANICAL SEAL ASSEMBLY	1
2	12901	SS REAR BRACKET WASHER	4
3	12717	O-RING FOR SCREW HEAD	4
4	M12712	2" FP MANIFOLD PUMP BODY ASSEMBLY	1
5	12705	POLY PUMP CHECK VALVE	1
6	12900	SS UPPER VOLUTE SCREW	1
7	12725	SS VOLUTE SCREWS	2
8	12719A	BODY O-RING	1
9	12754	O-RING SEGMENT	1
10	12720	SS BODY SCREWS	10
11	V07018	SS LOCK WASHERS	10
12	V07019	SS BODY NUTS	10
13	12775A	IMPELLER HEX NUT	1
14	12902A	IMPELLER KEY	1
15	12702A	POLY PUMP VOLUTE	1
16	12772	5 VANE IMPELLER	1
16	12771A	3 VANE IMPELLER	1
17	12703A	POLY PUMP REAR BRACKET	1
18	12710	O-RING FOR SEAL ASSEMBLY	1
19	12716	POLY PUMP SLINGER	1
20	12765A	SS IMPELLER BOLT	1
21	A204	O-RING	1
22	12715A	SS BRACKET SCREWS	4
KIT	12000A	5 VANE IMPELLER REPAIR KIT (ITEMS 2,4,7,8,17,19,21,30, 12099)	1
KIT	12000AV	5 VANE FKM IMPELLER REPAIR KIT (ITEMS 2,4,7,8,17,19,21,30, 12099)	1
KIT	12999A	PUMP SEAL/O-RING KIT (ITEMS 2,4,7,8,17,19,21,30, 12099)	1
KIT	12999AV	FKM PUMP SEAL/O-RING KIT (ITEMS 4-7,8,10,18, 23 & 12099)	1

KITS 2" POLY PUMPS

PART NO	EPDM REPAIR KIT NO	FKM REPAIR KIT NO	EPDM SEAL KIT NO	FKM SEAL KIT NO
M220PH5	12000A	12000AV	12999A	12999AV
M220PH5E	12000A	12000AV	12999A	12999AV
M220PH6	12000A	12000AV	12999A	12999AV
M220P6PRO	12000A	12000AV	12999A	12999AV
M220P6PROE	12000A	12000AV	12999A	12999AV
M220PB	12003A	12003AV	12999A	12999AV
M220PO	12003A	12003AV	12999A	12999AV



CENTRIFUGAL PUMPS

2" POLY MANIFOLD WET SEAL PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber
- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming



2" POLY MANIFOLD WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
M220PH5W	2" POLY MANIFOLD WET SEAL PUMP W/5.5 HP HONDA® ENGINE	5.5	1
M220PH5EW	2" POLY MANIFOLD WET SEAL PUMP W/5.5 HP HONDA® ENGINE W/ELECTRIC START	5.5	1
M220PH6W	2" POLY MANIFOLD WET SEAL PUMP W/6.5 HP HONDA® ENGINE	6.5	1
M220P6PROW	2" POLY MANIFOLD WET SEAL PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1
M220P6PROEW	2" POLY MANIFOLD WET SEAL PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START	6.5	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

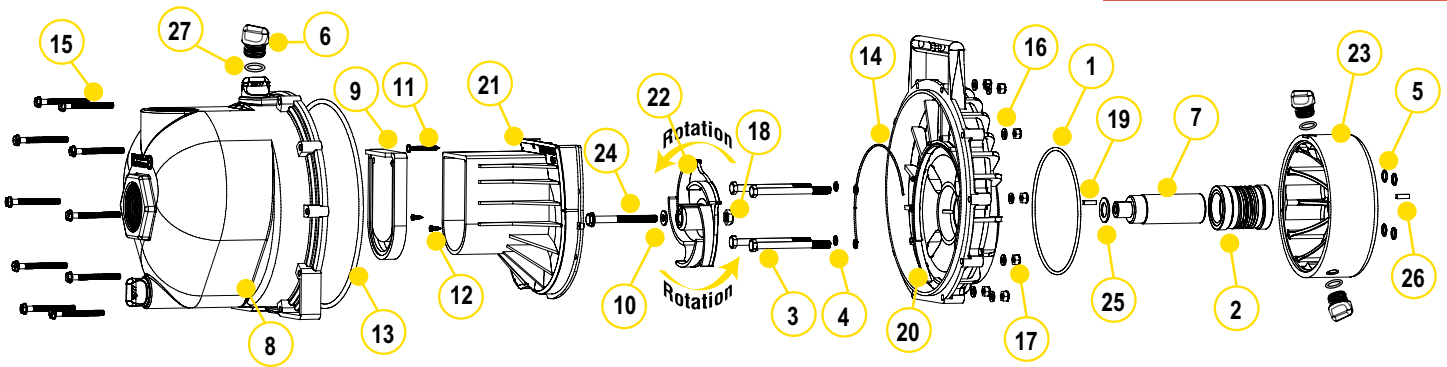


2" POLY MANIFOLD WET SEAL BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
M220PBW	2" POLY MANIFOLD WET SEAL BEARING PEDESTAL W/ 3/4" SHAFT & 5 VANE IMPELLER	N/A	1

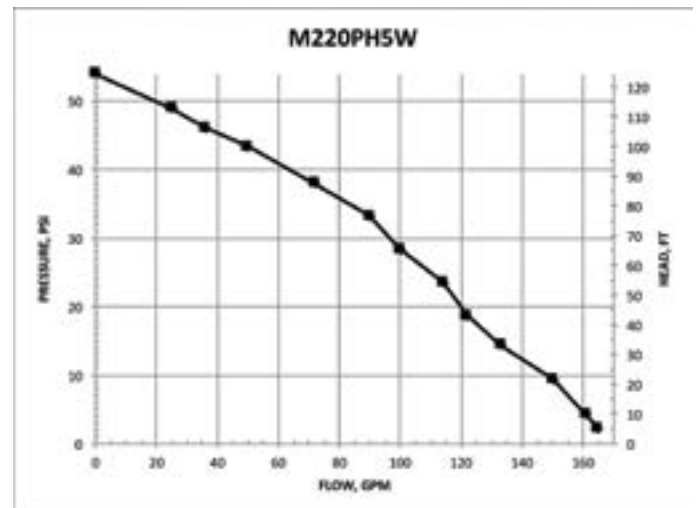
CENTRIFUGAL PUMPS

2" POLY MANIFOLD WET SEAL PUMPS



REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	13719	O-RING	1
2	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
3	13034	$\frac{5}{16}$ " -24 X $3\frac{3}{4}$ " HHCS	4
4	12717	O-RING FOR BRACKET SCREW	4
5	12709	O-RING	4
6	12777	$\frac{1}{2}$ " PLUG	4
7	12155	ADAPTER SHAFT	1
8	M12712	2" FP MANIFOLD PUMP BODY ASSEMBLY	1
9	12705	CHECK VALVE	1
10	A204	IMPELLER BOLT GASKET	1
11	12900	#10 X $1\frac{1}{2}$ " PPH SMS	1
12	12725	#6 X $1\frac{1}{2}$ " PPH SMS	2
13	12719A	BODY O-RING	1
14	12754	O-RING SEGMENT	1
15	12720	$\frac{1}{4}$ " - 20 X $2\frac{1}{2}$ " SL IND HWHS	10
16	V07018	$\frac{1}{4}$ " LOCK WASHER	10
17	V07019	$\frac{1}{4}$ " - 20 HEX NUT	10
18	12775A	$\frac{7}{16}$ " - 14 HEX NUT	1
19	12902A	$\frac{3}{16}$ " SQ. X $\frac{5}{8}$ " KEY	2
20	12707W	WET SEAL REAR BRACKET	1
21	12702A	VOLUTE	1
22	12772	5 VANE IMPELLER	1
23	12202W	WET SEAL RESERVOIR	1
24	12766	$\frac{5}{16}$ " - 24 X $3\frac{3}{4}$ " HFS	1
25	CV10175	GASKET	1
26	12902A	$\frac{1}{4}$ " SQ. $\frac{3}{4}$ " KEY STOCK	1
27	UV15163	O-RING FOR DRAIN PLUG	4



CENTRIFUGAL PUMPS

2" POLYPROPYLENE MANIFOLD WET SEAL PUMPS WITH HYDRAULIC MOTORS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber
- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming



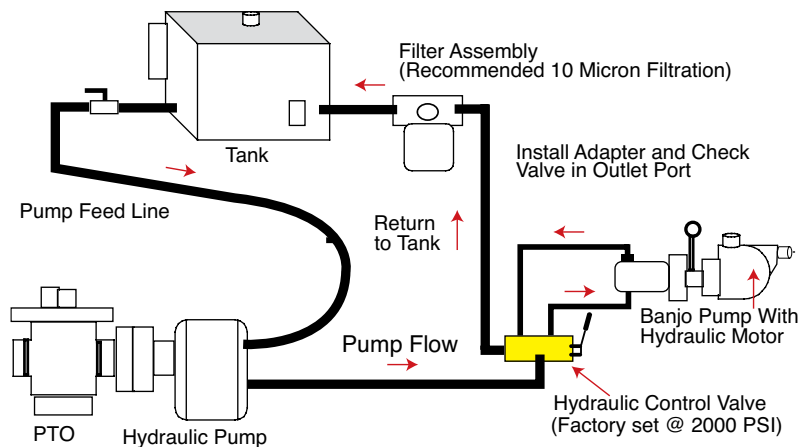
POLY MANIFOLD WET SEAL PUMPS W/HYDRAULIC MOTOR

PART NO	DESCRIPTION	HP	QTY
M220PHYW	2" MANIFOLD POLY WET SEAL PUMP W/ HYDRAULIC MOTOR	12	1



**WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS**

SPOOL VALVE ASSEMBLY DIAGRAM

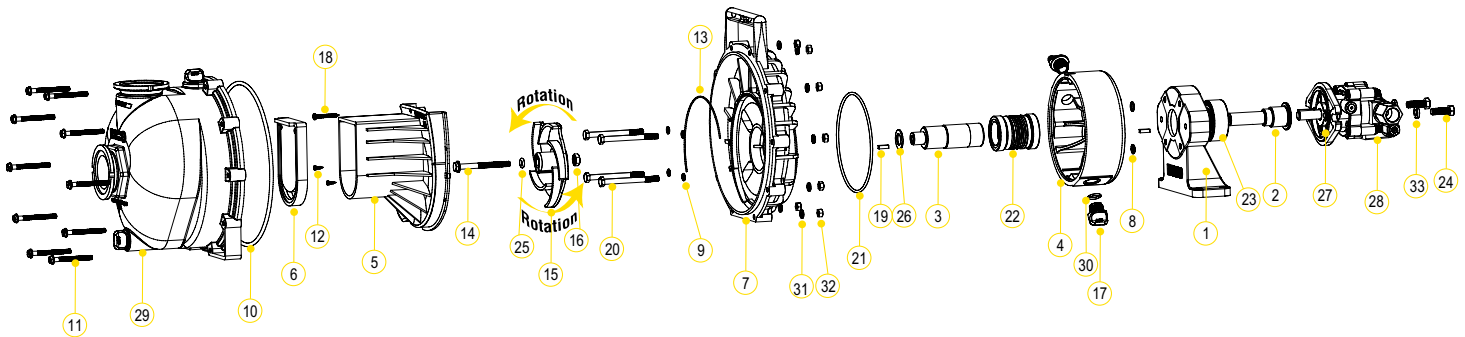


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

CENTRIFUGAL PUMPS

**2" POLYPROPYLENE
MANIFOLD WET SEAL PUMPS
WITH HYDRAULIC MOTORS**



REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12049E	HYDRAULIC PEDESTAL HOUSING	1
2	12055E	HYDRAULIC ADAPTER SHAFT	1
3	12155	ADAPTER SHAFT	1
4	12202W	WET SEAL RESERVOIR	1
5	12702A	VOLUTE	1
6	12705	CHECK VALVE	1
7	12707W	REAR BRACKET	1
8	12709	O-RING	4
9	12717	O-RING FOR SCREW HEADS	4
10	12719A	O-RING	1
11	12720	SS BODY SCREWS	10
12	12725	SS VOLUTE SCREWS	2
13	12754	O-RING SEGMENT	1
14	12766	5/16" - 24 X 3 1/4" HFS	1
15	12772	IMPELLER	1
16	12775A	IMPELLER HEX NUT	1
17	12777	1/2" PLUG	2
18	12900	SS UPPER VOLUTE SCREW	1
19	12902A	IMPELLER KEY	2
20	13034	5/16" - 24 X 3 3/4" HHCS	4
21	13719	O-RING	1
22	15035	MECHANICAL SEAL ASSEMBLY	1
23	17056E	BEARING	1
24	18010SS	3/8"-16 X 1.25" HHCS	2
25	A204	O-RING	1
26	CV10175	GASKET	1
27	HY10131	MGG20025BC1D3 GRESEN HYDRAULIC MOTOR	1
28	HY10132	HYDRAULIC CHECK VALVE	1
29	M12712	2" FP MANIFOLD PUMP BODY ASSEMBLY	1
30	UV15163	O-RING	2
31	V07018	SS LOCK WASHERS	10
32	V07019	SS BODY NUTS	10
33	V20018	3/8" LOCK WASHER	2

HYDRAULIC MOTOR DATA

U.S. GALLONS/REV.	0.0025
CUBIC INCHES/REV.	0.580
LITERS/REV.	0.0097
MAX HYDRAULIC PRESSURE	2000 PSI
MIN HYDRAULIC PRESSURE	200 PSI
INLET PORT	SAE 10 (7/8-14 UNF-2B)
OUTLET PORT	SAE 10 (7/8-14 UNF-2B)
MINIMUM GPM REQUIRED	6 GPM 2400 RPM
MAXIMUM GPM REQUIRED	10 GPM 4000 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

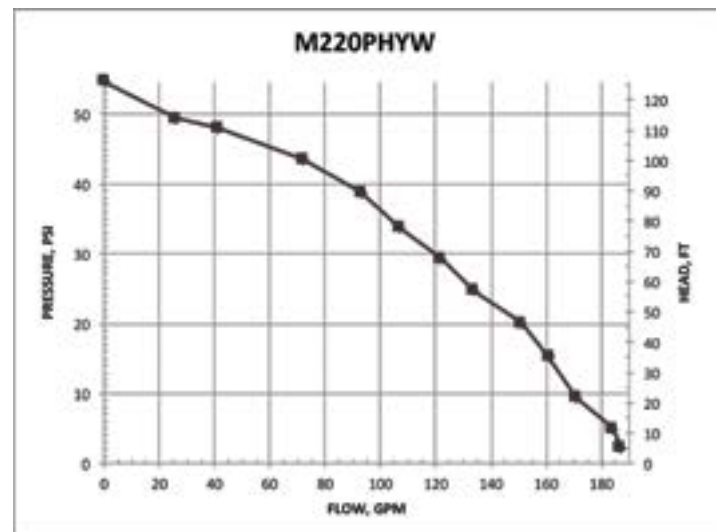
CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT

SUPPLIED CHECK VALVE IS TO ENSURE PROPER ROTATION OF THE BANJO PUMP. PLACE CHECK VALVE IN OUTLET PORT (MARKED "B") FOR PROPER RIGHT HAND ROTATION.

SPOOL VALVE INFORMATION

REQUIRED OUTLET FLOW	MIN 6 GPM / MAX 10 GPM
REQUIRED SYSTEM PRESSURE	MIN 600 PSI / MAX 3000 PSI



CENTRIFUGAL PUMPS

3" POLY PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber
- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming
- Pump only comes unassembled



3" POLY PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
300PH-6	3" POLY PUMP W/6.5 HP HONDA® ENGINE	6.5	1
300P11PRO	3" POLY PUMP W/11 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START & PULL ROPE	11	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



3" POLY BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
300PB	3" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1

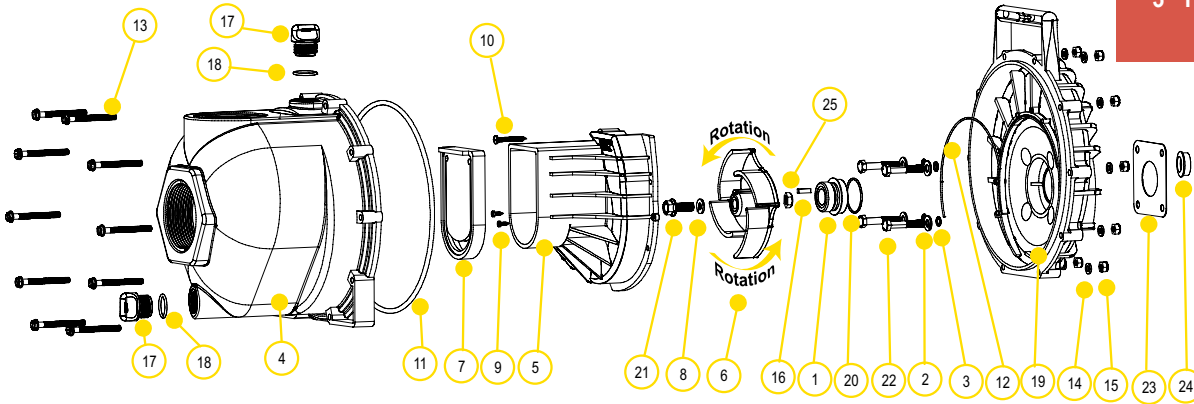


3" POLY PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
300PO	3" POLY PUMP ONLY W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1

CENTRIFUGAL PUMPS

3" POLY PUMPS

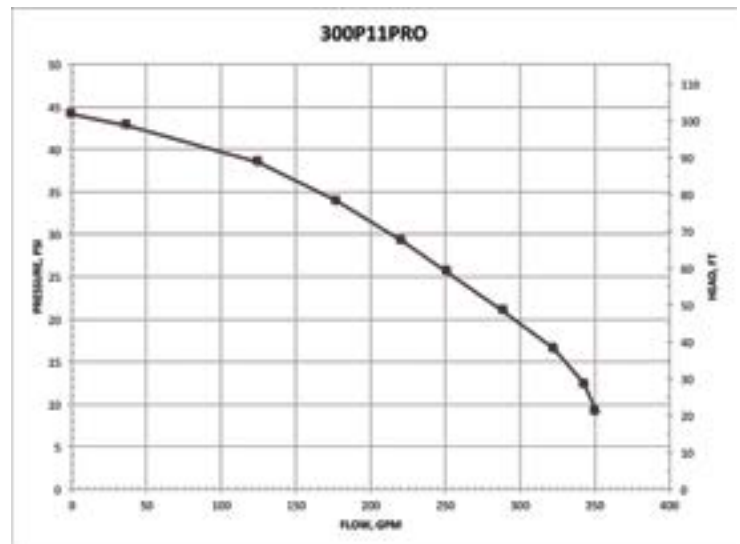


REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12713	SEAL ASSEMBLY	1
2	12901	SS REAR BRACKET WASHER	4
3	12717	O-RING FOR SCREW HEAD	4
4	13712	BODY ASSEMBLY	1
5	13702	POLY PUMP VOLUTE	1
6	13771	4 VANE TRIMMED IMPELLER (300PH-6, 300PB & 300PO)	1
6	13772	4 VANE IMPELLER (300P11PRO)	1
7	12705	CHECK VALVE	1
8	A204	O-RING	1
9	12900	SS UPPER VOLUTE SCREW	4
10	12725	SS VOLUTE SCREWS	2
11	12719A	BODY O-RING	1
12	12754	O-RING SEGMENT	1
13	12720	SS BODY SCREWS	10
14	V07018	SS LOCK WASHERS	10
15	V07019	SS BODY NUTS	10
16	12902A	IMPELLER KEY	1
17	13777	3/4" PLUG	2
18	13778	O-RING	2
19	12703A	POLY PUMP REAR BRACKET	1
20	12710	O-RING FOR SEAL ASSEMBLY	1
21	12765A	SS IMPELLER BOLT 5/16 X 24 X 1.12 (300PH-6)	1
21	13765	SS IMPELLER BOLT 3/8 X 24 X 1.75 (300P11PRO)	1
22	12715A	SS BRACKET SCREWS	4
23	15751	REAR BRACKET SHIM	1
24	12716	POLY PUMP SLINGER	1
25	12775A	IMPELLER HEX NUT	1
N/S	12882A	BEARING PEDESTAL	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	13000	4 VANE IMPELLER REPAIR KIT (ITEMS 1, 3, 6-8, 11, 12, 18, 20, 24 & 12099)	1
N/S	13999	PUMP SEAL/O-RING KIT (ITEMS 1, 3, 8, 11, 12, 18, 20, 24 & 12099)	1

KITS 3" POLY PUMPS

PART NO	EPDM REPAIR KIT NO	EPDM SEAL KIT NO
300PH-6	13000	13999
300P11PRO	N/A	13999
300PB	13000	13999
300PO	13000	13999



CENTRIFUGAL PUMPS

3" POLY MANIFOLD PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber
- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming
- Pump only comes unassembled



3" POLY MANIFOLD PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
M300PH6	3" POLY MANIFOLD PUMP W/6.5 HP HONDA® ENGINE	6.5	1
M300P6PRO	3" POLY MANIFOLD PUMP W/6.5 HP BRIGGS & STRATTON® PRO SERIES ENGINE	6.5	1
M300P11PRO	3" POLY MANIFOLD PUMP W/11 HP BRIGGS & STRATTON® PRO SERIES ENGINE	11	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



3" POLY MANIFOLD BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
M300PB	3" POLY MANIFOLD BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1

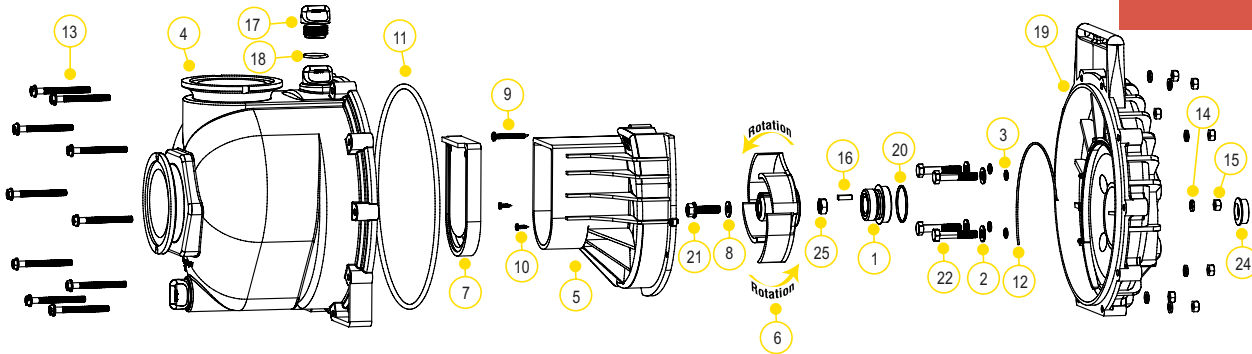


3" POLY MANIFOLD PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
M300PO	3" POLY MANIFOLD PUMP ONLY W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1

CENTRIFUGAL PUMPS

3" POLY MANIFOLD PUMPS

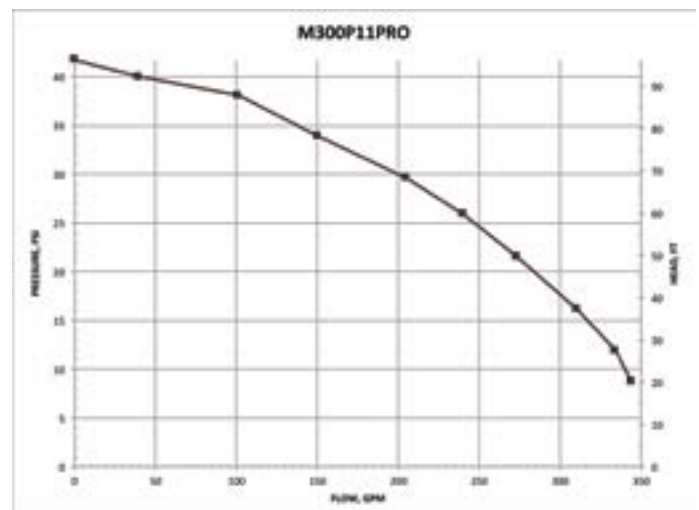


REPLACEMENT PARTS 3" POLY MANIFOLD PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12733	SEAL ASSEMBLY	1
2	12901	SS REAR BRACKET WASHER	4
3	12717	O-RING FOR SCREW HEAD	4
4	M13712	MANIFOLD BODY ASSEMBLY	1
5	13702	POLY PUMP VOLUTE	1
6	13771	4 VANE TRIMMED IMPELLER (M300PH-6, M300PB & M300PO)	1
6	13772	4 VANE IMPELLER (M300P11PRO)	1
7	12705	CHECK VALVE	1
8	A204	O-RING	1
9	12900	SS UPPER VOLUTE SCREW	4
10	12725	SS VOLUTE SCREWS	2
11	12719A	BODY O-RING	1
12	12754	O-RING SEGMENT	10
13	12720	SS BODY SCREWS	10
14	V07018	SS LOCK WASHERS	10
15	V07019	SS BODY NUTS	1
16	12902A	IMPELLER KEY	2
17	13777	3/4" PLUG	2
18	13778	O-RING	1
19	12703A	POLY PUMP REAR BRACKET	1
20	12710	O-RING FOR SEAL ASSEMBLY	1
21	12765A	SS IMPELLER BOLT 5/16 X 24 X 1.12 (-6)	4
21	13765	SS IMPELLER BOLT 3/8 X 24 X 1.75 (M300P11PRO)	1
22	12715A	SS BRACKET SCREWS	1
23	15751	REAR BRACKET SHIM	1
24	12716	POLY PUMP SLINGER	1
25	12775A	IMPELLER HEX NUT	1
N/S	12882A	BEARING PEDESTAL	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	13000	4 VANE IMPELLER REPAIR KIT (ITEMS 1, 3, 6-8, 11, 12, 18, 20, 24 & 12099)	1
N/S	13999	PUMP SEAL/O-RING KIT (ITEMS 1, 3, 8, 11, 12, 18, 20, 24 & 12099)	1

KITS 3" POLY PUMPS

PART NO	EPDM REPAIR KIT NO	EPDM SEAL KIT NO
M300PH6	13000	13999
M300P6PRO	13000	13999
M300P11PRO	N/A	13999
M300PB	13000	13999



CENTRIFUGAL PUMPS

3" POLY PUMPS WITH HYDRAULIC MOTORS

FEATURES

- Precision molded construction
- Lightweight
- Corrosion resistant
- Low maintenance
- Hydraulic fluid capacity is minimum 6 gallons and maximum 10 gallons
- Open or closed system
- 3600 R.P.M.
- Recommendation to use the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



3" POLY PUMPS W/HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY
300PHY	3" POLY PUMP W/12 HP HYDRAULIC MOTOR	12.0	1
300PHYW	2" POLY WET SEAL PUMP W/12 HP HYDRAULIC MOTOR	12.0	1

