

CATALOG #61 2020

BANJO LIQUID HANDLING PRODUCTS

CONNECT WITH CONFIDENCE™

CATALOG #61 EFFECTIVE OCTOBER 1, 2019



2020

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1" - 3" EVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVX100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1
EVX125	1¼" STANDARD PORT ELECTRIC VALVE	300	1¼"	1"	1
EVX150	1½" FULL PORT ELECTRIC VALVE	300	1½"	1½"	1
EVX200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1
EVX220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1
EVX300	3" FULL PORT ELECTRIC VALVE	150	3"	3"	1
MEVX100	1" FULL PORT MANIFOLD ELECTRIC VALVE	300	1"	1"	1
MEVX200	2" STANDARD PORT MANIFOLD ELECTRIC VALVE	300	2"	1½"	1
MEVX220	2" FULL PORT MANIFOLD ELECTRIC VALVE	250	2"	2"	1
MEVX300	3" FULL PORT MANIFOLD ELECTRIC VALVE	150	3"	3"	1
MEVX100BL	1" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1
MEVX200BL	2" STANDARD PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	250	2"	1½"	1
MEVX220BL	2" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	125	2"	2"	1
MEVX300BL	3" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	200	3"	3"	1
MEVX100SL	1" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	1"	1"	1
MEVX200SL	2" STANDARD PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	250	2"	1½"	1
MEVX220SL	2" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	125	2"	2"	1

1" - 3" EVX REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVXR100	1" FULL PORT REGULATING ELECTRIC VALVE	300	1"	1"	1
EVXR125	1¼" STANDARD PORT ELECTRIC VALVE	300	1¼"	1"	1
EVXR150	1½" FULL PORT ELECTRIC VALVE	300	1½"	1½"	1
EVXR200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1
EVXR220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1
EVXR300	3" FULL PORT ELECTRIC VALVE	150	3"	3"	1
MEVXR100	1" FULL PORT MANIFOLD ELECTRIC VALVE	300	1"	1"	1
MEVXR200	2" STANDARD PORT MANIFOLD ELECTRIC VALVE	300	2"	1½"	1
MEVXR220	2" FULL PORT MANIFOLD ELECTRIC VALVE	250	2"	2"	1
MEVXR300	3" FULL PORT MANIFOLD ELECTRIC VALVE	150	3"	3"	1

Note: Other configurations available. Contact Banjo for additional part number information and availability.

EVX® ELECTRIC VALVES

ACTUATOR FEATURES

- Up to 35% smaller actuator/valve
- Many communication protocols including On/Off, regulating, CAN/ISO BUS and PWM pulse-width modulation.
- Bluetooth® or wired communications.
- Diagnostic options include cycle counts, voltage and temperature.
- 12V DC standard. 24-volt available.
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- 100G's shock rating

VALVE FEATURES

- Proprietary polypropylene formulation ensures durability and enables injection molding to precision tolerances
- Welded construction supports sleek, compact valve design while eliminating a leak point
- Valve rated to 50,000 cycles leak-free
- Hollow stainless steel ball lessens weight and maintains valve performance
- Polypropylene balls available.
- Bottom-located threaded inserts provide versatile mounting solution
- Female NPT and manifold flange connections offer plumbing options
- Banks of 1" & 2" EVX units available.

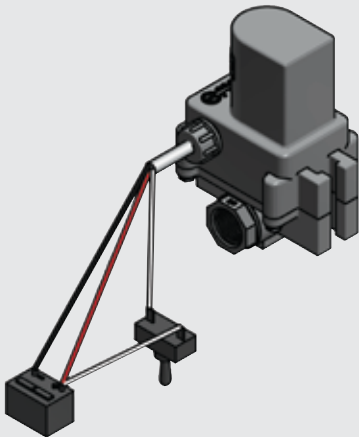
*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

NEW PRODUCTS

1" MANIFOLD LEV

FEATURES

- The new MLEV100A LEV utilizes a larger, higher torque motor to power through thick liquids and demanding applications.
- Stainless steel ball handles abrasive and corrosive liquids and increases product cycle life. Reinforced nylon stem more than triples the strength of the standard 1" LEV.
- Fiberglass reinforced polypropylene
- TFM seats
- EPDM seals
- 12-volt DC operated
- Internally fused/automatic reset
- 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
MLEV100A	1" MANIFOLD ELECTRIC VALVE WITH HIGHER TORQUE MOTOR, SS BALL	300	1"	1/2"	1

3" POLYPROPYLENE MANIFOLD WET SEAL PUMP ONLYS

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 only, no engine.
- V-shaped for quicker priming
- Engine warranty service available at authorized dealers



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

3" POLY MANIFOLD WET SEAL PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY
M300POW	3" POLY MANIFOLD WET SEAL PUMP ONLY	N/A	1
M300POW6	3" POLY MANIFOLD WET SEAL PUMP ONLY FOR 3/4" SHAFT	N/A	1

VALVES

1/4" - 1" POLY MICRO VALVES

FEATURES

- 90° rotating handle
- 90° locking, rotating handle (with asterisk *)
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Standard FKM seats and O-Rings

JG 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
LV050SLLV*	1/2" SIDE LOAD LOCKING MICRO VALVE	300	1/2"	15/32"	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
LV038050MTLV*	3/8" FEMALE X 1/2" MALE NPT LOCKING 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
LV050100MTLV*	1/2" FEMALE X 1" MALE NPT LOCKING MICRO VALVE	300	1/2" x 1"	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
LVHB075MTLV*	3/4" HOSE BARB X 3/4" MALE NPT LOCKING MICRO VALVE	300	3/4"	15/32"	1
LVHB075100MTV	3/4" HOSE BARB X 1" MALE NPT MICRO VALVE	300	1"	15/32"	1
LVHB075MTLV*	3/4" HOSE BARB X 3/4" MALE NPT LOCKING MICRO VALVE	300	3/4"	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

1/2" - 2" 4 BOLTED VALVES



V100FP

V125

V200

4 BOLTED VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU	QTY	REPLACEMENT HANDLE	REPAIR KIT
V050	1/2" FULL PORT VALVE	300	1/2"	3/4"	24/box	V10153A	V07200
V075	3/4" FULL PORT VALVE	300	3/4"	3/4"	24/box	V10153A	V07200
V100	1" STANDARD PORT VALVE	225	1"	3/4"	24/box	V10153A	V07200
V100FP	1" FULL PORT VALVE	300	1"	1"	24/box	V10153A	V10200
V125	1 1/4" STANDARD PORT VALVE	300	1 1/4"	1"	24/box	V10153A	V10200
V125FP	1 1/4" FULL PORT VALVE	225	1 1/4"	1 1/2"	24/box	V20153	V20200
V150	1 1/2" FULL PORT VALVE	225	1 1/2"	1 1/2"	24/box	V20153	V20200
V200	2" STANDARD PORT VALVE	225	2"	1 1/2"	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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring

VALVE ACCESSORIES



V25270

V25271

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 1 3/8" HANDLE OFFSET	V100FP, V125	1
V20153138	2" FP X 1 3/8" HANDLE OFFSET	V125FP, V150, V200	1
V25153138	2" FP X 1 3/8" 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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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
VFMT200FP	2" FULL PORT VALVE W/ F ADAPTER	225	2"	2"	6/box	V25153	V25200
V300	3" STANDARD PORT VALVE	225	3"	2½"	8/box	V25153	V30200
V300FP	3" FULL PORT VALVE	200	3"	3"	6/box	V25153	V35200
V400	4" STANDARD PORT VALVE	100	4"	3½"	4/box	V25153	V40200

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

2" FULL PORT 4 BOLTED BALL VALVES



VFMT204FP

V204FP

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

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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring

2" FULL PORT ANSI FLANGE BOLTED BALL VALVES



VSF200FPAF

VSMT200FPAF

FULL PORT ANSI FLANGE BOLTED 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 X 2" ANSI FLANGE	200	2"	2"	6/box	V25153SH	VS25200

FEATURES

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

REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring



VSF200



VSMT200



VSFMT200



VSFHB200

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



VSMT204FP



VSF204FP



VS204FP



VSFMT204FP



VSFMT204HSFP

FEATURES

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

REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring

2" FULL 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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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
VSMT300	3" FEMALE NPT X 3" MALE NPT	100	3"	2½"	6/box	V25153	V25153SH	VS30200
VSFMT300	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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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	¾" 3-WAY BOTTOM LOAD VALVE	200	¾"	1"	18/box	T	V10353TB	V10300SL
V100BL	1" 3-WAY BOTTOM LOAD VALVE	225	1"	1"	18/box	T	V10353TB	V10300SL
V125BL	1¼" 3-WAY BOTTOM LOAD VALVE	300	1¼"	1½"	12/box	T	V20353TB	V15300SL
V150BL	1½" 3-WAY BOTTOM LOAD VALVE	225	1½"	1½"	12/box	T	V20353TB	V15300SL
V200BL	2" 3-WAY BOTTOM LOAD VALVE	200	2"	2"	8/box	STRAIGHT	V25353B	V25200BL

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	¾" 3-WAY SIDE LOAD VALVE	200	¾"	1"	18/box	STRAIGHT	V10153A	V10300SL
V100SL	1" 3-WAY SIDE LOAD VALVE	200	1"	1"	18/box	STRAIGHT	V10153A	V10300SL
V125SL	1¼" 3-WAY SIDE LOAD VALVE	300	1¼"	1½"	12/box	T	V20353TS	V15300SL
V150SL	1½" 3-WAY SIDE LOAD VALVE	225	1½"	1½"	12/box	T	V20353TS	V15300SL
V200SL	2" 3-WAY SIDE LOAD VALVE	225	2"	2"	8/box	STRAIGHT	V25153SH	V25200BL

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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring



VA150



VA200FP

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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring



VN100



V10161

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		



SUV125FP



MSUV100FP

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

1/2" - 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 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

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

VALVES

1/2" - 3" CHECK VALVES

FEATURES

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



1/2"-3" CHECK VALVES

PART NO	DESCRIPTION	OPENING PRESSURE PSI	MAX PSI	PIPE SIZE	QTY
CV050	1/2" CHECK VALVE	6-7	300	1/2"	1
CV100MT	1" MALE X FEMALE NPT CHECK VALVE	1	300	1"	1
CV100	1" CHECK VALVE	1	300	1"	1
CV221	2" FULL PORT CHECK VALVE	>0.5	300	2"	1
CV300	3" FULL PORT CHECK VALVE W/ 5 LB SPRING	1.5	300	3"	1
CV301	3" FULL PORT CHECK VALVE W/1/2 LB SPRING	>0.5	300	3"	1

1/4" - 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



1/4"-3" STAINLESS STEEL FULL PORT VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPAIR KIT
VSS025	1/4" SS FULL PORT VALVE	1000	1/4"	1/4"	1	VSS02500
VSS038	3/8" SS FULL PORT VALVE	1000	3/8"	3/8"	1	VSS02500
VSS050	1/2" SS FULL PORT VALVE	1000	1/2"	1/2"	1	VSS05200
VSS075	3/4" SS FULL PORT VALVE	1000	3/4"	3/4"	1	VSS07200
VSS100	1" SS FULL PORT VALVE	1000	1"	1"	1	VSS10200
VSS150	1 1/2" SS FULL PORT VALVE	1000	1 1/2"	1 1/2"	1	VSS15200
VSS200	2" SS FULL PORT VALVE	1000	2"	2"	1	VSS25200
VSS300	3" SS FULL PORT VALVE	1000	3"	3"	1	VSS35200

3/4" - 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



3/4"-1" PINCH VALVES

PART NO	DESCRIPTION	GASKET	MAX PSI	PIPE SIZE	PRESSURE DIFFERENTIAL	QTY
PV075	3/4" X 3/4" PINCH VALVE	EPDM	300	3/4"	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 3/4" PINCH VALVE	EPDM	300	1" X 3/4"	15 TO 20 PSI	1
PV100-075V	1" X 3/4" PINCH VALVE	FKM	300	1" X 3/4"	15 TO 20 PSI	1
PV100-075B	1" X 3/4" FEMALE COUPLER PINCH VALVE	EPDM	300	1" X 3/4"	15 TO 20 PSI	1
PV10265	BLADDER	EPDM	N/A			1
PV10265V	BLADDER	FKM	N/A			1



SMALLER

- EVX 2" full port and 3" models are over 35% smaller than the average competitive valve. The 1½", 2" full port and 3" models are also substantially lighter than the average competitive valve.

SMARTER

- EVX offers the latest communication protocols ranging from direct control to CAN/ISO BUS to Bluetooth® wireless technology, while diagnostic options measure and report voltage, temperature, and cycle count to warn of concerns before they become problems.

TOUGHER

- Setting the new standard for electric valve toughness, EVX passes 52 separate durability torture tests including mechanical shock, vibration, extreme temperature, rain/shine, operating pressure, and rigorous longevity tests.

SMALLER / SMARTER / TOUGHER

*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

ELECTRIC VALVES

1" - 1½" EVX SERIES

FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF has ¾ sec response
- Regulating has 4 sec response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)



1" - 1½" EVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVX100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1
EVX125	1¼" STANDARD PORT ELECTRIC VALVE	300	1¼"	1"	1
EVX150	1½" FULL PORT ELECTRIC VALVE	300	1½"	1½"	1

1" - 1½" EVX REGULATING VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVXR100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1
EVXR125	1¼" STANDARD PORT ELECTRIC VALVE	300	1¼"	1"	1
EVXR150	1½" FULL PORT ELECTRIC VALVE	300	1½"	1½"	1

2" EVX SERIES



FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF has 1½ second response
- Regulating has 4 second response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)

2" EVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVX200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1
EVX220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1

2" EVX REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVXR200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1
EVXR220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1

ELECTRIC VALVES

3" EVX SERIES

FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF has 3 second response
- Regulating has 4 second response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- Zinc alloy lower actuator housing
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)



3" EVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVX300	3" FULL PORT ELECTRIC VALVE	150	3"	3"	1

3" EVX REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EVXR300	3" FULL PORT ELECTRIC VALVE	150	3"	3"	1

3/8" - 1/2" LEV SERIES



LEV038

LEV050

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



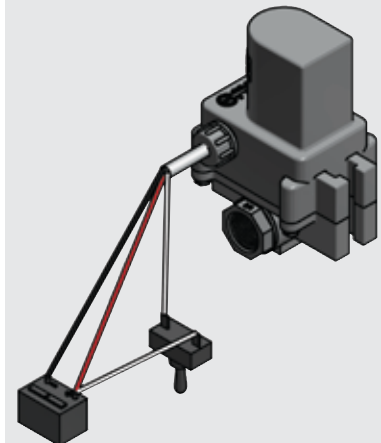
LEV038PL

3/8" ELECTRIC VALVES W/ PUSH LOCK

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

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



ELECTRIC VALVES

3/4"-3" THREADED

FEATURES

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

REPAIR KIT INCLUDES:

- Stem with Seals
- Gasket
- Body O-Rings
- Ball Seats

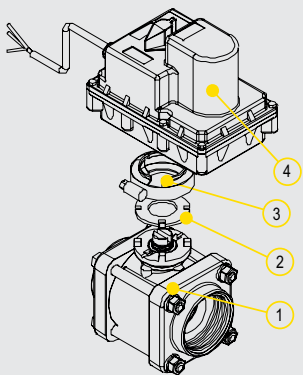


3/4"-3" ON/OFF ELECTRIC VALVES

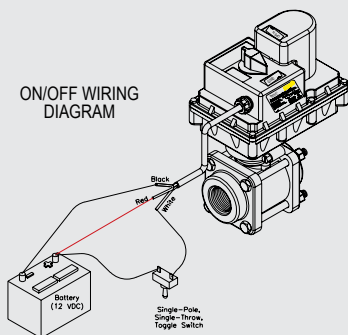
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV075	3/4" FULL PORT ELECTRIC VALVE	300	3/4"	1"	1
EV100FP	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1
EV125	1 1/4" ELECTRIC VALVE	300	1 1/4"	1"	1
EV150	1 1/2" ELECTRIC VALVE	300	1 1/2"	1 1/2"	1
EV200	2" ELECTRIC VALVE	300	2"	1 1/2"	1
EV204FP	2" FULL PORT ELECTRIC VALVE	225	2"	2"	1
EV300FP	3" FULL PORT ELECTRIC VALVE 3 WIRE	200	3"	3"	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
1	EV150XR1	1 1/2" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	EV200XR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV300XR1A	3" ELECTRIC VALVE ONLY	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
4	VE5630	3 SECOND, 12 VDC MOTOR (EV300FP)	1
KIT	EV10210	REPAIR KIT	1
KIT	EV20210	REPAIR KIT	1
KIT	EV35210	REPAIR KIT	1



ON/OFF WIRING DIAGRAM



3/4"-2" REGULATING

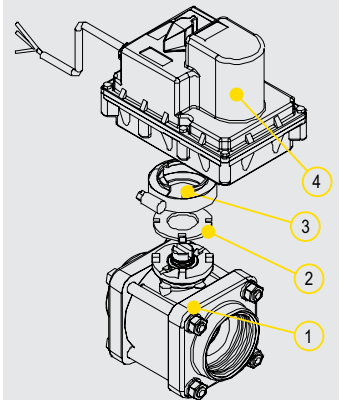


FEATURES

- 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
- 4 second response (3/4"-2")
- Directional flow right or left and cannot be turned off

REPAIR KIT INCLUDES:

- Stem with Seals
- Gasket
- Body O-Rings
- Ball Seats



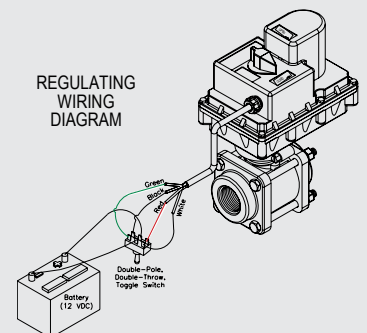
3/4"-2" REGULATING ELECTRIC VALVES

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
EVR204FP	2" FULL PORT ELECTRIC VALVE	225	2"	2"	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	EV204XR1	2" ELECTRIC VALVE SUB ASSEMBLY	1
2	MVE004	ELECTRIC VALVE FLANGE GASKET	1
3	FC100	1" FLANGE CLAMP	1
4	EVR3300	REGULATING 4 WIRE, 4 SECOND FOR EVR075 & EVR100FP	1
4	EVR4300	REGULATING 4 WIRE, 4 SECOND FOR EVR204FP	1
KIT	EV10210	REPAIR KIT FOR EVR075 & EVR100FP	1
KIT	EV25210	REPAIR KIT FOR EVR204FP	1

REGULATING WIRING DIAGRAM



ELECTRIC VALVES

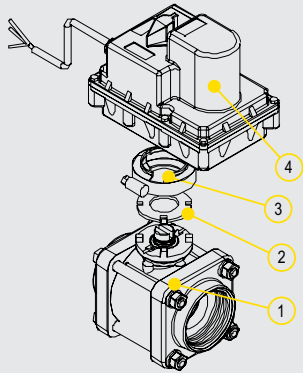
3/4" - 2" 3 WAY

FEATURES

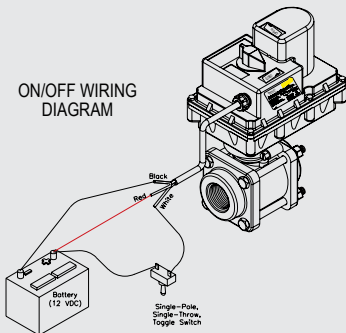
- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- Easily repairable
- Open/closed indicator
- 1¼ second response time(1"-2")
- ¾ second response time (¾")