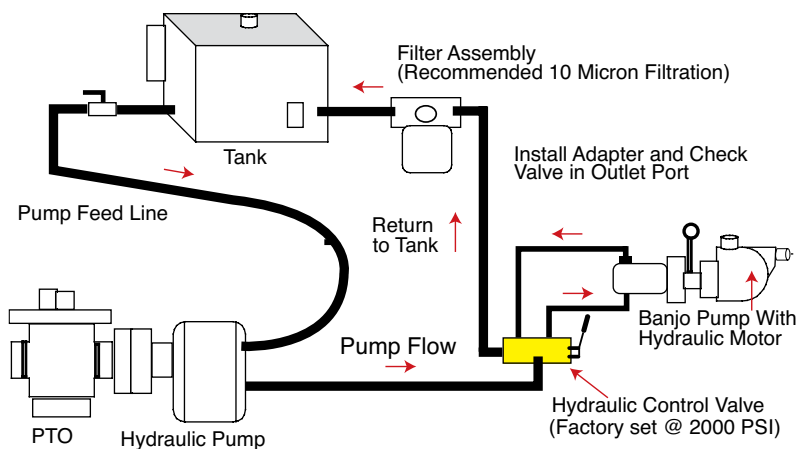


WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

SPOOL VALVE ASSEMBLY DIAGRAM

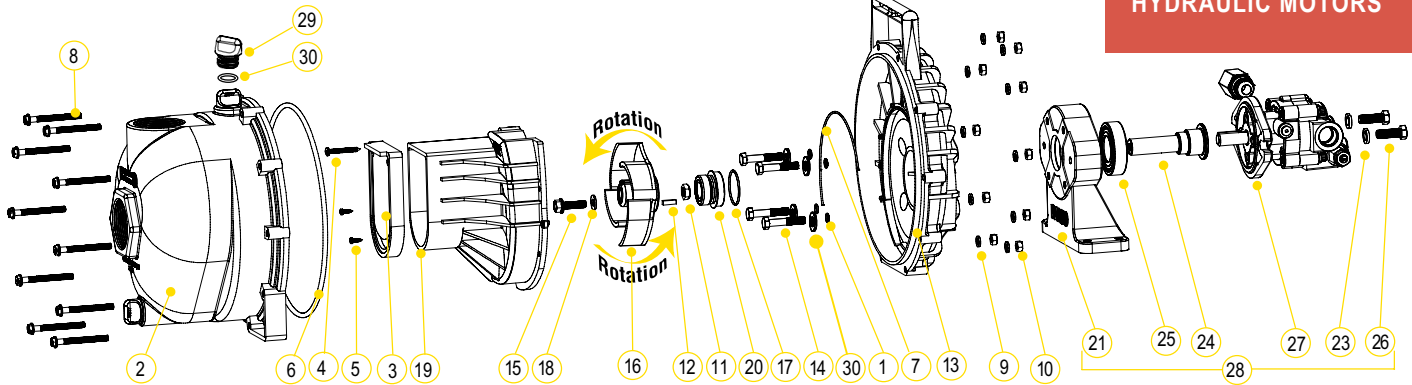


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

CENTRIFUGAL PUMPS

3" POLY PUMPS WITH HYDRAULIC MOTORS



REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12717	O-RING FOR SCREW HEADS	4
2	13712	BODY ASSEMBLY	1
3	12705	CHECK VALVE	1
4	12900	SS UPPER VOLUTE SCREW	4
5	12725	SS VOLUTE SCREWS	2
6	12719A	BODY O-RING	1
7	12754	O-RING SEGMENT	1
8	12720	SS BODY SCREWS	10
9	V07018	SS LOCK WASHERS	10
10	V07019	SS BODY NUTS	10
11	12775A	IMPELLER HEX NUT	1
12	12902A	IMPELLER KEY	1
13	12703A	POLY PUMP REAR BRACKET	1
14	12715A	5/16"-24 X 1.75" HHCS	4
15	12765A	SS IMPELLER BOLT	1
16	13771	TRIMMED 4 VANE IMPELLER	1
17	12710	O-RING FOR SEAL ASSEMBLY	1
18	A204	O-RING	1
19	13702	POLY PUMP VOLUTE	1
20	12713	MECHANICAL SEAL ASSEMBLY	1
21	12049E	HYDRAULIC PEDESTAL HOUSING (MUST ORDER 17056E & 12055E)	1
22	V20018	3/8" LOCK WASHER	2
23	12055B	ADAPTER SHAFT	1
24	17056	BEARING	1
25	18010SS	3/8"-16 X 1.25" HHCS	2
26	HY1013	HYDRAULIC MOTOR	1
27	12600B	COMPLETE HYDRAULIC ASSEMBLY	1
28	13777	3/4" PLUG	2
29	13778	O-RING	2
30	12901	SS REAR BRACKET WASHER (300PHY)	4
N/S	HY1003	HYDRAULIC MOTOR SEAL KIT	2
KIT	13000	4 VANE IMPELLER REPAIR KIT (ITEMS 2,4,7-8,16-19, 21, 30, 12099)	1
KIT	13999	PUMP SEAL/O-RING KIT (ITEMS 2,4,7-8,16,18,19, 21, 30, 12099)	1

KITS 3" POLY PUMPS

PART NO	EPDM REPAIR KIT NO	EPDM SEAL KIT NO	HYDRAULIC MOTOR SEAL KIT
300PHY	13000	13999	HY1003

HYDRAULIC MOTOR DATA

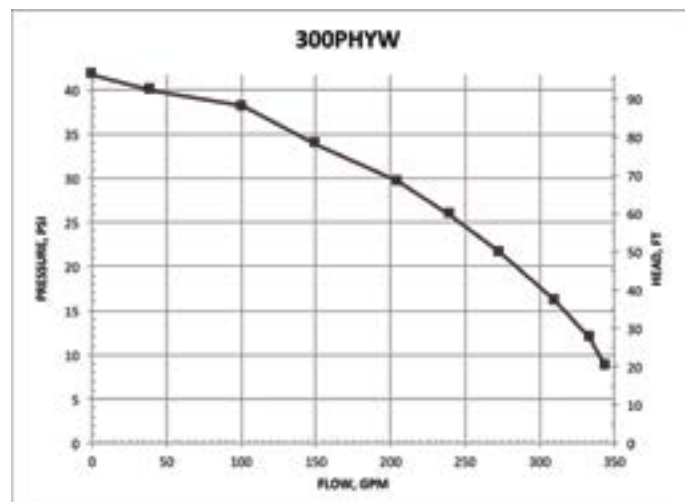
U.S. GALLONS/REV.	0.0025
CUBIC INCHES/REV.	0.580
LITERS/REV.	0.0097
MAX HYDRAULIC PRESSURE	2000 PSI
MIN HYDRAULIC PRESSURE	200 PSI
INLET PORT	SAE 10 (7/8-14 UNF-2B)
OUTLET PORT	SAE 10 (7/8-14 UNF-2B)
MINIMUM GPM REQUIRED	6 GPM 2400 RPM
MAXIMUM GPM REQUIRED	10 GPM 4000 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT
SUPPLIED CHECK VALVE IS TO ENSURE PROPER ROTATION OF THE BANJO PUMP. PLACE CHECK VALVE IN OUTLET PORT (MARKED "B") FOR PROPER RIGHT HAND ROTATION.	

SPOOL VALVE INFORMATION

REQUIRED OUTLET FLOW	MIN 6 GPM / MAX 10 GPM
REQUIRED SYSTEM PRESSURE	MIN 600 PSI / MAX 3000 PSI



CENTRIFUGAL PUMPS

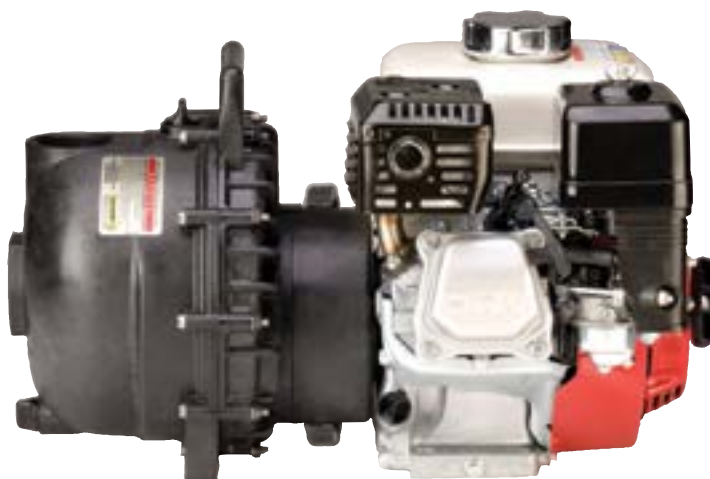
3" POLY WET SEAL PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber.
- Pump end separated from engine
- V-shaped for quicker priming
- Engine warranty service available at authorized Briggs & Stratton® and Honda® dealers
- Due to weight and size of pumps, Banjo ships these by truck only.



**WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS**



3" POLY WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
300PH6W	3" POLY WET SEAL PUMP W/6.0 HP HONDA® ENGINE	6.0	1
300PH11W	3" POLY WET SEAL PUMP W/11 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	11	1
300P11PROW	3" POLY WET SEAL PUMP W/11 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START & PULL ROPE	11	1
300PH13W	3" POLY WET SEAL PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1



3" POLY WET SEAL BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
300PBW	3" POLY WET SEAL BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1

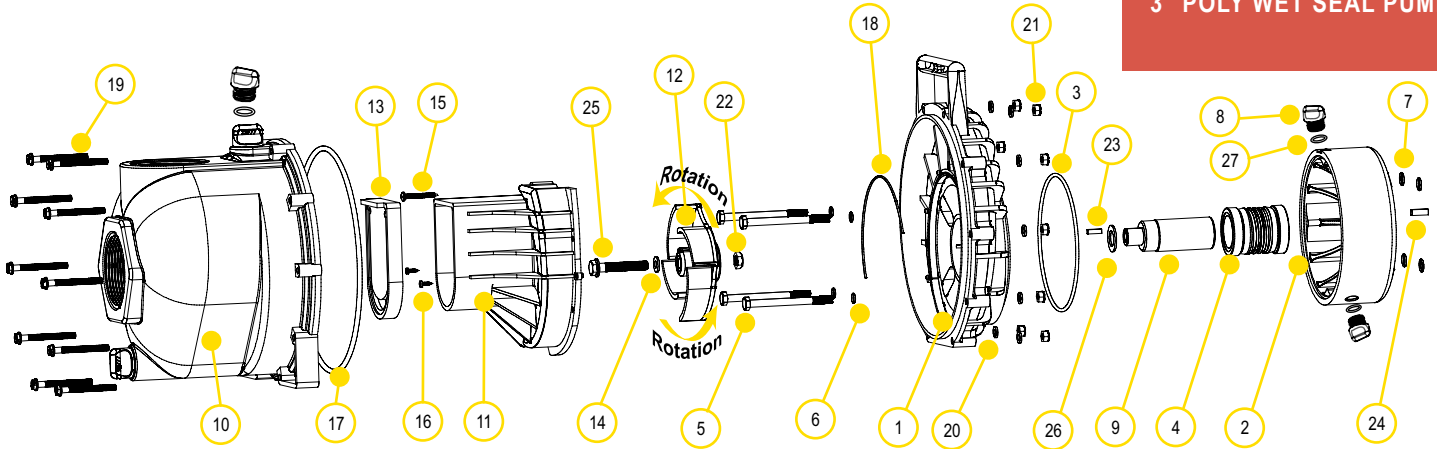


3" POLY WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
301POWV	3" POLY WET SEAL PUMP ONLY FOR 1" SHAFT & 4 VANE IMPELLER, FKM SEALS	N/A	1

CENTRIFUGAL PUMPS

3" POLY WET SEAL PUMPS

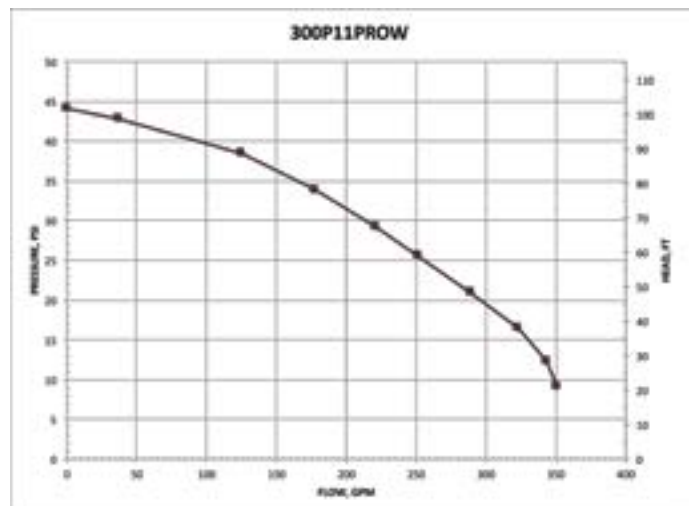


REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12703AW	WET SEAL REAR BRACKET	1
2	12201W	WET SEAL RESERVOIR	1
3	13719	O-RING	1
3	13719V	FKM O-RING (301POWV)	1
4	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
4	15035	MECHANICAL SEAL ASSEMBLY (301POWV)	1
5	13034	5/16" -24 X 3 3/4" HHCS	4
6	12717	O-RING FOR BRACKET SCREW	4
6	12717V	FKM O-RING FOR BRACKET SCREW (301POWV)	4
7	12709	O-RING	4
7	12709V	FKM O-RING (301POWV)	4
8	12777	1/2" PLUG	4
9	13055	ADAPTER SHAFT	1
9	13155M	ADAPTER SHAFT (301POWV)	1
10	13712	BODY ASSEMBLY	1
10	13712	FKM BODY ASSEMBLY (301POWV)	1
11	13702	VOLUTE	1
12	13772	4 VANE IMPELLER	1
13	12705	CHECK VALVE	1
13	12705V	FKM CHECK VALVE (301POWV)	1
14	A204	IMPELLER BOLT GASKET	1
14	A204V	FKM IMPELLER BOLT GASKET (301POWV)	1
15	12900	#10 X 1 1/2" PPH SMS	1
16	12725	#6 X 1 1/2" PPH SMS	2
17	13719	BODY O-RING	1
17	13719V	FKM BODY O-RING (301POWV)	1
18	12754	O-RING SEGMENT	1
18	12754V	FKM O-RING SEGMENT (301POWV)	1
19	12720	1/4" - 20 X 2 1/2" SL IND HWHS	10
20	V07018	1/4" LOCK WASHER	10
21	V07019	1/4" - 20 HEX NUT	10
22	12775A	7/16" - 14 HEX NUT	1
23	12902A	3/16" SQ. X 5/8" KEY	2
24	16901	1/4" SQUARE KEY	1
25	13766	3/8" - 24 X 2 1/4" HFS	1
25	BM1070	M10-1.5 X 70 MM HHCS (301POWV)	1

REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
26	CV10175	GASKET	1
26	CV10175V	FKM GASKET (301POWV)	1
27	UV15163	O-RING FOR DRAIN PLUG	4
27	UV15163V	FKM O-RING FOR DRAIN PLUG (301POWV)	2



CENTRIFUGAL PUMPS

3" POLY MANIFOLD WET SEAL PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber
- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming
- Engine warranty service available at authorized dealers



3" POLY MANIFOLD WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
M300PH6W	3" POLY MANIFOLD WET SEAL PUMP W/6.0 HP HONDA® ENGINE	6.0	1
M300PH11W	3" POLY MANIFOLD WET SEAL PUMP W/11 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	11	1



3" POLY MANIFOLD WET SEAL BEARING PEDESTAL

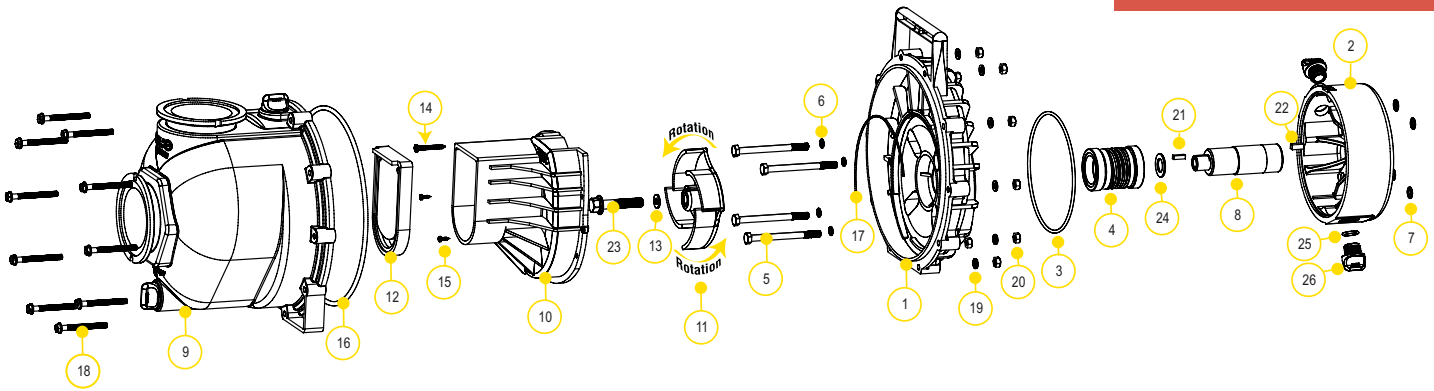
PART NO	DESCRIPTION	HP	QTY
M300PBW	3" POLY MANIFOLD WET SEAL BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1



WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS

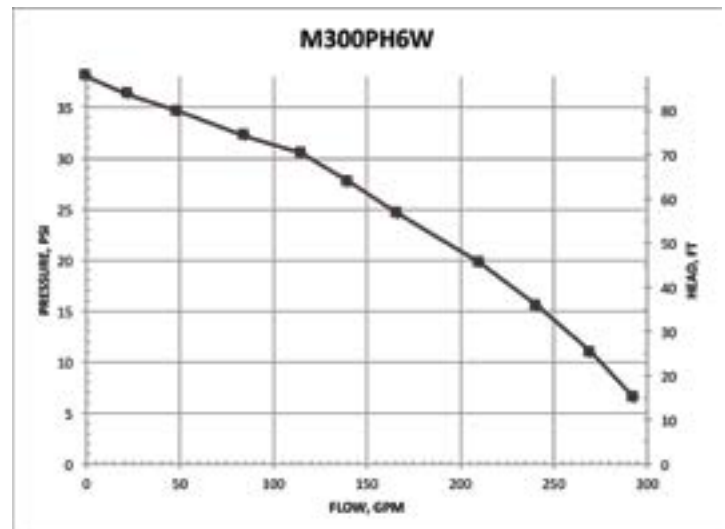
CENTRIFUGAL PUMPS

3" POLY MANIFOLD WET SEAL PUMPS



REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12703AW	WET SEAL REAR BRACKET FOR 11 HP HONDA® ENGINE	1
1	12707W	WET SEAL REAR BRACKET FOR 6 HP HONDA® ENGINE & BEARING PEDESTAL	1
2	12201W	WET SEAL RESERVOIR FOR 11 HP HONDA® ENGINE	1
2	12202W	WET SEAL RESERVOIR FOR 6 HP HONDA® ENGINE & BEARING PEDESTAL	1
3	13719	O-RING	1
4	15035E	MECHANICAL SEAL ASSEMBLY EPDM	1
5	13034	5/16" - 24 X 3 3/4" HHCS	4
6	12717	O-RING FOR BRACKET SCREW	4
7	12709	O-RING	4
8	12155	ADAPTER SHAFT FOR 6 HP HONDA® ENGINE & BEARING PEDESTAL	1
8	13055	ADAPTER SHAFT FOR 11 HP HONDA® ENGINE	1
9	M13712	MANIFOLD BODY ASSEMBLY	1
10	13702	VOLUTE	1
11	13772	4 VANE IMPELLER	1
12	12705	CHECK VALVE	1
13	A204	O-RING	1
14	12900	#10 X 1 1/2" PPH SMS 18-8 SS	1
15	12725	#6 X 1/2" PPH SMS 18-8 SS	1
16	12719A	BODY O-RING	1
17	12754	O-RING SEGMENT	1
18	12720	1/4" - 20 X 2 1/2" SL IND HWHS	10
19	V07018	1/4" LOCK WASHER	10
20	V07019	1/4" - 20 HEX NUT	10
21	12902A	3/16" SQ. X 5/8" KEY	1
22	16901	1/4" SQ. 3/4" KEY STOCK	1
23	14766	7/16" - 20 X 2 1/2" HFS FOR 11 HP HONDA® ENGINE	1
23	12766	5/16" - 24 X 3 1/4" HFS FOR 6 HP HONDA® ENGINE & BEARING PEDESTAL	1
24	CV10175	GASKET	1
25	UV15163	O-RING	2
26	12777	1/2" PLUG	2



CENTRIFUGAL PUMPS

1½" - 2" CAST IRON PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Stainless steel shaft sleeve to protect engine shaft
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Pedestal pump for long coupling to electric motor
- Recommendation for 5/8" shaft: 56C frame size, 3 HP, 3450 RPM & 5" max impeller for close coupling to electric motors
- Recommendation for 7/8" shaft: 145TC frame size, 3 HP, 3450 RPM & 5" max impeller for close coupling to electric motors
- Engine warranty service available at authorized dealers



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



2" CAST IRON PUMP W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
200PI-3	2" CAST IRON PUMP W/3.5 HP BRIGGS & STRATTON® ENGINE	3.5	1
200PI6PRO	2" CAST IRON PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1
200PIH-5	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE	5.5	1
200PIH5E	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1

2" CAST IRON PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
200POI	2" CAST IRON PUMP ONLY W/ ¾" SHAFT SLEEVE	N/A	1

1½" CAST IRON C-FLANGE PUMPS

PART NO	DESCRIPTION	HP	QTY
150POICF5/8-4.1	1½" CAST IRON C-FLANGE PUMP W/ 5/8" SHAFT SLEEVE & 4.1 IMPELLER	N/A	1
150POICF7/8	1½" CAST IRON C-FLANGE PUMP W/ 7/8" SHAFT SLEEVE	N/A	1

2" CAST IRON C-FLANGE PUMPS

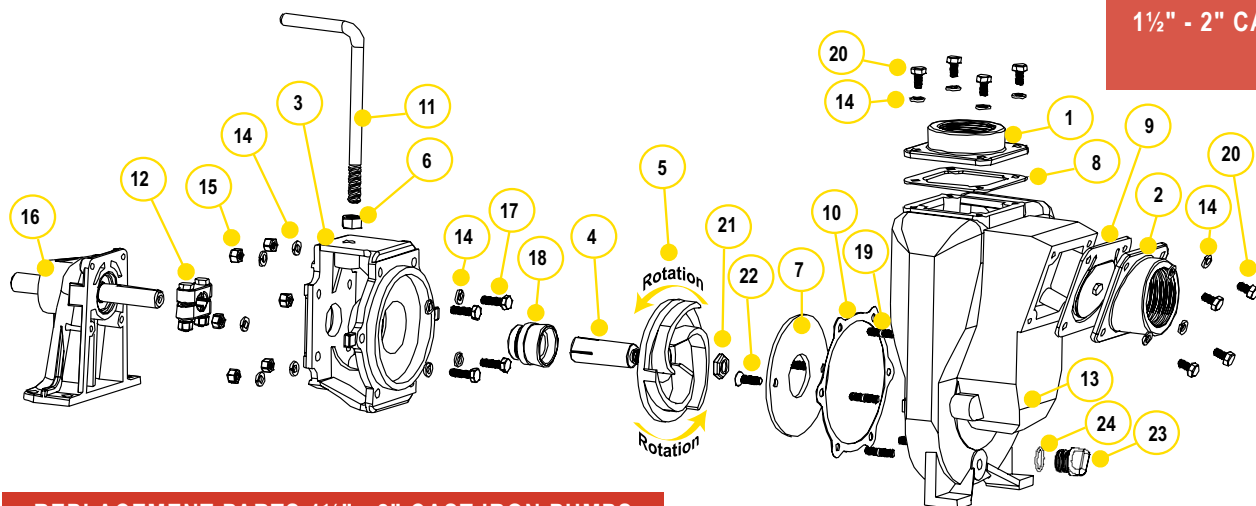
PART NO	DESCRIPTION	HP	QTY
200POICF5/8	2" CAST IRON C-FLANGE PUMP W/ 5/8" SHAFT SLEEVE	N/A	1
200POICF7/8	2" CAST IRON C-FLANGE PUMP W/ 7/8" SHAFT SLEEVE	N/A	1
200POICF7/8-4.6	2" CAST IRON C-FLANGE PUMP W/ 7/8" SHAFT SLEEVE & 4.6 IMPELLER	N/A	1

2" CAST IRON BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
200PBI	2" CAST IRON BEARING PEDESTAL W/ ¾" STRAIGHT SHAFT	N/A	1

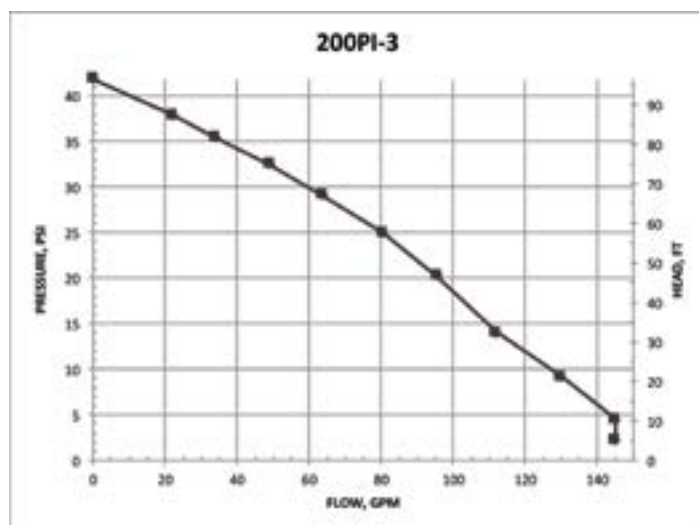
CENTRIFUGAL PUMPS

1½" - 2" CAST IRON PUMPS



REPLACEMENT PARTS 1½" - 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17001	2" NPT OUTLET FLANGE	1
2	17003	2" NPT INLET FLANGE	1
3	17004	ADAPTER FOR GAS ENGINE	1
3	17046	C-FACE ADAPTER	1
4	17005	5/8" SLEEVE DRIVE FOR ELECTRIC MOTOR	1
4*	17006	¾" SLEEVE DRIVE	1
4	17007	7/8" SLEEVE DRIVE FOR ELECTRIC MOTOR	1
5*	17008	5" IMPELLER	1
5	17008-4.6	4.6" TRIMMED IMPELLER	1
5	17008-4.1	4.1" TRIMMED IMPELLER	1
6	17010	½" HEX NUT	1
7*	17011	WEAR PLATE	1
8	17013	EPDM GASKET	1
9	17016	CHECK VALVE ASSEMBLY	1
10*	17018	GASKET ADAPTER	1
11	15022	HANDLE	1
12	17023	5/8" CLAMP FOR ¾" SHAFT ASSEMBLY (OLD STYLE)	1
12	17123	5/8" CLAMP FOR ¾" SHAFT ASSEMBLY (KEYED)	1
12	17024	7/8" CLAMP FOR SHAFT ASSEMBLY	1
13	17026	PUMP HOUSING	1
14	V10118	5/16" LOCK WASHER	18
15	V10119	5/16" - 18 SS HEX NUT	6
N/S	12884	INTERNAL RETAINING CLIP FOR PEDESTAL	1
N/S	12883B	BEARINGS	2
16	12882A	COMPLETE PEDESTAL ASSEMBLY	1
17	17040	5/16" - 24 X 1.00" CAP SCREW	4
18	17028	EPDM SEAL ASSEMBLY	1
18*	17035	FKM SEAL ASSEMBLY	1
18	17035SD	SEVERE DUTY SEAL	1
19	17042	STUD	6
20	17019	5/16" - 18 X ¾" CAP SCREW	8
21	17009B	5/8" IMPELLER NUT	1
22	17130	5/16-18 X 1.00" FHSCS, 18-8 SS	2
23	12777	½" PLUG	1
24	UV15163	O-RING	1
N/S	17033	Z RAILS (PAIR)	1
N/S	17100	REPAIR KIT (CONSISTS OF ITEMS 4*, 5*, 7, 10, 18*)	1



CENTRIFUGAL PUMPS

2" CAST IRON WET SEAL PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Stainless steel hardware
- FKM double seal contained in glycol reservoir
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Pedestal pump for long coupling to electric motor
- Due to weight and size of pumps, Banjo ships these by truck only.



2" CAST IRON WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
201PIH5W	2" CAST IRON WET SEAL PUMP W/5.5 HP HONDA® ENGINE	5.5	1
201PI6PROW	2" CAST IRON WET SEAL PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1



2" CAST IRON WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
201POIW	2" CAST IRON WET SEAL PUMP ONLY	N/A	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

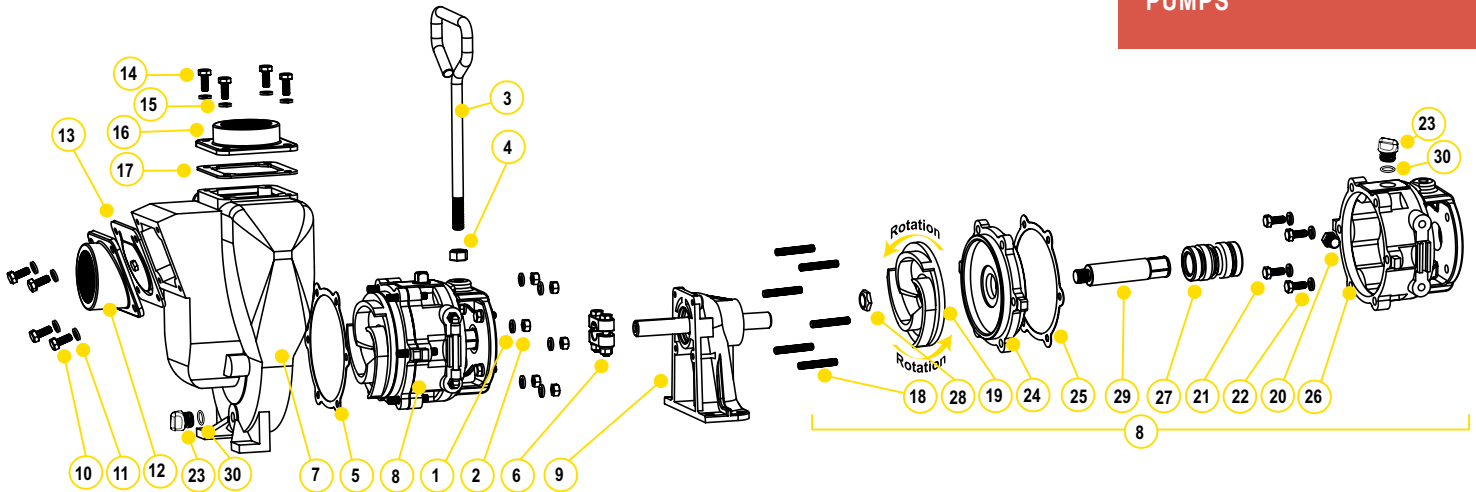


2" CAST IRON WET SEAL PUMP BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
201PBIW	2" CAST IRON WET SEAL PUMP WITH BEARING PEDESTAL	N/A	1

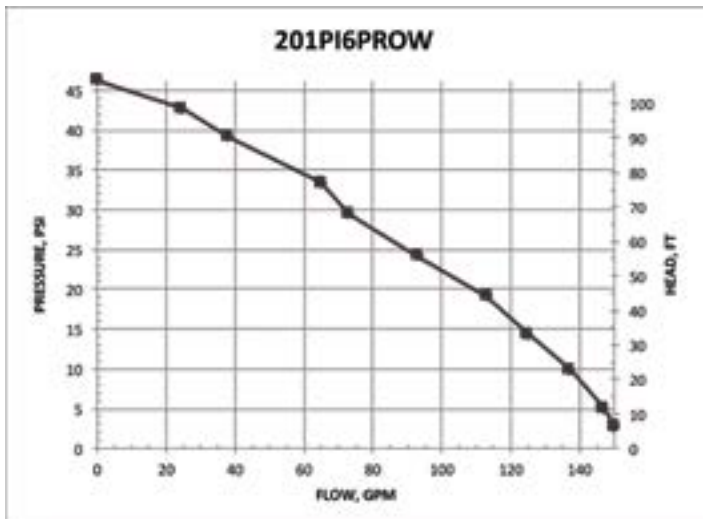
CENTRIFUGAL PUMPS

2" CAST IRON WET SEAL PUMPS



REPLACEMENT PARTS 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	V10118	5/16" LOCK WASHER	6
2	V10119	5/16" -18 HEX NUT	6
3	15022	HANDLE	1
4	17010	1/2" HEX NUT	1
5	17018	GASKET ADAPTER	1
6	17123	5/8" CLAMP, 3/4" SHAFT ASSEMBLY KEYED	1
7	17226	PUMP HOUSING	1
8	17200A	WET SEAL ASSEMBLY	1
9	12882A	BEARING PEDESTAL	1
10	17019	5/16"-18 X 3/4" HHCS	4
11	V10118	5/16" LOCK WASHER	4
12	17002	2" NPT INLET FLANGE	1
13	17016	EPDM CHECK VALVE GASKET ASSEMBLY	1
14	17019	5/16"-18 X 3/4" HHCS	4
15	V10118	5/16" LOCK WASHER	4
16	17000	2" NPT OUTLET FLANGE	1
17	17013	EPDM OUTLET GASKET	1
18	17242	HOUSING STUD	6
19	17208	IMPELLER	1
20	17032	PIPE PLUG	1
21	17019	5/16"-18 X 3/4" CAP SCREW	4
22	V10118	5/16" LOCK WASHER	4
23	12777	1/2" PLUG	2
24	17202	COVER PLATE	1
25	17018	GASKET ADAPTER	1
26	17201A	RESERVOIR	1
27	17235	FKM MECHANICAL SEAL ASSEMBLY	1
28	17009B	5/8" IMPELLER NUT	1
29	17206A	ADAPTER SHAFT	1
30	UV15163	O-RING	2



CENTRIFUGAL PUMPS

2" CAST IRON PUMPS WITH ELECTRIC MOTORS

FEATURES

- Cast iron construction for rugged dependable service
- Stainless steel shaft sleeve to protect engine shaft
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Due to weight and size of pumps, Banjo ships these by truck only.
- Motor warranty service available at authorized dealers
- Motor features include pressure cast aluminum end plates with ribbed design for rigidity, heavy gauge steel frame, 230 volt, with inverter spike resistance magnet wire



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



2" CAST IRON PUMPS W/ELECTRIC MOTORS

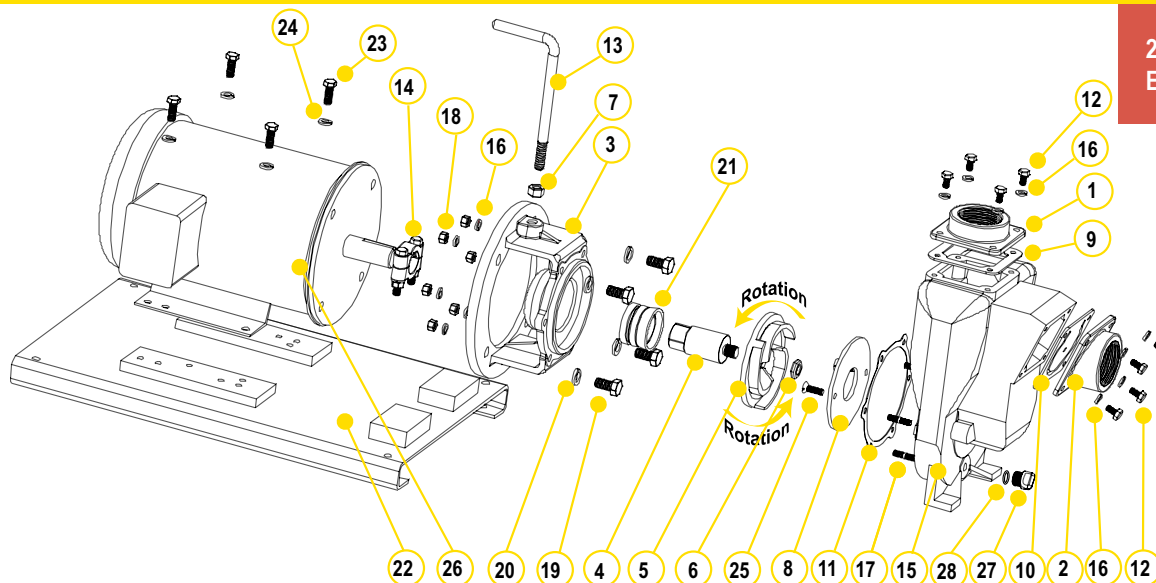
PART NO	DESCRIPTION	HP	QTY
234PIE3	2" CAST IRON PUMP W/3.0 HP THREE PHASE ELECTRIC MOTOR	3.0	1
234PIE5	2" CAST IRON PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR	5.0	1
234PIE51	2" CAST IRON PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR	5.0	1

2" CAST IRON PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
234POI	2" CAST IRON WET SEAL PUMP ONLY W 184TC FRAME ADAPTER	N/A	1

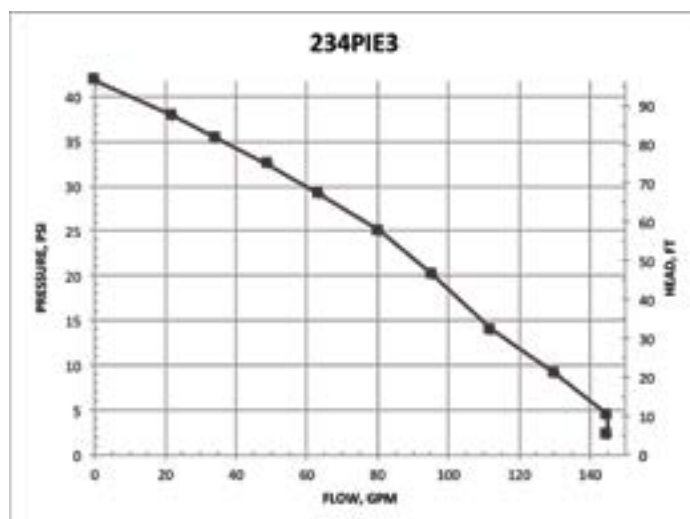
CENTRIFUGAL PUMPS

2" CAST IRON PUMPS WITH
ELECTRIC MOTORS



REPLACEMENT PARTS 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17000	2" NPT OUTLET FLANGE	1
2	17002	2" NPT INLET FLANGE	1
3	17046	C-FACE ADAPTER (234PIE3)	1
3	17446	C-FACE ADAPTER	1
4	17007	IMPELLER SHAFT (234PIE3)	1
4	17406	IMPELLER SHAFT	1
5	17008	IMPELLER (234PIE3)	1
5	17408	IMPELLER	1
6	17009B	5/8" IMPELLER NUT	1
7	17010	1/2" HEX NUT	1
8	17011	WEAR PLATE	1
9	17013	OUTLET GASKET	1
10	17016	GASKET & CHECK VALVE	1
11	17018	GASKET ADAPTER	1
12	17019	BOLT	8
13	15022	HANDLE	1
14	17024	CLAMP ASSEMBLY W/KEY (234PIE3)	1
14	18129	CLAMP ASSEMBLY W/KEY	1
15	17026	PUMP HOUSING	1
16	V10118	5/16" LOCK WASHER	20
17	17042	HOUSING STUD	6
18	V10119	HEX NUT	8
19	17449	BOLT	4
20	18058	WASHER	4
21	17035	SEAL ASSEMBLY (234PIE3)	1
21	18025	SEAL ASSEMBLY	1
22	17701	BASE PLATE ASSEMBLY	1
23	17704	BOLT	4
24	V20018	3/8" LOCK WASHER	4
25	17130	5/16-18 X 1.00" FHSCS, 18-8 SS	2
26	BEM5	ELECTRIC MOTOR	1
27	12777	1/2" PLUG	1
28	UV15163	O-RING FOR DRAIN PLUG	1



CENTRIFUGAL PUMPS

2" CAST IRON PUMPS WITH HYDRAULIC MOTORS

FEATURES

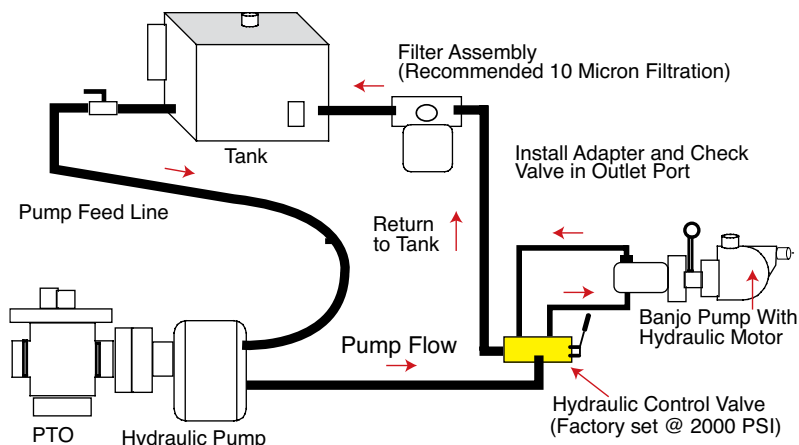
- Cast iron construction for rugged dependable service
- Stainless steel hardware
- FKM double seal contained in glycol reservoir
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Hydraulic fluid capacity is minimum 6 gallons and maximum 10 gallons
- Open or closed system
- 12 HP motor
- Recommendation to use the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



2" CAST IRON PUMPS W/ HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY
200PIHA	2" CAST IRON PUMP ONLY WITHOUT HYDRAULIC MOTOR	N/A	1

SPOOL VALVE ASSEMBLY DIAGRAM



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

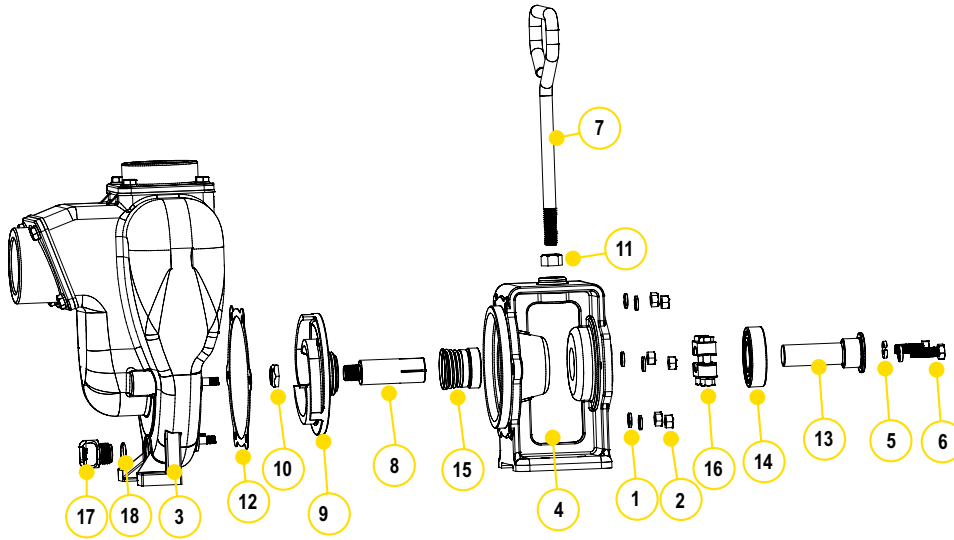


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

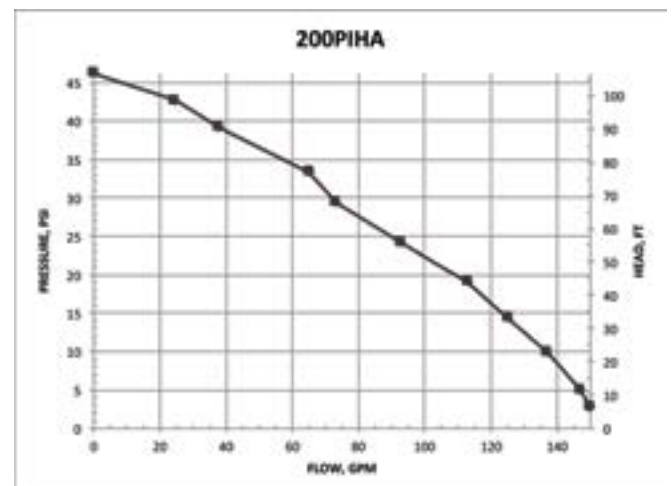
CENTRIFUGAL PUMPS

2" CAST IRON PUMPS WITH
HYDRAULIC MOTORS



REPLACEMENT PARTS 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	V10118	$\frac{5}{16}$ " SPLIT LOCK WASHER	6
2	V10119	$\frac{5}{16}$ "-18 HEX NUT	6
3	17126	PUMP HOUSING	1
4	17049A	HYDRAULIC ADAPTER	1
5	V20018	$\frac{3}{8}$ " LOCK WASHER	2
6	18010SS	$\frac{3}{8}$ "-16 X 1.25" HHCS	2
7	15022	HANDLE	1
8	17007	$\frac{7}{8}$ " SLEEVE DRIVE FOR HYDRAULIC MOTOR	1
9	17008	5" IMPELLER	1
10	17009B	$\frac{5}{8}$ " IMPELLER NUT	1
11	17010	$\frac{1}{2}$ " HEX NUT - 13UNF-RH	1
12	17018	GASKET ADAPTER	1
13	17055A	HYDRAULIC ADAPTER SHAFT	1
14	17056	SKF 6206-2RS1 BEARING	1
15	17135	FKM SEAL ASSEMBLY	1
16	17024	$\frac{7}{8}$ " CLAMP, NO KEY	1
17	12777	$\frac{1}{2}$ " PLUG	1
18	UV15163	O-RING	1



CENTRIFUGAL PUMPS

2" 222 SERIES CAST IRON PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Pump only packs complete and ready for attachment to gasoline engine
- Pedestal pump for long coupling to electric motor
- Recommendation for 3/4" shaft: 5 HP, 3600 RPM
- Recommendation for 225POI: use with 10 pound per gallon material or more
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



222 SERIES CAST IRON PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
222PIH5	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE	5.5	1
222PIH6	2" CAST IRON PUMP W/6.5 HP HONDA® ENGINE	6.5	1
222PIH5E	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1
222PI6PRO	2" CAST IRON PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1



222 SERIES CAST IRON PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY
222POI	2" CAST IRON PUMP ONLY W/ FULL IMPELLER	N/A	1
225POI	2" CAST IRON PUMP ONLY W/ TRIMMED IMPELLER	N/A	1



222 SERIES CAST IRON BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
222PBI	2" CAST IRON BEARING PEDESTAL W/ 3/4" STRAIGHT KEYED SHAFT	N/A	1

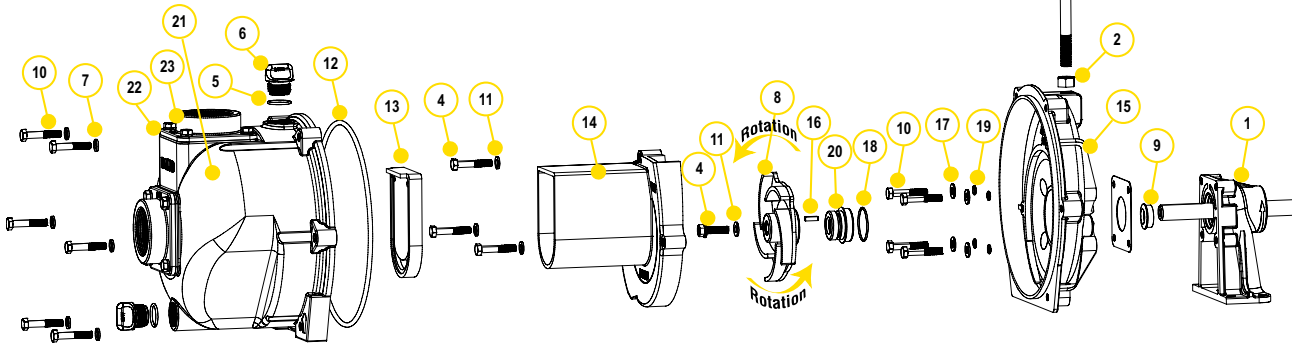


222 SERIES CAST IRON HYDRAULIC PUMPS

PART NO	DESCRIPTION	HP	QTY
222PIHY	2" CAST IRON PUMP W/12 HP HYDRAULIC MOTOR	12	1

CENTRIFUGAL PUMPS

2" 222 SERIES CAST IRON PUMPS



REPLACEMENT PARTS 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12882A	BEARING PEDESTAL ASSEMBLY	1
1	12600B	HYDRAULIC PEDESTAL ASSEMBLY	1
2	17010	1/2" JAM NUT	1
3	15022	HANDLE	1
4	12765A	5/16" - 24 X 1.12 IMPELLER BOLT	1
5	13778	O-RING	2
6	13777	3/4" PLUG	2
7	V10118	5/16" LOCK WASHER	9
8	15772	5 VANE IMPELLER	1
9	12716	PUMP SLINGER	1
10	12715A	5/16" - 24 X 1.75 HHCS	13
11	A204	O-RING	1
12	12719A	BODY O-RING	1
13	12705	CHECK VALVE	1
14	15702	VOLUTE	1
15	15703	REAR BRACKET	1
16	12902A	3/16" SQ X 5/8" KEY	1
17	12901	5/16" FLAT WASHER	4
18	12710	O-RING	1
19	12717	O-RING	4
20	12713V	SEAL ASSEMBLY	1
20	12713SD	SEVERE DUTY SEAL	1
21	15712	BODY	1
22	17013	FLANGE GASKET	2
23	17000	2" NPT THREADED FLANGE	2
24	17019	5/16" - 18 X 0.75 HHCS	8
25	V10118	5/16" LOCK WASHER	8
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	15751	BRACKET SHIM	1
N/S	15752	IMPELLER SHIM	1
N/S	17033	Z-RAILS	1 PAIR
N/S	17034	5/16" - 18 X 1 3/4" ZINC PLATED	4
N/S	V10119	5/16" -18 HEX NUT	4
N/S	V10118	5/16" LOCK WASHER	4
N/S	15000	REPAIR KIT (ITEMS 5, 8, 11-12, 18-20, 12099, 15751 & 15752)	1
N/S	15000V	FKM REPAIR KIT	1
N/S	15999	SEAL KIT (ITEMS 5, 11-12, 18-20, 12099, 15751 & 15752)	1
N/S	15999V	FKM SEAL KIT	1

KITS 222 CAST IRON PUMPS

PART NO	EPDM REPAIR KIT NO	FKM REPAIR KIT NO	EPDM SEAL KIT NO	FKM SEAL KIT NO
222PIH5	15000	15000V	15999	15999V
222PIH6	15000	15000V	15999	15999V
222PIH5E	15000	15000V	15999	15999V
222PI6PRO	15000	15000V	15999	15999V
222POI	15000	15000V	15999	15999V
225POI	15000	15000V	15999	15999V
222PBI	15000	15000V	15999	15999V
222PIHY	15000	15000V	15999	15999V



CENTRIFUGAL PUMPS

2" 222 SERIES CAST IRON PUMPS WITH ELECTRIC MOTORS

FEATURES

- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Motor features include pressure cast aluminum end plates with ribbed design for rigidity, heavy gauge steel frame, 230 volt, with inverter spike resistance magnet wire
- Due to weight and size of pumps, Banjo ships these by truck only.



222 SERIES CAST IRON PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY
222PIE5	2" CAST IRON PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR	5.0	1
222PIE51	2" CAST IRON PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR	5.0	1



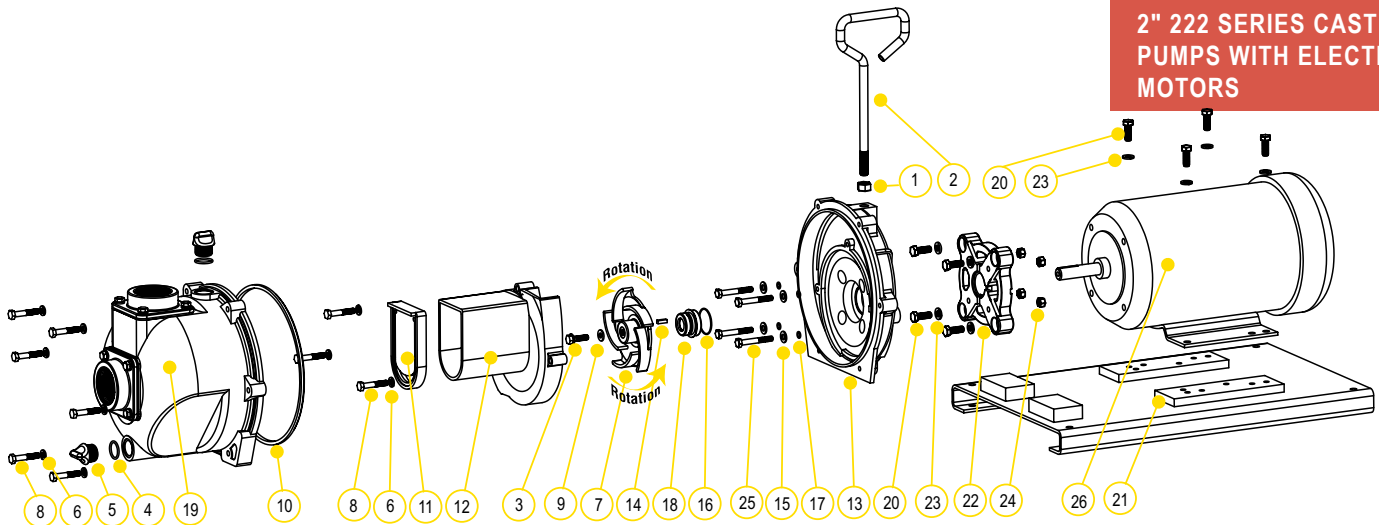
WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

CENTRIFUGAL PUMPS

2" 222 SERIES CAST IRON PUMPS WITH ELECTRIC MOTORS

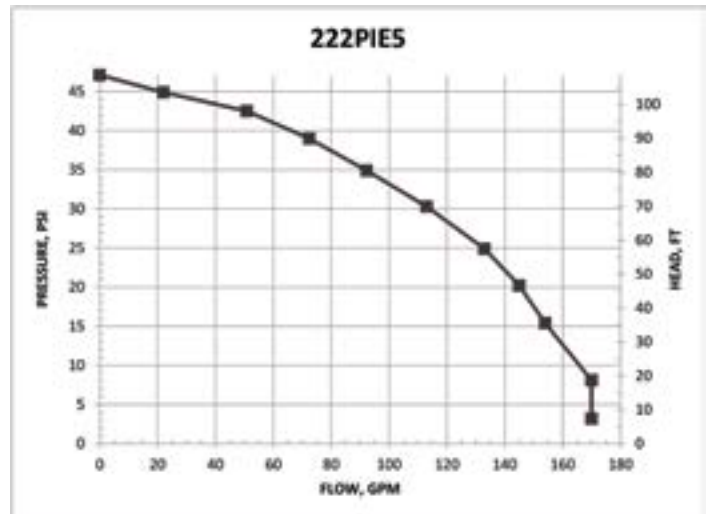


REPLACEMENT PARTS 222 SERIES CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17010	1/2" JAM NUT	1
2	15022	HANDLE	1
3	12765A	5/16" - 24 X 1.12 IMPELLER BOLT	1
4	13778	O-RING	2
5	13777	3/4" PLUG	2
6	V10118	5/16" LOCK WASHER	9
7	15772	5 VANE IMPELLER	1
8	12715A	5/16" - 24 X 1.75 HHCS	13
9	A204	O-RING	1
10	12719A	BODY O-RING	1
11	12705	CHECK VALVE	1
12	15702	VOLUTE	1
13	15703	REAR BRACKET	1
14	12902A	3/16" SQ. X 5/8" KEY	1
15	12901	5/16" FLAT WASHER	1
16	12710	O-RING	4
17	12717	O-RING	1
18	12713V	SEAL ASSEMBLY	4
18	12713SD	SEVERE DUTY SEAL	1
19	15712	BODY	1
20	17704	3/16" - 16 X 1.25 HHCS BOLT	8
21	17701	C-FACED BASE PLATE	1
22	12046	56C ADAPTER	1
23	V20018	3/8" LOCK WASHER	8
24	V20019	3/8" 16 SS HEX NUT	4
25	BF107	5/16" - 18 X 2 1/4" HHCS BOLT	4
26	BEM5-182CZ	5 HP 3450 RPM THREE PHASE MOTOR	1
26	BEM51-182CZ	5 HP 3450 RPM SINGLE PHASE MOTOR	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	15751	BRACKET SHIM	1
N/S	15752	IMPELLER SHIM	1
N/S	12756	ADAPTER KIT (ITEMS 14, 20, 22, 23, 12052, 12053, 15751, 15752, 17029)	1
N/S	15000	REPAIR KIT (ITEMS 4, 7, 9, 11, 14, 16, 18, 12099, 15751 & 15752)	1
N/S	15000V	FKM REPAIR KIT	1
N/S	15999	SEAL KIT (ITEMS 4, 9, 11, 14, 16, 18, 12099, 15751 & 15752)	1
N/S	15999V	FKM SEAL KIT	1

KITS 222 CAST IRON PUMPS

PART NO	EPDM REPAIR KIT NO	FKM REPAIR KIT NO	EPDM SEAL KIT NO	ADAPTER KIT NO
222PIE5	15000	15000V	15999	12756
222PIE51	15000	15000V	15999	12756



CENTRIFUGAL PUMPS

2" M222 SERIES CAST IRON MANIFOLD WET SEAL PUMPS

FEATURES

- Run dry capability
- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers



WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS



M222 SERIES CAST IRON WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
M222PIH6W	2" MANIFOLD CAST IRON WET SEAL PUMP W/ 6.5 HP HONDA® ENGINE	6.5	1