REPAIR KIT INCLUDES:

- Stem with Seals
- Gasket
- Body O-Rings
- Ball Seats



ON/OFF WIRING DIAGRAM



EV075BL



EV075SL

¾"-2" ON/OFF BOTTOM LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV075BL	¾" FULL PORT BOTTOM LOAD ELECTRIC VALVE	300	¾"	1"	1
EV100BL	1" BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1
EV204BLFP	2" FP BOTTOM LOAD ELECTRIC VALVE	200	2"	2"	1

¾"-2" ON/OFF SIDE LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
EV075SL	¾" FULL PORT SIDE LOAD ELECTRIC VALVE	300	¾"	1"	1
EV100SL	1" SIDE LOAD ELECTRIC VALVE	300	1"	1"	1
EV150SL	1½" SIDE LOAD ELECTRIC VALVE	300	1½"	1½"	1
EV200SL	2" SIDE LOAD ELECTRIC VALVE	300	2"	1½"	1
EV204SLFP	2" FP SIDE LOAD ELECTRIC VALVE	150	2"	2"	1

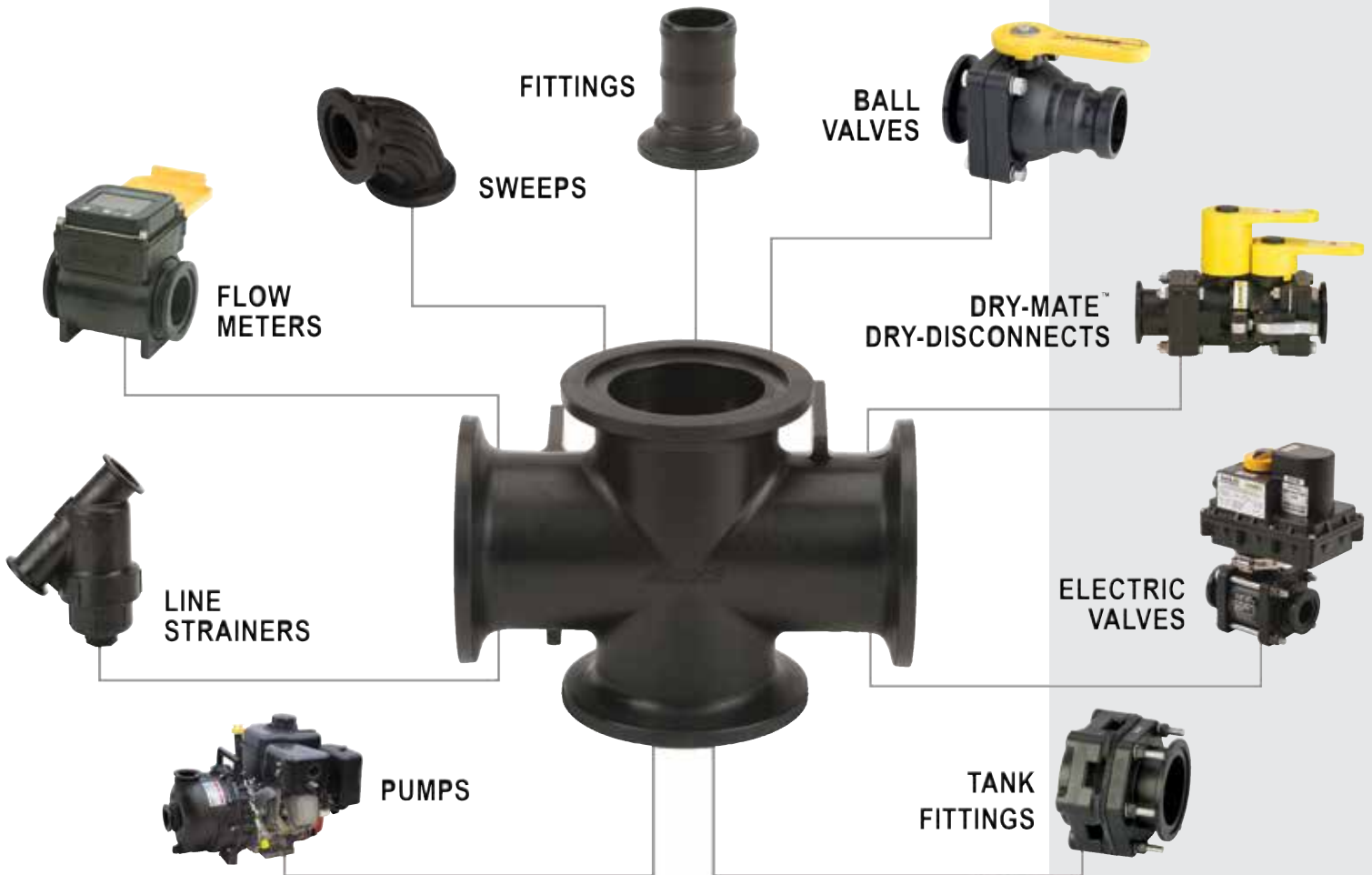
REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	EV075BLXR1	¾" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV100BLXR1	1" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV204BLXR1	2" FULL PORT ELECTRIC VALVE SUB ASSEMBLY	1
1	EV075SLXR1	¾" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV100SLXR1	1" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV150SLXR1	1½" ELECTRIC VALVE SUB ASSEMBLY	1
1	EV200SLXR1	2" 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	EV3300	¾ SECOND 3 WIRE MOTOR ASSEMBLY (¾"-1")	1
4	EV4300	1¼ SECOND 3 WIRE MOTOR ASSEMBLY (1½"-2")	1
KIT	EV10210	REPAIR KIT (¾"-1")	1
KIT	EV20210	REPAIR KIT (1½"-2")	1
KIT	EV25210	REPAIR KIT (2"FP)	1

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" MEVX SERIES

FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF has ¾ second response
- Regulating has 4 second response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)



1" MEVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1

1" MEVX REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVXR100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1

Note: 1" MANIFOLD BANK VALVE ASSEMBLIES AVAILABLE

MANIFOLD FLANGE CONNECTIONS

2" MEVX SERIES



FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF has 1½ second response
- Regulating has 4 second response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)

2" MEVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1
MEVX220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1

2" MEVX REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVXR200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1
MEVXR220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1

Note: 2" MANIFOLD BANK VALVE ASSEMBLIES AVAILABLE

MANIFOLD FLANGE CONNECTIONS

3" MEVX SERIES

FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF has 3 second response
- Regulating has 4 second response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- Zinc alloy lower actuator housing
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)



3" MEVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX300	3" FULL PORT ELECTRIC VALVE	150	3"	3"	1

3" MEVX REGULATING ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVXR300	3" FULL PORT ELECTRIC VALVE	150	3"	3"	1

MANIFOLD FLANGE CONNECTIONS

1"- 3" MEVX SERIES BOTTOM & SIDE LOAD VALVES

FEATURES

- 12-volt DC operated
- 24-volt available
- Open/closed indicator
- ON/OFF 1" has ¾ second response
- ON/OFF 2" has 1½ second response
- ON/OFF 3" has 3 second response
- Open / Close verification available
- IP68 waterproof
- -20 to 150F (-29 to 65C) operating
- -67 to 221F (-55 to 105C) storage
- Actuator rated to 500,000 cycles
- Valve rated to 50,000 cycles leak-free
- 100G's shock rating

MATERIALS

- 316 stainless steel ball & stem
- Poly ball available
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- Zinc alloy lower actuator housing (3" only)
- PTFE seats
- FKM stem seals

ON/OFF

- Red = +12V DC
- Black = Ground
- White = +12VDC (Open)
0VDC (Close)

4 WIRE REGULATING

- Red = +12V DC (Open)
- White = Ground (Open)
- Black = +12V DC (Close)
- Green = Ground (Close)



1"-3" MEVX BOTTOM LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX100BL	1" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1
MEVX200BL	2" STANDARD PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	250	2"	1½"	1
MEVX220BL	2" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	125	2"	2"	1
MEVX300BL	3" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	200	3"	3"	1

1"-2" MEVX SIDE LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX100SL	1" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	1"	1"	1
MEVX200SL	2" STANDARD PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	250	2"	1½"	1
MEVX220SL	2" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	125	2"	2"	1

MANIFOLD FLANGE CONNECTIONS

1" ELECTRIC MANIFOLD VALVE ASSEMBLIES

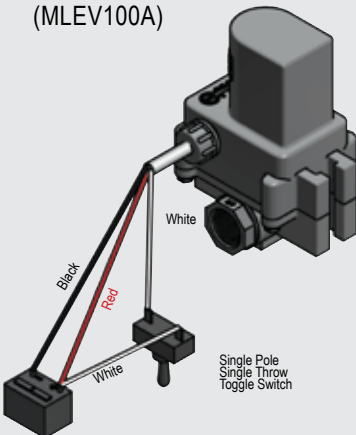
FEATURES

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

1" ELECTRIC MANIFOLD VALVE

FEATURES

- Fiberglass reinforced polypropylene
- TFM seats
- EPDM seals
- 12-volt DC operated
- Internally fused/automatic reset
- 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
- Higher torque motor to power through thick liquids and demanding applications. (MLEV100A)
- Stainless steel ball (MLEV100A)
- Reinforced nylon stem more than triples the strength of the standard 1" LEV. (MLEV100A)



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



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
MLEV100A	1" MANIFOLD ELECTRIC VALVE WITH HIGHER TORQUE MOTOR, SS BALL	300	1"	1/2"	1

MANIFOLD FLANGE CONNECTIONS



1"-3" 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
MEV300CF	3" FULL PORT MANIFOLD ELECTRIC VALVE	200	3"	3"	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
1	MEV300XR1A	3" ELECTRIC MANIFOLD VALVE ONLY	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	VE5630	2 SECOND 12 VDC MOTOR	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
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.

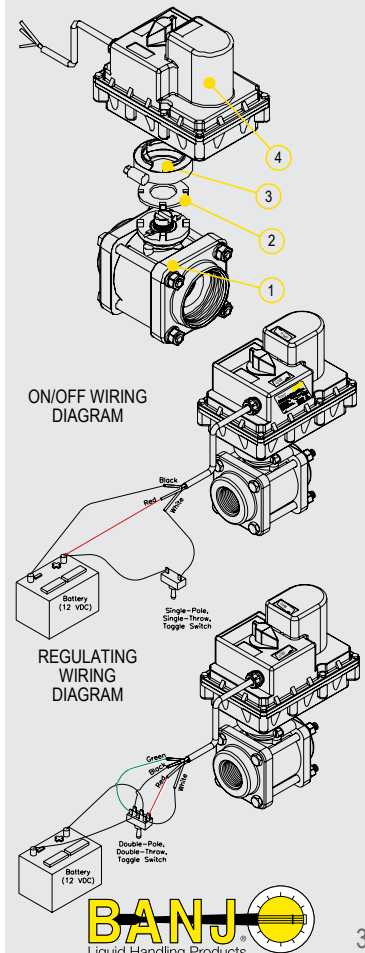
1"- 3" ELECTRIC MANIFOLD VALVES

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 (3")
- Regulating has 4 second response

REPAIR KIT INCLUDES:

- Stem with Seals
- Gasket
- Body O-Ring
- Ball Seals



MANIFOLD FLANGE CONNECTIONS

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

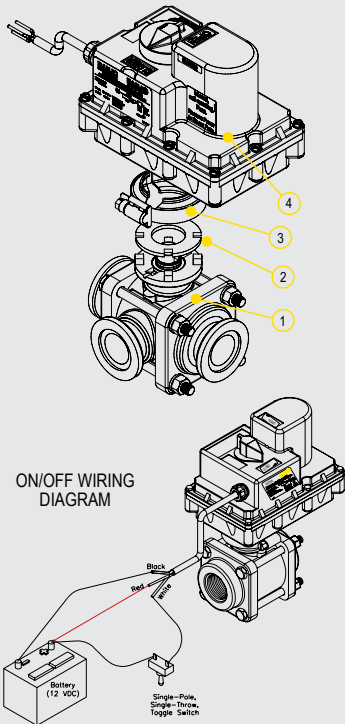
FEATURES

- 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
- Directional flow right or left and cannot be turned off
- Regulating valve not available in this configuration (Bottom Load)



REPAIR KIT INCLUDES:

- Stem with Seals
- Gasket
- Body O-Ring
- Ball Seals



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" 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	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
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



MV200CF

MV300CF

MANIFOLD 4 & 6 BOLTED VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
MV100CF	1" FULL 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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring



VSMT200CF



VSF200CF



MVS220FP



MVSF220FP



MVS220CF



MVSMT220FP

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
MVSMT220FP	2" FULL PORT MANIFOLD VALVE FLANGE X MALE NPT W/FKM SEALS	225	2"	2"	18/box	VS25153	VS25200

MANIFOLD FLANGE CONNECTIONS

2" FP STUBBY VALVES WITH STAINLESS STEEL



MVS220HSFP

MVSF220HSFP

MVSMT220HSFP

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.
- Stainless steel bolts
- Compact design
- FKM seals

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

REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring



VSFMT220SS

2" FP STUBBY STAINLESS STEEL VALVE

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
- PTFE self-lubricating stem bushings and seats cannot stick or bind

2" FULL PORT MANIFOLD STUBBY STAINLESS STEEL VALVE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSFMT220SS	2" FULL PORT MANIFOLD STUBBY SS VALVE MALE THREAD X MALE ADAPTER	150	2"	2"	1	VSS20153	VSS25200

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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring



MVSF300

MVSF300FP



MVSMT300

MVS300CF



MVS300CFPP

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
MVS300CFPP	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



MVS300HSFP

MVSF300HSFP



MVSMT300HSFP

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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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

PRESSURE SPIKE VALVES



FEATURES

- FKM seals.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- 360° orientation
- Preset pressure spring

MANIFOLD PRESSURE SPIKE VALVES

PART NO	DESCRIPTION	CRACKING PRESSURE	QTY
MPRV100-050	1" X 1/2" MANIFOLD PRESSURE SPIKE VALVE	50	1
MPRV100-075	1" X 3/4" MANIFOLD PRESSURE SPIKE VALVE	75	1
MPRV100-100	1" X 1" MANIFOLD PRESSURE SPIKE VALVE	100	1
MPRV100-125	1" X 1 1/4" MANIFOLD PRESSURE SPIKE VALVE	125	1
MPRV100-150	1" X 1 1/2" MANIFOLD PRESSURE SPIKE VALVE	150	1

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

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"	1 1/2"	1	DM20153M	DM20200A
DM200DCF	2" FEMALE MANIFOLD DRY-MATE WITH FKM SEALS	100	2"	1 1/2"	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

REPAIR KIT INCLUDES:

- Face seal
- Ball
- Seats
- Body gasket
- Thrust bearings
- Stem bushings

Note: Male and female sold separately

MANIFOLD FLANGE CONNECTIONS

BOOM NOZZLE PIPE ADAPTER

FEATURES

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



M100PA



M100PAC



M100PAT

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.



HV200



MHV220A

MANIFOLD INDUCTORS

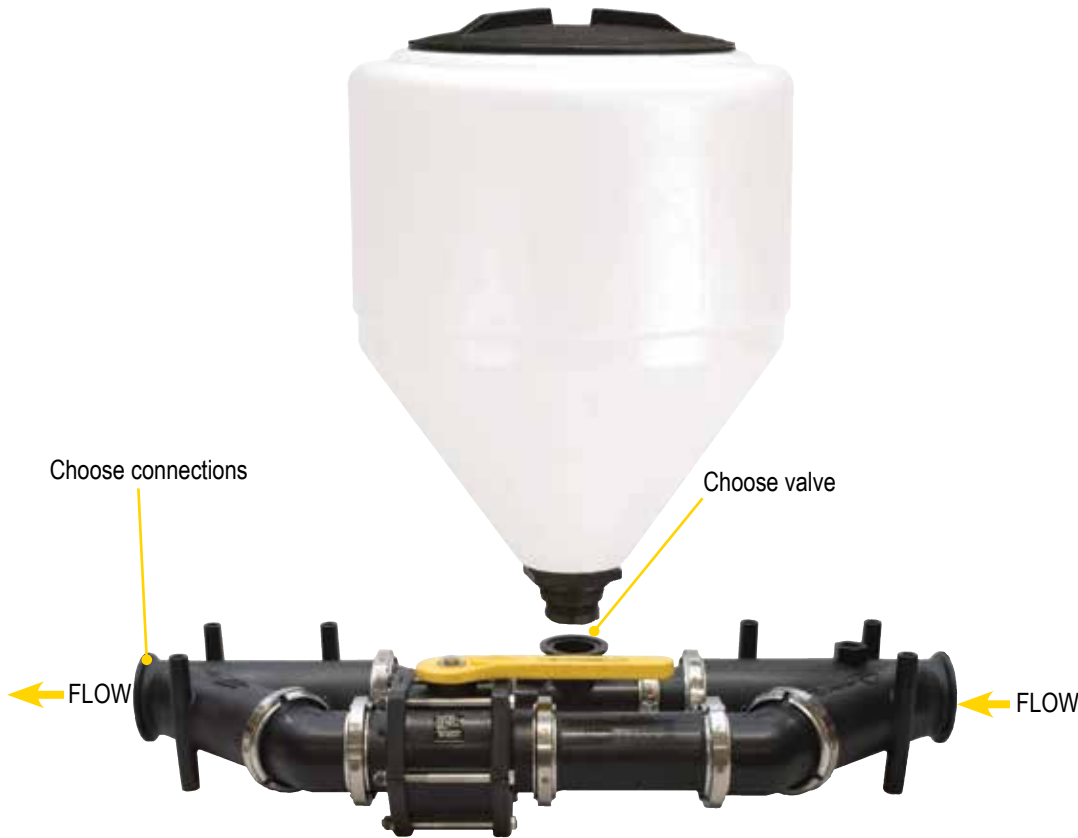
PART NO	DESCRIPTION	PRESSURE AT PUMP	VOLUME DRAW	OPENING SIZE	QTY
HV200	2" MPT INDUCTOR	225	49 GPM	7/16"	1
MHV200	2" MANIFOLD INDUCTOR WITH 1 1/2" PORT	300	37 GPM	5/16"	1
MHV220A	2" FULL PORT MANIFOLD INDUCTOR	225	49 GPM	9/16"	1

MANIFOLD FLANGE CONNECTIONS

INDUCTOR SYSTEMS

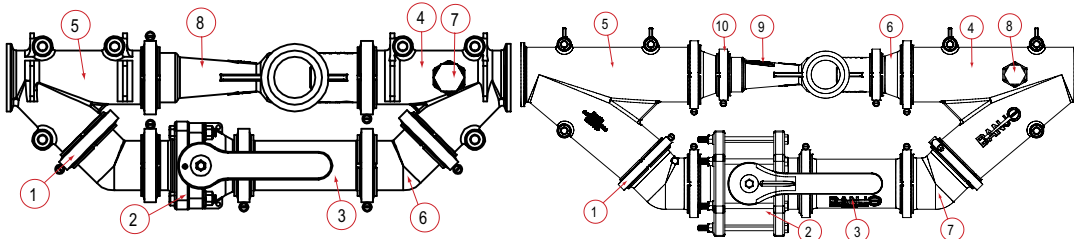
FEATURES

- 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/BAG
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
- ±1% of reading (between 10% and 100% of maximum flow)
- ±3% of reading (between cutoff and 10% of maximum flow)
- 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



FM100



MFM100



MFM220



MFM300

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
M100125BRBSWP90	1" FLANGE X 1/4" HOSE SHANK SWEEP	300	1
M100BRBSWP90	1" FLANGE X HOSE SHANK SWEEP	300	1
M100BRBSWPG90	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
M220BRBSWP90	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
M300ASWP90	3" FLANGE X MALE ADAPTER SWEEP	100	1
M300BRBSWP90	3" FLANGE X HOSE SHANK 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
M300220SWP90	3" FULL PORT FLANGE X 2" FULL PORT FLANGE SWEEP	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.