M222 SERIES CAST IRON WET SEAL PUMPS W/ELECTRIC MOTORS

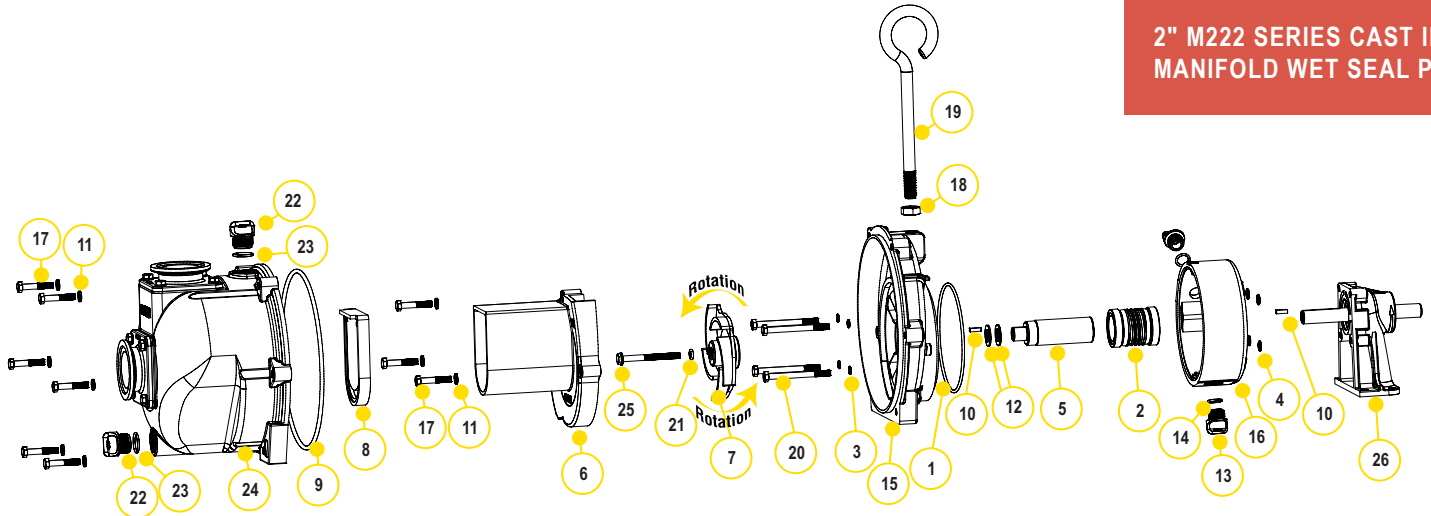
PART NO	DESCRIPTION	HP	QTY
M222PIE5W	2" MANIFOLD CAST IRON PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR	5.0	1
M222PIE51W	2" MANIFOLD CAST IRON PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR	5.0	1

M222 SERIES CAST IRON WET SEAL BEARING PEDESTAL PUMPS

PART NO	DESCRIPTION	HP	QTY
M222PBIW	2" MANIFOLD CAST IRON WET SEAL PUMP W/ BEARING PEDESTAL W/ 1/4" SHAFT	N/A	1

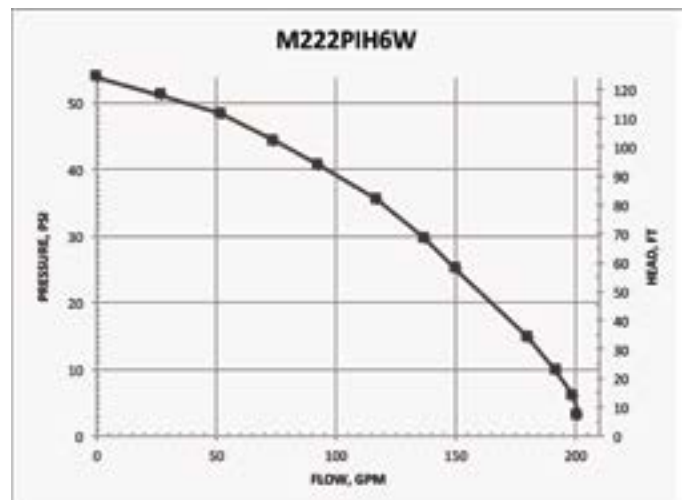
CENTRIFUGAL PUMPS

2" M222 SERIES CAST IRON MANIFOLD WET SEAL PUMPS



REPLACEMENT PARTS M222 SERIES CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	13719	O-RING	1
2	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
3	12717	O-RING FOR BRACKET SCREW	4
4	12709	O-RING	4
5	15055	ADAPTER SHAFT	1
6	15702	VOLUTE	1
7	15772	5 VANE IMPELLER	1
8	12705	CHECK VALVE	1
9	12719A	BODY O-RING	1
10	12902A	IMPELLER KEY	2
11	V10118	5/16" - 24 X 1 3/4" HHCS	9
12	CV10175	GASKET	2
13	12777	1/2" PLUG	2
14	UV15163	O-RING	2
15	15703W	REAR BRACKET	1
16	15201W	WET SEAL RESERVOIR	1
17	12715A	5/16" - 24 X 1 3/4" HHCS	9
18	18034	5/8" - 11 JAM NUT	1
19	18033	PUMP HANDLE	1
20	V10117	5/16" - 18 X 3 1/2" HFS	4
21	A204	O-RING	1
22	13777	3/4" PLUG	2
23	13778	O-RING	2
24	M15712	PUMP BODY	1
25	12766	5/16" - 24 X 3 1/4" HFS	1
26	12882A	BEARING PEDESTAL	1



CENTRIFUGAL PUMPS

3" CAST IRON PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Stainless steel shaft sleeve to protect engine shaft
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Bearing pedestal pump for long coupling to electric motor
- Recommendation for 1" shaft: 184TC frame size, 7½ HP, 3450 RPM for close coupling to electric motors
- Engine warranty service available at authorized dealers
- Due to weight and size of pumps, Banjo ships these by truck only.



3" CAST IRON PUMP W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
300PIH-8	3" CAST IRON PUMP W/8 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	8	1
300PIH-11	3" CAST IRON PUMP W/11 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	11	1
300PIH13	3" CAST IRON PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1



3" CAST IRON PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
300POI	3" CAST IRON PUMP ONLY W/ 1" SHAFT SLEEVE	N/A	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

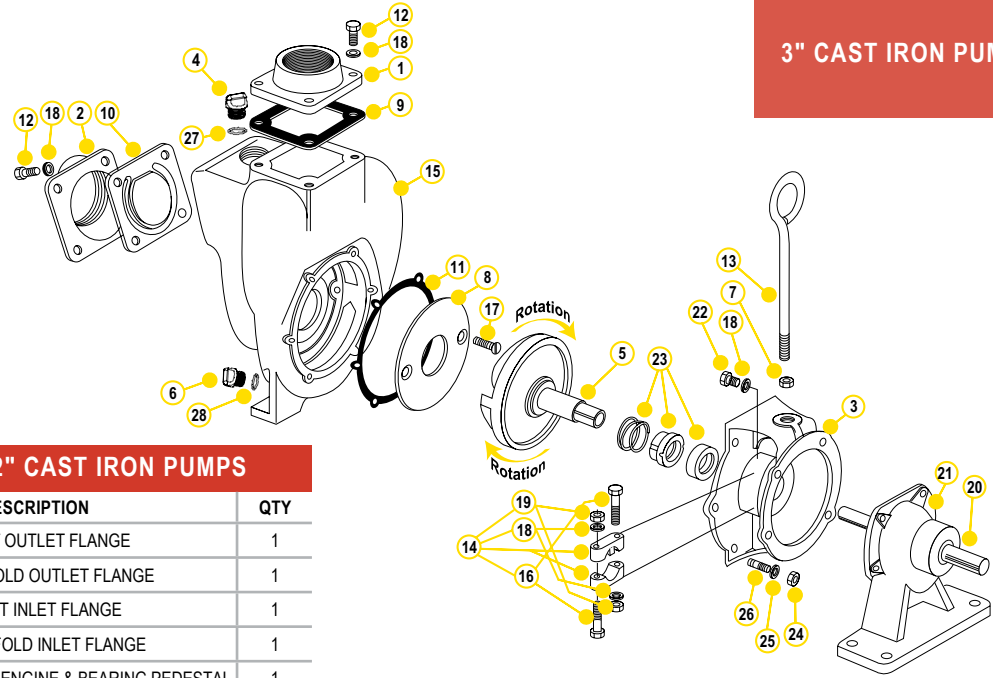


3" CAST IRON BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
300PBI	3" CAST IRON BEARING PEDESTAL W/ 1" STRAIGHT SHAFT	N/A	1

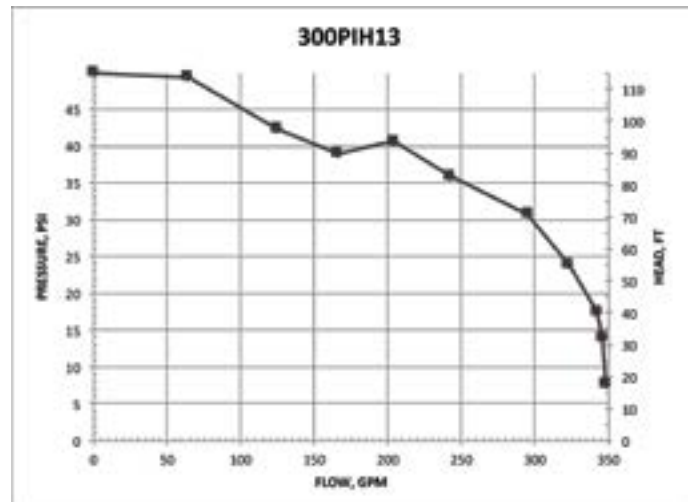
CENTRIFUGAL PUMPS

3" CAST IRON PUMPS



REPLACEMENT PARTS 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	18008	3" NPT OUTLET FLANGE	1
1	M18008	3" MANIFOLD OUTLET FLANGE	1
2	18012	3" NPT INLET FLANGE	1
2	M18012	3" MANIFOLD INLET FLANGE	1
3	18026	ADAPTER FOR GAS ENGINE & BEARING PEDESTAL	1
3	18048	C-FLANGE ADAPTER	1
3	18049	HYDRAULIC MOTOR ADAPTER	1
N/S	18055	HYDRAULIC ADAPTER SHAFT	1
4	13777	3/4" PLUG	1
5*	18023	1" IMPELLER & DRIVE SHAFT FOR GAS ENGINE	1
5	18023-1.125	1 1/8" IMPELLER & DRIVE SHAFT FOR ELECTRIC MOTOR	1
6	12777	1/2" PLUG	1
7	18034	5/8" SS JAM NUT	1
8	18004	WEAR PLATE	1
9	18009	EPDM OUTLET GASKET	1
10	18013	GASKET CHECK VALVE ASSEMBLY	1
11	18021	ADAPTER GASKET	1
12	18010SS	3/8" - 16 X 1 1/8" SS CAP SCREW HXHD	8
13	18033	HANDLE	1
14	18029	CLAMP ASSEMBLY (OLD STYLE)	1
14	18129	CLAMP ASSEMBLY (NEW STYLE)	1
15	18001	PUMP HOUSING	1
16	18030	3/8" -24 X 2 1/4" BOLT	2
17	18106	WEAR PLATE FLAT HEAD SCREW	2
18	V20018	3/8" LOCK WASHER	8
19	18032	3/8" X 24 SS HEX NUT	2
20	18504	1" SHAFT	1
21	18500	BEARING PEDESTAL	1
N/S	18502	BEARING SKF 66306-2RS1/C3	2
22	17704	BOLT	4
23*	18025	FKM SEAL ASSEMBLY	1
23	18025SD	SEVERE DUTY SEAL	1
24	V20019	3/8" 16 SS HEX NUT	6
25	V20018	3/8" SS LOCK WASHER	6
26	18218	3/8" -16 X 24 X 2 1/8" SS STUD	6
27	13778	O-RING	1
28	UV15163	O-RING	1
N/S	18035	Z-RAIL MOUNTING BRACKET (PAIR)	1
N/S	18100	REPAIR KIT (CONSIST OF ITEMS 5*, 8, 11, 17, 23*)	1



CENTRIFUGAL PUMPS

3" CAST IRON WET SEAL PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Run dry capability
- Stainless steel hardware
- Graphite loaded silicone carbide seal with stainless steel cup and spring with FKM rubber
- Double seal contained in ethylene glycol reservoir
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Pedestal pump for long coupling to electric motor
- Due to weight and size of pumps, Banjo ships these by truck only.



**WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS**



3" CAST IRON WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
301PIH13W	3" CAST IRON WET SEAL PUMP W/13 HP HONDA® ENGINE W/ ELECTRIC START & PULL ROPE	13	1



3" CAST IRON WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
301POIW	3" CAST IRON WET SEAL PUMP ONLY	N/A	1

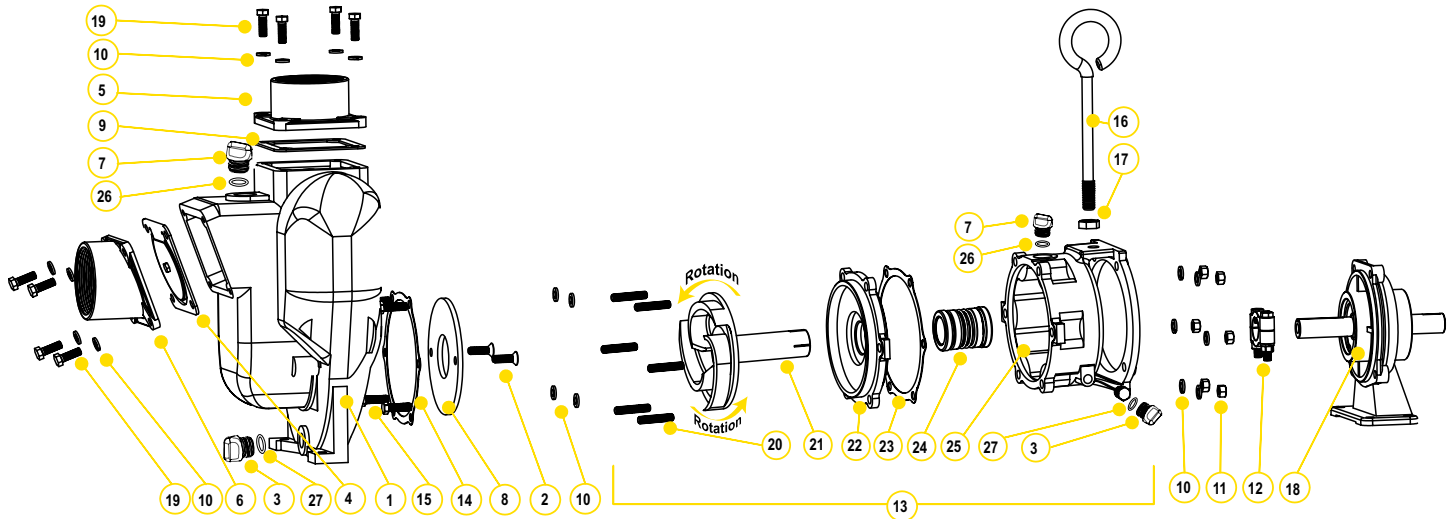


3" CAST IRON WET SEAL PUMP BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
301PBIW	3" CAST IRON WET SEAL PUMP WITH BEARING PEDESTAL	N/A	1

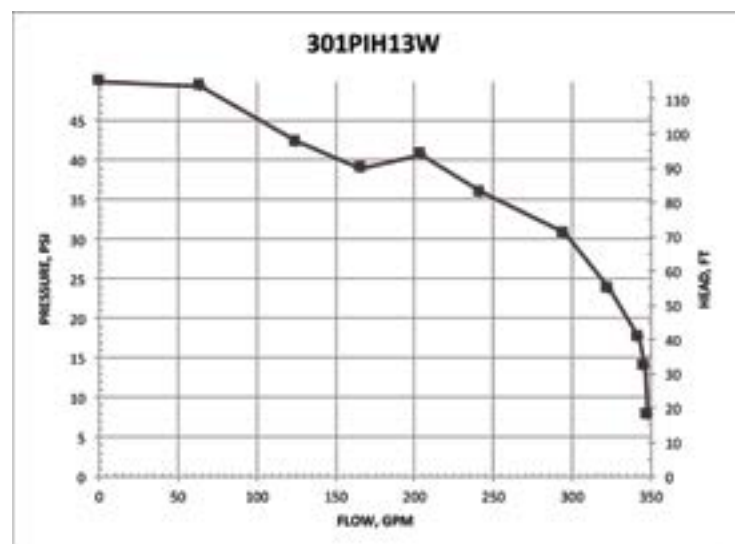
CENTRIFUGAL PUMPS

3" CAST IRON WET SEAL PUMPS



REPLACEMENT PARTS 3" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	18001	PUMP HOUSING	1
2	18106	FLAT HEAD SOCKET CAP SCREW	2
3	12777	1/2" PLUG	2
4	18013	INLET/CHECK EPDM GASKET	1
5	18008	3" NPT OUTLET FLANGE	1
6	18012	3" NPT INLET FLANGE	1
7	13777	3/4" PLUG	2
8	18004	WEAR PLATE	1
9	18009	EPDM OUTLET GASKET	1
10	V20018	3/8" LOCK WASHER	18
11	V20019	3/8" 16 SS HEX NUT	6
12	18129	CLAMP ASSEMBLY KEYED	1
13	18200A	WET SEAL ASSEMBLY	1
14	18021	ADAPTER GASKET	1
15	17704	3/8" -16 X 1 1/4" HHCS	4
16	18033	HANDLE	1
17	18034	5/8" -11 JAM NUT	1
18	18500	BEARING PEDESTAL	1
19	18010SS	3/8" - 16 X 1 1/8" HHCS	8
20	18218	3/8" -16 X 24 X 2 1/8" SS STUD	6
21	18206	IMPELLER	1
22	18202A	COVER PLATE	1
23	18021	ADAPTER GASKET	1
24	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
25	18203A	WET SEAL RESERVOIR	1
26	13778	O-RING	2
27	UV15163	O-RING	2



CENTRIFUGAL PUMPS

3" CAST IRON PUMPS WITH HYDRAULIC MOTORS

FEATURES

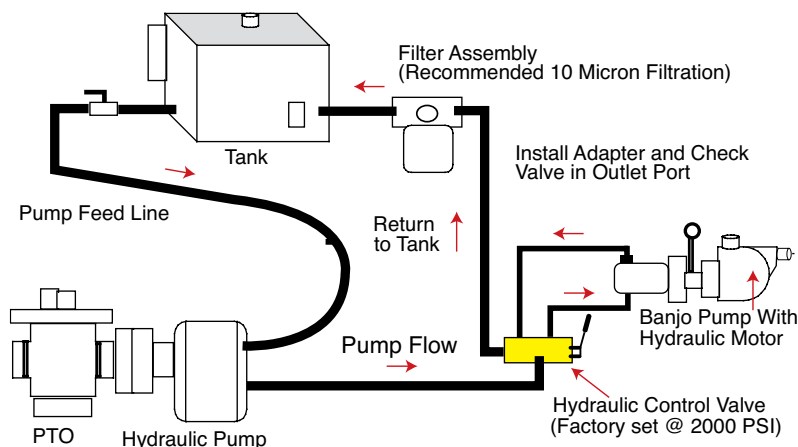
- Cast iron construction for rugged dependable service
- Stainless steel hardware
- FKM double seal contained in glycol reservoir
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Hydraulic fluid capacity is minimum 9 gallons and maximum 13 gallons
- Open or closed system
- 21 HP motor
- Recommendation to use the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



3" CAST IRON PUMPS W/ HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY
300PIHY	3" CAST IRON PUMP W/ 21 HP HYDRAULIC MOTOR	21	1

SPOOL VALVE ASSEMBLY DIAGRAM



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

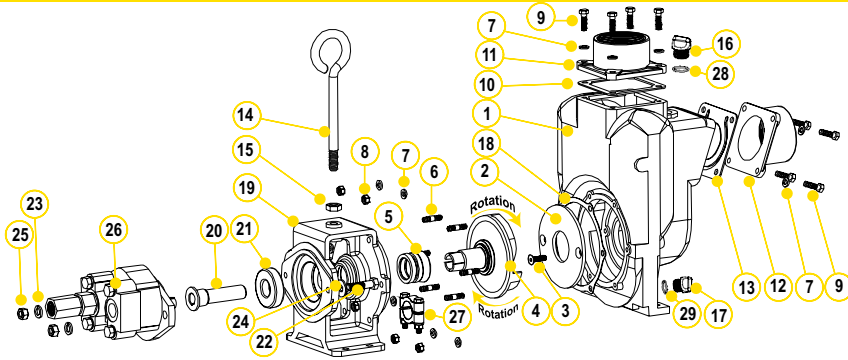


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

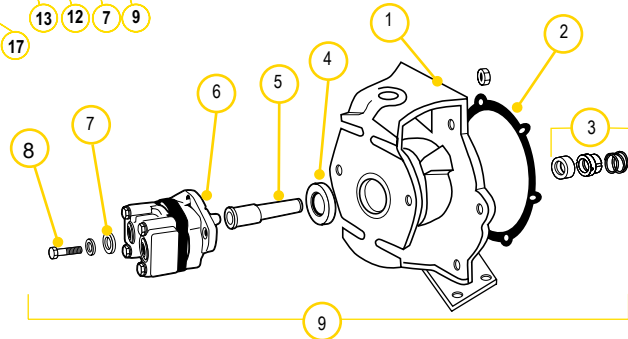
CENTRIFUGAL PUMPS

3" CAST IRON PUMPS WITH HYDRAULIC MOTORS



REPLACEMENT PART 3" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	18001	PUMP HOUSING	1
2	18004	WEAR PLATE	1
3	18106	3/8" - 16 X 1.25" HHCS	2
4	18023	IMPELLER & DRIVE SHAFT	1
5	18025	FKM MECHANICAL SEAL	1
5	18025SD	SEVERE DUTY SEAL	1
6	18218	3/8" -16 X 24 X 2 1/8" SS STUD	6
7	V20018	3/8" LOCK WASHER	14
8	V20019	3/8" 16 SS HEX NUT	6
9	18010SS	3/8" - 16 X 1.25" HHCS	8
10	18009	EPDM OUTLET GASKET	1
11	18008	3" NPT OUTLET FLANGE	1
12	18012	3" NPT INLET FLANGE	1
13	18013	INLET/CHECK EPDM GASKET	1
14	18033	HANDLE	1
15	18034	5/8" -11 HEX NUT	1
16	13777	3/4" PLUG	1
17	12777	1/2" PLUG	1
18	18021	ADAPTER GASKET	1
19	18049	HYDRAULIC MOTOR ADAPTER	1
20	18055	HYDRAULIC ADAPTER SHAFT	1
21	18502	BEARING SKF 66306-2RS1/C3	1
22	18056	1/2" -13 X 2" HHCS	2
23	18058	1/2" SPLIT WASHER	2
24	18059	1/2" FLAT WASHER	2
25	17010	1/2" - 13 HEX NUT	2
26	HY1012	UM16-45A-HX HYDRAULIC MOTOR ASSEMBLY	1
27	18029	CLAMP ASSEMBLY UNKEYED	1
28	13778	O-RING	1
29	UV15163	O-RING	1
KIT	18100	REPAIR KIT (CONSIST OF 2, 3, 4, 5, 18)	1



REPLACEMENT PARTS 3" HYDRAULIC ADAPTER

ITEM	PART NO	DESCRIPTION	QTY
1	18049	C-FACE HYDRAULIC MOTOR ADAPTER	1
2	18021	GASKET ADAPTER	1
3	18025	SEAL ASSEMBLY	1
4	18502	SKF 63306-2RS1/C3 BEARING	1
5	18055	HYDRAULIC ADAPTER SHAFT SLEEVE	1
6	HY1012	TYRONE® UM16 HYDRAULIC MOTOR	1
7	18059	1/2" FLAT WASHER	2
8	18058	1/2" SPLIT LOCK WASHER	2
9	18056	1/2" - 13" X 2" HHCS BOLT	2
10	17010	1/2" HEX NUT	2
11	18600	HYDRAULIC MOTOR ADAPTER ASSEMBLY	1
KIT	HY1001	REPAIR KIT	1

HYDRAULIC MOTOR DATA

U.S. GALLONS/REV.	0.0038
CUBIC INCHES/REV.	0.878
LITERS/REV.	0.0144
MAX HYDRAULIC PRESSURE	3000 PSI
MIN HYDRAULIC PRESSURE	600 PSI
INLET PORT	1-1/16-12UN-2B
OUTLET PORT	1-5/16-12UN-2B
MINIMUM GPM REQUIRED	9 GPM 2370 RPM
MAXIMUM GPM REQUIRED	13 GPM 3450 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

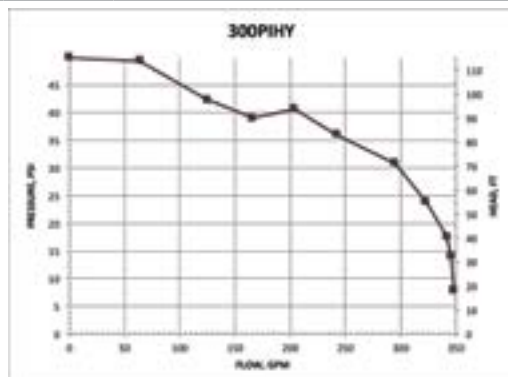
CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT

SUPPLIED CHECK VALVE IS TO ENSURE PROPER ROTATION OF THE BANJO PUMP. PLACE CHECK VALVE IN OUTLET PORT (MARKED "B") FOR PROPER RIGHT HAND ROTATION. IT IS RECOMMENDED THAT A MINIMUM 3/4" INLET LINE & A MINIMUM 1" OUTLET LINE BE USED. THE OUTLET PORT MUST BE CONNECTED DIRECTLY BACK TO THE HYDRAULIC FLUID RESERVOIR & NOT TO ANY VALVING, REGULATORS OR FLOW DIVERTERS. THE OUTLET PORT/RETURN LINE BACK PRESSURE MUST NOT EXCEED 250 PSI.