SWIVEL

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

CHECK VALVES

PART NO	DESCRIPTION	OPENING PRESSURE PSI	MAX PSI	QTY
MCV100	1" FLANGED CHECK VALVE	1	300	1
MCV200	2" FLANGED CHECK VALVE	0.5	300	1
MCV221	2" FULL PORT FLANGED CHECK VALVE	>0.5	200	1
MCV300	3" FLANGED CHECK VALVE W/5 LB SPRING	1.5	200	1
MCV301	3" FLANGED CHECK VALVE W/1/2 LB SPRING	>0.5	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	150	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
M220YG45	2" FULL PORT 45° Y FLANGE	300	1
M220YG45	2" FULL PORT 45° Y FLANGE W/ 1/4" GAUGE PORT	225	1
M300YG45	3" FULL PORT 45° Y FLANGE	200	1
M300YG45	3" FULL PORT 45° Y FLANGE W/ 1/4" GAUGE PORT	200	1



3" MANIFOLD WYE			
PART NO	DESCRIPTION	MAX PSI	QTY
M300220WYCG	M300 X M220 X M220 X M220 FULL PORT FLANGE WYE W/ 1/4" GAUGE PORT	300	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

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.



SS BUTT WELD ADAPTER

PART NO	DESCRIPTION	MAX PSI	QTY
M220BWASS	2" FULL PORT STAINLESS STEEL BUTT WELD ADAPTER	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
M200150FPT	2" FLANGE X 1 1/2" FEMALE THREAD	300	1
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	10/BAG
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 ANSI FLANGE

PART NO	DESCRIPTION	MAX PSI	QTY
MAF220	2" FP MANIFOLD FLANGE X ANSI FLANGE	150	1
MAF300	3" FP MANIFOLD FLANGE X ANSI FLANGE	150	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
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	10/BAG
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
M220150HBT	2" FULL PORT FLANGE X 1 1/2" HOSE BARB TEE	300	1
M220200HBT	2" FULL PORT FLANGE X 2" HOSE BARB TEE	300	1
M300200HBT	3" FLANGE X 2" HOSE BARB TEE	200	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	1
150GV	200 SERIES GASKET	FKM	1
200G	220 SERIES FULL PORT GASKET	EPDM	1
200GV	220 SERIES FULL PORT GASKET	FKM	1
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	1
300GV	300 SERIES GASKET	FKM	1
M301G	300 SERIES MANIFOLD GASKET WITH RIB	EPDM	1

MINI T STRAINERS

PART NO	DESCRIPTION	MAX PSI	QTY
MLSTM100-50	1" MANIFOLD MINI T STRAINER 50 MESH	300	1
MLSTM100-80	1" MANIFOLD MINI T STRAINER 80 MESH	300	1
MLSTM100-100	1" MANIFOLD MINI T STRAINER 100 MESH	300	1

MINI T STRAINERS W/CLEAR BOWLS

PART NO	DESCRIPTION	MAX PSI	QTY
MLSTM100-30C	1" MANIFOLD MINI T STRAINER 30 MESH WITH CLEAR BOWL	300	1
MLSTM100-50C	1" MANIFOLD MINI T STRAINER 50 MESH WITH CLEAR BOWL	300	1
MLSTM100-80C	1" MANIFOLD MINI T STRAINER 80 MESH WITH CLEAR BOWL	300	1
MLSTM100-100C	1" MANIFOLD MINI T STRAINER 100 MESH WITH CLEAR BOWL	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

MINI T LINE STRAINERS

- Heavy duty glass reinforced polypropylene
- Clear bowl made of polycarbonate
- Black bowl made of polypropylene
- Polypropylene ribbed 316 stainless steel screens
- EPDM gaskets standard
- Convenient color coded screens for easy mesh size identification.

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

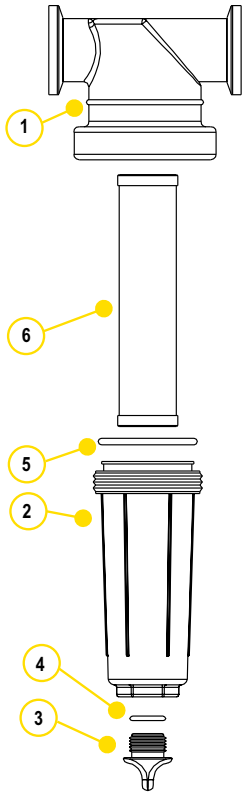
PART NO	DESCRIPTION	MAX PSI	QTY
MLS100-20	1" MANIFOLD Y STRAINER W/20 MESH SCREEN	225	1
MLS100-40	1" MANIFOLD Y STRAINER W/40 MESH SCREEN	225	1
MLS100-80	1" MANIFOLD Y STRAINER W/80 MESH SCREEN	225	1



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

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

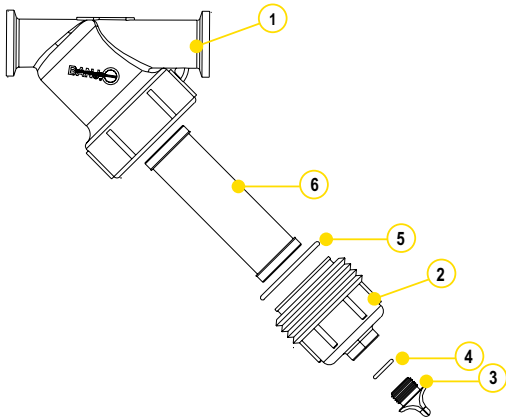
REPLACEMENT PARTS 2"

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	LS120	20 MESH SCREEN	1
6	LS140	40 MESH SCREEN	1
6	LS180	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	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
MLS222-08	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/16 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

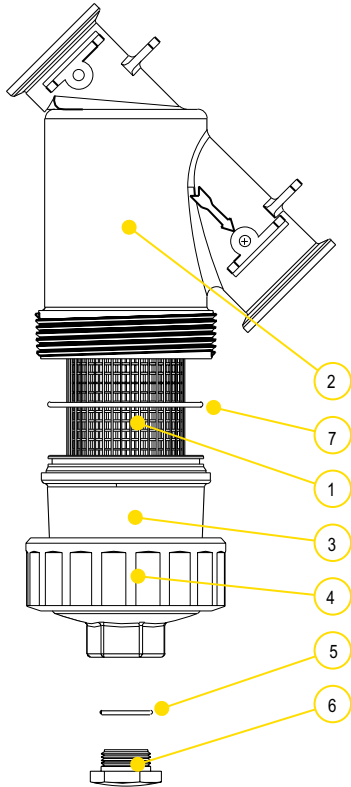
PART NO	DESCRIPTION	MAX PSI	QTY
MLS300-08	3" MANIFOLD Y STRAINER W/8 MESH SCREEN	100	1
MLS300-12	3" MANIFOLD Y STRAINER W/12 MESH SCREEN	100	1
MLS300-20	3" MANIFOLD Y STRAINER W/20 MESH SCREEN	100	1
MLS300-50	3" MANIFOLD Y STRAINER W/50 MESH SCREEN	100	1

MANIFOLD FLANGE CONNECTIONS

2" FULL PORT Y LINE STRAINERS

FEATURES

- EPDM gaskets
- 316 stainless steel screens



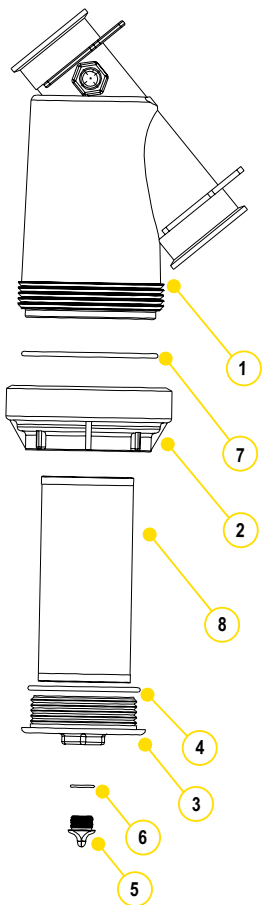
REPLACEMENT PARTS 2"

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
- EDPM standard
- FKM available



BOTTOM DRAIN BOLTED TANK FITTINGS

PART NO	DESCRIPTION	MAX PSI	QTY
MBF100BD	1" FLANGE X 1" 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

BOTTOM DRAIN BULKHEAD FITTINGS

FEATURES

- Bolt head plugs sealed ultrasonically
- Glass reinforced polypropylene
- EDPM standard
- Groove allows more drainage
- Gasket not included



BOTTOM DRAIN BULKHEAD 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
- EDPM standard
- FKM available



BOLTED TANK FITTINGS

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

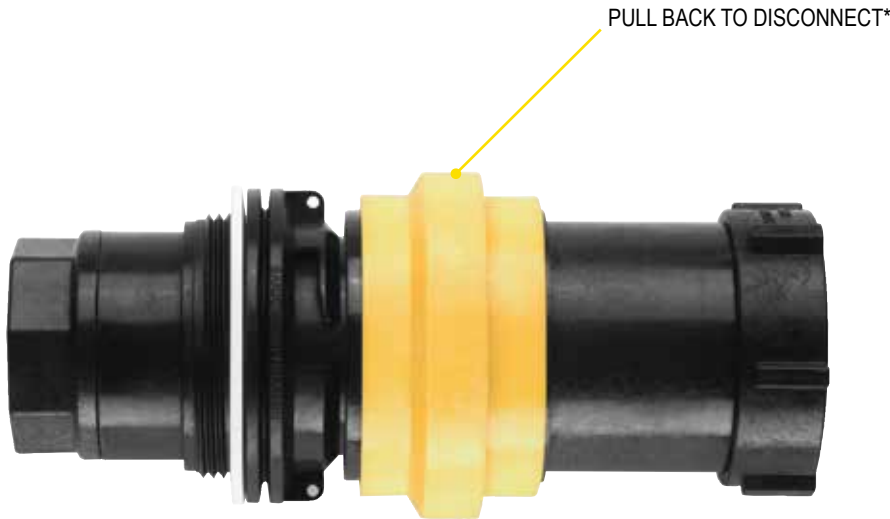
DRY POPPET COUPLINGS

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/1" MALE THREADED BODY 2" FEMALE NPT THREADS W/ FKM SEALS	150	1

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

DRY-MATES

1 1/2" POLY DRY-MATES

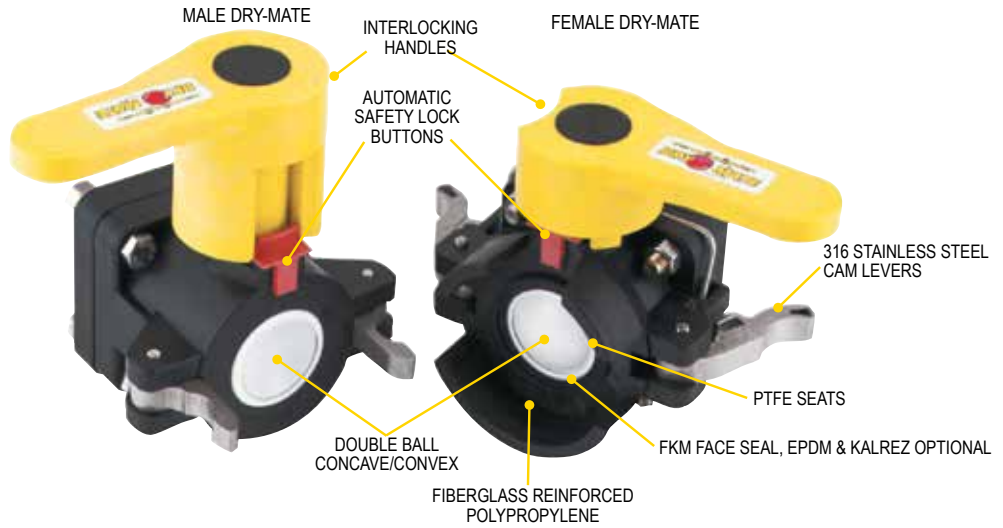
FEATURES

- Lightweight
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Unrestricted 1 1/2" 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: 1 1/2" = 2ml



REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring

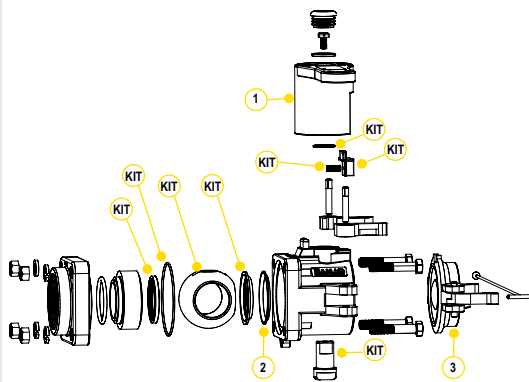


1 1/2" POLY MALE DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM150A	1 1/2" MALE X FPT NPT W/FKM SEALS	100	1 1/2"	1 1/2"	1
DM150AE	1 1/2" MALE X FPT NPT W/EPDM SEALS	100	1 1/2"	1 1/2"	1
DM150AB	1 1/2" MALE X FPT BSP W/FKM SEALS	100	1 1/2"	1 1/2"	1

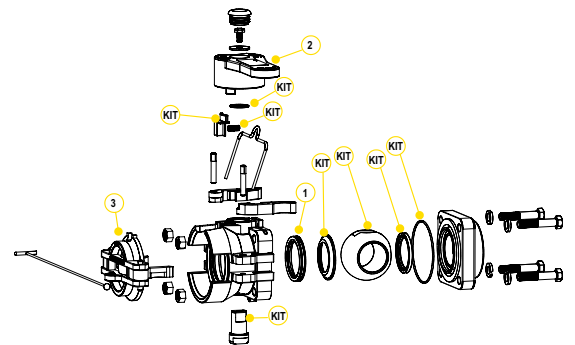
1 1/2" POLY FEMALE DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM150D	1 1/2" FEMALE X FPT NPT W/FKM SEALS	100	1 1/2"	1 1/2"	1
DM150DE	1 1/2" FEMALE NPT W/EPDM SEALS	100	1 1/2"	1 1/2"	1
DM150DB	1 1/2" FEMALE X FPT BSP W/FKM SEALS	100	1 1/2"	1 1/2"	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	DB20295	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	DB20295	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 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" = 2.6ml



2" POLY MALE DRY-MATE

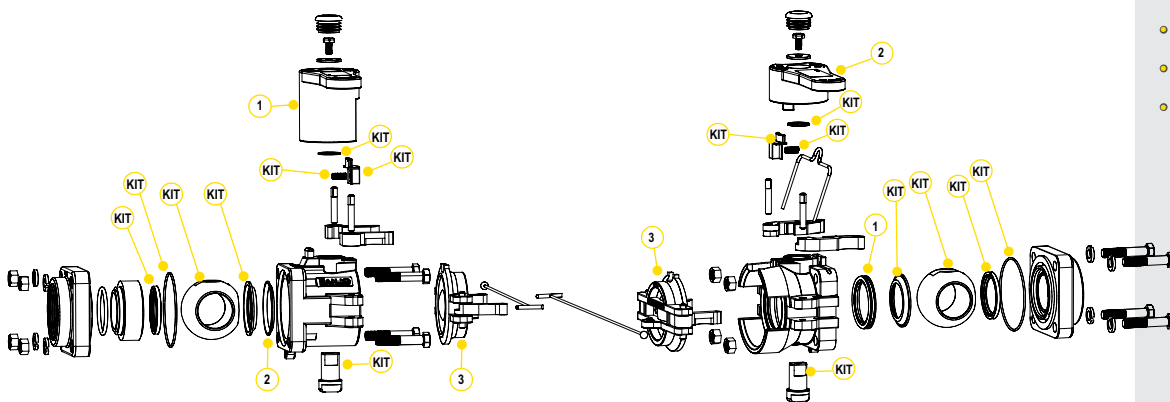
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM200A	2" MALE X FPT NPT W/FKM SEALS	100	2"	1½"	1
DM200AB	2" MALE X FPT BSP W/FKM SEALS	100	2"	1½"	1
DM200AE	2" MALE X FPT NPT W/EPDM SEALS	100	2"	1½"	1
DM200AT	2" MALE X FPT NPT W/ KALREZ® SEALS	100	2"	1½"	1
DMMT201A	2" MALE X MALE NPT W/LOW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

REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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	DB20295	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	DB20295	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" FP = 3.6ml



DM220D

DM220A

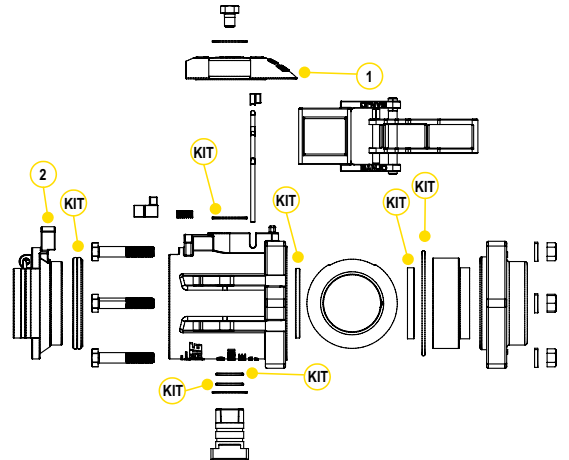
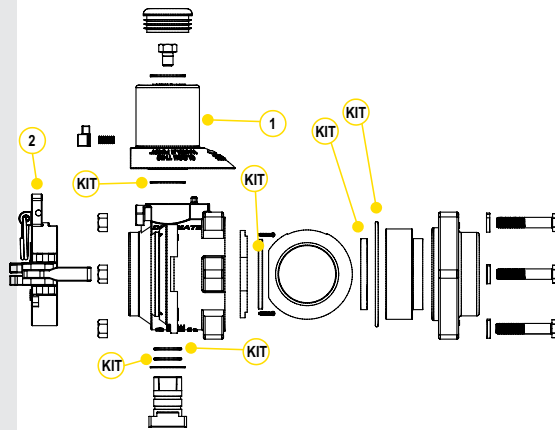
2" FULL PORT POLY DRY-MATES

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



REPAIR KIT INCLUDES:

- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring
- 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" = 20ml



REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring
- Face seal



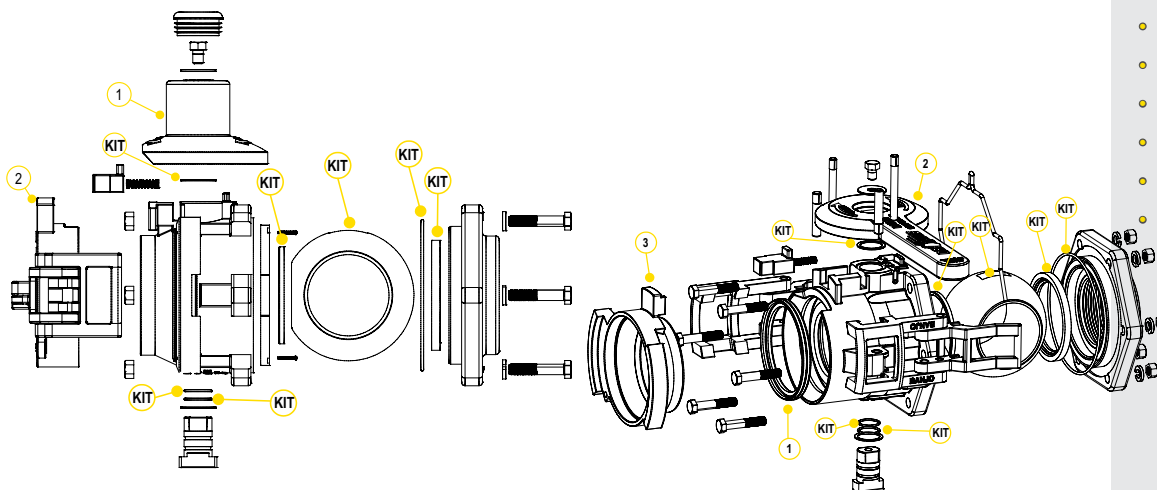
DM300DFP



DM300AFP

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
DM300DFP	3" FP FEMALE X 3" FEMALE NPT 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" FP = 1.7ml



DM100ASS

DM100DSS

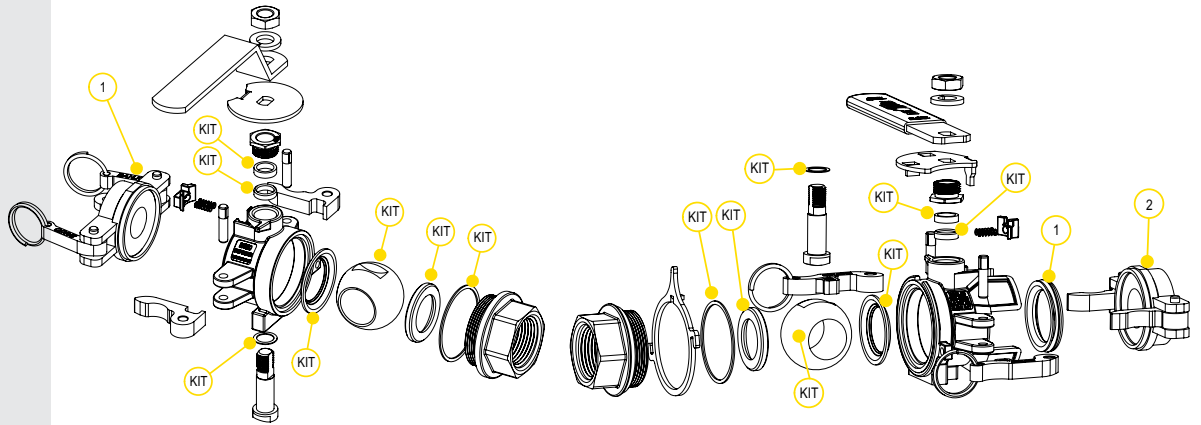
1" FULL PORT STAINLESS STEEL DRY-MATE

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
DM100DBSS	1" FEMALE X FPT BSP W/ FKM SEALS	150	1"	1"	1
DM100DBSST	1" FEMALE X FPT BSP W/ KALREZ® SEALS	150	1"	1"	1



REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring
- Face seal



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



DM150ASS



DM150DSS

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" FP = 3ml

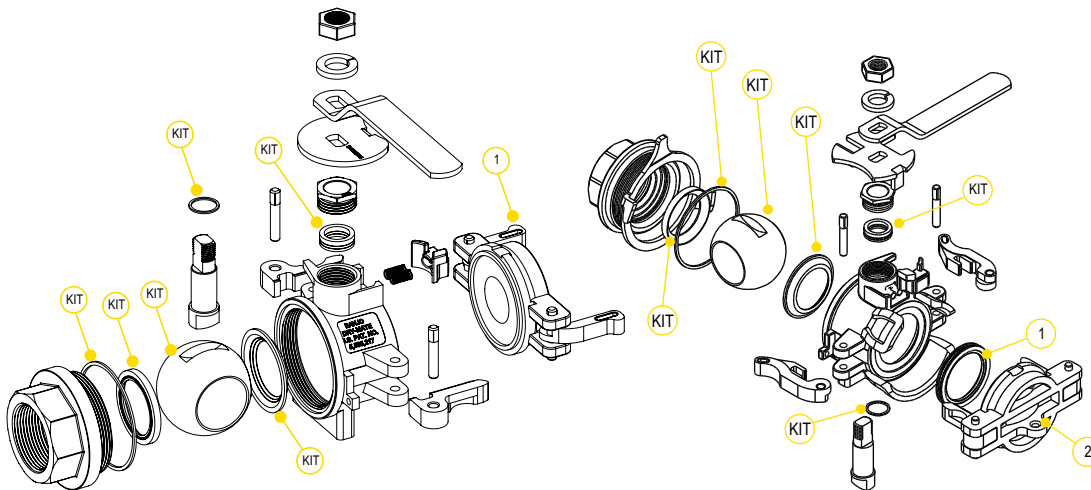
1 1/2" FULL PORT STAINLESS STEEL DRY-MATE

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
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



REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring
- 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	DB20295	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" = 3.6ml



DM200ASS



DM200DSS

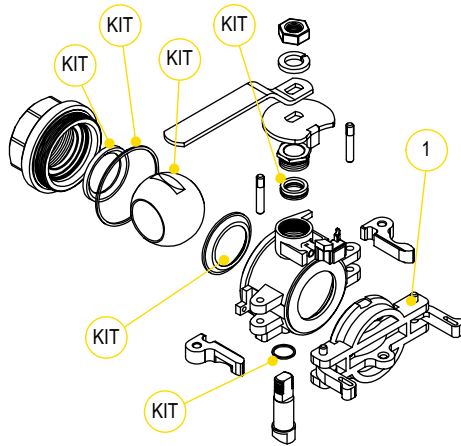
2" STANDARD PORT STAINLESS STEEL DRY-MATE

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM200ASS	2" MALE X FPT NPT W/ PTFE SEALS	300	2"	1½"	1
DM200ABSS	2" MALE X FPT BSP W/ PTFE SEALS	150	2"	1½"	1
DM200DSS	2" FEMALE X FPT NPT W/ FKM SEALS	300	2"	1½"	1
DM200DSSE	2" FEMALE X FPT NPT W/ EPDM SEALS	150	2"	1½"	1
DM200DSST	2" FEMALE X FPT NPT W/ KALREZ® SEALS	150	2"	1½"	1
DM200DBSS	2" FEMALE X FPT BSP W/ FKM SEALS	150	2"	1½"	1
DM200DBSSE	2" FEMALE X FPT BSP W/ EPDM SEALS	150	2"	1½"	1



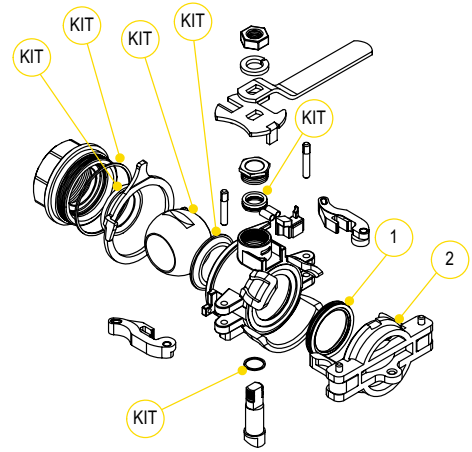
REPAIR KIT INCLUDES:

- Ball
- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- Stem o-ring
- 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	DB20295	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



DM220ASS



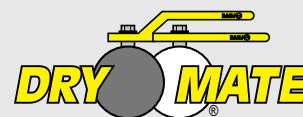
DM220DSS

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
DM220DBSS	2" FULL PORT FEMALE X FPT BSP W/ FKM SEALS	300	2"	2"	1

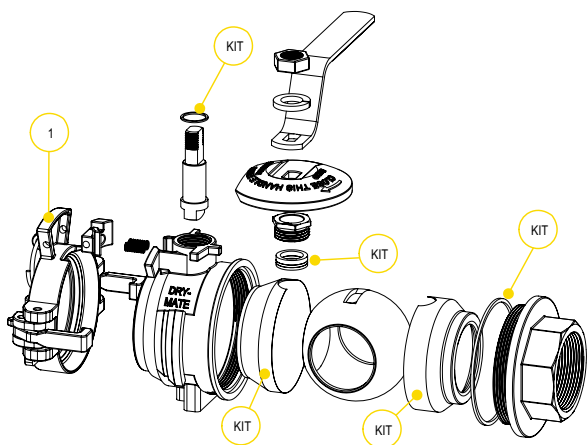
FEATURES

- 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 = 3.8ml



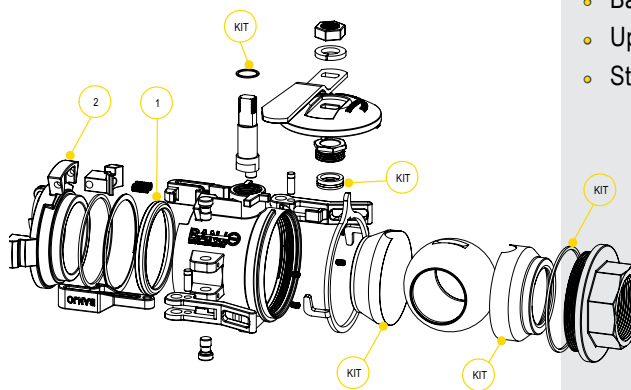
REPAIR KIT INCLUDES:

- Body gasket
- Thrust washer
- Ball seats
- Upper stem bushing
- 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



CTS200AR



CTS200D



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



W230237



W230238



W230239



W230240



WSF210FSA



WSF210FSAV



WSMT210FSA



WSMT210FSAV

Identifying collar number found here

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



MBP200



NIP2101

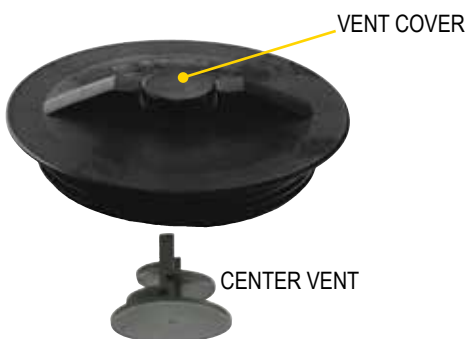


UV204FFPD

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
UV204FFPD	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



SIPHON TUBES

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

FEATURES

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

IBC/TANK ACCESSORIES

POLYPROPYLENE ACCESSORIES

FEATURES

- Glass reinforced polypropylene



BUTRESS BY MALE ADAPTER

PART NO	DESCRIPTION	GASKET	PSI	QTY
TA283	2" BUTRESS X 2" MALE NPT THREADS W/GASKET	SANTOPRENE	300	1
TA283QD	2" BUTRESS 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



BF150



BF300



BOLTED TANK FLANGES

PART NO	DESCRIPTION	PSI	QTY
BF075	3/4" X 1" THREADED EPDM FLANGE	150	27
BF100	1" X 1" THREADED EPDM FLANGE	150	27
BF125	1 1/4" X 1" THREADED EPDM FLANGE	150	27
BF150	1 1/2" 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
BF300	3" X 3" THREADED EPDM FLANGE	150	16

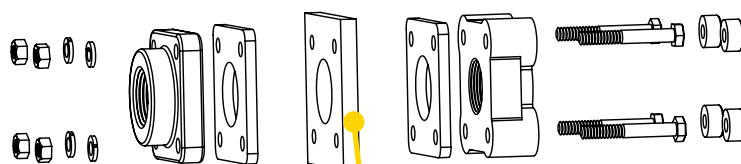
BOLTED TANK FLANGE GASKETS

PART NO	DESCRIPTION	PSI	QTY
BF100GE	1" EPDM GASKET	N/A	1
BF200GE	1 1/2" & 2" EPDM GASKET	N/A	1
BF200GV	1 1/2" & 2" 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" EPDM GASKET	N/A	1
BF300GV	3" FKM GASKET	N/A	1

FEATURES

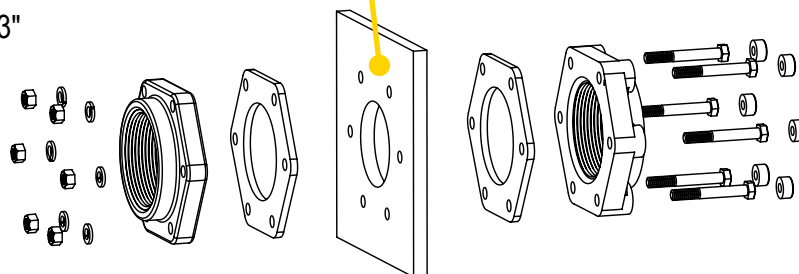
- Stainless steel bolts
- Bolt head plugs ultrasonically sealed
- Glass reinforced polypropylene
- EPDM gaskets standard and FKM available
- **WARNING:** Do not tighten tank flange bolts more than 12 ft pounds

3/4" — 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
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" EPDM GASKET	N/A	1
BF100GRE	3/4", 1" & 1 1/4" FOOT EPDM GASKET	N/A	1
BF100GRV	3/4", 1" & 1 1/4" FOOT FKM GASKET	N/A	1
BF200GE	1 1/2" & 2" EPDM GASKET	N/A	1
BF200GV	1 1/2" & 2" FKM GASKET	N/A	1
BF200GFV	1 1/2" & 2" STD. PORT. 2" FULL PORT FOOT 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" EPDM GASKET	N/A	1
BF300GV	3" FKM GASKET	N/A	1
BF300GFE	3" FOOT EPDM GASKET	N/A	1
BF300GFV	3" FOOT FKM GASKET	N/A	1

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	1
TF138GV	1/2" Poly Bulkhead FKM Gasket	1 3/8"		TF050SS	1
150G	1/2" & 3/4" Poly Bulkhead EPDM Gasket	1 5/8"	TF050 & TF075	TF075SS	1
150GV	1/2" & 3/4" Poly Bulkhead FKM Gasket	1 5/8"	TF050 & TF075	TF075SS	1
TF100G	1" & 1 1/4" Poly Bulkhead EPDM Gasket	2 1/4"	TF100 & TF125	TF100SS & TF125SS	1
TF100GV	1" & 1 1/4" Poly Bulkhead FKM Gasket	2 1/4"	TF100 & TF125	TF100SS & TF125SS	1
300G	1 1/2" & 2" Poly Bulkhead EPDM Gasket	3"	TF200 & TF150	TF200SS & TF150SS	1
300GV	1 1/2" & 2" Poly Bulkhead FKM Gasket	3"	TF200 & TF150	TF200SS & TF150SS	1
TF220G	2" Poly Bulkhead EPDM Gasket	3 1/4"	TF220	TF220SS	1
TF220GV	2" Poly Bulkhead FKM Gasket	3 1/4"	TF220	TF220SS	1
TF300G	3" Poly Bulkhead EPDM Gasket	4 1/2"	TF300	TF300SS	1
TF300GV	3" Poly Bulkhead FKM Gasket	4 1/2"	TF300	TF300SS	1
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

ANSI FLANGES

FEATURES

- Glass reinforced polypropylene
- Heavy duty



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



CAM LEVER COUPLINGS

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

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	1
150GV	1½" FKM GASKET	1
200GB	2" BUNA GASKET	1
200GV	2" FKM GASKET	1
300GV	3" FKM GASKET	1
400GV	4" FKM GASKET	1

¾"-3" 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" 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.



POLYPROPYLENE CAM LEVER COUPLINGS

ITEM	DESCRIPTION	1/4"	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	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		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

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

- 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.

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 also available
- 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.

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 1 1/2" SERIES POLY CAM LEVER COUPLINGS

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

2 1/2" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
250CAP	2 1/2" CAP X MALE ADAPTER	300	EPDM	1
250PL	2 1/2" PLUG X FEMALE COUPLER	300	N/A	1

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	200	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

CAM LEVER COUPLINGS

EASY ACTION
LOCKING LEVER!



1½" - 2" SERIES LOCKING POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
L150B	1½" FEMALE COUPLER X 1½" MALE THREAD	300	EPDM	1
L150C	1½" FEMALE COUPLER X 1½" HOSE SHANK	300	EPDM	1
L150D	1½" FEMALE COUPLER X 1½" FEMALE THREAD	300	EPDM	1
L150CAP	1½" CAP X MALE ADAPTER	300	EPDM	1
L200B	2" FEMALE COUPLER X 2" MALE THREAD	225	EPDM	1
L200C	2" FEMALE COUPLER X 2" HOSE SHANK	225	EPDM	1
L200D	2" FEMALE COUPLER X 2" FEMALE THREAD	200	EPDM	1
L200CAP	2" CAP X MALE ADAPTER	200	EPDM	1

¼"-4" POLYPROPYLENE

FEATURES

- Chemical resistant to protect against corrosion
- Versatile to interchange with all types of cam lever couplings
- Smooth operation makes connections quick and easy
- Where noted, parts must be ordered in bag quantities
- Locking cam arm lever is not intended to be used as a security device or prevent unauthorized opening of coupling assembly.

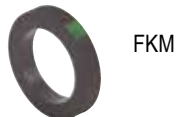


SPOOL ADAPTERS

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

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	1
150G	1½" EPDM GASKET	1
150GV	1½" FKM GASKET	1
200G	2" EPDM GASKET	1
200GV	2" FKM GASKET	1
300G	3" EPDM GASKET	1
300GV	3" FKM GASKET	1
400G	4" EPDM GASKET	1
400GV	4" FKM GASKET	1
200KL	2" LOCKING CAM ARM WITH RING FITS 1½" & 2"	1
200PKL	2" COUPLING PIN FITS 1½" & 2"	1



LOCKING ARM
WITH RING



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	N/A	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	N/A	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	N/A	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	N/A	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

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



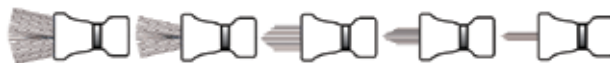
GARDEN HOSE FITTINGS

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
GHFT075G	3/4" GARDEN HOSE FITTING GASKET	N/A	1

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
- Please note new Min-Max Diameter measurements.



SUPER CLAMPS

PART NO	DESCRIPTION	MIN-MAX DIAMETER	MAX TORQUE	QTY
TC120	1" T-BOLT HOSE CLAMP	1.18"-1.34"	75 IN-LBS	10/BAG
TC130	1¼" T-BOLT HOSE CLAMP	1.34"-1.50"	75 IN-LBS	10/BAG
TC150	1½" T-BOLT HOSE CLAMP	1.50"-1.62"	75 IN-LBS	10/BAG
TC162	1¾" T-BOLT HOSE CLAMP	1.62"-1.87"	75 IN-LBS	10/BAG
TC181	1½" T-BOLT HOSE CLAMP	1.84"-2.12"	75 IN-LBS	10/BAG
TC193	1½" T-BOLT HOSE CLAMP	1.93"-2.24"	75 IN-LBS	10/BAG
TC206	2" T-BOLT HOSE CLAMP	2.17"-2.48"	75 IN-LBS	10/BAG
TC218	2" T-BOLT HOSE CLAMP	2.18"-2.52"	75 IN-LBS	10/BAG
TC224	2" T-BOLT HOSE CLAMP	2.24"-2.58"	75 IN-LBS	10/BAG
TC231	2" T-BOLT HOSE CLAMP	2.31"-2.65"	75 IN-LBS	10/BAG
TC250	2" T-BOLT HOSE CLAMP	2.50"-2.81"	75 IN-LBS	10/BAG
TC287	2" T-BOLT HOSE CLAMP	2.83"-3.21"	75 IN-LBS	10/BAG
TC312	3" T-BOLT HOSE CLAMP	3.24"-3.58"	75 IN-LBS	10/BAG
TC331	3" T-BOLT HOSE CLAMP	3.27"-3.65"	75 IN-LBS	10/BAG
TC343	3" T-BOLT HOSE CLAMP	3.39"-3.77"	75 IN-LBS	10/BAG
TC425	4" T-BOLT HOSE CLAMP	4.21"-4.59"	75 IN-LBS	10/BAG
TC438	4" T-BOLT HOSE CLAMP	4.28"-4.69"	125 IN-LBS	10/BAG
TC456	4" T-BOLT HOSE CLAMP	4.46"-4.87"	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
RB075-025	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
RB125-038	1 1/4" MPT X 3/8" 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
CAP025	1/4" POLY PIPE CAP	300	10/BAG
CAP038	3/8" POLY PIPE CAP	300	10/BAG
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° 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

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



45° ELBOW

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



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° 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



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

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
HB038-050	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
HBF075	3/4" FEMALE THREAD	300	10/BAG
HBF075-100	3/4" FEMALE THREAD X 1" HOSE SHANK	300	10/BAG
HBF100	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	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" 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.