SPOOL VALVE INFORMATION

REQUIRED OUTLET FLOW	MIN 9 GPM / MAX 13 GPM
REQUIRED SYSTEM PRESSURE	MIN 600 PSI / MAX 3000 PSI



CENTRIFUGAL PUMPS

3" 333 SERIES CAST IRON PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Pedestal pump for long coupling to electric motor
- Recommendation for 3/4" shaft: 5 HP, 3600 RPM
- Recommendation for 225POI: use with 10 pound per gallon material or more
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers



333 SERIES CAST IRON PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
333PIH13	3" CAST IRON PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1



333 SERIES CAST IRON PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY
333POI	3" CAST IRON PUMP ONLY W/1" SHAFT & 5 VANE IMPELLER UNASSEMBLED	N/A	1
333POICF	3" CAST IRON PUMP ONLY W/1 1/8" SHAFT & 5 VANE IMPELLER UNASSEMBLED FOR 215TC FRAME	N/A	1



333 SERIES CAST IRON BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
333PBI	3" CAST IRON BEARING PEDESTAL W/ 1" SHAFT	N/A	1



333 SERIES CAST IRON HYDRAULIC PUMPS

PART NO	DESCRIPTION	HP	QTY
333PIE15	3" CAST IRON PUMP W/15 HP THREE PHASE ELECTRIC MOTOR	15	1



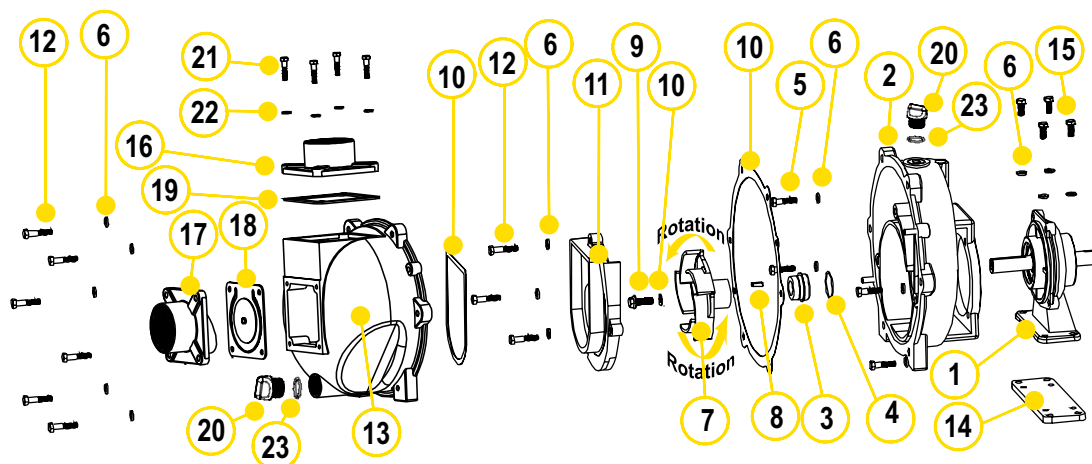
WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

CENTRIFUGAL PUMPS

3" 333 SERIES CAST IRON PUMPS

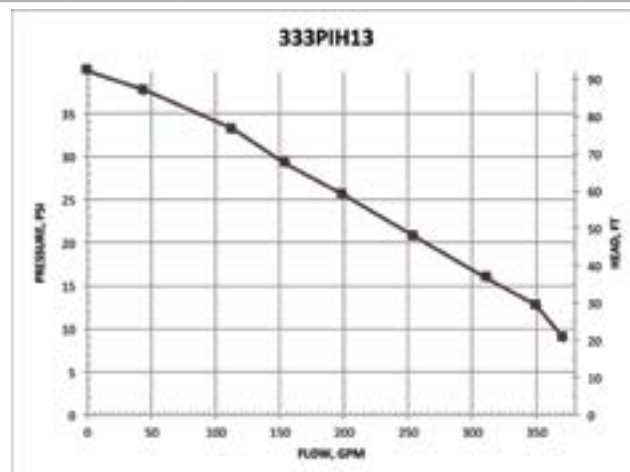


REPLACEMENT PARTS 3" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
N/S	16099	IMPELLER REMOVAL BOLT	1
1	18500	BEARING PEDESTAL (333PBI)	1
2	16704	REAR BRACKET	1
3	16713	MECHANICAL SEAL	1
4	16710	O-RING	1
5	17704	3/8" - 16 X 1.25" SS CAP SCREW (333PBI)	4
6	V20018	3/8" SS LOCK WASHER	17
7	16773	3" IMPELLER (333PBI)	1
7	16774	3" IMPELLER (333PIH13 & 333POI)	1
8	16901	1/4" SQ. 3/4" KEY STOCK	1
9	16765	IMPELLER BOLT (333PBI)	1
9	13765	IMPELLER BOLT (333PIH13)	1
10	16019	GASKET SET	1
11	16702	VOLUTE	1
12	V20011SS	3/8" - 16 X 1.75" SS BOLT	9
13	16733	BODY	1
14	18511	ADAPTER PLATE (333PBI)	1
15	18512	3/8" - 16 X 0.875" SS HHCS (333PBI)	4
N/S	16751	BRACKET SHIM SET	1
N/S	16752	IMPELLER SHIM	1
N/S	18033	HANDLE	1
N/S	18034	5/8" SS JAM NUT	1
16	16001	3" NPT OUTLET FLANGE	1
17	16003	3" NPT INLET FLANGE	1
18	16706	FKM INLET GASKET W/ CHECK	1
19	16011	FKM OUTLET GASKET	1
20	13777	3/4" PLUG	2
21	18027	3/8" - 16 X 1.50" HHCS (333PIH13)	8
22	V20018	3/8" SS LOCK WASHER	8
23	13778	O-RING	2

REPLACEMENT PARTS 333PIE15

ITEM	PART NO	DESCRIPTION	QTY
N/S	16099	IMPELLER REMOVAL BOLT	1
2	16704A	REAR BRACKET W/C-FACE ADAPTER	1
3	15025	MECHANICAL SEAL	1
6	V20018	3/8" SS LOCK WASHER	8
7	16773A	3" IMPELLER - 5 VANE	1
8	17901	1/4" SQ. 3/4" KEY STOCK	1
9	16765	7/16-20 1 1/4" HFS	1
10	16019	GASKET SET	1
11	16702	VOLUTE	1
12	V20011SS	3/8" - 16 X 1.75" SS BOLT	9
13	16733	BODY	1
N/S	16751	BRACKET SHIM SET	1
N/S	16752	IMPELLER SHIM	1
N/S	18033	HANDLE	1
N/S	18034	5/8" SS JAM NUT	1
16	16001	OUTLET FLANGE	1
17	16003	INLET FLANGE	1
18	16706	FKM INLET GASKET W/ CHECK	1
19	16011	FKM OUTLET GASKET	1
20	13777	3/4" PLUG	2
21	18027	3/8" - 16 X 1.50" HHCS	8
22	V20018	3/8" SS LOCK WASHER	4
23	13778	O-RING	2



CENTRIFUGAL PUMPS

3" M332 SERIES CAST IRON MANIFOLD WET SEAL PUMPS

FEATURES

- Run dry capability
- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



M332 SERIES CAST IRON WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
M332PIH13W	3" MANIFOLD CAST IRON WET SEAL PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1



M332 SERIES CAST IRON WET SEAL PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY
M332PIE10W	3" MANIFOLD CAST IRON WET SEAL PUMP W/10HP THREE PHASE ELECTRIC MOTOR	10	1
M332PIE101W	3" MANIFOLD CAST IRON WET SEAL PUMP W/10HP SINGLE PHASE ELECTRIC MOTOR	10	1

M332 SERIES CAST IRON WET SEAL BEARING PEDESTAL PUMPS

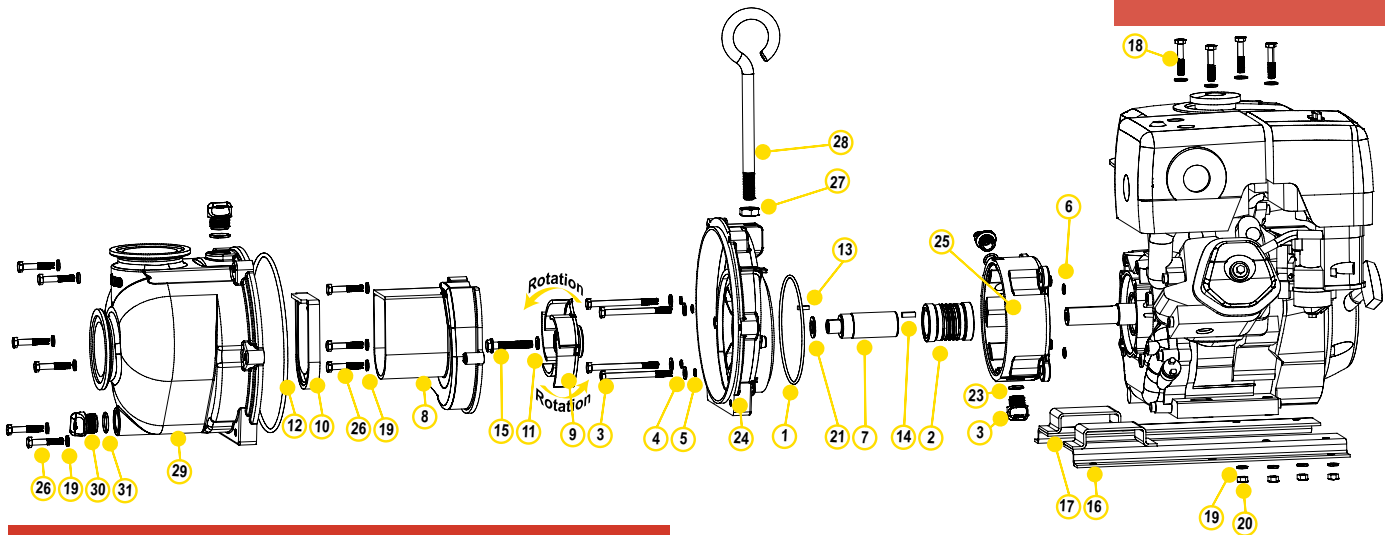
PART NO	DESCRIPTION	HP	QTY
M332PBIW	2" MANIFOLD CAST IRON WET SEAL PUMP W/ BEARING PEDESTAL W/ 3/4" SHAFT	N/A	1

M332 SERIES CAST IRON WET SEAL BEARING PEDESTAL PUMPS

PART NO	DESCRIPTION	HP	QTY
M332POIW	3" MANIFOLD CAST IRON WET SEAL PUMP ONLY	N/A	1

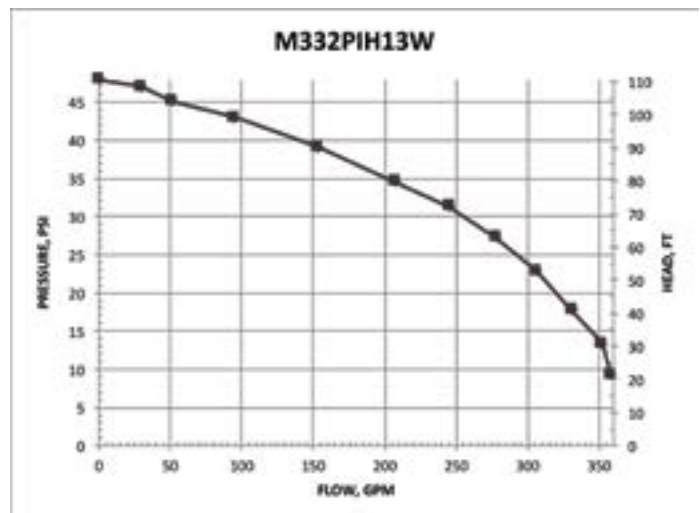
CENTRIFUGAL PUMPS

2" M222 SERIES CAST IRON MANIFOLD WET SEAL PUMPS



REPLACEMENT PARTS M332 SERIES CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	13719	O-RING	1
2	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
3	13034	5/16" - 24 X 3/4" HHCS	4
4	12901	5/16" FLAT WASHER	8
5	12717	O-RING FOR BRACKET SCREW	4
6	12709	O-RING	4
7	13055	ADAPTER SHAFT	1
8	19702	VOLUTE	1
9	19772SS	5 VANE IMPELLER	1
9	15772	IMPELLER (M332PBIW)	1
10	12705	CHECK VALVE	1
11	A204	O-RING	1
12	12719A	BODY O-RING	1
13	12902A	IMPELLER KEY	1
14	16901	1/4" SQ X 3/4" KEY STOCK	1
15	13766	3/8" - 24 X 2 1/4" HFS	1
16	18135B	Z-RAIL	1
17	18135A	Z-RAIL	1
18	17029	5/16" - 18 X 1 3/4" HHCS	4
19	V10118	5/16" LOCK WASHER	13
20	V10119	5/16" HEX NUT	4
21	CV10175	GASKET	2
22	12777	1/2" PLUG	2
23	UV15163	O-RING	2
24	19703W	REAR BRACKET	1
25	19201W	WET SEAL RESERVOIR	1
26	12715A	5/16" - 24 X 1 3/4" HHCS	9
27	18034	5/8" - 11 JAM NUT	1
28	18033	PUMP HANDLE	1
29	M19712X	PUMP BODY	1
30	13777	3/4" PLUG	2
31	13778	O-RING	2



CENTRIFUGAL PUMPS

3" M332 SERIES CAST IRON MANIFOLD WET SEAL PUMPS WITH HYDRAULIC MOTORS

FEATURES

- Run dry capability
- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Hydraulic fluid capacity is minimum 9 gallons and maximum 13 gallons
- Open or closed system
- 3600 R.P.M.
- Recommendation to use the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



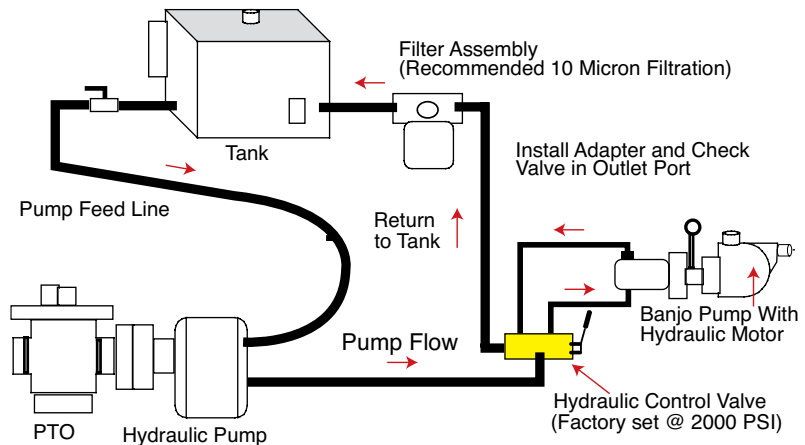
WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



M332 SERIES CAST IRON MANIFOLD WET SEAL PUMPS W/HYDRAULIC MOTOR

PART NO	DESCRIPTION	HP	QTY
M332PIHAW	3" MANIFOLD CAST IRON WET SEAL PUMP WITH OUT HYDRAULIC MOTOR	N/A	1
M332PIHYW	3" MANIFOLD CAST IRON WET SEAL PUMP W/ HYDRAULIC MOTOR	21	1

SPOOL VALVE ASSEMBLY DIAGRAM

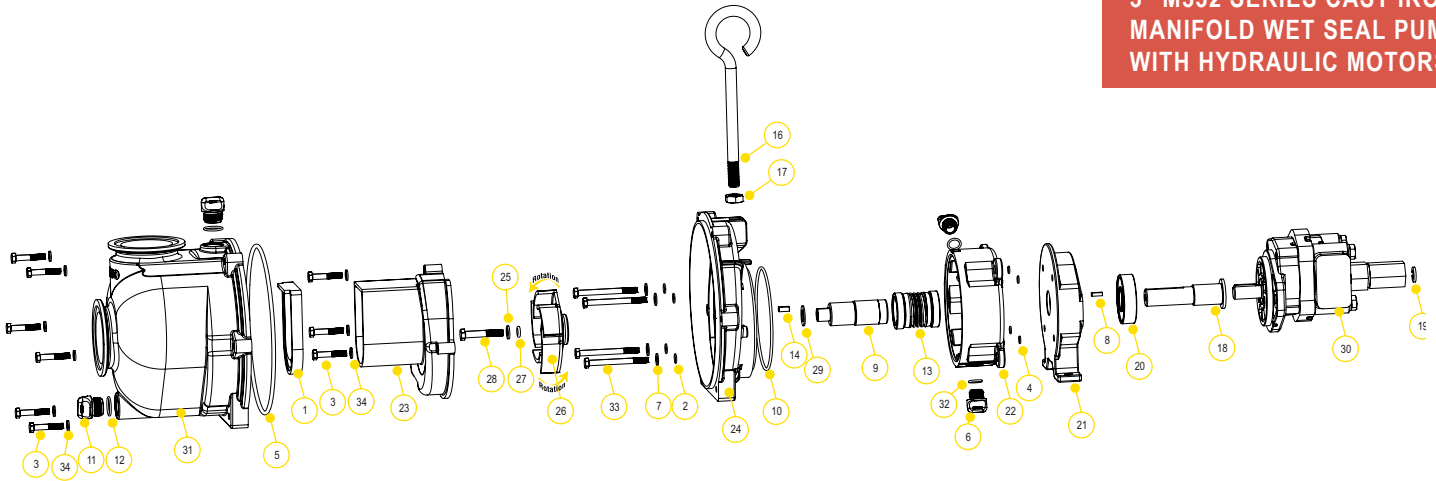


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

CENTRIFUGAL PUMPS

**3" M332 SERIES CAST IRON
MANIFOLD WET SEAL PUMPS
WITH HYDRAULIC MOTORS**



REPLACEMENT PARTS M222 SERIES CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12705	CHECK VALVE	1
2	12709	O-RING	4
3	12715A	SS BRACKET SCREWS	9
4	12717	O-RING FOR SCREW HEAD	4
5	12719A	BODY O-RING	1
6	12777	1/2" PLUG	2
7	12901	SS REAR BRACKET WASHER	4
8	12902A	IMPELLER KEY	1
9	13055	ADAPTER SHAFT	1
10	13719	O-RING	1
11	13777	3/4" PLUG	2
12	13778	O-RING	2
13	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
14	16901	1/4" SQ. 3/4" KEY STOCK	1
15	17449	BOLT	2
16	18033	HANDLE	1
17	18034	5/8" SS JAM NUT	1
18	18055H	HYDRAULIC MOTOR ADAPTER SHAFT	1
19	18058	1/2" SPLIT LOCK WASHER	2
20	18502	SKF 63306-2RS1/C3 BEARING	1
21	19001H	RESERVOIR BACKING PLATE	1
22	19201W	WET SEAL RESERVOIR	1
23	19702	VOLUTE	1
24	19703W	REAR BRACKET	1
25	19766	3/8" FLAT WASHER	1
26	19772SS	5 VANE IMPELLER	1
27	A204	O-RING	1
28	BF207	3/8" - 16 X 2 1/4" HHCS	1
29	CV10175	GASKET	1
30	HY1012	TYRONE® UM16 HYDRAULIC MOTOR	1
31	M19712X	PUMP BODY	1
32	UV15163	PRIME/DRAIN PLUG O-RING	2
33	V10118	5/16" SS LOCK WASHER	4
34	V10117	5/16" X 3 1/2" SS BODY BOLT	9

HYDRAULIC MOTOR DATA

U.S. GALLONS/REV.	0.0038
CUBIC INCHES/REV.	0.878
LITERS/REV.	0.0144
MAX HYDRAULIC PRESSURE	3000 PSI
MIN HYDRAULIC PRESSURE	600 PSI
INLET PORT	1-1/16-12UN-2B
OUTLET PORT	1-5/16-12UN-2B
MINIMUM GPM REQUIRED	9 GPM 2370 RPM
MAXIMUM GPM REQUIRED	13 GPM 3450 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

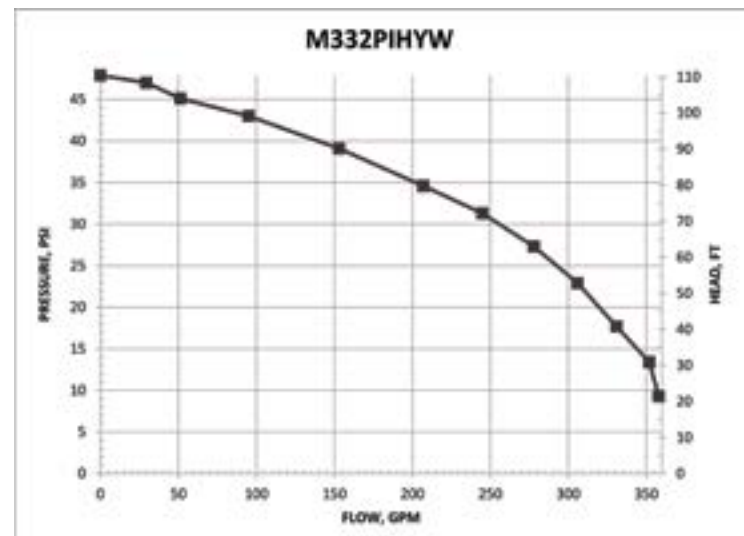
CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT

SUPPLIED CHECK VALVE IS TO ENSURE PROPER ROTATION OF THE BANJO PUMP. PLACE CHECK VALVE IN OUTLET PORT (MARKED "B") FOR PROPER RIGHT HAND ROTATION. IT IS RECOMMENDED THAT A MINIMUM 3/4" INLET LINE & A MINIMUM 1" OUTLET LINE BE USED. THE OUTLET PORT MUST BE CONNECTED DIRECTLY BACK TO THE HYDRAULIC FLUID RESERVOIR & NOT TO ANY VALVING, REGULATORS OR FLOW DIVERTERS. THE OUTLET PORT/RETURN LINE BACK PRESSURE MUST NOT EXCEED 250 PSI.

SPOOL VALVE INFORMATION

REQUIRED OUTLET FLOW	MIN 9 GPM / MAX 13 GPM
REQUIRED SYSTEM PRESSURE	MIN 600 PSI / MAX 3000 PSI



CENTRIFUGAL PUMPS

4" 444 SERIES CAST IRON PUMPS

FEATURES

- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- Recommendation for 444POI: use with 10 pound per gallon material or more
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers



444 SERIES CAST IRON PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
444PIH24	4" CAST IRON PUMP W/24 HP HONDA® ENGINE	24	1



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

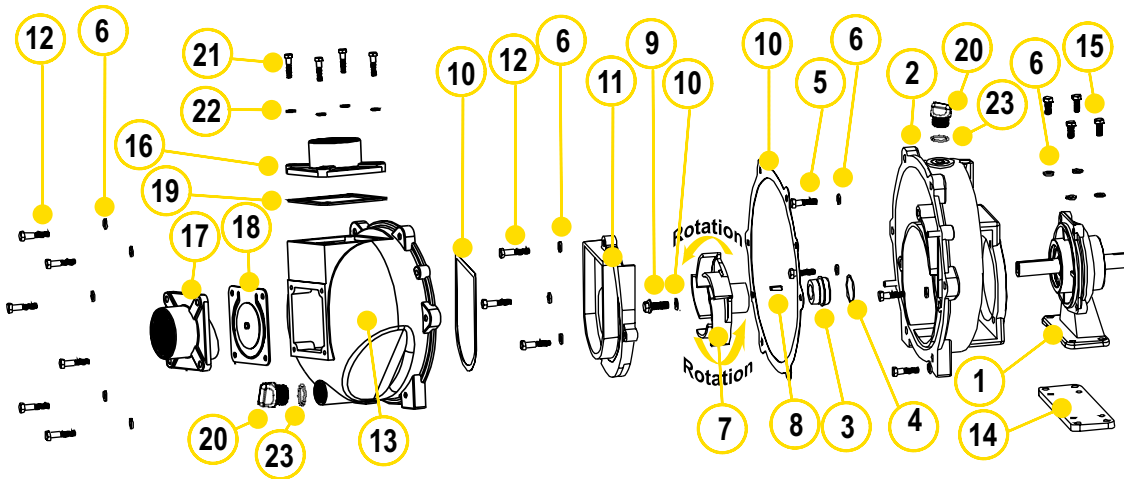


444 SERIES CAST IRON PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY
444POI	4" CAST IRON PUMP ONLY W/ 1 1/4" X 3 3/8" SHAFT & 6 VANE IMPELLER UNASSEMBLED	N/A	1

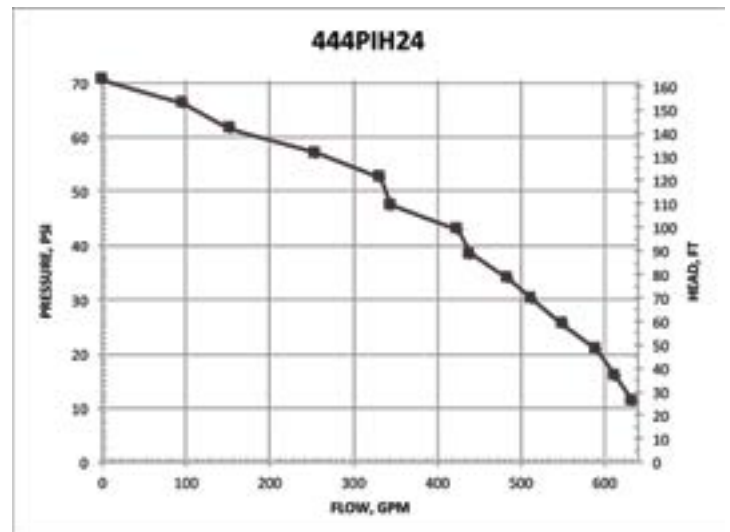
CENTRIFUGAL PUMPS

4" 444 SERIES CAST IRON PUMPS



REPLACEMENT PARTS 4" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
2	16707	REAR BRACKET	1
3	18435	MECHANICAL SEAL	1
4	V10264	O-RING	1
5	17704	3/8" - 16 X 1.25" SS CAP SCREW	4
6	V20018	3/8" SS LOCK WASHER	13
7	16775	4" IMPELLER	1
8	16901	1/4" SQ. 3/4" KEY STOCK	1
9	16765	IMPELLER BOLT	1
10	16019	GASKET SET	1
11	16702	VOLUTE	1
12	V20011SS	3/8" - 16 X 1.75" SS BOLT	9
13	16712	BODY	1
16	16000	4" NPT OUTLET FLANGE	1
17	16002	4" NPT INLET FLANGE	1
18	16706	INLET GASKET W/ CHECK	1
19	16011	OUTLET GASKET	1
20	13777	3/4" PLUG	2
21	18027	3/8" - 16 X 1.50" HHCS	8
22	V20018	3/8" SS LOCK WASHER	8
23	13778	O-RING	2
N/S	16099	IMPELLER REMOVAL BOLT	1
N/S	16751	BRACKET SHIM SET	1
N/S	16752	IMPELLER SHIM	1
N/S	18033	HANDLE	1
N/S	18034	5/8" SS JAM NUT	1



CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS

FEATURES

- 316 stainless steel housing and wettable internal components including impeller, sleeve, wear plate and fasteners
- Carbon ceramic seal with 316 stainless steel cup and spring with FKM elastomer
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Pedestal pump for long coupling to electric motor
- Recommendation for $\frac{5}{8}$ " shaft: 56C frame size, 3 HP, 3450 RPM & 5" max impeller for close coupling to electric motors
- Recommendation for $\frac{7}{8}$ " shaft: 145TC frame size, 3 HP, 3450 RPM & 5" max impeller for close coupling to electric motors
- Engine warranty service available at authorized dealers
- Due to weight and size of pumps, Banjo ships these by truck only.



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



2" STAINLESS STEEL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
200PH5-SS	2" SS PUMP W/5.5 HP HONDA® ENGINE W/ PULL ROPE ONLY	5.5	1
200P6PROSS	2" SS PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/PULL ROPE ONLY	6.5	1

2" STAINLESS STEEL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
200PO-SS	2" SS PUMP ONLY W/ $\frac{3}{4}$ " SHAFT SLEEVE	N/A	1



2" STAINLESS STEEL C-FACE PUMPS

PART NO	DESCRIPTION	HP	QTY
200POSSCF5/8	2" SS C-FACE PUMP W/ $\frac{5}{8}$ " SHAFT SLEEVE	N/A	1
200POSSCF7/8	2" SS C-FACE PUMP W/ $\frac{7}{8}$ " SHAFT SLEEVE	N/A	1

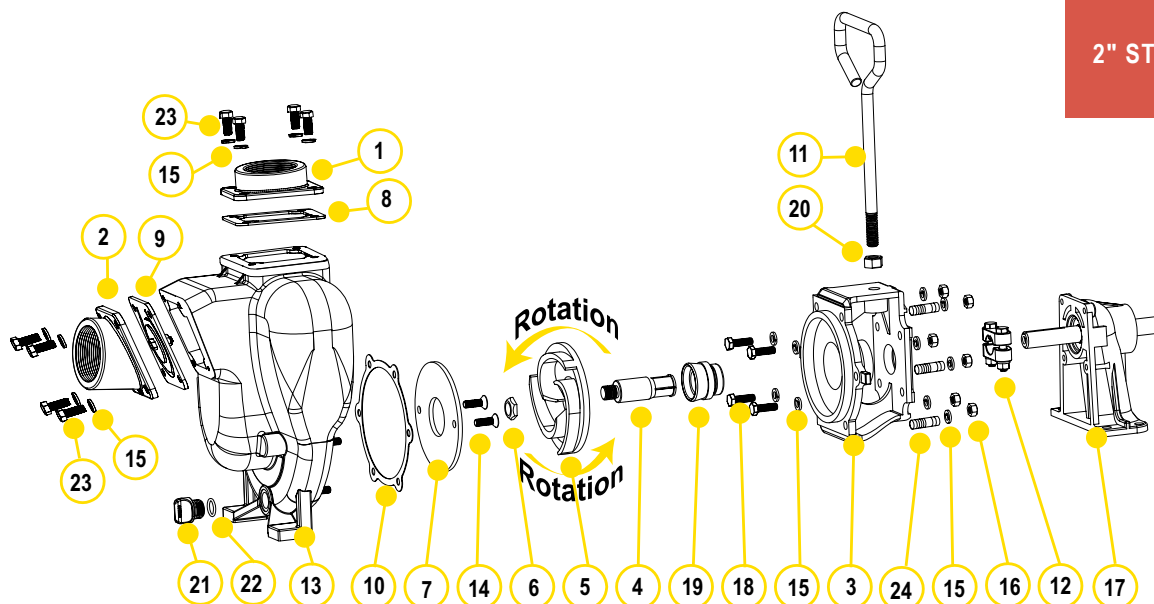


2" STAINLESS STEEL BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
200PB-SS	2" SS BEARING PEDESTAL W/ $\frac{3}{4}$ " STRAIGHT SHAFT*	N/A	1

CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS

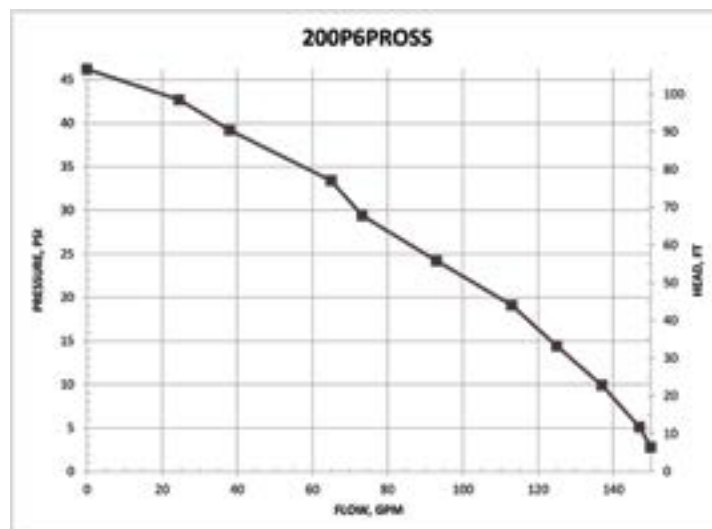


REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	1700SS	2" NPT SS OUTLET FLANGE	1
2	17002SS	2" NPT SS INLET FLANGE	1
3	17004SS	SS ADAPTER FOR GAS ENGINE	1
3	17046SS	CF ADAPTER FOR ELECTRIC MOTOR	1
4	17005	5/8" SS SLEEVE DRIVE	1
4	17006	3/4" SS SLEEVE DRIVE	1
4	17007	7/8" SS SLEEVE DRIVE	1
5	17008SS	SS IMPELLER	1
5	17008-4.1SS	4.1" SS IMPELLER	1
5	17008-4.6SS	4.6" SS IMPELLER	1
6	17009B	5/8" IMPELLER NUT	1
7	17011SS	SS WEAR PLATE	1
8	17014	FKM OUTLET GASKET	1
9	17017	FKM CHECK VALVE ASSEMBLY GASKET	1
10	17018	ADAPTER GASKET	1
11	15022	HANDLE	1
12	17023	5/8" CLAMP, 3/4" SS SHAFT (OLD STYLE)	1
12	17123	5/8" CLAMP, 3/4" SS SHAFT (KEYED CLAMP)	1
12	17024	7/8" CLAMP, 3/4" SS SHAFT	1
13	17026SS	SS PUMP HOUSING	1
14	17130SS	5/16-18 X 1.00" FHSCS, 316 SS	2
15	V10118	5/16" LOCK WASHER	18
16	V10119	5/16" -18 SS HEX NUT	6
17	12882A	BEARING PEDESTAL ASSEMBLY W/ 3/4" SHAFT	1
18	17040	BOLT	4
19	17035SS	FKM SS SEAL ASSEMBLY	1
20	17010	1/2" - 24 X 1" HHCS	1
21	12777SS	1/2" STAINLESS STEEL PLUG	1
22	UV15163V	O-RING FKM	1
23	17019	5/16" - 18 X 3/4" CAP SCREW	8
24	17042	STUD	6
KIT	17100SS	PUMP REPAIR KIT(CONSISTS OF 4,5,7,10,14,19)	1

KITS 2" STAINLESS STEEL PUMPS

PART NO	EPDM REPAIR KIT NO	EPDM SEAL KIT NO
200PH5-SS	17100SS	17035SS
200P6PROSS	17100SS	17035SS
200PB-SS	17100SS	17035SS
200PO-SS	17100SS	17035SS



CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS WITH ELECTRIC MOTORS

FEATURES

- Stainless steel construction for rugged dependable service
- Stainless steel shaft sleeve to protect engine shaft
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Due to weight and size of pumps, Banjo ships these by truck only.
- Motor warranty service available at authorized dealers
- Motor features include pressure cast aluminum end plates with ribbed design for rigidity, heavy gauge steel frame, 230 volt, with inverter spike resistance magnet wire



2" STAINLESS STEEL PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY
234PE3SS	2" STAINLESS STEEL PUMP W/3.0 HP THREE PHASE ELECTRIC MOTOR	3.0	1
234PE5SS	2" STAINLESS STEEL PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR	5.0	1
234PE51SS	2" STAINLESS STEEL PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR	5.0	1



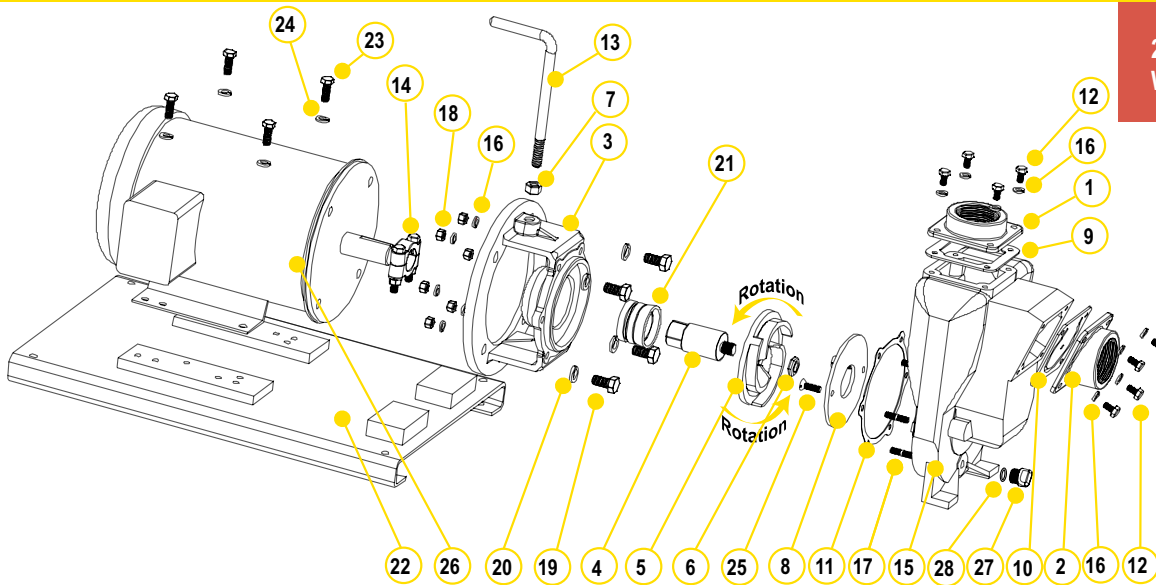
WARNING! DO NOT RUN PUMP
DRY, RESTRICT OR REDUCE
PORT SIZES OR DEAD HEAD
PUMP



WARNING! DO NOT USE WITH
FLAMMABLE LIQUIDS

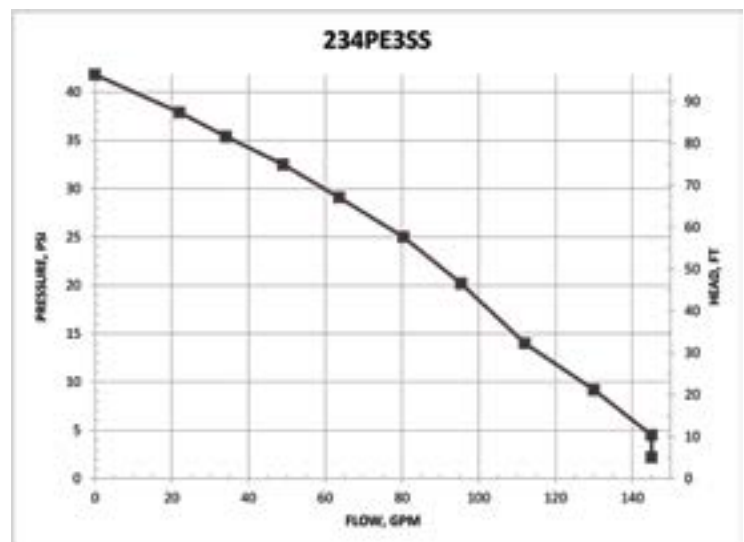
CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS
WITH ELECTRIC MOTORS



REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17000SS	2" NPT OUTLET FLANGE	1
2	17002SS	2" NPT INLET FLANGE	1
3	17046SS	C-FACE ADAPTER (234PE3SS)	1
3	17446SS	C-FACE ADAPTER (234PE5SS & 234PE51SS)	1
4	17007	IMPELLER SHAFT (234PE3SS)	1
4	17406	IMPELLER SHAFT (234PE5SS & 234PE51SS)	1
5	17008SS	IMPELLER	1
6	17009B	5/8" IMPELLER NUT	1
7	17010	1/2" HEX NUT	1
8	17011SS	WEAR PLATE	1
9	17014	FKM OUTLET GASKET	1
10	17017	FKM GASKET & CHECK VALVE	1
11	17018	ADAPTER GASKET	1
12	17019	BOLT	8
13	15022	HANDLE	1
14	17024	CLAMP ASSEMBLY W/KEY (234PE3SS)	1
15	17026SS	PUMP HOUSING	1
15	17026SS	PUMP HOUSING (234PE5SS & 234PE51SS)	1
16	V10118	5/16" LOCK WASHER	20
17	17042	HOUSING STUD	6
18	V10119	HEX NUT	8
19	17449	BOLT	4
20	18058	WASHER	4
21	17035SS	SEAL ASSEMBLY (234PE3SS)	1
21	18025SS	SEAL ASSEMBLY (234PE5SS & 234PE51SS)	1
22	17701	BASE PLATE ASSEMBLY	1
23	17704	BOLT	4
24	V20018	3/8" LOCK WASHER	4
25	17130SS	5/16-18 X 1.00" FHSCS, 316 SS	2
26	BEM5	ELECTRIC MOTOR	1
27	12777SS	1/2" STAINLESS STEEL PLUG	1
28	UV15163V	FKM O-RING	1



CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS WITH HYDRAULIC MOTORS

FEATURES

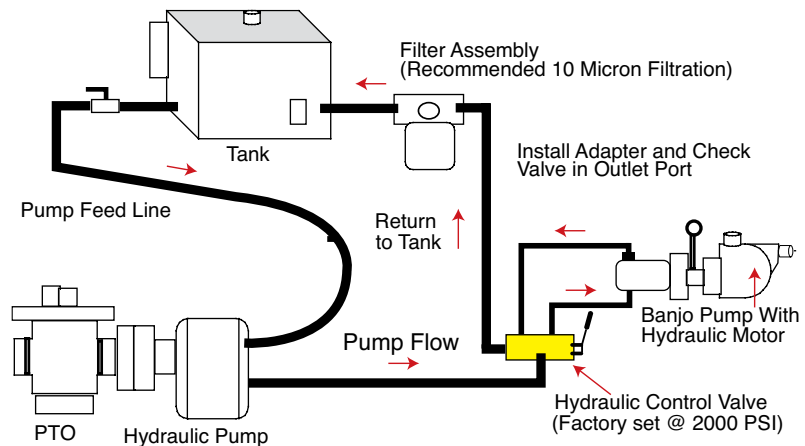
- Cast iron construction for rugged dependable service
- Stainless steel hardware
- FKM double seal contained in glycol reservoir
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Hydraulic fluid capacity is minimum 6 gallons and maximum 10 gallons
- Open or closed system
- 12 HP motor
- Recommendation to use the motor spool control valve or a suitable equivalent. The lack of such a valve in this circuit may cause failure to the hydraulic motor.



2" STAINLESS STEEL PUMPS W/ HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY
200PHYSS	2" STAINLESS STEEL PUMP W/ 12 HP HYDRAULIC MOTOR	12	1

SPOOL VALVE ASSEMBLY DIAGRAM



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

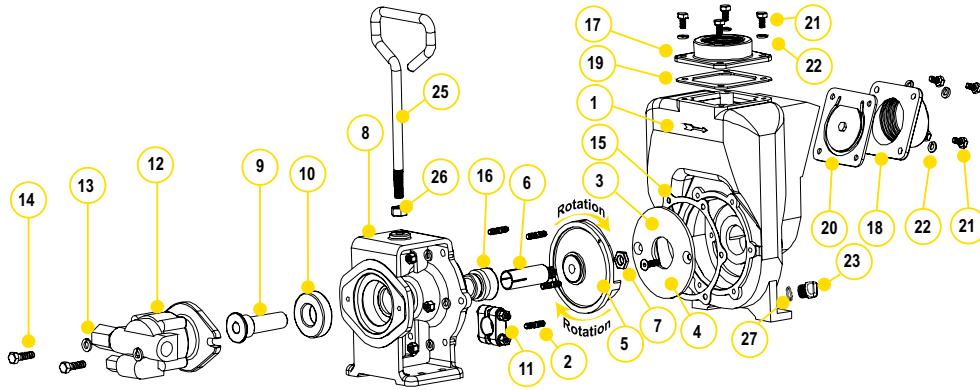


HYDRAULIC MOTOR SPOOL VALVE

PART NO	DESCRIPTION	HP	QTY
HSV1000	HYDRAULIC MOTOR SPOOL VALVE	N/A	1

CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS WITH HYDRAULIC MOTORS

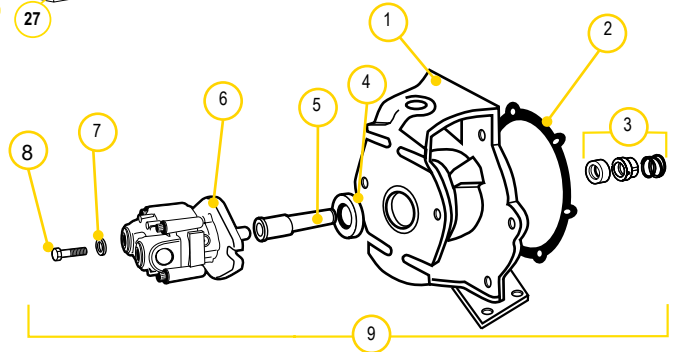


REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17026SS	PUMP HOUSING	1
2	17042	PUMP HOUSING STUD	6
3	17011SS	WEAR PLATE	1
4	17130SS	5/16-18 X 1.00" FHSCS, 316 SS	2
5	17008SS	5" IMPELLER	1
6	17007	7/8" SLEEVE DRIVE FOR ELECTRIC MOTOR	1
7	17009B	5/8" IMPELLER NUT	1
8	17049ASS	HYDRAULIC ADAPTER	1
9	17055A	HYDRAULIC ADAPTER SHAFT	1
10	17056	SKF 6206-2RS1 BEARING	1
11	17024	7/8" CLAMP, NO KEY	1
12	HY1013	MGG20025BC1D3 HYDRAULIC MOTOR ASSEMBLY	1
13	V20018	3/8" LOCK WASHER	2
14	18010SS	3/8" - 16 X 1.25" HHHCS	2
15	17018	GASKET ADAPTER	1
16	17035SS	FKM SEAL ASSEMBLY	1
17	17000SS	2" NPT OUTLET FLANGE	1
18	17002SS	2" NPT INLET FLANGE	1
19	17014	FKM GASKET	1
20	17017	GASKET CHECK VALVE ASSEMBLY	1
21	17019	5/16"-18 X 0.75" CAP SCREW	8
22	V10118	5/16" SPLIT LOCK WASHER	14
23	12777SS	1/2" STAINLESS STEEL PLUG	1
24	V10119	5/16"-18 HEX NUT	6
25	15022	HANDLE	1
26	17010	1/2" HEX NUT -13UNF-RH	1
27	UV15163V	O-RING FKM	1

REPLACEMENT PARTS 2" HYDRAULIC ADAPTER

ITEM	PART NO	DESCRIPTION	QTY
1	17049ASS	SS HYDRAULIC MOTOR ADAPTER	1
2	17018	GASKET ADAPTER	1
3	17035SS	SEAL ASSEMBLY	1
N/S	17007	7/8" SS SHAFT SLEEVE	1
N/S	12214A	SHIM	1
4	17056	SKF 6206-2RS1 BEARING	1
5	17055A	HYDRAULIC ADAPTER SHAFT	1
6	HY1013	GRESEN® HYDRAULIC MOTOR	1
7	V20018	LOCK WASHER	2
8	18010SS	BOLT	2



HYDRAULIC MOTOR DATA

U.S. GALLONS/REV.	0.0025
CUBIC INCHES/REV.	0.580
LITERS/REV.	0.0097
MAX HYDRAULIC PRESSURE	2000 PSI
MIN HYDRAULIC PRESSURE	200 PSI
INLET PORT	SAE 10 (7/8-14 UNF-2B)
OUTLET PORT	SAE 10 (7/8-14 UNF-2B)
MINIMUM GPM REQUIRED	6 GPM 2400 RPM
MAXIMUM GPM REQUIRED	10 GPM 4000 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

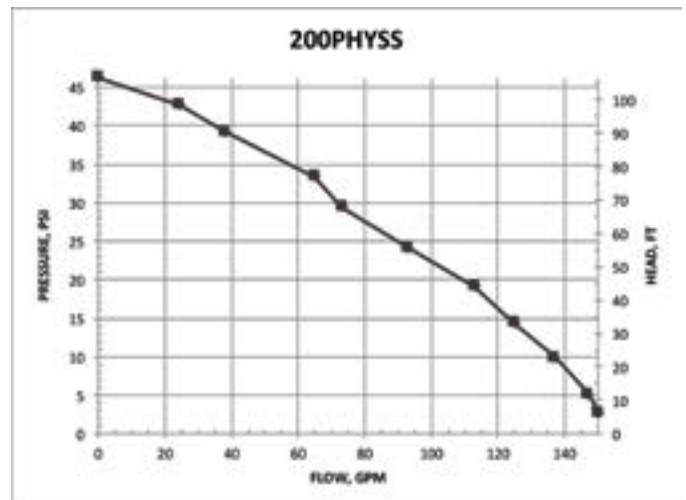
CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT

SUPPLIED CHECK VALVE IS TO ENSURE PROPER ROTATION OF THE BANJO PUMP. PLACE CHECK VALVE IN OUTLET PORT (MARKED "B") FOR PROPER RIGHT HAND ROTATION.

SPOOL VALVE INFORMATION

REQUIRED OUTLET FLOW	MIN 6 GPM / MAX 10 GPM
REQUIRED SYSTEM PRESSURE	MIN 500 PSI / MAX 2000 PSI



CENTRIFUGAL PUMPS

3" STAINLESS STEEL PUMPS

FEATURES

- 316 stainless steel housing and wettable internal components including impeller, sleeve, wear plate and fasteners
- Carbon ceramic seal with 316 stainless steel cup and spring with FKM elastomer
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Pump only packs complete and ready for attachment to gasoline engine
- Pedestal pump for long coupling to electric motor
- Recommendation for $\frac{5}{8}$ " shaft: 56C frame size, 3 HP, 3450 RPM & 5" max impeller for close coupling to electric motors
- Recommendation for $\frac{7}{8}$ " shaft: 145TC frame size, 3 HP, 3450 RPM & 5" max impeller for close coupling to electric motors
- Engine warranty service available at authorized dealers
- Due to weight and size of pumps, Banjo ships these by truck only.



WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



3" STAINLESS STEEL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY
300PH11-SS	3" SS PUMP W/11 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	11	1
300PH13SS	3" SS PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1

3" STAINLESS STEEL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
300PO-SS	3" SS PUMP ONLY W/ 1" SHAFT SLEEVE	N/A	1



3" STAINLESS STEEL C-FLANGE PUMPS

PART NO	DESCRIPTION	HP	QTY
300PO-SSCF	3" SS C-FLANGE PUMP W/ 1" SHAFT SLEEVE	N/A	1

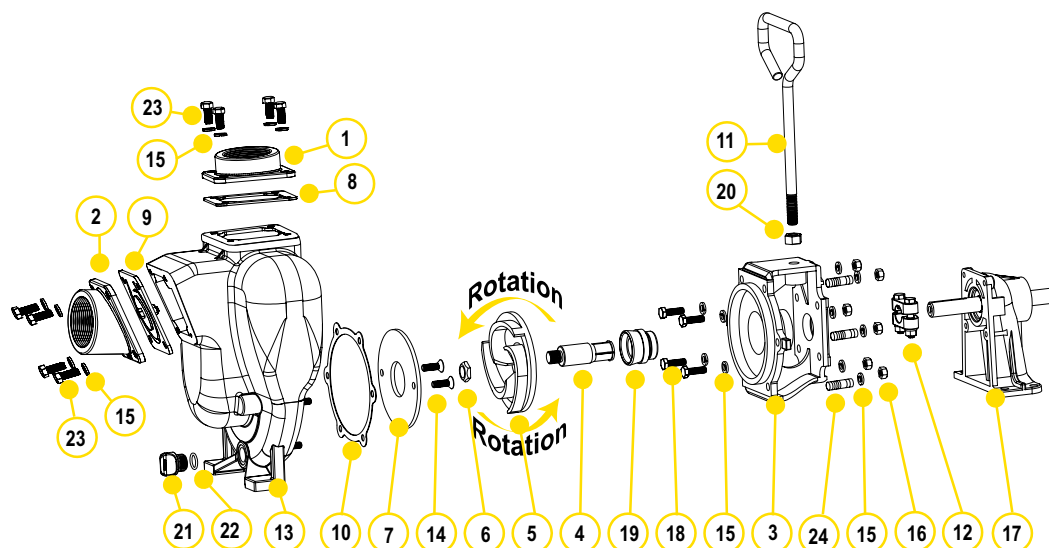


3" STAINLESS STEEL BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY
300PB-SS	3" SS BEARING PEDESTAL W/ 1" STRAIGHT SHAFT	N/A	1

CENTRIFUGAL PUMPS

3" STAINLESS STEEL PUMPS

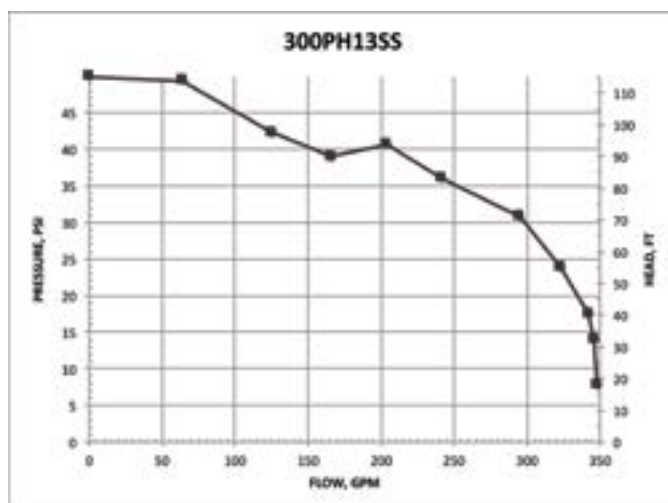


REPLACEMENT PARTS 3" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	18008SS	2" NPT OUTLET FLANGE	1
2	18012SS	2" NPT INLET FLANGE	1
3	18026SS	ADAPTER FOR GAS ENGINE	1
3	18048SS	SS C-FACE ADAPTER	1
4	13777SS	3/4" STAINLESS STEEL PLUG	1
5	18023SS	1" SS IMPELLER & DRIVE SHAFT FOR GAS ENGINE	1
5	18023-1125SS	1 1/8" SS IMPELLER & DRIVE SHAFT FOR ELECTRIC MOTOR	1
6	12777SS	1/2" STAINLESS STEEL PLUG	1
7	18034	5/8" SS JAM NUT	1
8	18004SS	SS WEAR PLATE	1
9	18044	FKM OUTLET GASKET	1
10	18042	FKM GASKET CHECKVALVE ASSEMBLY	1
11	18021	ADAPTER GASKET	1
12	18010SS	3/8" - 16 X 1 1/8" SS CAP SCREW HXHD	8
13	18033	HANDLE	1
14	18129	CLAMP ASSEMBLY	1
15	18001SS	SS PUMP HOUSING	1
16	18030	3/8" - 24 X 2 1/4" SS BOLT	2
17	18106SS	WEAR PLATE FLAT HEAD SCREW	2
18	V20018	3/8" LOCK WASHER	8
19	18032	3/8" X 24 SS HEX NUT	2
20	18504	1" SHAFT	1
21	18500	BEARING PEDESTAL	1
22	18027	3/8" - 16 X 1 1/2" HHCS	1
23	18025SS	FKM SEAL ASSEMBLY	1
24	V20019	3/8" 16 SS HEX NUT	6
25	V20018	3/8" SS LOCK WASHER	6
26	18218	3/8" - 16 X 24 X 2 1/8" SS STUD	1
27	13778V	O-RING FKM	1
28	UV15163V	O-RING FKM	1
KIT	18100SS	REPAIR KIT(CONSIST OF ITEMS 5, 8, 11, 17 & 23)	1

KITS 3" STAINLESS STEEL PUMPS

PART NO	EPDM REPAIR KIT NO	EPDM SEAL KIT NO
300PH11-SS	18100SS	18025SS
300PH13SS	18100SS	18025SS
300PB-SS	18100SS	18025SS
300PO-SS	18100SS	18025SS



REFERENCE

ENGINE/MOTOR REFERENCE

- Engine warranty service contact information:
- Briggs and Stratton® phone: 414-259-5262 www.briggsandstratton.com
- Honda® phone: 800-426-7701 www.honda.com

BRIGGS & STRATTON® ENGINES					
BANJO PART NO	E3	E6.5PRO	E6.5PROE	E11PROE	E23
MANUFACTURER	BRIGGS & STRATTON®	BRIGGS & STRATTON®	BRIGGS & STRATTON®	BRIGGS & STRATTON®	BRIGGS & STRATTON®
MODEL NO	91200	122032013738C1040	130G37-932941	2123320139B1G1032	386447-3048-G1
RATED HP	3.5 HP @ 3600 RPM	6.5 HP @ 3600	6.5 HP @ 3600 RPM	11 HP @ 3600	23.0 HP @ 3600 RPM
RATED TORQUE	4.9 FT-LBS @ 2800 RPM	9 FT-LBS @ 2800 RPM		15.50 FT-LBS @ 2800 RPM	
SHAFT SIZE	3/4" DIAMETER W/ 3/16" KEY WAY	3/4" DIAMETER W/ 3/16" KEY WAY	3/4" X 2 27/64", 3/16" KEY WAY	3/4" DIAMETER W/ 3/16" KEY WAY	1 1/8" X 4", 1/4" KEY WAY
SHAFT ID THREAD	5/16"-24 UNF 2B	5/16"-24 UNF 2B	5/16"-24 UNF	5/16"-24 UNF 2B	3/8" - 24 UNF
ENGINE OIL REQUIRED	SYNTHETIC 5W30	ABOVE 40°F: 30W BELOW 40°F: 5W30	ABOVE 40°F: 30W BELOW 40°F: 5W30	SYNTHETIC 10W30	ABOVE 40°F: 30W BELOW 40°F: 5W30
ENGINE OIL CAPACITY	21 OZ	20 OZ	20.0 OZ	28 OZ	48.0 OZ
FUEL REQUIRED	77	77	87	77	87
FUEL TANK CAPACITY	.50 GALLON	1 GALLON	0.825	1 GALLON	N/A
OIL ALERT	N	N	Y	N	N
ELECTRIC START	N	N	Y	N	Y
OVER HEAD VALVE	N	N	Y	N	Y

HONDA® ENGINES

BANJO PART NO	E5H	E5HE	E6H	E8H	E11H	E13H	E24H
MANUFACTURER	HONDA®	HONDA®	HONDA®	HONDA®	HONDA®	HONDA®	HONDA®
MODEL NO	GX160	GX160	GX200	GX240	GX340	GX390	GX690RTAF
RATED HP	5.4 HP @ 3600	5.4 HP @ 3600	6.4 HP @ 3600	8.0 HP @ 3600	11.0 HP @ 3600	13.0 HP @ 3600	22.1 HP @ 3600 RPM
RATED TORQUE	8.0 FT-LBS @ 2500 RPM	8.0 FT-LBS @ 2500 RPM	7.76 FT-LBS @ 2600 RPM	12.3 FT-LBS @ 2500 RPM	17.4 FT-LBS @ 2500 RPM	19.5 FT-LBS @ 2500 RPM	35.6 FT-LB @ 2500 RPM
SHAFT SIZE	3/4" DIAMETER W/ 3/16" KEY WAY	3/4" DIAMETER W/ 3/16" KEY WAY	3/4" DIAMETER W/ 3/16" KEY WAY	1" DIAMETER W/ 1/4" KEY WAY	1" DIAMETER W/ 1/4" KEY WAY	1" DIAMETER W/ 1/4" KEY WAY	1 1/8" X 4", 1/4" KEY WAY
SHAFT ID THREAD	5/16"-24 UNF 2B	5/16"-24 UNF 2B	5/16"-24 UNF 2B	3/8"-24 UNF 2B	3/8"-24 UNF 2B	3/8"-24 UNF 2B	7/16" - 20 UNF-2B
ENGINE OIL REQUIRED	10W30	10W30	10W30	10W30	10W30	10W30	10W30
ENGINE OIL CAPACITY	.63 QT	.63 QT	.63 QT	1.16 QT	1.16 QT	1.16 QT	2.1 QT
FUEL REQUIRED	86	86	86	86	86	86	86
FUEL TANK CAPACITY	.95 GALLON	.95 GALLON	.95 GALLON	1.59 GALLON	1.72 GALLON	1.72 GALLON	N/A
OIL ALERT	Y	Y	Y	Y	Y	Y	Y
ELECTRIC START	N	Y	N	Y	Y	Y	Y
OVER HEAD VALVE	Y	Y	Y	Y	Y	Y	Y

ELECTRIC MOTORS

BANJO PART NO	BEM5	BEM15
MANUFACTURER	BALDOR®	MARATHON®
MODEL NO	CEM3613T	215TTFW14010
RATED HP	5 HP	15 HP
SHAFT SIZE	1 1/8"	1 3/8"
DESCRIPTION	TEFC	TEFC
PHASE	3	3
RPM @ 60 HZ	3450	3450
NEMA FRAME SIZE	184TC	215TC
VOLTAGE	230/460	208-230/460
EFF@FULL LOAD	88.5	88.5