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

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

LINE STRAINERS

MINI T STRAINERS

FEATURES

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



MINI T STRAINERS W/CLEAR BOWLS

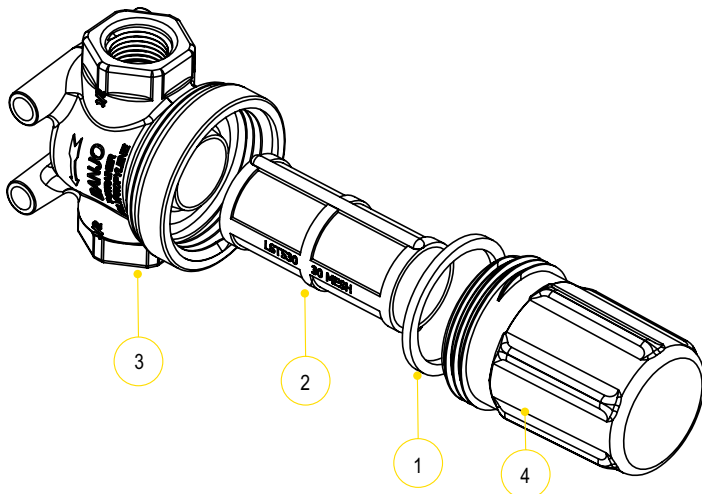
PART NO	DESCRIPTION	MAX PSI	QTY
LSTM050-30C	1/2" X 1/2" CLEAR BOWL STRAINER W/30 MESH SCREEN	100	1
LSTM050-50C	1/2" X 1/2" CLEAR BOWL STRAINER W/50 MESH SCREEN	100	1
LSTM050-80C	1/2" X 1/2" CLEAR BOWL STRAINER W/80 MESH SCREEN	100	1
LSTM050-100C	1/2" X 1/2" CLEAR BOWL STRAINER W/100 MESH SCREEN	100	1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

MINI T STRAINERS



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

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

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)



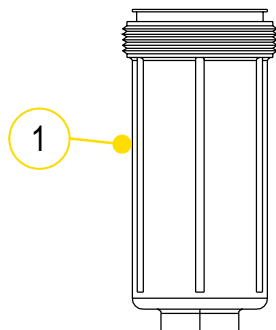
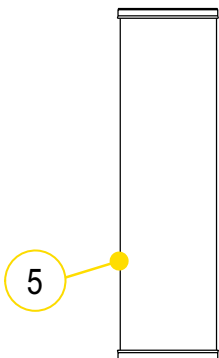
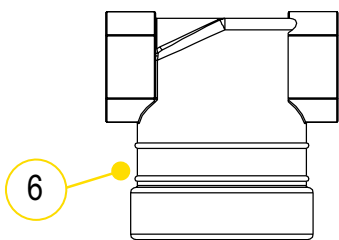
¾"-1" T STRAINERS

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 (CONTAINS #1, #3, #4)	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	UV15163	EPDM 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 (CONTAINS #1, #3, #4)	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-R	EPDM 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 MESHES & 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

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)



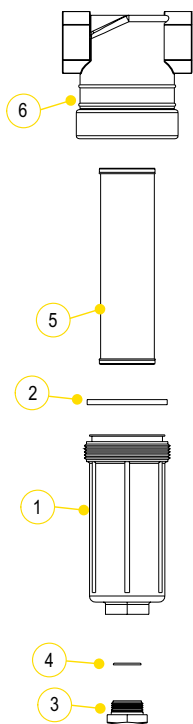
1 1/2" LSQ STRAINERS

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

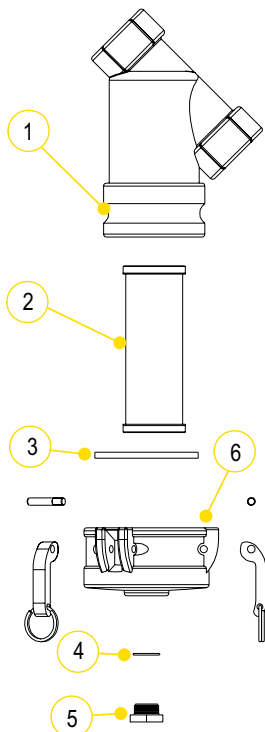
2" LSQ STRAINERS

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

2" T STRAINERS POLY/STAINLESS COMBO



REPLACEMENT PARTS			
ITEM	PART NO	DESCRIPTION	QTY
1	LST200-B	2" POLY BOWL (CONTAINS #1, #3, #4)	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
6	LST200-HSS	2" SS HEAD	1
N/S	LST200-HBSS	2" SS HEAD, POLY BOWL & GASKET	1



REPLACEMENT PARTS			
ITEM	PART NO	DESCRIPTION	QTY
1	LSQ150-B	1 1/2" 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	LSQ200R1	O-RING	1
5	PLUG075S	3/4" CLEAN OUT PLUG	1
6	LSQ200-C	2" CAP (CONTAINS #3-6)	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

1/2"-1 1/4" 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
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)



1/2"-3/4" Y STRAINERS

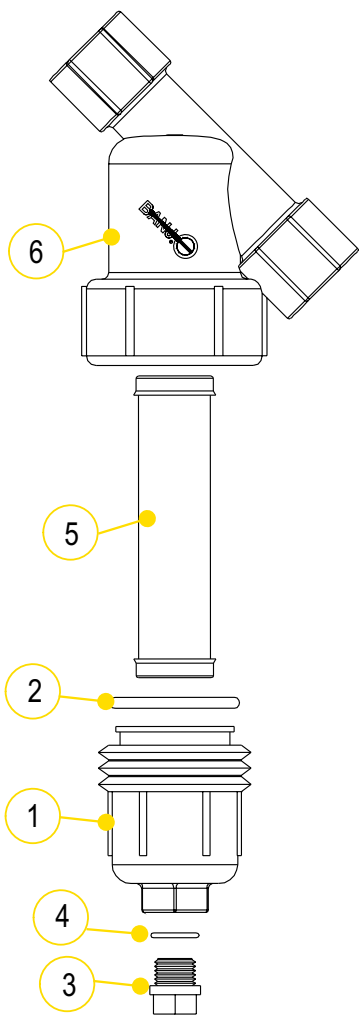
PART NO	DESCRIPTION	MAX PSI	QTY
LS050-20	1/2" X 1/2" Y STRAINER W/20 MESH SS SCREEN	225	1
LS050-40	1/2" X 1/2" Y STRAINER W/40 MESH SS SCREEN	225	1
LS050-80	1/2" X 1/2" Y STRAINER W/80 MESH SS SCREEN	225	1
LS075-20	3/4" X 3/4" Y STRAINER W/20 MESH SS SCREEN	225	1
LS075-40	3/4" X 3/4" Y STRAINER W/40 MESH SS SCREEN	225	1
LS075-80	3/4" X 3/4" Y STRAINER W/80 MESH SS SCREEN	225	1



1"-1 1/4" 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	1 1/4" X 1 1/4" Y STRAINER W/20 MESH SS SCREEN	200	1
LS125-40	1 1/4" X 1 1/4" Y STRAINER W/40 MESH SS SCREEN	200	1
LS125-80	1 1/4" X 1 1/4" Y STRAINER W/80 MESH SS SCREEN	200	1

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



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LS075-C1	1/2"-3/4" END CAP (CONTAINS #1, #3, #4)	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 (CONTAINS #1, #3, #4)	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

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

STANDARD MESHERS & 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

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
- Convenient color coded screens for easy mesh size identification (Refer to chart on next page)



1½" Y STRAINERS

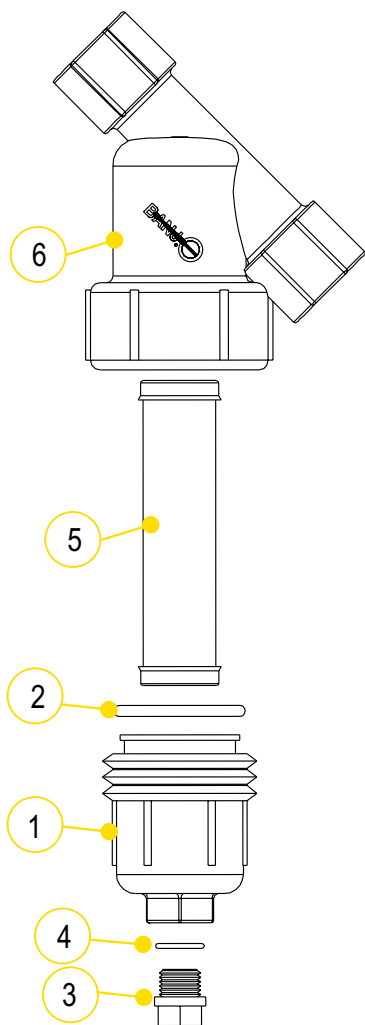
PART NO	DESCRIPTION	MAX PSI	QTY
LS150-06	1½" X 1½" Y STRAINER W/6 MESH SS SCREEN	150	1
LS150-12	1½" X 1½" Y STRAINER W/12 MESH SS SCREEN	150	1
LS150-20	1½" X 1½" Y STRAINER W/20 MESH SS SCREEN	150	1
LS150-30	1½" X 1½" Y STRAINER W/30 MESH SS SCREEN	150	1
LS150-50	1½" X 1½" Y STRAINER W/50 MESH SS SCREEN	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 (CONTAINS #1, #3, #4)	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	.028	.023	.016	.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
- 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

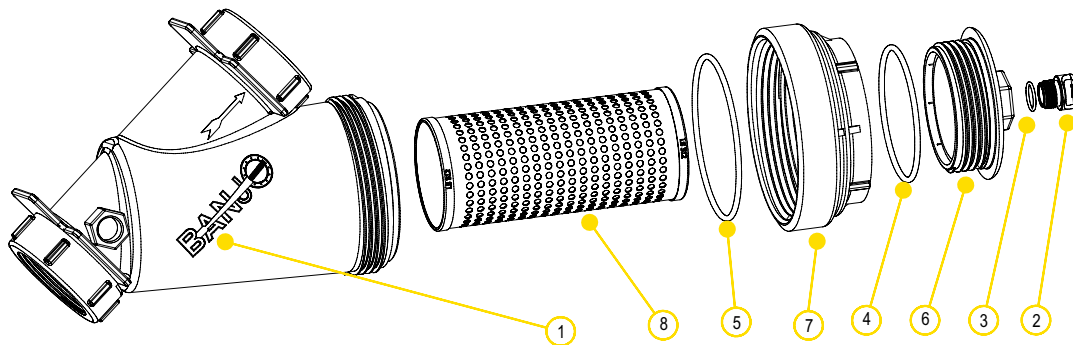
FEATURES

- 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	1
LSS300-SV	FKM SCREEN SEAL	1
LSS300-G	EPDM CAP GASKET	1
LSS300-GV	FKM CAP GASKET	1

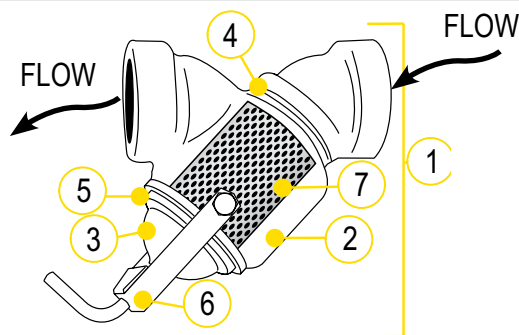


3" Y STRAINERS

- 304 stainless steel screens

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 STAINLESS STEEL 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	1
4	LSS300-SV	FKM SCREEN SEAL	1
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

CENTRIFUGAL PUMPS

PUMP ACCESSORIES
PAGES 101

ROLL CAGES
SUCTION BASKET STRAINERS
BASE PLATES

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
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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
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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

ENGINE REFERENCE GUIDE
PAGE 162



ROLL CAGE

FEATURES

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

PUMP ROLL CAGES

PART NO	DESCRIPTION	QTY
PRC200	2" PUMP ROLL CAGE	1



SUCTION BASKET STRAINERS

FEATURES

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

SUCTION BASKET STRAINERS

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



BASE PLATE ASSEMBLY

FEATURES

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

BASE PLATE ASSEMBLY

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

CENTRIFUGAL PUMPS

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



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-5E	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	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
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



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



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



2" POLY PUMP BEARING PEDESTALS

PART NO	DESCRIPTION	HP	QTY
200PB	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 3 VANE IMPELLER	N/A	1
200PB-V	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 3 VANE IMPELLER W/FKM & 316 SS SEAL	N/A	1
205PB	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 5 VANE IMPELLER	N/A	1
205PB-V	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 5 VANE IMPELLER W/FKM & 316 SS SEAL	N/A	1



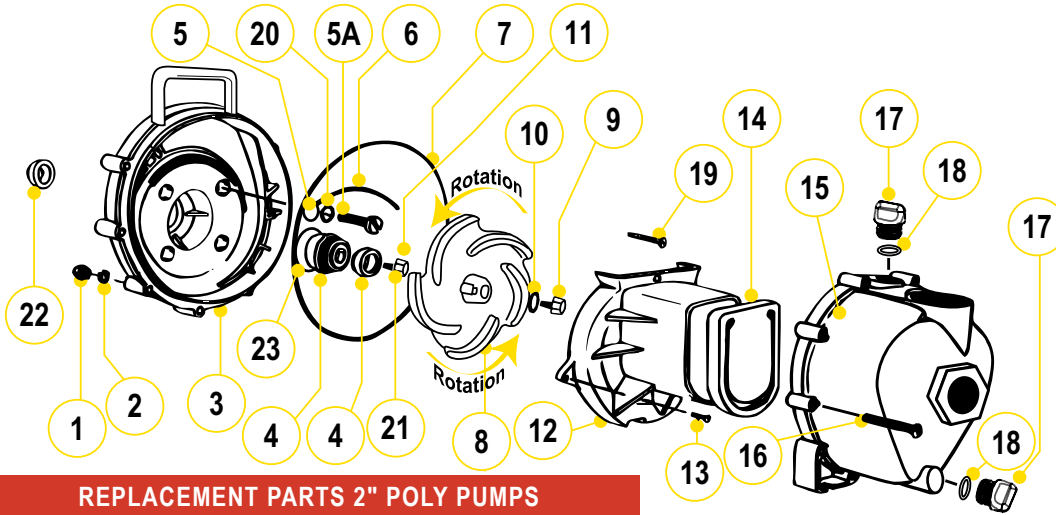
2" POLY PUMP ONLYS

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 3/4" shaft on motor

CENTRIFUGAL PUMPS

2" POLY PUMPS

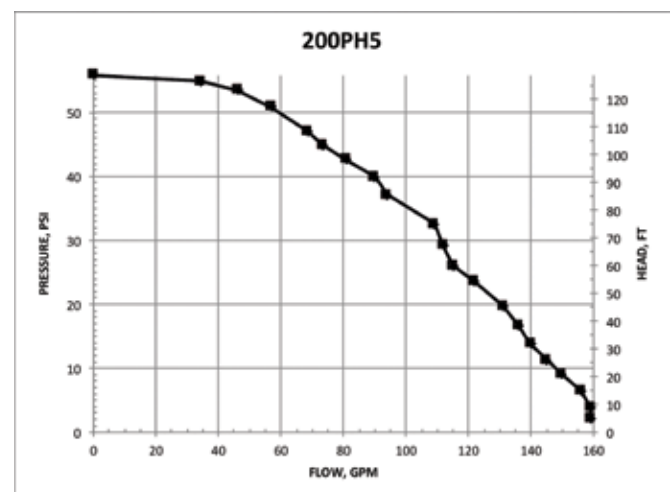


REPLACEMENT PARTS 2" POLY PUMPS

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	12713V	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	1/2" 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-5E	12000A	12999A
200PH-5V	12000AV	12999AV
200PH6	12000A	12999A
200P6PRO	12000A	12999A
200P6PROE	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

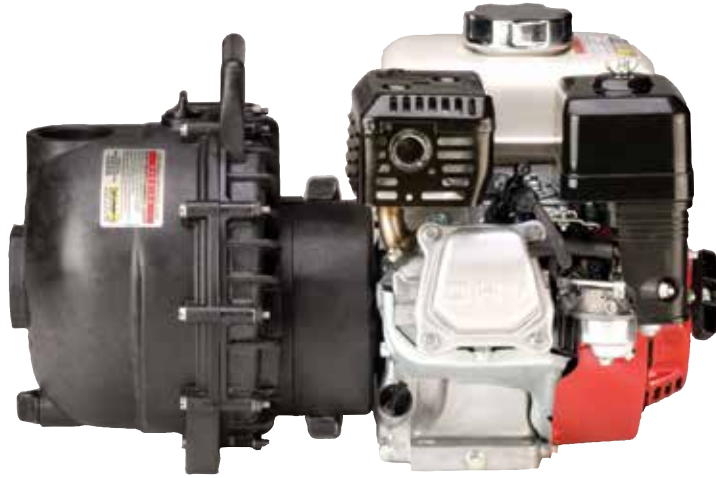
2" POLY WET SEAL PUMPS

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

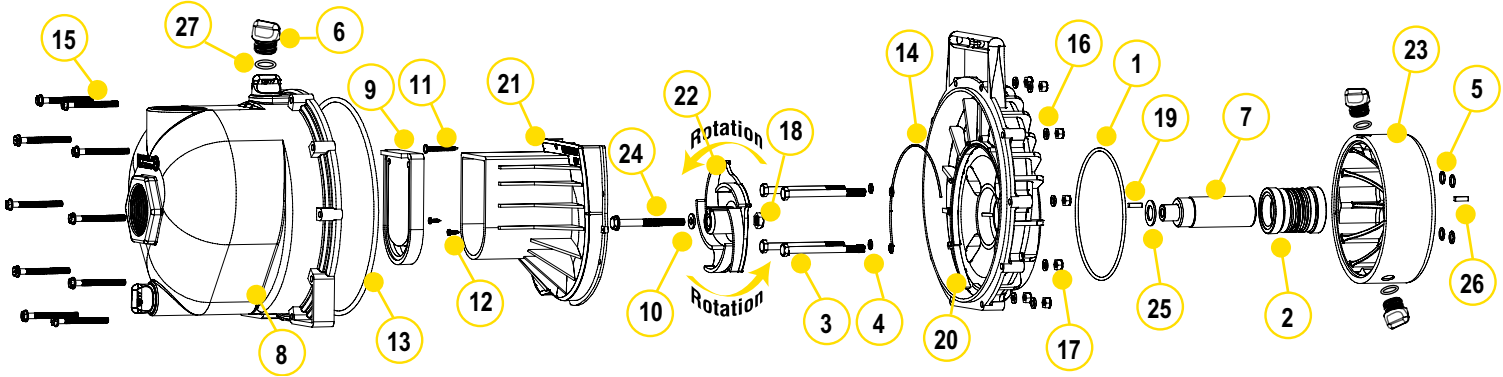


2" POLY WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
205POWV	2" POLY WET SEAL PUMP ONLY 5 VANE IMPELLER WITH FKM SEALS	N/A	1

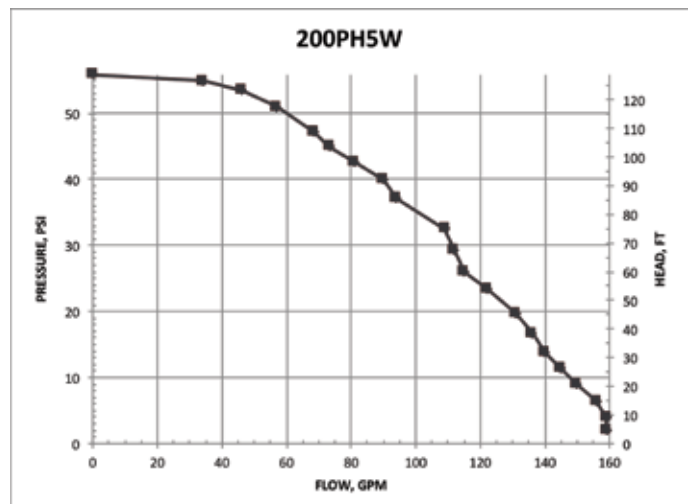
CENTRIFUGAL PUMPS

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	5/16" -24 X 3 3/4" HHCS	4
4	12717	O-RING FOR BRACKET SCREW	4
5	12709	O-RING	4
6	12777	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 1/2" PPH SMS	1
12	12725	#6 X 1/2" PPH SMS	2
13	12719A	BODY O-RING	1
14	12754	O-RING SEGMENT	1
15	12720	1/4" - 20 X 2 1/2" SL IND HWHS	10
16	V07018	1/4" LOCK WASHER	10
17	V07019	1/4" - 20 HEX NUT	10
18	12775A	7/16" - 14 HEX NUT	1
19	12902A	3/16" SQ. X 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	5/16" - 24 X 3 1/4" HFS	1
25	CV10175	GASKET	1
26	12902A	1/4" SQ. 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
- The "Super Slinger" included for even more drive unit protection (not shown)



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

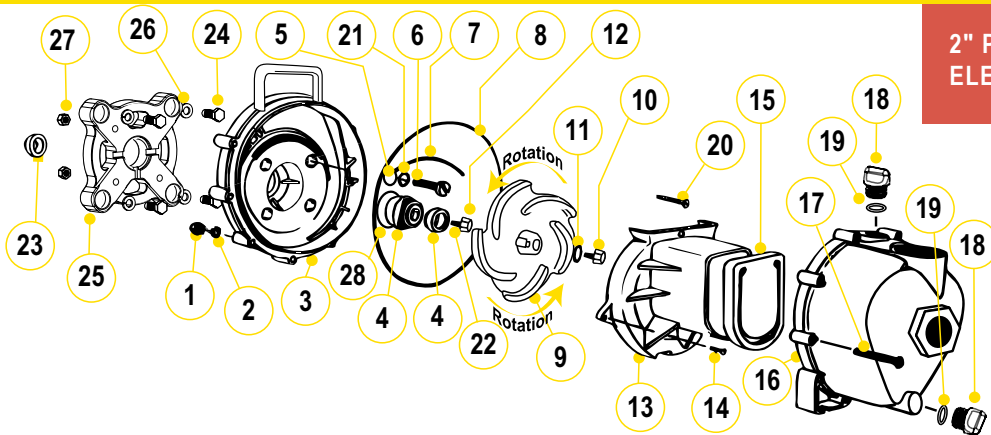


2" POLY PUMPS FOR 56C FACED MOTORS

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

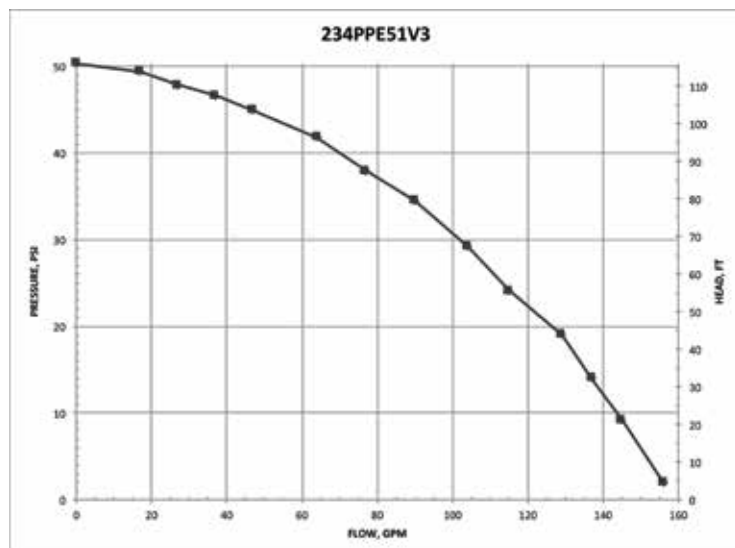
ITEM	PART NO	DESCRIPTION	QTY
1	V07019	SS BODY NUTS	10
2	V07018	SS LOCK WASHERS	10
3	12703A	POLY PUMP REAR BRACKET	1
4	12713	SEAL ASSEMBLY EPDM	1
4	12713V	SEAL ASSEMBLY FKM	1
5	12717	SCREW HEADS O-RING EPDM	4
5	12717V	SCREW HEADS O-RING FKM	4
6	BF107	SS BRACKET SCREWS	4
7	12754	O-RING SEGMENT EPDM	1
7	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	12716	PUMP SLINGER	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
28	12710	O-RING FOR SEAL ASSEMBLY	1
28	12710V	FKM O-RING FOR SEAL ASSEMBLY	1

REPLACEMENT PARTS 2" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
N/S	17701	BASE PLATE	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	12052	56C FRAME ADAPTER SHAFT FOR 200PEO	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, 5, 7, 8, 9, 11, 15, 19, 23 & 12099)	1
KIT	12000AV	5 VANE FKM IMPELLER REPAIR KIT (ITEMS 4, 5, 7, 8, 9, 11, 15, 19, 23 & 12099)	1
KIT	12999A	PUMP SEAL/O-RING KIT (ITEMS 4, 5, 7, 8, 11, 19, 23)	1
KIT	12999AV	FKM PUMP SEAL/O-RING KIT (ITEMS 4, 5, 7, 8, 11, 19, 23)	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

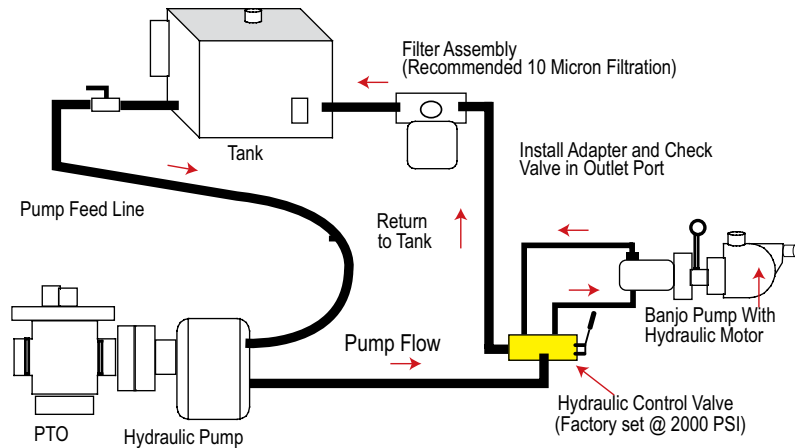


WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

SPOOL VALVE ASSEMBLY DIAGRAM

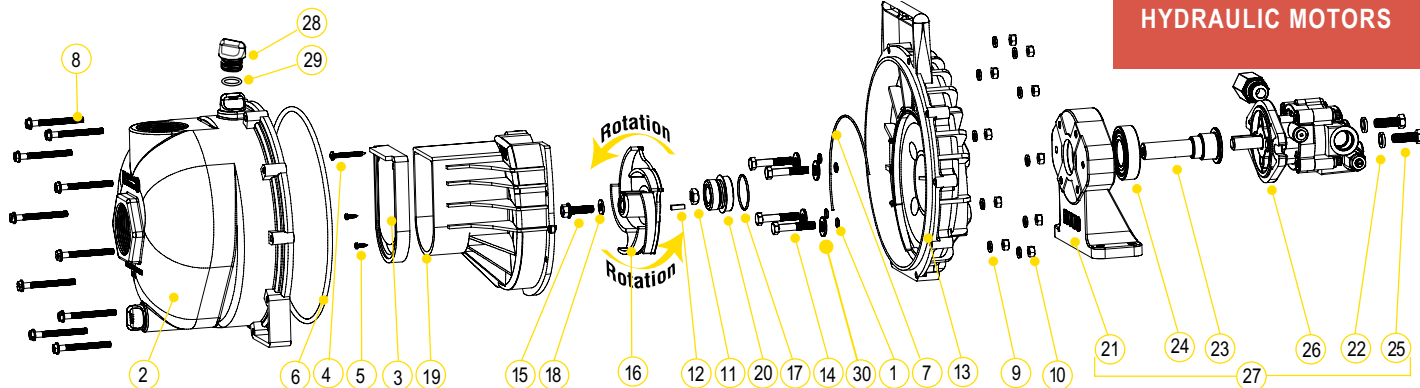


HYDRAULIC MOTOR SPOOL VALVE

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	1
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)	4
N/S	HY1003	HYDRAULIC MOTOR SEAL KIT	1
KIT	12000A	5 VANE IMPELLER REPAIR KIT (ITEMS 1, 3, 6, 7, 16-18, 20, 12099)	1
KIT	12999A	PUMP SEAL/O-RING KIT (ITEMS 1, 6, 7, 17, 20, 29, 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

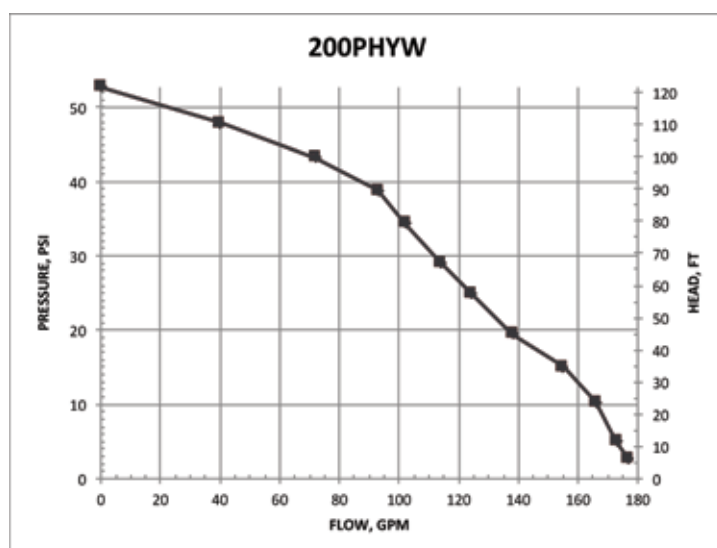
CONNECTION INFORMATION

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
- See pages 43-49 on manifold fittings for easy plumbing.



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



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/ 3/4" SHAFT & 3 VANE IMPELLER	N/A	1

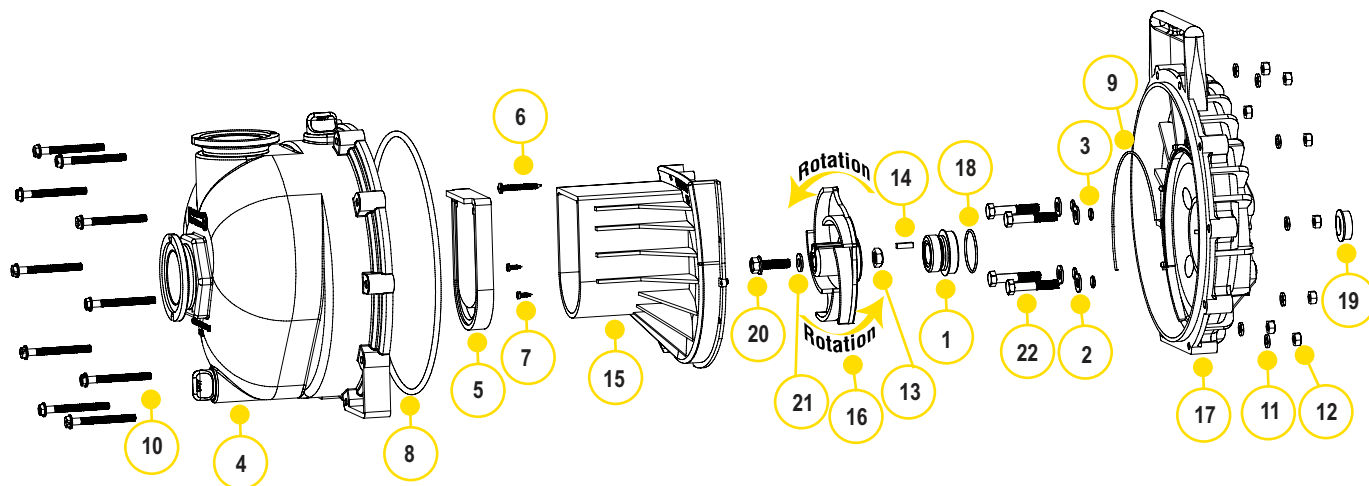


2" POLY MANIFOLD PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
M225PO	2" POLY MANIFOLD PUMP ONLY W/ 3/4" SHAFT & 5 VANE IMPELLER	N/A	1

CENTRIFUGAL PUMPS

2" POLY MANIFOLD PUMPS WITH GAS ENGINES

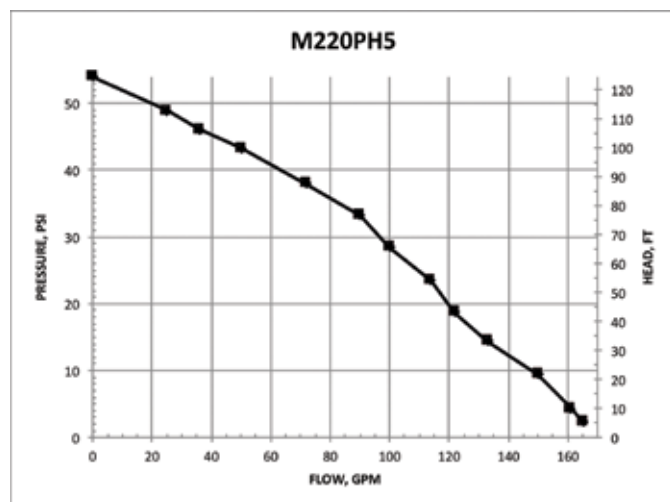


REPLACEMENT PARTS 2" POLY PUMPS

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
- See pages 43-49 on manifold fittings for easy plumbing.



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
M220P6PROW	2" POLY MANIFOLD WET SEAL PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	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

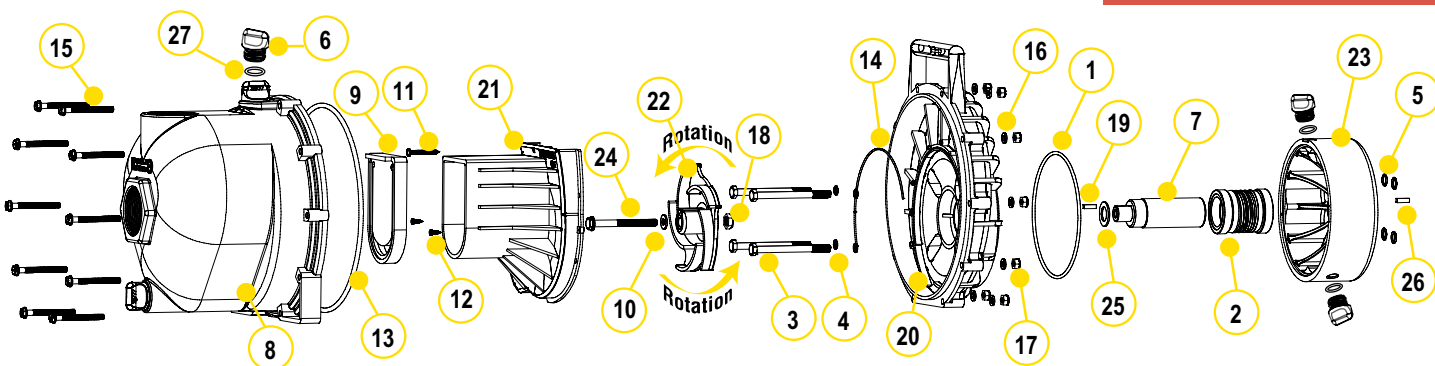


2" POLY MANIFOLD WET SEAL BEARING PEDESTAL

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

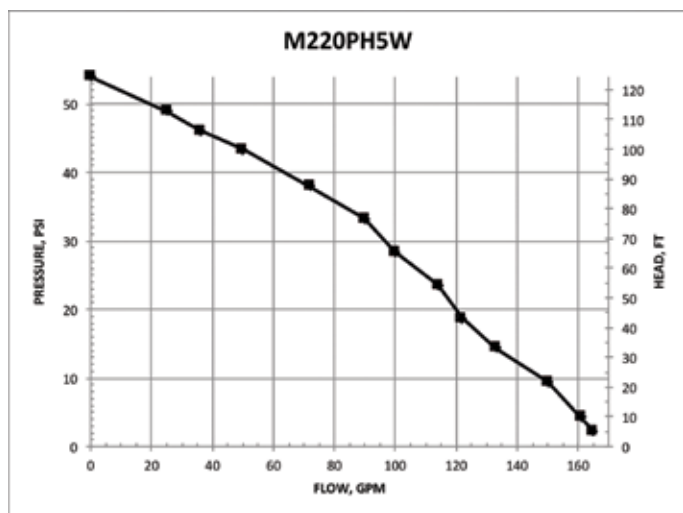
CENTRIFUGAL PUMPS

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	5/16" -24 X 3 3/4" HHCS	4
4	12717	O-RING FOR BRACKET SCREW	4
5	12709	O-RING	4
6	12777	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 1/2" PPH SMS	1
12	12725	#6 X 1/2" PPH SMS	2
13	12719A	BODY O-RING	1
14	12754	O-RING SEGMENT	1
15	12720	1/4" - 20 X 2 1/2" SL IND HWHS	10
16	V07018	1/4" LOCK WASHER	10
17	V07019	1/4" - 20 HEX NUT	10
18	12775A	7/16" - 14 HEX NUT	1
19	12902A	3/16" SQ. X 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	5/16" - 24 X 3 1/4" HFS	1
25	CV10175	GASKET	1
26	12902A	1/4" SQ. 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
- V-shaped for quicker priming
- See pages 43-49 on manifold fittings for easy plumbing.