BRITISH PIPE THREAD

PART NO	DESCRIPTION	PAGE NO
DM100ABSS	1" STAINLESS STEEL MALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & ALL PTFE SEALS	60
DM100DBSS	1" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & FKM FACE SEAL	60
DM100DBSSE	1" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & EPDM FACE SEAL	60
DM100DBSST	1" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & KALREZ FACE SEAL	60
DM150AB	1½" POLY MALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & FKM FACE SEAL	56
DM150ABSS	1½" STAINLESS STEEL MALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & ALL PTFE SEALS	61
DM150DB	1½" POLY FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD	56
DM150DBSS	1½" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & FKM FACE SEAL	61
DM150DBSSE	1½" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & EPDM FACE SEAL	61
DM200AB	2" POLY MALE DRY MATE WITH BRITISH STANDARD PIPE THREADS & FKM FACE SEAL	57
DM200ABSS	2" STAINLESS STEEL MALE DRY MATE WITH BRITISH STANDARD PIPE THREAD	62
DM200DB	2" POLY FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREADS & FKM FACE SEAL	57
DM200DBSS	2" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & FKM FACE SEAL	62
DM200DBSSE	2" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & EPDM FACE SEAL	62
DM200DBSST	2" STAINLESS STEEL FEMALE DRY MATE WITH BRITISH STANDARD PIPE THREAD & KALREZ FACE SEAL	62
DM220ABSS	2" MALE X BSP THREADS W/PTFE SEALS	63
DM220DBSS	2" FP FEMALE X BSP THREADS	63
DM220DBSSE	2" FP FEMALE X BSP THREADS W/EPDM SEALS	63
M100BSP	1" MANIFOLD FLANGE X 1" MALE BRITISH STANDARD PIPE THREAD	46
M200BSP	2" MANIFOLD FLANGE X 2" MALE BRITISH STANDARD PIPE THREAD	46
M220BSP	2" FULL PORT MANIFOLD FLANGE X 2" MALE BRITISH STANDARD PIPE THREAD	46
M300BSP	3" FULL PORT MANIFOLD FLANGE X 3" MALE BRITISH STANDARD PIPE THREAD	46
NIP2101	2" NPT X BRITISH STANDARD PIPE THREAD-WHITE	66

REFERENCE

PART NO	PAGE(S)	WEIGHT
12046	107, 137	1
12052	107	0.5
12099	103, 107, 117, 119, 135, 137	0.066
12155	105, 113, 115, 125	1.186
12705	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 139, 149, 151	0.258
12709	105, 113, 115, 123, 125, 139, 149, 151	N/A
12710	103, 107, 109, 111, 117, 119, 121, 135, 137	0.01
12713	103, 107, 109, 111, 117, 121	0.11
12716	103, 111, 117, 119, 135	0.02
12717	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 149, 151	N/A
12720	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.032
12723	95	0.006
12724	95	N/A
12725	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.002
12733	119	0.11
12754	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.002
12756	107, 137	1.438
12766	105, 113, 115, 125, 139	0.076
12772	103, 105, 107, 109, 111, 113, 115	0.2
12777	51, 91, 95, 103, 105, 107, 109, 113, 115, 123, 125, 127, 129, 131, 133, 139, 141, 143, 145, 149, 151	0.012
12884	127	0.01
12900	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.008
12901	103, 107, 109, 111, 117, 119, 121, 135, 137, 149, 151	0.004
13000	117, 119, 121	0.738
13034	105, 113, 115, 123, 125, 149	N/A
13055	123, 125, 149, 151	0.674
13702	117, 119, 121, 123, 125	1.424
13712	117, 121, 123	4.018
13719	105, 113, 115, 123, 125, 139, 149, 151	0.012
13765	117, 119, 147	0.05
13766	123, 149	0.084
13771	117, 119, 121	0.204
13772	117, 119, 123, 125	0.218
13777	53, 99, 117, 119, 121, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153	0.024
13778	53, 99, 117, 119, 121, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153	0.002
13999	117, 119, 121	0.266
14766	125	0.142
15000	135, 137	2.244
15022	127, 129, 131, 133, 135, 137, 155, 157, 159	1.124
15025	147	0.35
15035	115, 123	0.35
15055	139	0.75
15702	135, 137, 139	9.086
15703	135, 137	14.978
15712	135, 137	26.082
15751	117, 119, 135, 137	0.014
15752	135, 137	0.002

PART NO	PAGE(S)	WEIGHT
15772	135, 137, 139, 149	1.75
15999	135, 137	0.282
16000	153	6.424
16001	147	4.808
16002	153	5.59
16003	147	5.688
16011	147, 153	0.098
16019	147, 153	0.068
16099	147, 153	0.25
16702	147, 153	11
16704	147	41.5
16706	147, 153	0.77
16707	153	42
16710	147	0.01
16712	153	58
16713	147	0.2
16733	147	55
16751	147, 153	0.024
16752	147, 153	0.02
16765	147, 153	0.07
16773	147	4.452
16774	147	2.75
16775	153	0.03
16901	123, 125, 147, 149, 151, 153	0.03
17000	129, 131, 135	1.47
17001	127	1.38
17002	129, 131	2.01
17003	127	1.7
17004	127	6.5
17005	127, 155	0.35
17006	127, 155	0.25
17007	127, 131, 133, 155, 157, 159	0.24
17008	127, 131, 133	2
17010	127, 129, 131, 133, 135, 137, 145, 155, 157, 159	0.04
17011	127, 131	0.85
17013	127, 129, 131, 135	0.03
17014	155, 157, 159	0.03
17016	127, 129, 131	0.03
17017	155, 157, 159	0.25
17018	127, 129, 131, 133, 155, 157, 159	0.01
17019	127, 129, 131, 135, 155, 157, 159	0.02
17023	127, 155	0.32
17024	127, 131, 133, 155, 157, 159	0.32
17026	127, 131, 133	24
17028	127	0.16
17029	149	4.25
17032	129	0.04
17033	127, 135	1.5
17034	135	0.02
17035	127, 131, 133	0.18
17040	127, 155	0.03
17042	127, 131, 155, 157, 159	0.03

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17046	127, 131	7.4
17056	121, 133, 159	0.43
17100	127	4
17123	127, 129, 155	0.32
17130	127, 131	0.03
17202	129	3.82
17208	129	2
17226	129	29
17235	129	0.35
17242	129	0.25
17406	131, 157	0.38
17408	131	2
17446	131	18
17449	131, 151, 157	0.125
17701	107, 131, 137, 157	29.5
17704	107, 131, 137, 141, 143, 147, 153, 157	0.5
17901	147	0.1
18001	141, 143, 145	65.65
18004	141, 143, 145	1.53
18008	141, 143, 145	3.5
18009	141, 143, 145	0.03
18012	141, 143, 145	3.15
18013	141, 143, 145	0.5
18021	141, 143, 145, 161	0.21
18023	141, 145	4.35
18025	131, 141, 145	0.39
18026	141	9.6
18027	147, 153, 161	0.09
18029	141, 145	0.63
18030	141, 161	0.07
18032	141, 161	0.03
18033	139, 141, 143, 145, 147, 149, 151, 153, 161	1.25
18034	139, 141, 143, 145, 147, 149, 151, 153, 161	0.1
18035	141	2.75
18042	161	0.5
18044	161	0.02
18048	141	14
18049	141, 145	20.6
18055	141, 145	0.75
18056	145	0.1
18058	131, 145, 151, 157	0.03
18059	145	0.03
18100	141, 145	7.2
18106	141, 143, 145	0.07
18129	131, 141, 143, 161	0.57
18206	143	4.8
18218	141, 143, 145, 161	0.04
18435	153	1
18500	141, 143, 147, 161	13
18502	141, 145, 151	3.4
18504	141, 161	1.82

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
18511	147	N/A	125A	77	0.098	150BSS	75	1.38
18512	147	0.06	125B	77	0.3	150C	77	0.57
18600	145	N/A	125C	77	0.29	150C90	80	0.62
18700	101	3	125D	77	0.31	150CAP	77	0.54
19702	149, 151	9.01	125E	77	0.11	150CAP/SS	75	1.28
19766	151	0.1	125F	77	0.98	150CSS	75	1.54
050C	76	0.14	12600B	109, 121, 135	14	150D	77	0.59
050D	76	0.16	12702A	103, 105, 107, 109, 111, 113, 115	1.13	150D90	80	0.65
050E	76	0.05	12703A	103, 107, 109, 111, 117, 119, 121	2.07	150DSS	75	1.55
050F	76	0.06	12703AW	123, 125	2.792	150E	77	0.21
075ASS	74	0.27	12705V	103, 107, 123	0.24	150ESS	75	1.23
075BSS	74	0.49	12707W	105, 113, 115, 125	2.788	150F	77	0.21
075C	77	0.15	12709V	123	N/A	150F90	80	0.27
075CAP	76, 77, 78	0.13	12710V	103, 107	0.01	150FSS	75	1.41
075CAP/SS	74	0.49	12712A	103, 105, 107, 109	3.25	150G	49, 71, 79	0.3
075CSS	74	0.54	12712AV	107	3.25	150GV	49, 71, 75, 79	0.3
075D	77	0.15	12713SD	135, 137	0.1	150PL	77	0.16
075D3/8	76	0.17	12713V	107, 135, 137	0.12	150PL/SS	75	0.76
075DSS	74	0.5	12715A	103, 109, 111, 117, 119, 121, 135, 137, 139, 149, 151	0.046	150POICF5/8-4.1	126	47
075E	77	0.06	12717V	103, 107, 123	0.01	150POICF7/8	126	47
075ESS	74	0.42	12719A	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 125, 135, 137, 139, 149, 151	0.046	150RING	75, 79	0.026
075F	77	0.06	12719AV	103, 107	0.05	150SHM	79	N/A
075FSS	74	0.37	12733V	103	N/A	15201W	139	8.895
075PL/SS	74	0.17	12754V	103, 107, 123	0.01	15703W	139	18.428
100125CAP	77	0.27	12765A	103, 107, 109, 111, 117, 119, 121, 135, 137	0.05	15999V	135, 137	0.288
100125PL	77	0.06	12771A	103, 111	0.23	16704A	147	41.5
100A	77	0.09	12775A	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123	0.03	16773A	147	3
100ASS	74	0.32	12777SS	155, 157, 159, 161	N/A	17000SS	155, 157, 159	1.57
100B	77	0.29	12882A	103, 117, 119, 127, 129, 135, 139, 155	7.6	17002SS	155, 157, 159	2.32
100BSS	74	0.71	12883B	127	0.146	17004SS	155	7
100C	77	0.27	12902A	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 139, 149, 151	0.006	17008-4.1	127	1.81
100CAP/SS	74	0.66	12999A	103, 107, 109, 111	0.25	17008-4.1SS	155	2
100CSS	74	0.73	12999AV	103, 107, 111	0.32	17008-4.6	127	1.9
100D	77	0.31	13155M	123	N/A	17008-4.6SS	155	1.88
100DSS	74	0.75	13719V	123	N/A	17008SS	155, 157, 159	2
100E	77	0.1	13777SS	161	N/A	17009B	127, 129, 131, 133, 155, 157, 159	0.02
100ESS	74	0.58	13778V	161, 93	0.002	17011SS	155, 157, 159	0.82
100F	77	0.11	150(200)K	79	0.13	17026SS	155, 157, 159	32.6
100FSS	74	0.58	15000V	135, 137	2.364	17035SD	127	0.13
100G	71, 79	0.2	150125A	77	0.19	17035SS	155, 157, 159	0.18
100GV	71, 75, 79	0.2	150125B	77	0.26	17046SS	155, 157	8.8
100PL/SS	74	0.27	150125C	77, 78	0.27	17049A	133	10.85
100RING	75, 79	0.012	150125D	77	0.31	17049ASS	159	12.75
100SHM	79	N/A	150125E	77	0.16	17055A	133, 159	1.75
12000A	103, 107, 109, 111	0.75	150125F	77	0.18	17056E	109, 115	2
12000AV	103, 107, 111	0.9	15035E	105, 113, 123, 125, 139, 143, 149, 151	0.386	17100SS	155	3.75
12049E	109, 115, 121	8.118	150A	77	0.18	17130SS	155, 157, 159	0.02
12055B	121	0.5	150A90	80	0.24	17200A	129	20.6
12055E	109, 115	0.566	150ASS	75	0.75	17201A	129	31.6
12201W	123, 125	1.458	150B	77	0.57	17206A	129	0.55
12202W	105, 113, 115, 125	1.464				17446SS	157	18
12214A	159	0.022				18001SS	161	57.5

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18004SS	161	1.65	200P6PROSS	154	95	222PBI	134	70
18008SS	161	4	200P6PROV	102	48	222P16PRO	134	100
18010SS	109, 115, 121, 133, 141, 143, 145, 159, 161	0.03	200P6PROW	104	48	222PIE5	136	180
18012SS	161	4.35	200PB	102	15.786	222PIE51	136	190
18023-1.125	141	4.07	200PB-SS	154	52	222PIH5	134	103
18023-1.125SS	161	4.25	200PB-V	102	18	222PIH5E	134	110
18023SS	161	4.32	200PBI	126	56	222PIH6	134	110
18025SD	141, 145	0.32	200PBW	104	22	222PIHY	134	75
18025SS	157, 161	0.25	200PEO	106	9.35	222POI	134	60
18026SS	161	10	200PH-5	102	50	225POI	134	60
18048SS	161	17	200PH-5E	102	56	231MPT	68	0.074
18055H	151	0.75	200PH-5ERC	102, 4	N/A	231MPTBN	68	0.08
18100SS	161	7.5	200PH-5RC	102, 4	N/A	234PE3SS	156	145
18106SS	161	0.02	200PH-5V	102	48	234PE51SS	156	180
18135A	149	N/A	200PH5-SS	154	105	234PE5SS	156	185
18135B	149	N/A	200PH5W	104	53	234PIE3	130	140
18200A	143	31.6	200PH6	102	51.2	234PIE5	130	160
18202A	143	5	200PHA	108	25	234PIE51	130	200
18203A	143	13.2	200PHY	108	21.308	234POI	130	54
19001H	151	N/A	200PHYSS	158	52	234PPE5	106	135
19201W	149, 151	10	200PHYW	108	N/A	234PPE51	106	142.8
19703W	149, 151	17.3	200PI-3	126	81	234PPE51V	106	145
19772SS	149, 151	N/A	200PI6PRO	126	90	234PPE5V	106	123
200150C	78	0.67	200PIH-5	126	105	250CAP	78	0.68
200A	78	0.3	200PIH5E	126	82	250PL	78	0.42
200A90	80	0.45	200PIHA	132	50	300A	79	0.48
200ASS	75	0.99	200PL	78	0.21	300ASS	75	1.91
200B	78	0.64	200PL/SS	75	0.99	300B	79	1.17
200B90	80	0.948	200PO	102	7.286	300BSS	75	3.3
200BSS	75	1.85	200PO-SS	154	47	300C	79	1.4
200C	78	0.69	200PO-V	102	10	300CAP	79	1.07
200C90	80	0.78	200POI	126	52.5	300CAP/SS	75	3.61
200CAP	68, 78	0.6	200POICF5/8	126	47	300CSS	75	5.06
200CAP/SS	75	1.69	200POICF7/8	126	47	300D	79	1.19
200CAPSH	68, 78	0.57	200POICF7/8-4.6	126	47	300DSS	75	4.54
200CSS	75	1.494	200POSSCF5/8	154	47	300E	79	0.78
200D	78	0.66	200POSSCF7/8	154	90	300ESS	75	4.62
200D90	80	0.88	200SBS	101	0.25	300F	79	0.57
200DSS	75	1.278	200SHM	79	N/A	300F200F	78	0.606
200E	78	0.29	201B	78	0.71	300FF	78	0.638
200ESS	75	2.06	201CAPSH	68	0.566	300FSS	75	3.81
200F	78	0.31	201FPT	68	0.03	300G	49, 71, 79	0.06
200F45	80	0.35	201PBIW	128	58	300GV	49, 71, 75, 79	0.06
200F90	80	0.42	201PI6PROW	128	98	300K	79	0.23
200FF	78	0.35	201PIH5W	128	94	300K6	75	0.23
200FSS	75	1.55	201POIW	128	59	300P11PRO	116	81
200G	49, 71, 79	0.02	202CAP	68	0.26	300P11PROW	122	67
200GB	75	0.02	205PB	102	16	300PB	116	20
200GV	49, 71, 75, 79	0.03	205PB-V	102	16	300PB-SS	160	100
200P6PRO	102	50	205PO	102	9	300PBI	140	125
200P6PROE	102	N/A	205PO-V	102	9	300PBW	122	26
200P6PRORC	102, 4	N/A	211FPT	68	0.03	300PH-6	116	50

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300PH11-SS	160	150	75A1/2	76	0.07	BF150BD	70	1.25
300PH11W	122	102.6	75A1/2/SA	80	0.07	BF200	69	1.07
300PH13SS	160	150	75A1/4	76	0.08	BF200BD	70	1.2
300PH13W	122	102.8	75A1/4/SA	80	0.08	BF200GE	69, 70	0.05
300PH6W	122	56	75A3/4	77	0.05	BF200GV	70	0.05
300PHY	120	26	75A3/4/SA	80	0.05	BF200GV	69, 70	0.05
300PHYW	120	N/A	75A3/8	76	0.07	BF200V	69	1.07
300PIH-11	140	192	75A3/8/SA	80	0.07	BF207	151	0.125
300PIH-8	140	195	75B1/2	76, 80	0.14	BF220	69	1.45
300PIH13	140	210	75B3/4	77, 80	0.14	BF220BD	70	1.5
300PIHY	144	140	75G	79	0.1	BF220GE	69, 70	0.02
300PL	79	0.43	75GV	75, 79	0.1	BF220GV	69, 70	0.08
300PL/SS	75	1.98	75PL	76, 77, 78	0.05	BF220V	69	0.06
300PO	116	12	75SHM	79	N/A	BF300	69	2.13
300PO-SS	160	115	A204	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 139, 149, 151	N/A	BF300BD	70	2.25
300PO-SSCF	160	97	A204V	103, 107, 123	N/A	BF300GE	69, 70	0.2
300POI	140	106	AF100	73	0.3	BF300GFE	70	0.02
300SBS	101	0.25	AF100G	73	0.06	BF300GV	69, 70	0.1
300SHM	79	N/A	AF100GV	73	0.06	BM1070	123	N/A
301PBIW	142	135	AF150	73	0.43	CAP050	84	0.06
301PIH13W	142	218	AF150G	73	0.08	CAP075	84	0.05
301POIW	142	130	AF150GV	73	0.08	CAP100	84	0.09
301POWV	122, 5	N/A	AF200	73	0.62	CAP125	84	0.13
303B	79	1.634	AF200G	73	0.17	CAP150	84	0.12
303B200A	79	1.554	AF200GV	73	0.17	CAP200	84	0.25
303C	79	1.66	AF300	73	1.17	CAP300	84	0.57
333PBI	146	185	AF300G	73	0.17	CPLG025	83	0.03
333PIE15	146	242	AF300GV	73	0.17	CPLG038	83	0.03
333PIH13	146	285	AF400	73	1.54	CPLG050	83	0.09
333POI	146	120	AF400G	73	0.45	CPLG075	83	0.11
333POICF	146	190	AF400GV	73	0.45	CPLG100	83	0.13
400A	79	1.31	AFB200	73	0.69	CPLG125	83	0.19
400ASS	75	3.7	AFB300	73	1.38	CPLG150	83	0.3
400B	79	2.03	AFB400	73	1.95	CPLG200	83	0.34
400BSS	75	5.26	BC090	82	0.06	CPLG300	83	0.82
400C	79	2.39	BC114	82	0.05	CR025	84	0.04
400CAP	79	1.44	BEM5	131, 157	95	CR038	84	0.05
400CAP/SS	75	5.11	BEM5-182CZ	137	95	CR050	84	0.13
400CSS	75	6.74	BEM51-182CZ	137	95	CR075	84	0.35
400D	79	2.07	BF075	69	0.82	CR100	84	0.27
400DSS	75	6.96	BF075BD	70	0.88	CR125	84	0.73
400E	79	2.11	BF075BDV	70	0.85	CR150	84	0.74
400ESS	75	6.53	BF100	69	0.82	CR200	84	0.75
400F	79	1.47	BF100BD	70	0.9	CTS200AR	64	0.66
400FSS	75	6.27	BF100GE	69, 70	0.07	CTS200D	64	0.86
400G	79	0.06	BF100GRE	70	0.01	CV050	16	0.27
400GV	75, 79	0.19	BF100GRV	70	0.01	CV100	16	N/A
400PL	79	1.11	BF100V	69	0.8	CV100MT	16	0.18
400PL/SS	75	3.42	BF107	107, 137	0.1	CV10175	105, 113, 115, 123, 125, 139, 149, 151	0.2
400SHM	79	N/A	BF125	69	0.82	CV10175V	123	N/A
444PIH24	152	345	BF150	69	1.17	CV221	16	N/A
444POI	152	90						

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CV300	16	1.45	DM200DBSSE	62	6.9	DM35294	59	N/A
DB20153M	56, 57	0.5	DM200DBSST	62	6.9	DMMT201A	57	2.5
DB20290	56, 57	0.125	DM200DCF	39	2.75	DMMT201AE	57	2.5
DM100ABSS	60	3.5	DM200DE	57	3	DPCF100	55	0.5
DM100ASS	60	3.5	DM200DSS	62	6.9	DPCM100	55	0.25
DM100CAP	60	0.2	DM200DSSE	62	6.9	DPCMT100	55	0.27
DM100DBSS	60	3.75	DM200DSST	62	6.9	EL025-90	85	0.03
DM100DBSSE	60	3.75	DM200DT	57	2.75	EL038-90	85	0.04
DM100DBSST	60	3.75	DM200PL	56, 57	0.43	EL050-90	85	0.07
DM100DSS	60	3.75	DM20153F	56, 57	0.25	EL075-90	85	0.1
DM100DSSE	60	3.75	DM20153M	56, 57	0.32	EL100-45	85	0.14
DM100DSST	60	3.75	DM201SS	61, 62	1.24	EL100-90	85	0.15
DM100PL	60	0.25	DM20200A	56, 57	0.25	EL125-90	85	0.23
DM101SS	60	0.57	DM20200D	56, 57	0.27	EL150-90	85	0.33
DM10294A	60	0.02	DM20294A	56, 57, 61, 62	0.03	EL200-90	85	0.44
DM10295A	60	0.02	DM20295A	56, 57, 61, 62	0.03	EL300-90	85	1.21
DM10296	60	0.1	DM20296	56, 57, 61, 62	0.125	EV075	19	4.94
DM102SSE	60	0.5	DM202SSE	61, 62	1.25	EV075BL	23	4.96
DM102SST	60	0.125	DM202SST	61, 62	1.3	EV075BLXR1	23	4.2
DM102SSV	60	0.57	DM202SSV	61, 62	1.32	EV075SL	23	4.94
DM150A	56	2.2	DM220A	58	N/A	EV075SLXR1	23	4.2
DM150AB	56	2.2	DM220AB	4, 58	N/A	EV075XR1	19	4.2
DM150ABE	56	2.2	DM220ABSS	63	N/A	EV100BL	23	4.5
DM150ABSS	61	6.3	DM220ASS	63	N/A	EV100BLXR1	23	4.2
DM150ABT	56	2.2	DM220CAP	58, 63	1	EV100FP	19	4.94
DM150AE	56	2.75	DM220D	58	N/A	EV100SL	23	4.5
DM150ASS	61	6.35	DM220DB	4, 58	N/A	EV100SLXR1	23	4.2
DM150AT	56	2.2	DM220DBSS	63	7	EV100XR1	19	4.2
DM150D	56	2.75	DM220DSS	63	9.8	EV10210	19, 23, 28, 29, 31, 32	0.25
DM150DB	56	2.2	DM220DSSE	63	9.8	EV125	19	4.88
DM150DBE	56	2.2	DM220DSST	63	9.8	EV125XR1	19	1.39
DM150DBSS	61	6.9	DM220PL	63	1	EV150	20	6.36
DM150DBSSE	61	6.9	DM221PL	58	N/A	EV150BL	23	6.36
DM150DBT	56	2.2	DM221SS	63	0.45	EV150BLXR1	23	5
DM150DE	56	2.82	DM222SS	63	0.47	EV150SL	23	6.48
DM150DSS	61	6.9	DM25153F	58	N/A	EV150SLXR1	23	5
DM150DSSE	61	6.9	DM25153M	58	N/A	EV150XR1	20	5
DM150DSST	61	6.9	DM25200	58	N/A	EV200	20	6.41
DM150DT	56	2.2	DM25294	63	N/A	EV200BL	23	6.41
DM200A	57	2.2	DM25294E	63	N/A	EV200BLXR1	23	5
DM200AB	57	2.2	DM25294T	63	N/A	EV200SL	23	8.85
DM200ABSS	62	6.2	DM300ABFP	59	N/A	EV200SLXR1	23	5
DM200ACAP	61, 62	1	DM300ACF	39	N/A	EV200XR1	20	5
DM200ACF	39	3.15	DM300AFP	59	4.8	EV20210	20, 23, 28, 29, 31, 32	0.3
DM200AE	57	2.75	DM300CAP	59	N/A	EV204BLFP	24	8.06
DM200APL	61, 62	0.5	DM300DBFP	59	8.4	EV204BLXR1	24	6
DM200ASS	62	6.2	DM300DCF	39	8.4	EV204FP	21	8.85
DM200AT	57	2.2	DM300DFP	59	8.4	EV204SLFP	24	4.5
DM200CAP	56, 57	0.5	DM300PL	59	1	EV204SLXR1	24	6
DM200D	57	2.75	DM35153F	59	N/A	EV204XR1	21	5
DM200DB	57	2.2	DM35153M	59	N/A	EV25210	21, 24, 28, 29, 31, 32	0.45
DM200DBSS	62	6.9	DM35200	59	N/A	EV300FP	22	12

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EV300FP110	22	N/A	HB050/075-90	86	0.04	HB025	87	0.03
EV300XR1A	22	N/A	HB050SS	86	0.13	HB038	87	0.03
EV3300	19, 23, 28, 29, 31, 32	N/A	HB075	86	0.04	HB050	87	0.03
EV35210	22, 30	N/A	HB075-038	86	0.03	HB050-038	87	0.02
EV4300	20, 21, 23, 24, 28, 29, 31, 32	N/A	HB075-050	86	0.03	HB050-075	87	0.03
EVR075	19	4.5	HB075-050SS	86	0.2	HB075	87	0.05
EVR100FP	19	4.5	HB075-058	86	0.04	HB075-050	87	0.04
EVR125	19	6.48	HB075-100	86	0.05	HB075-050SS	87	0.246
EVR150	20	6.48	HB075-100SS	86	0.25	HB075-100	87	0.06
EVR204FP	21	7	HB075-90	86	0.05	HB075-100	87	0.07
EVR3300	19, 28, 29, 32	N/A	HB075/050-90	86	0.04	HB075-100	87	0.06
EVR4300	20, 21, 28, 29, 32	N/A	HB075/100-90	86	0.05	HB075-100	87	0.08
FC100	19, 20, 21, 23, 24, 28, 29, 31, 32, 49	0.25	HB075SS	86	0.2	HB075-100	87	0.21
FC200	49	0.23	HB100	86	0.06	HB075-100	87	0.23
FC220	41, 49	0.25	HB100-075	86	0.06	HB075-100	87	0.4
FC220B	49	1.37	HB100-075SS	86	0.3	HB075-100	87	1.15
FC220TB	49	0.43	HB100-125	86	0.08	HM025	87	0.03
FC300	41, 49	0.34	HB100-90	86	0.07	HM038	87	0.03
FC300B	49	1.76	HB100/075-90	86	0.06	HM050	87	0.01
FC300TB	49	0.52	HB100/125-90	86	0.1	HM075	87	0.02
FM100	42	2.75	HB100SS	86	0.3	HM100	87	0.04
GHFT075A	81	0.06	HB125	86	0.1	HM125	87	0.07
GHFT075D	81	0.17	HB125-075	86	0.08	HM150	87	0.08
GHFT075MPT	81	0.04	HB125-100	86	0.09	HM200	87	0.22
GHMT075B	81	0.14	HB125-150	86	0.1	HM300	87	0.73
GHMT075F	81	0.05	HB125-90	86	0.11	HSV1000	108, 114, 120, 132, 144, 150, 158	11
GHMT075FPT	81	0.04	HB125/100-90	86	0.09	HV200	40	0.58
GHMT075MPT	81	0.04	HB125/150-90	86	0.09	HY1001	145	1.5
GHN075	81	0.6	HB125SS	86	0.5	HY1003	109, 121	1.5
HB025	86	0.01	HB150	86	0.13	HY1012	145, 151	13.2
HB025-038	86	0.01	HB150-100	86	0.09	HY1013	109, 121, 159	4.5
HB025-038SS	86	0.07	HB150-125	86	0.1	HY10131	115	N/A
HB025-050	86	0.01	HB150-200	86	0.19	HY10132	115	N/A
HB025-050SS	86	0.07	HB150-90	86	0.23	LEV025PL	18	N/A
HB025-90	86	0.01	HB150/125-90	86	0.16	LEV025PLST	18	N/A
HB025/038-90	86	0.01	HB150SS	86	0.75	LEV038	18	0.55
HB025/050-90	86	0.02	HB200	86	0.2	LEV038PL	18	0.08
HB025SS	86	0.04	HB200-150	86	0.27	LEV038PLST	18	0.662
HB038	86	0.01	HB200-90	86	0.33	LEV050	18	0.6
HB038-025	86	0.02	HB200/150-90	86	0.22	LEV050PL	18	N/A
HB038-050	86	0.02	HB200SS	86	1.13	LS050-20	94	0.35
HB038-050SS	86	0.1	HB300	86	0.7	LS050-40	94	0.35
HB038-90	86	0.02	HB300-90	86	1.05	LS050-60	94	0.35
HB038SS	86	0.09	HB300SS	86	3.55	LS050-80	94	0.37
HB050	86	0.03	HB400	86	1.6	LS050-B	95	0.22
HB050-025	86	0.03	HBB20012590	85	0.25	LS050B/C1	95	0.98
HB050-038	86	0.02	HBC050075	84	0.05	LS075-20	94	0.3
HB050-058SS	86	0.14	HBEL100-90	85	0.05	LS075-40	94	0.33
HB050-075	86	0.03	HBEL150/100-90	85	0.19	LS075-60	94	0.35
HB050-075SS	86	0.2	HBFO75	86	0.06	LS075-80	94	0.35
HB050-90	86	0.03	HBFO75-100	86	0.07	LS075-B	95	0.23
HB050/038-90	86	0.02	HBFO100	86	0.09	LS075-C1	95	0.29