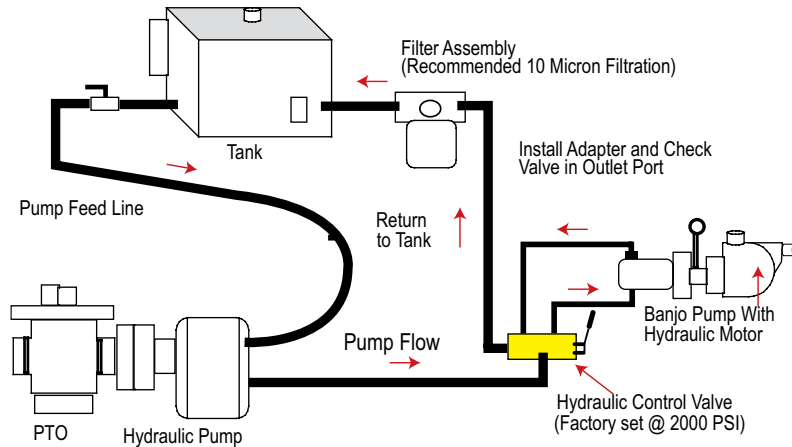
POLY MANIFOLD WET SEAL PUMPS W/HYDRAULIC MOTOR

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

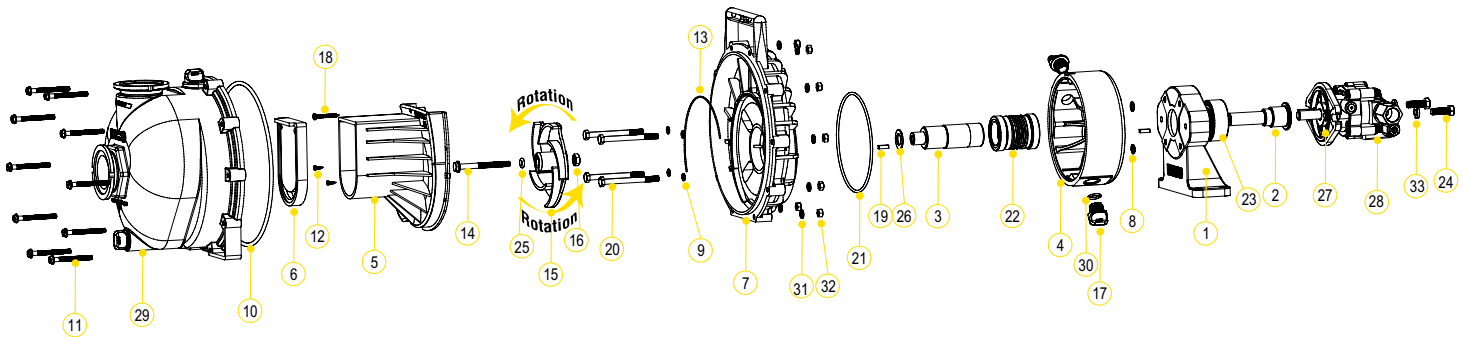


HYDRAULIC MOTOR SPOOL VALVE

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 3/4" 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

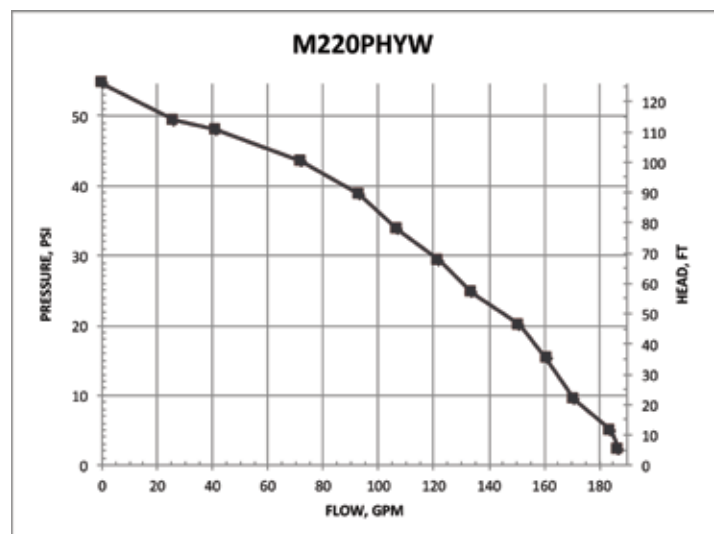
CONNECTION INFORMATION

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

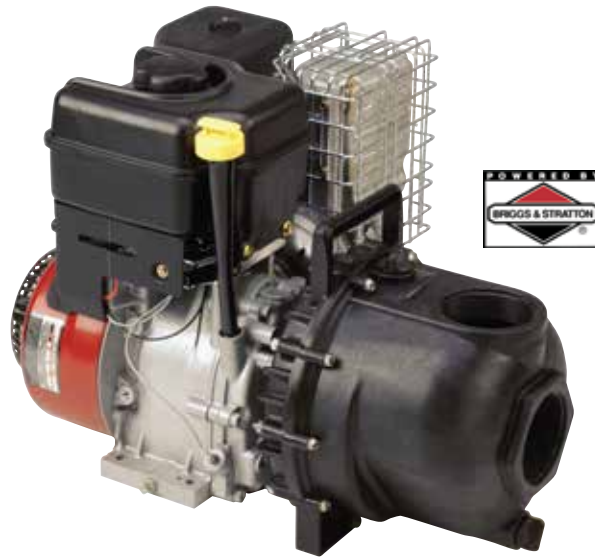


CENTRIFUGAL PUMPS

3" POLY PUMPS

FEATURES

- 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

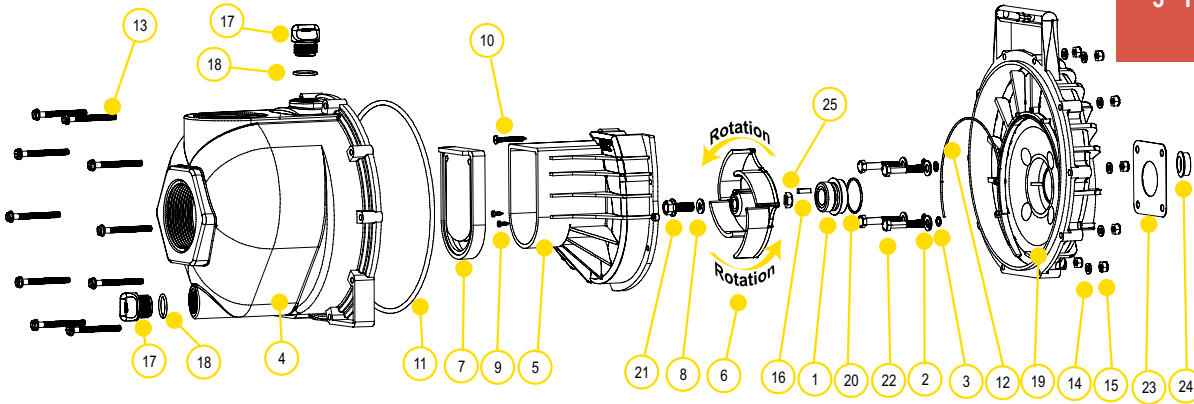


3" POLY PUMP ONLY

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

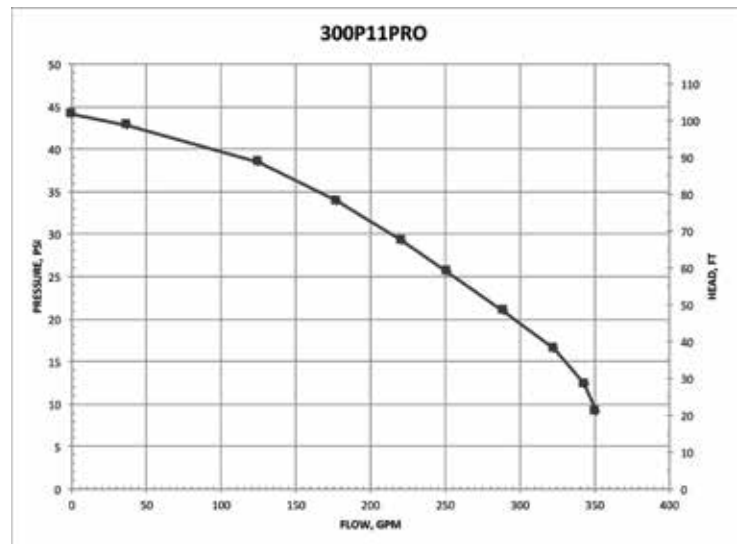


REPLACEMENT PARTS 3" POLY PUMPS

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

- Pump end separated from engine
- Large weep holes between pump and engine
- V-shaped for quicker priming
- Pump only comes unassembled
- See pages 43-49 on manifold fittings for easy plumbing.



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
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

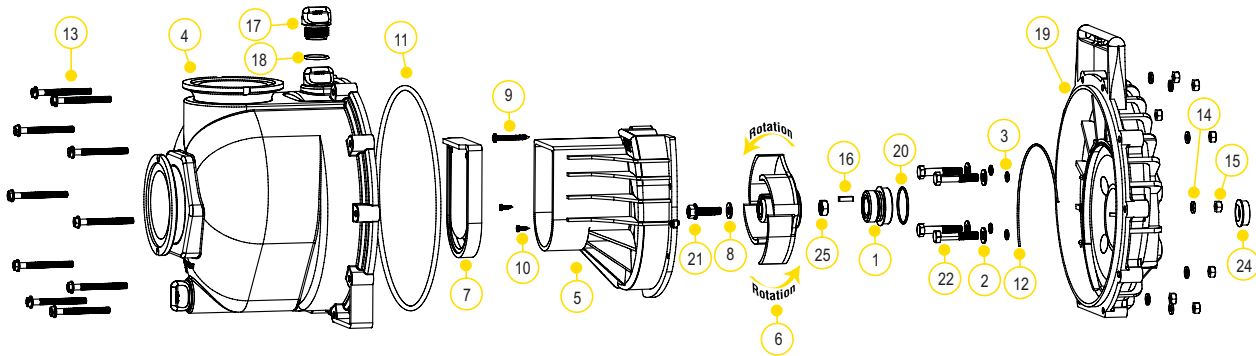


3" POLY MANIFOLD PUMP ONLY

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

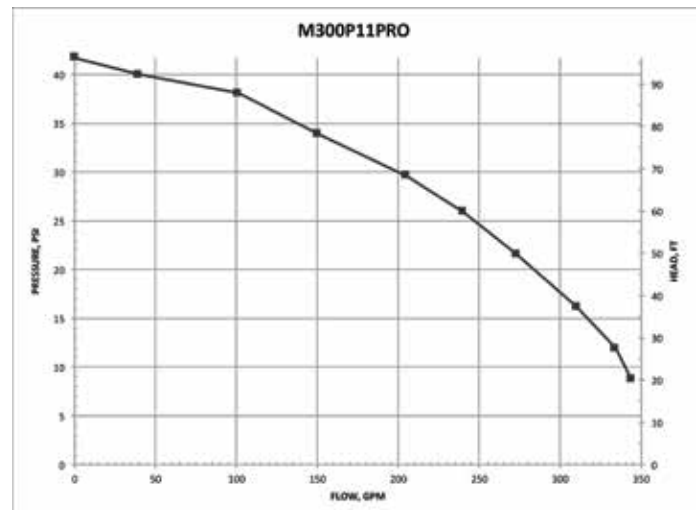


REPLACEMENT PARTS 3" POLY MANIFOLD PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12713	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)	1
21	13765	SS IMPELLER BOLT 3/8 X 24 X 1.75 (M300P11PRO)	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
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	3" POLY WET SEAL PUMP W/12 HP HYDRAULIC MOTOR	12.0	1

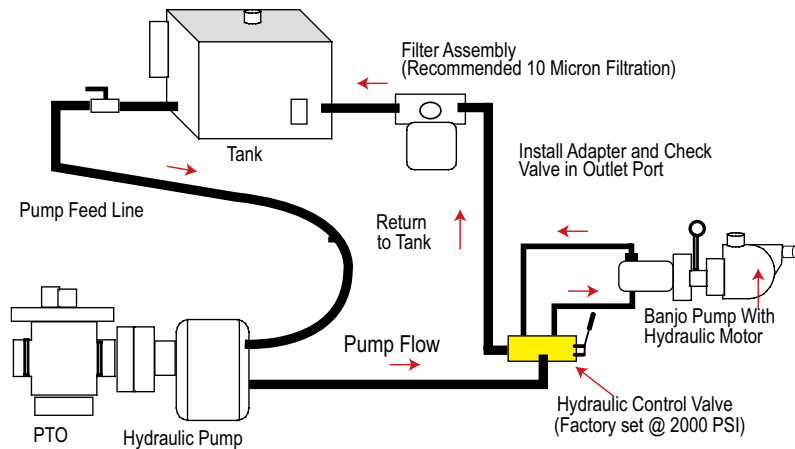


WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

SPOOL VALVE ASSEMBLY DIAGRAM

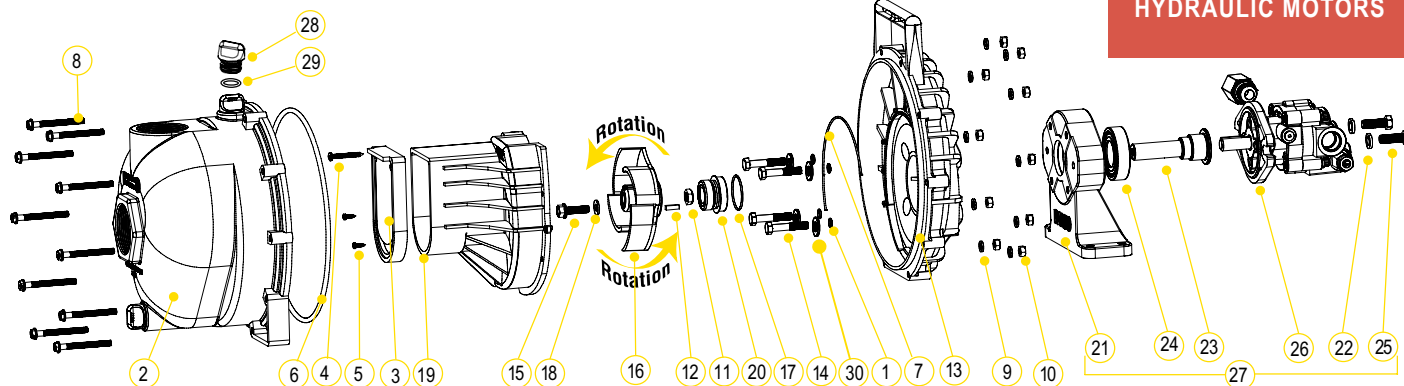


HYDRAULIC MOTOR SPOOL VALVE

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	13772	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	12055E	ADAPTER SHAFT	1
24	17056E	BEARING	1
25	18010SS	3/8" - 16 X 1 1/8" SS CAP SCREW HXHD	2
26	HY10131	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	1
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

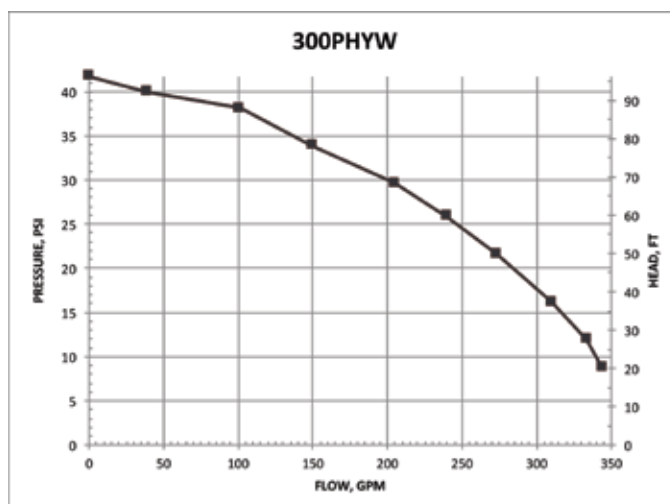
CONNECTION INFORMATION

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

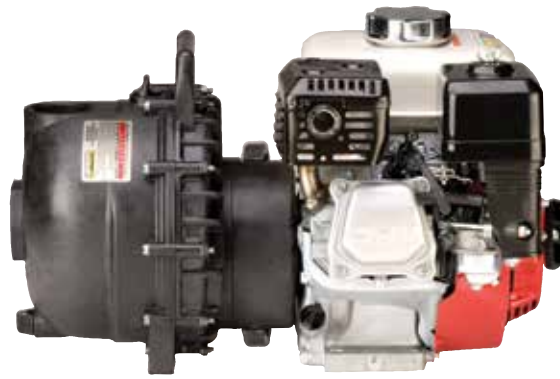
3" POLY WET SEAL PUMPS

FEATURES

- Run dry capability
- Double seal contained in ethylene glycol reservoir. Carbon ceramic seal faces with stainless steel cup and spring with EPDM rubber.
- 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
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
300POW	3" POLY WET SEAL PUMP ONLY FOR 1" SHAFT	N/A	1
300POW6	3" POLY WET SEAL PUMP ONLY FOR 3/4" SHAFT	N/A	1

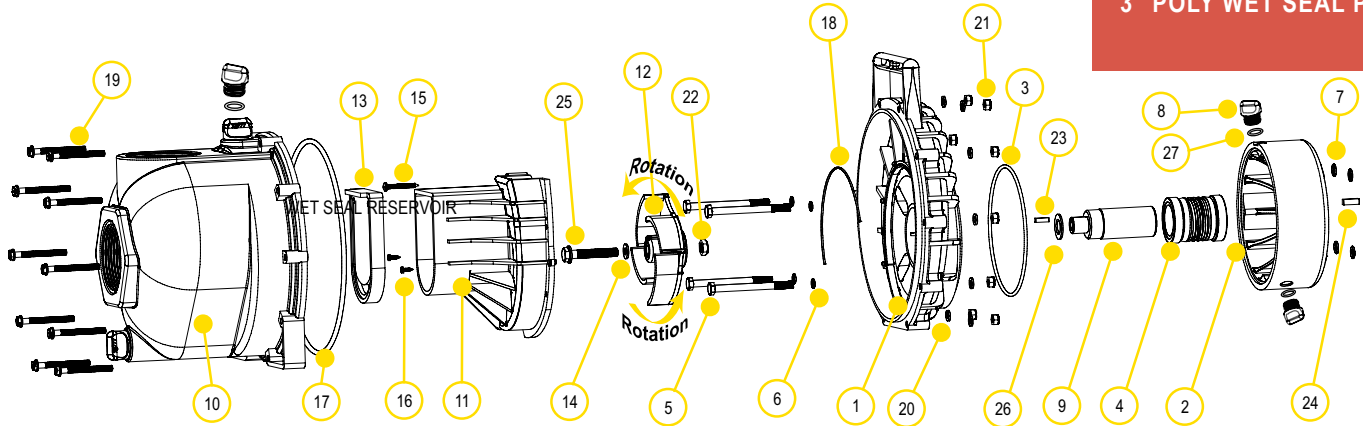


3" POLY WET SEAL PUMP ONLY W/FKM SEALS

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

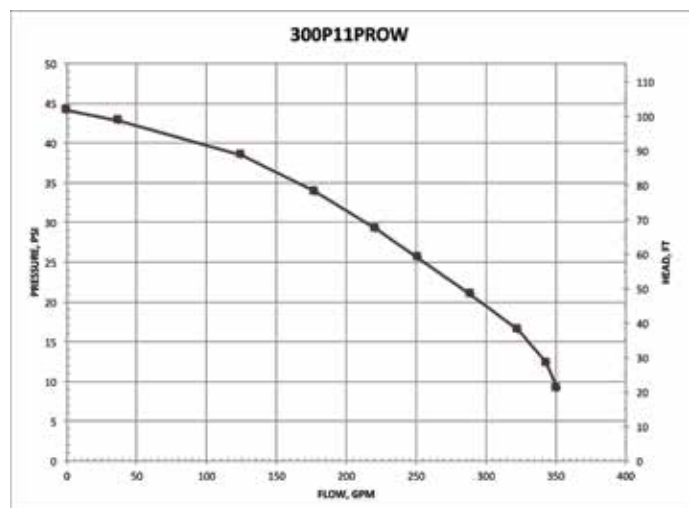


REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12703AW	WET SEAL REAR BRACKET	1
2	12201W	WET SEAL RESERVOIR	1
2	12202W	WET SEAL RESERVOIR (300POW6)	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 (300PH6W & 300PH13W)	1
9	13155M	ADAPTER SHAFT (300P11PROW & 301POWV)	1
9	12155	ADAPTER SHAFT (300PH6W)	1
10	13712	BODY ASSEMBLY	1
10	13712	FKM BODY ASSEMBLY (301POWV)	1
11	13702	VOLUTE	1
12	13772	4 VANE IMPELLER	1
12	13771	TRIMMED IMPELLER (300POW6)	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)	4



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
- V-shaped for quicker priming
- Engine warranty service available at authorized dealers
- See pages 43-49 on manifold fittings for easy plumbing.