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PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
LS075-G	95	0.02	LS304	53, 99	1.05	LST075-30	90	0.84
LS075B/C1	95	0.28	LS308	53, 99	0.92	LST075-50	90	0.84
LS100-20	94	0.91	LS312	53, 99	4.31	LST075-80	90	0.83
LS100-40	94	0.9	LS320	53, 99	1.03	LST075-H	91	0.51
LS100-80	94	0.96	LS350	53, 99	0.92	LST075-HB	91	0.78
LS100-B	95	0.5	LS720	95	0.04	LST100-100	90	0.76
LS100-C1	51, 95	0.88	LS740	95	0.04	LST100-16	90	0.75
LS100-G	51, 95	0.02	LS760	95	N/A	LST100-30	90	0.79
LS100-GV	95	0.02	LS780	95	0.04	LST100-50	90	0.81
LS100B/C1	95	0.88	LSM300-04	98	8	LST100-80	90	0.78
LS120	95	0.07	LSM300-08	98	8	LST100-B	51, 91	2.17
LS125-20	94	0.86	LSM300-12	98	8	LST100-G	51, 91	0.02
LS125-40	94	0.84	LSM300-20	98	8	LST100-GV	51, 91	0.02
LS125-80	94	0.9	LSM300-50	98	8	LST100-H	91	0.47
LS125-B	95	0.59	LSQ150-06	92	4.17	LST100-HB	91	2.25
LS125B/C1	95	0.25	LSQ150-12	92	4.17	LST1100	51, 91	0.07
LS140	95	0.07	LSQ150-120	92	4.17	LST116	51, 91	0.07
LS150-06	96	2.42	LSQ150-20	92	4.17	LST125-100	90	2.26
LS150-12	96	2.42	LSQ150-30	92	4.17	LST125-16	90	2.12
LS150-120	96	2.5	LSQ150-50	92	4.17	LST125-30	90	2.22
LS150-20	96	2.42	LSQ150-80	92	4.17	LST125-50	90	2.24
LS150-30	96	2.5	LSQ150-B	93	1.89	LST125-80	90	2.18
LS150-50	96	2.5	LSQ200-06	92	4.17	LST125-H	91	1.15
LS150-80	96	2.5	LSQ200-12	92	4.17	LST125-HB	91	2.19
LS150-B	97	1.4	LSQ200-120	92	4.17	LST130	51, 91	0.07
LS150-C	51, 97	0.57	LSQ200-20	92	4.17	LST150	51, 91	0.07
LS150-G	51, 97	0.03	LSQ200-30	92	4.17	LST150-100	90	1.9
LS150-GV	51, 97	0.03	LSQ200-50	92	4.17	LST150-16	90	2.07
LS150B/C	97	1.91	LSQ200-80	92	4.17	LST150-30	90	2.12
LS180	95	2.12	LSQ200-B	93	1.75	LST150-50	90	2.15
LS200-06	96	2.5	LSQ200-C	93	0.26	LST150-80	90	2.13
LS200-100	96	2	LSQ200-G	93	0.05	LST150-B	51, 91	0.22
LS200-12	96	2.33	LSQ200-GV	93	0.05	LST150-G	51, 91	0.03
LS200-120	96	2	LSQ200-PL	51, 53, 91, 93, 97	0.04	LST150-GV	51, 91	0.03
LS200-20	96	2.33	LSQ200-R	51, 53	0.002	LST150-H	91	1.11
LS200-30	96	2.42	LSQ200-RV	91, 93, 97	0.02	LST150-HB	91	0.26
LS200-50	96	2.42	LSS300-B	98, 99	21.48	LST15100	51, 91	0.27
LS200-80	96	2.42	LSS300-BC	98, 99	24.26	LST1516	51, 91	0.2
LS200-B	97	1.3	LSS300-C	98, 99	3	LST1530	51, 91	0.17
LS200B/C	97	2	LSS300-G	98, 99	0.1	LST1550	51, 91	0.15
LS206	51, 93, 97	0.3	LSS300-GV	98, 99	0.07	LST1580	51, 91	0.1
LS2100	51, 97	0.09	LSS300-H	99	0.05	LST180	51, 91	0.07
LS212	51, 93, 97	0.29	LSS300-S	98, 99	0.01	LST200-100SS	92	16
LS2120	51, 93, 97	0.08	LSS300-SV	98, 99	0.01	LST200-10SS	92	16
LS212P	97	0.08	LSS306	99	0.3	LST200-16SS	92	16
LS220	51, 93, 97	0.2	LSS308	99	0.38	LST200-30SS	92	16
LS220P	97	0.17	LSS312	99	0.35	LST200-50SS	92	16
LS230	51, 93, 97	0.17	LSS320	99	0.8	LST200-80SS	92	16
LS250	51, 93, 97	0.13	LSS330	99	0.79	LST200-B	93	1.95
LS250P	97	0.13	LSS350	99	0.83	LST200-GV	93	0.04
LS280	51, 93, 97	0.1	LST075-100	90	0.83	LST200-HBSS	93	0.35
LS300EC	53, 99	0.64	LST075-16	90	0.78	LST200-HSS	93	0.32

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
LST204SS	53, 93	0.31	LVPL038MPTV	3, 6	N/A	M200100BRB90	48	0.16
LST206SS	53, 93	0.27	LVPL038V	6	0.06	M200100CPG	45	0.16
LST208SS	53, 93	0.49	LVPL050V	6	0.06	M200100TEE	45	0.52
LST2100SS	53, 93	0.45	M100050FPT	46	0.6	M200125BRB	48	0.16
LST210SS	53, 93	0.48	M100075BRB	48	0.06	M200125BRB45	3	0.16
LST216SS	53, 93	0.27	M100075BRB90	48	0.06	M200125BRB90	48	0.21
LST230SS	53, 93	0.49	M100075FPT	46	0.05	M200125MPT	46	0.2
LST250SS	53, 93	0.49	M100075MPT	46	0.05	M200125MPTSS	46	0.2
LST280SS	53, 93	0.48	M100100HBT	48	0.09	M200150BRB	48	0.17
LST5100	89	0.05	M100125BRB	48	0.08	M200150BRB45	48	0.17
LST530	89	0.05	M100125BRB90	48	0.11	M200150BRB90	48	0.21
LST550	89	0.05	M100125BRBSWP90	43	0.15	M200150MPT	46	0.23
LST580	89	0.05	M100125HBT	48	0.17	M200150MPTSS	46	0.23
LSTM050-100	88	0.76	M100125MPT	46	0.11	M200A	47	0.24
LSTM050-100C	88	0.76	M100150BRB90	48	0.17	M200BRB	48	0.24
LSTM050-30	88	0.76	M100A	47	0.07	M200BRB45	48	0.26
LSTM050-30C	88	0.76	M100BRB	48	0.06	M200BRB90	48	0.34
LSTM050-50	88	0.3	M100BRB45	48	0.07	M200BSP	46	0.26
LSTM050-50C	88	0.76	M100BRB90	48	0.08	M200CPG	44	0.43
LSTM050-80	88	0.76	M100BRBSWP90	43	0.15	M200CPG45	44	0.31
LSTM050-80C	88	0.76	M100BRBSWPG90	43	0.15	M200CPG90	45	0.62
LSTM050B	89	N/A	M100BSP	46	0.07	M200CPG90SH	45	0.44
LSTM050BC	89	N/A	M100CPG	44	0.09	M200CR	47	0.69
LSTM050G	89	0.02	M100CPG45	44	0.09	M200FPT	46	0.29
LSTM050H	89	N/A	M100CPG90	45	0.14	M200MPT	46	0.26
LSTM075-100	88	0.76	M100CR	47	0.24	M200MPTSS	46	0.81
LSTM075-100C	88	0.76	M100FPT	46	0.09	M200PLG	47	0.12
LSTM075-30	88	0.76	M100G	49	0.02	M200PLG025	47	0.09
LSTM075-30C	88	0.76	M100GV	49	0.02	M200PLG038	47	0.09
LSTM075-50	88	0.76	M100MPT	46	0.08	M200PLG050	47	0.09
LSTM075-50C	88	0.76	M100MPTSS	46	0.34	M200PLG075	47	0.1
LSTM075-80	88	0.76	M100PA	40	0.25	M200PLG100	47	0.11
LSTM075-80C	88	0.76	M100PAC	40	0.32	M200SWFSS	44	0.7
LSTM075H	89	N/A	M100PAT	40	0.65	M200SWP90	43	0.38
LV025MTV	6	0.06	M100PLG	47	0.05	M200TEE	45	0.6
LV025V	6	0.06	M100PLG025	47	0.04	M200YG45	45	1.3
LV038050MTV	6	0.06	M100PLG050	47	0.04	M201G	49	0.05
LV038MTV	6	0.07	M100SWFSS	44	0.35	M220100BRB	48	0.15
LV038V	6	0.07	M100SWP90	43	0.13	M220100CPG	45	0.15
LV050100MTV	6	0.11	M100SWPG90	43	0.13	M220100TEE	45	0.4
LV050MTV	6	0.06	M100TEE	45	0.2	M220125BRB	48	0.16
LV050SLV	6	0.08	M101G	49	0.001	M220150BRB	48	0.16
LV050V	6	0.07	M101GSA	44	0.07	M220150BRB90	48	0.21
LVHB025V	6	0.05	M101TEE	45	0.23	M220150MPTSS	46	0.65
LVHB038050MTV	6	0.07	M104SWFSS	44	0.7	M220200CPG	45	0.19
LVHB038V	6	0.06	M12712	111, 113, 115	N/A	M220200HBT	48	0.4
LVHB050V	6	0.07	M13712	119, 125	N/A	M220200SWP90	43	0.37
LVHB075100MTV	6	0.13	M15712	139	N/A	M220200TEE	45	0.6
LVHB075MTV	6	0.13	M18008	141	N/A	M220250BRB	48	0.23
LVHB075V	6	0.08	M18012	141	N/A	M220375SWFSS	44	1.35
LVPL025V	6	0.06	M19712X	149, 151	N/A	M220A	47	0.2
LVPL038025MPTV	3, 6	N/A	M200100BRB	48	0.15	M220ASWP90	43	0.4

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PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
M220BRB	48	0.19	M300300HBT	48	1.03	MBF200	54	1.37
M220BRB45	48	0.22	M300375SWFSS	44	3.2	MBF200BD	54	1.39
M220BRB90	48	0.3	M300A	47	0.35	MBF200V	54	1.37
M220BRBSWP90	43	0.4	M300ASWP90	43	0.8	MBF220	54	1.62
M220BSP	46	0.2	M300BRB	48	0.49	MBF220BD	54	1.62
M220BWASS	45	0.5	M300BRB45	48	0.51	MBF220V	54	1.62
M220CPG	44	0.21	M300BRB90	48	0.78	MBF300	54	2.25
M220CPG3G	3, 44	0.2	M300BRBSWP90	43	1.24	MBF300BD	54	2.32
M220CPG45	41, 44	0.24	M300BSP	46	0.41	MBF300BDV	54	2.4
M220CPG6	41, 44	0.27	M300CPG	44	0.41	MBF300V	54	2.25
M220CPG90	45	0.34	M300CPG12	3, 44	1	MBP200	66	0.03
M220CR	47	0.58	M300CPG12G	3	N/A	MCV100	44	0.13
M220D	47	0.4	M300CPG45	41, 44	0.49	MCV200	44	0.45
M220FPT	46	0.26	M300CPG7	41, 44	0.57	MCV221	44	0.5
M220MPT	46	0.21	M300CPG90	45	0.75	MCV300	44	1.2
M220MPTSS	46	0.62	M300CR	47	1.18	MEV100BLCF	31	5
M220MPTSWP90	43	0.3	M300FPT	46	0.5	MEV100BLXR1	31	1.75
M220P6PRO	110	51	M300MPT	46	0.44	MEV100CF	28, 29	4.57
M220P6PROE	110	N/A	M300MPTSS	46	1.85	MEV100SLCF	32	5
M220P6PROEW	112	N/A	M300MPTSWP90	43	0.63	MEV100SLXR1	32	2.85
M220P6PROW	112	47.4	M300P11PRO	118	81	MEV100XR1	28, 29	4.5
M220PB	110	N/A	M300P6PRO	118	52	MEV102CF	26	11.16
M220PBW	112	19	M300PB	118	20	MEV103CF	26	17.16
M220PH5	110	55	M300PBW	124	24	MEV104CF	26	22.32
M220PH5E	110	58	M300PH11W	124	105	MEV105CF	26	27.9
M220PH5EW	112	58	M300PH6	118	45.4	MEV200BLCF	31	6.5
M220PH5W	112	55	M300PH6W	124	49	MEV200BLXR1	31	2.4
M220PH6	110	55	M300PLG	47	0.25	MEV200CF	28, 29	5.75
M220PH6W	112	N/A	M300PLG075	47	0.23	MEV200SLCF	32	6.5
M220PHYW	5, 114	N/A	M300PLG100	47	0.2	MEV200SLXR1	32	2.4
M220PLG	47	0.12	M300PO	118	9.792	MEV200XR1	28, 29	2
M220PLG038	47	N/A	M300SWFSS	44	1.5	MEV220BLCF	31	8.05
M220PLG075	47	0.11	M300SWP90	43	0.7	MEV220BLXR1	31	3
M220PO	110	N/A	M300SWPG90	43	0.75	MEV220CF	28, 29	7
M220SWFSS	44	0.59	M300TEE	45	1.15	MEV220SLCF	32	8.13
M220SWP90	43	0.2	M300Y45	41, 45	3.38	MEV220SLXR1	32	3
M220SWP90SS	43	1.64	M300YG45	41, 45	3.13	MEV220XR1	28, 29	2.8
M220SWPG90	3, 43	0.25	M301G	41, 49	0.05	MEV225CF	29	N/A
M220TEE	45	0.52	M301GSA	44	0.5	MEV300CF	30	14
M220Y45	41, 45	1.32	M303D	47	1.5	MEV300XR1	30	N/A
M220YG45	41, 45	1.34	M332PBIW	148	200	MEVR100CF	28, 29	4.45
M221G	41, 49	0.03	M332PIE101W	148	270	MEVR100SLCF	32	4.75
M221GSA	44	0.25	M332PIE10W	148	262.2	MEVR200CF	28, 29	6.48
M222PBIW	138	75	M332PIH13W	148	155	MEVR200SLCF	32	6.8
M222PIE51W	138	200	M332PIHAW	5, 150	N/A	MEVR220CF	28, 29	8.06
M222PIE5W	138	200	M332PIHYW	150	190	MEVR220SLCF	32	7
M222PIH6W	138	115	M332POIW	148	70.532	MFM100	42	2.75
M300200CPG	45	0.25	MBF100	54	0.9	MFM220	42	2.75
M300220BRB	48	0.27	MBF100BD	54	1	MFM300	42	5.4
M300220BRB90	48	0.4	MBF100BDV	54	1	MHV200	40	0.57
M300220CPG	41, 45	0.24	MBF100V	54	1	MHV220A	40, 41	0.75
M300220MPTSS	46	1.25	MBF150200BD	54	1.39	MIS220	41	20

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
MIS300	41	23	MLST100-80	50	0.75	NIP050-SH	83	0.02
MLEV100	27	0.65	MLST100-H	51	0.45	NIP075-4	83	0.07
MLS100-20	50	0.82	MLST100-HB	51	0.63	NIP075-6	83	0.12
MLS100-40	50	1	MLST150-100	50	2	NIP075-SH	83	0.03
MLS100-50	50	0.87	MLST150-16	50	2	NIP100-4	83	0.09
MLS100-80	50	0.88	MLST150-30	50	2	NIP100-6	83	0.15
MLS100B	51	0.66	MLST150-50	50	2	NIP100-SH	83	0.04
MLS100BC	51	0.89	MLST150-80	50	2	NIP125-4	83	0.13
MLS200-06	50	2.25	MLST150-80V	3, 50	2	NIP125-6	83	0.21
MLS200-100	50	2.2	MLST150-H	51	1.15	NIP125-SH	83	0.06
MLS200-12	50	2.5	MLST150-HB	51	1.75	NIP150-3	83	0.15
MLS200-120	50	2.15	MLV100V	6	0.13	NIP150-4	83	0.22
MLS200-20	50	2.15	MPRV100-100	39	1.5	NIP150-5	83	0.26
MLS200-30	50	2.15	MPRV100-125	39	1.53	NIP150-6	83	0.34
MLS200-50	50	3.9	MSUV100FP	15	0.5	NIP150-SH	83	0.12
MLS200-50M	50	2.4	MSW220	44	0.38	NIP200-4	83	0.25
MLS200-80	50	2.15	MTF220BD	54	0.75	NIP200-6	83	0.38
MLS200B	51	1.5	MTF300BD	54	2.1	NIP200-SH	83	0.14
MLS200BC	51	2.07	MV100BL	38	1.2	NIP2101	66	0.3
MLS2100SS	53	0.54	MV100CF	33	0.75	NIP300-4	83	0.43
MLS220C1	53	0.82	MV100SL	38	1.13	NIP300-6	83	0.7
MLS220G1	53	0.02	MV200BL	38	2	NIP300-SH	83	0.3
MLS220R1	53	0.45	MV200CF	33	1.92	NIP400-SH	83	1.55
MLS222-04	52	3.82	MV200SL	38	2	PLUG025	84	0.03
MLS222-06	52	3.82	MV220BL	38	4.63	PLUG038	84	0.03
MLS222-08	52	3.82	MV220CF	33	3.25	PLUG050	84	0.02
MLS222-10	52	3.5	MV220SL	38	2.75	PLUG075	41, 84	0.04
MLS222-100	52	3.7	MV225200	29	N/A	PLUG075S	93	0.02
MLS222-16	52	3.7	MV225CF	33	7.3	PLUG100	84	0.06
MLS222-30	52	3.75	MV300	33	3.9	PLUG125	84	0.09
MLS222-50	52	3.75	MV300BL	38	6.6	PLUG150	84	0.1
MLS222-80	52	3.7	MV300CF	33	6	PLUG200	84	0.15
MLS222B	53	1.25	MV301CF	41	6	PLUG300	84	0.44
MLS222BC	53	3.25	MVE004	19, 20, 21, 23, 24, 28, 29, 31, 32	0.1	PRC200	101	N/A
MLS250SS	53	0.6	MVS220CF	34, 41	1.85	PV075	16	0.53
MLS280SS	53	0.57	MVS220FP	34	1.7	PV075V	16	0.57
MLS300-08	52	8	MVS220HSFP	35	2.85	PV100	16	0.52
MLS300-12	52	8	MVS300CF	36	3	PV100-075	16	0.64
MLS300-20	52	8	MVS300CFFP	36	3.75	PV100-075B	16	0.63
MLS300-50	52	8.44	MVS300HSFP	37	6.32	PV100-075V	16	0.35
MLS300B	53	5.04	MVSF220FP	34	1.8	PV100V	16	0.4
MLS300B1	99	4.78	MVSF220HSFP	35	2	PV10265	16	0.07
MLS300BC	53	N/A	MVSF300	36	3.25	PV10265V	16	0.2
MLS300CAP	53, 99	1.36	MVSF300FP	36	4	RB038-025	83	0.01
MLS300ECG	53, 99	0.03	MVSF300HSFP	37	6.69	RB050-025	83	0.02
MLS300ECGV	53, 99	0.04	MVSMT220FP	34	1.75	RB050-038	83	0.01
MLS300G	53, 99	0.03	MVSMT220HSFP	35	2.9	RB075-018	83	0.04
MLS300GV	53, 99	0.05	MVSMT300	36	3	RB075-025	83	0.04
MLST100-100	50	0.75	MVSMT300HSFP	37	6.73	RB075-038	83	0.03
MLST100-16	50	0.75	NIP025-SH	83	0.01	RB075-050	83	0.03
MLST100-30	50	0.75	NIP038-SH	83	0.01	RB100-025	83	0.07
MLST100-50	50	0.75	NIP050-3	83	0.04	RB100-050	83	0.05

REFERENCE

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
RB100-075	83	0.04	SUV075FP	15	0.4	TF150	71	0.63
RB125-075	83	0.09	SUV100FP	15	0.4	TF150AV	72	0.68
RB125-100	83	0.07	SUV125FP	15	0.88	TF150SS	71	4.38
RB150-075	83	0.12	SUV150FP	15	0.88	TF200	71	0.55
RB150-100	83	0.1	SUV200FP	15	1.45	TF200AV	72	0.6
RB150-125	83	0.1	SW100	87	0.09	TF200SS	71	3.6
RB200-075	83	0.18	SW150	87	0.2	TF200V	71	0.56
RB200-100	83	0.17	SW220	87	0.5	TF220	71	0.82
RB200-125	83	0.14	TA283	68	0.14	TF220G	71	0.03
RB200-150	83	0.12	TA283QD	68	0.14	TF220GV	71	0.05
RB300-150	83	0.51	TC120	82	0.1	TF220SS	71	5.27
RB300-200	83	0.5	TC130	82	0.1	TF300	71	2
RB400-300	83	1	TC150	82	0.11	TF300G	71	0.07
RC100-075	83	0.15	TC162	82	0.12	TF300GV	71	0.1
RC150-100	83	0.2	TC181	82	0.12	TF300SS	71	7.9
RC150-125	83	0.2	TC193	82	0.12	TF400	71	4.5
RC200-050	83	0.25	TC206	82	0.12	TF400G	71	0.7
RC200-100	83	0.26	TC218	82	0.13	TF400GV	71	0.7
RC200-125	83	0.26	TC224	82	0.14	TL600C	67	0.5
RC200-150	83	0.26	TC231	82	0.15	TL650E	67	0.5
RC300-200	83	0.62	TC250	82	0.16	TL650S	67	0.5
RN050-038	83	0.02	TC287	82	0.17	TL651S	67	0.7
RN075-050	83	0.03	TC312	82	0.17	TL652E	67	0.5
RN100-050	83	0.04	TC331	82	0.17	TL652S	67	0.63
RN100-075	83	0.06	TC343	82	0.17	TL6531	68	0.07
RN125-075	83	0.08	TC425	82	0.18	TLA10	67	2.58
RN125-100	83	0.08	TC438	82	0.36	TLV10R	67	1.5
RN150-100	83	0.12	TC456	82	0.37	TLV2	67	0.02
RN150-125	83	0.14	TEE025	84	0.04	TLVA10	67	2.25
RN200-125	83	0.17	TEE038	84	0.05	TM075/050	87	0.28
RN200-150	83	0.17	TEE050	84	0.1	UB100	45	0.25
RN300-200	83	0.36	TEE075	84	0.14	UB202	45	0.26
RS21	87	0.91	TEE100	84	0.21	UB220	45	0.32
RSTB	87	0.87	TEE125	84	0.32	UV050FP	15	0.25
SL025-90	85	0.03	TEE150	84	0.45	UV075FP	15	0.25
SL038-90	85	0.03	TEE200	84	0.6	UV100FP	15	0.4
SL050-90	85	0.06	TEE300	84	1.58	UV125FP	15	1
SL075-45	85	0.07	TEG075	84	0.2	UV150FP	15	1
SL075-90	85	0.08	TEG100	84	0.21	UV15163	51, 103, 105, 107, 109, 113, 115, 123, 125, 127, 129, 131, 133, 139, 141, 143, 145, 149, 151	0.01
SL100-45	85	0.1	TF038SS	71	0.25	UV15163V	91, 103, 107, 123, 155, 157, 159, 161	0.01
SL100-90	85	0.13	TF050	71	0.25	UV200FP	15	1.5
SL125-45	85	0.14	TF050SS	71	0.8	UV204FPFD	66	1.5
SL125-90	85	0.14	TF075	71	0.2	V050	7	0.75
SL150-45	85	0.25	TF075SS	71	1.15	V07018	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.1
SL150-90	85	0.25	TF075V	71	0.22	V07019	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.03
SL200-45	85	0.34	TF100	71	0.35	V075	7	0.75
SL200-90	85	0.41	TF100AV	72	0.32	V075BL	13	1.35
SL300-45	85	0.85	TF100SS	71	2.85	V075SL	13	1.35
SL300-90	85	1.05	TF125	71	0.35	V100	7	0.7
ST200	67	0.77	TF125AV	72	0.68	V100BL	13	1.25
ST300	67	1.27	TF125SS	71	1.92	V100FP	7	1.16
SUV050FP	15	0.25	TF138GV	71	0.1			

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V100SL	13	1.31
V10117	139, 151	0.1
V10118	127, 129, 131, 133, 135, 137, 139, 149, 151, 155, 157, 159	0.01
V10119	107, 127, 129, 131, 133, 135, 149, 155, 157, 159	0.1
V10153138	7	0.14
V10161	14	0.18
V10264	153	0.02
V10270	7	0.1
V10271	7	0.13
V125	7	1.25
V125BL	13	2.25
V125FP	7	1.91
V125SL	13	2.07
V150	7	1.87
V150BL	13	2
V150SL	13	2
V200	7	1.88
V20011SS	147, 153	0.04
V20018	107, 109, 115, 121, 131, 133, 137, 141, 143, 145, 147, 153, 157, 159, 161	0.02
V20019	137, 141, 143, 145, 161	0.01
V200BL	13	2.8
V200FP	8	3.25
V200SL	13	2.75
V20153138	7	0.22
V20207	68, 79	0.06
V204FP	9	2.71
V25153138	7	0.16
V25270	7, 8	0.25
V25271	7, 8	0.4
V300	8	3.75
V300FP	8	5.33
V400	8	8.5
VA150	14	2.58
VA200	14	2.8
VA200FP	14	3.83
VC200	72	0.17
VC230	72	0.26
VC300	72	0.68
VC330	72	0.68
VE5630	22, 30	N/A
VFMT200FP	8	2.9
VFMT204FP	9	3.33
VL20153	7	0.35
VL25153	8	0.41
VN100	14	0.72
VS204FP	11	1.73
VSF200	10	1.25
VSF200CF	34	1.5
VSF200FPAF	9	3.05
VSF204FP	11	1.75
VSF300	12	3.5

PART NO	PAGE(S)	WEIGHT
VSFHB200	10	1.45
VSFMT200	10, 12	1.45
VSFMT204FP	11	1.85
VSFMT204HSFP	11	2
VSFMT300FP	12	4.29
VSFMT300HSFP	12	6.63
VSMT200	10, 12	1.35
VSMT200CF	34	1.45
VSMT200FPAF	9	3
VSMT204FP	11	1.85
VSS025	16	0.64
VSS038	16	0.59
VSS050	16	0.71
VSS075	16	1.3
VSS100	16	2.18
VSS150	16	3.97
VSS200	16	6.91
VSS300	16	22.6
W230237	65	1.07
W230238	65	1.17
W230239	65	1.07
W230240	65	1.1
WSF210FSA	65	1.2
WSF210FSAV	65	N/A
WSMT210FSA	65	1.07
WSMT210FSAV	65	N/A

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