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



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

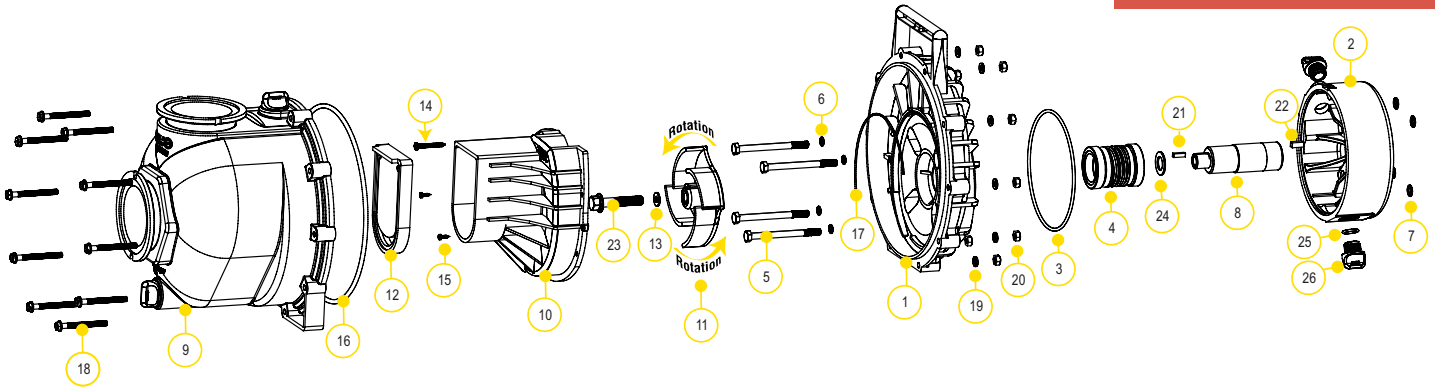


3" POLY MANIFOLD WET SEAL PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY
M300POW	3" POLY MANIFOLD WET SEAL PUMP ONLY	N/A	1
M300POW6	3" POLY MANIFOLD WET SEAL PUMP ONLY FOR 3/4" SHAFT	N/A	1

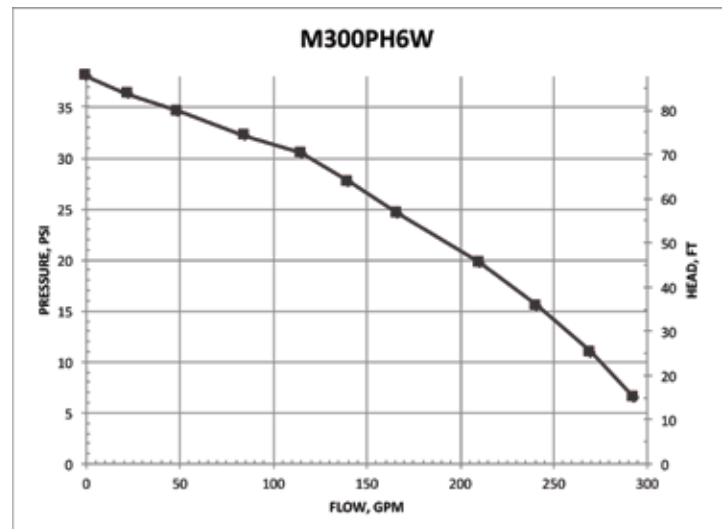
CENTRIFUGAL PUMPS

3" POLY MANIFOLD WET SEAL PUMPS



REPLACEMENT PARTS 3" POLY PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12707W	WET SEAL REAR BRACKET FOR 6 HP HONDA® ENGINE & BEARING PEDESTAL	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
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 3/8" KEY	1
22	16901	1/4" SQ. 3/4" KEY STOCK	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

2" CAST IRON C-FLANGE PUMPS

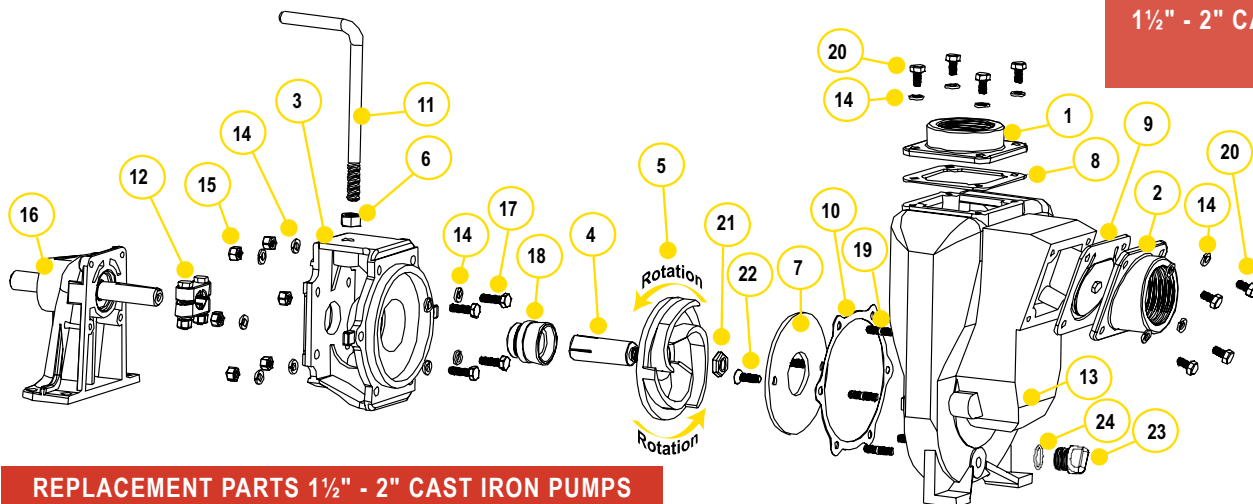
PART NO	DESCRIPTION	HP	QTY
200POICF5/8	2" CAST IRON C-FLANGE PUMP W/ 5/8" SHAFT SLEEVE	N/A	1
200POICF7/8	2" CAST IRON C-FLANGE PUMP W/ 7/8" SHAFT SLEEVE	N/A	1

2" CAST IRON BEARING PEDESTAL

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

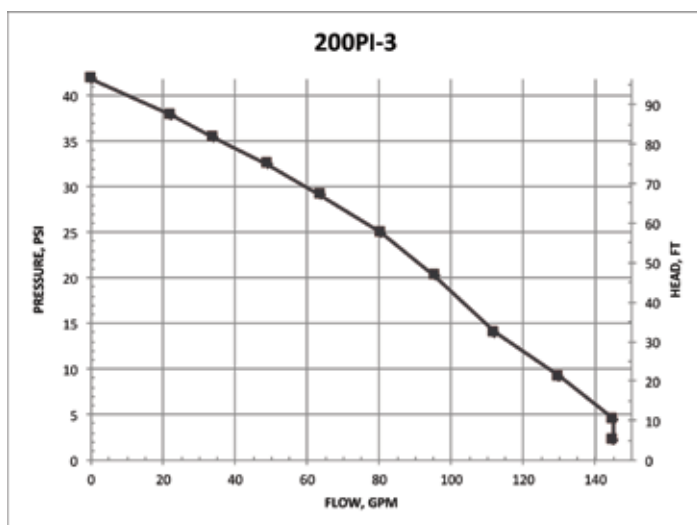
CENTRIFUGAL PUMPS

1½" - 2" CAST IRON PUMPS



REPLACEMENT PARTS 1½" - 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17001	1½" NPT OUTLET FLANGE	1
1	17000	2" NPT OUTLET FLANGE	1
2	17003	1½" NPT INLET FLANGE	1
2	17002	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



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

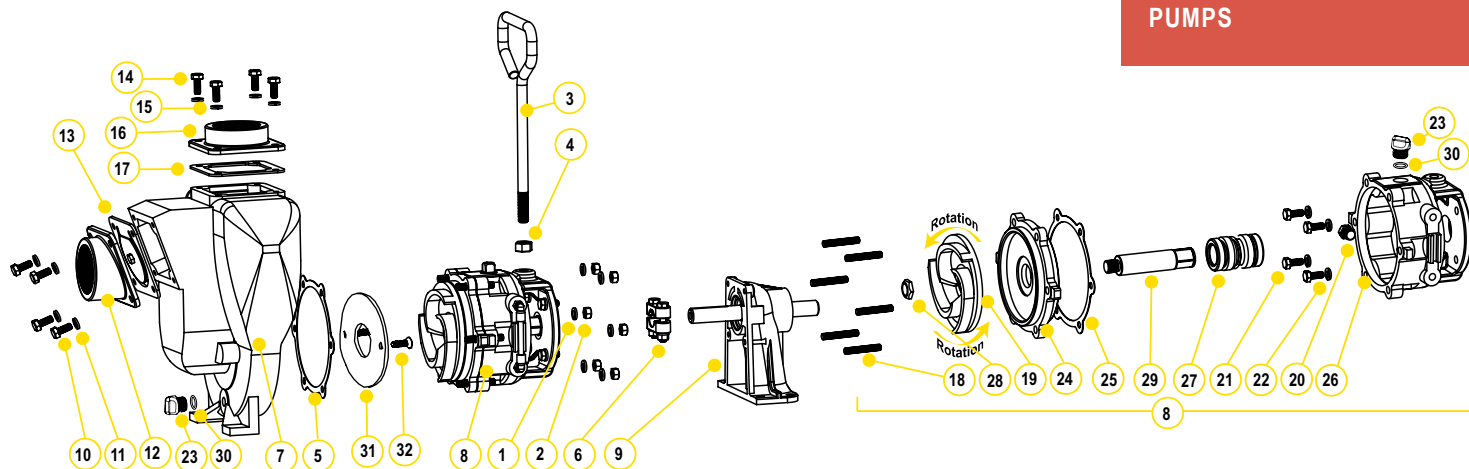


2" CAST IRON WET SEAL PUMP BEARING PEDESTAL

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

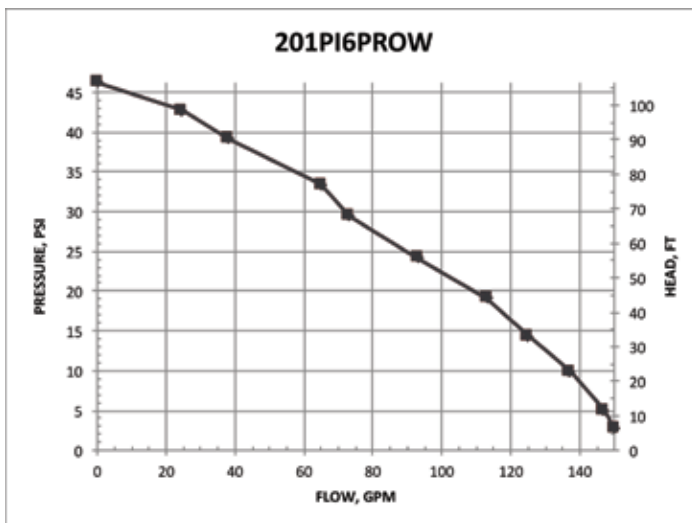
CENTRIFUGAL PUMPS

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
31	17011	Wear Plate	1
32	17130	5/16-18 X 1.00" FHSCS, 18-8 SS	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



2" CAST IRON PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY
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



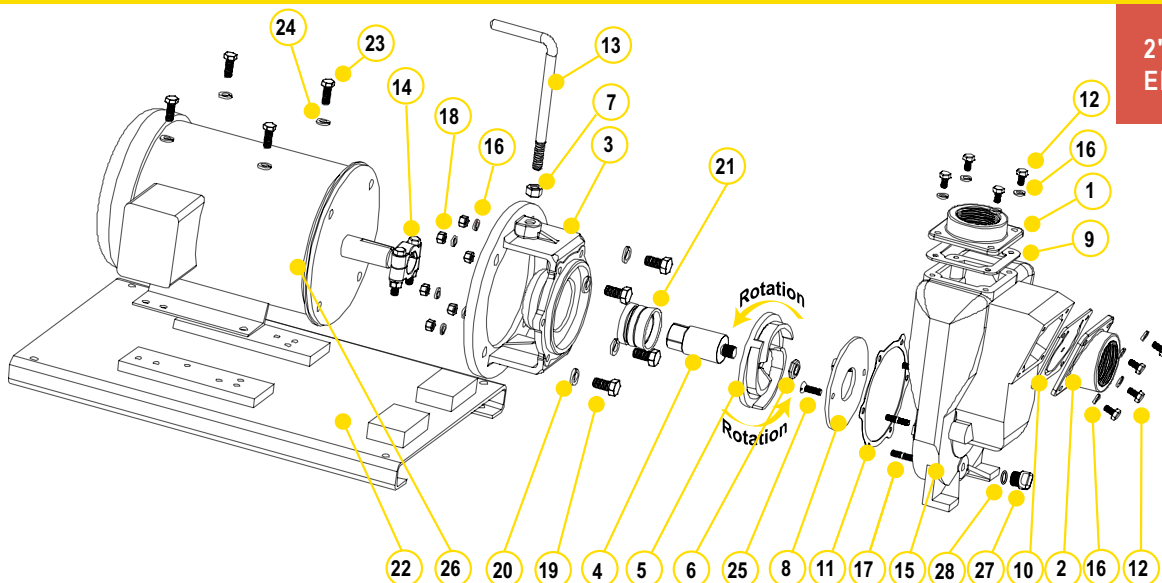
WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

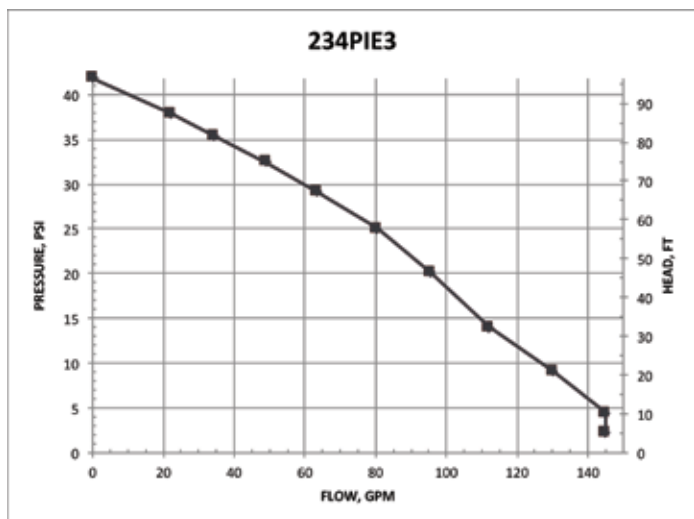
CENTRIFUGAL PUMPS

2" 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
- 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 WITH/WITHOUT HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY
200PIHA	2" CAST IRON PUMP ONLY WITHOUT HYDRAULIC MOTOR	N/A	1
200PIHY	2" CAST IRON PUMP ONLY WITH HYDRAULIC MOTOR	12	1

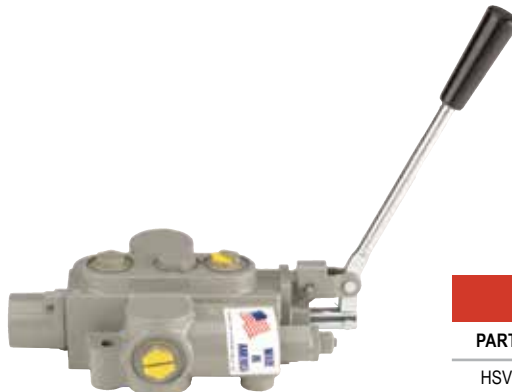
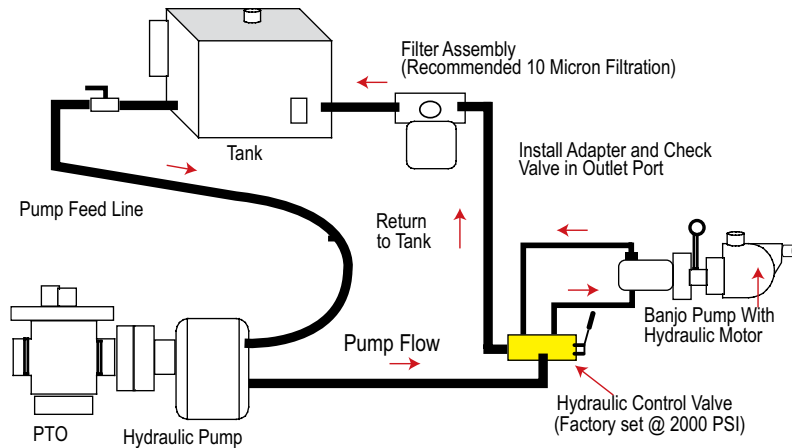


WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

SPOOL VALVE ASSEMBLY DIAGRAM

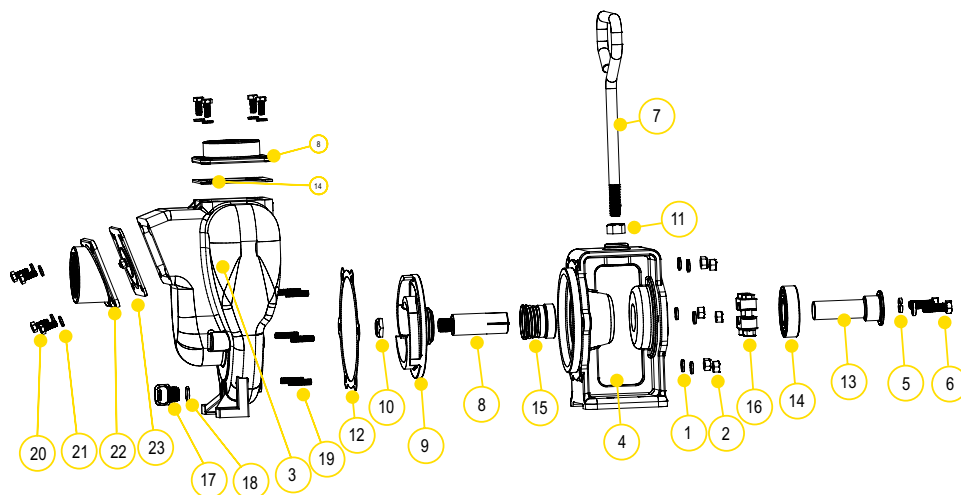


HYDRAULIC MOTOR SPOOL VALVE

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

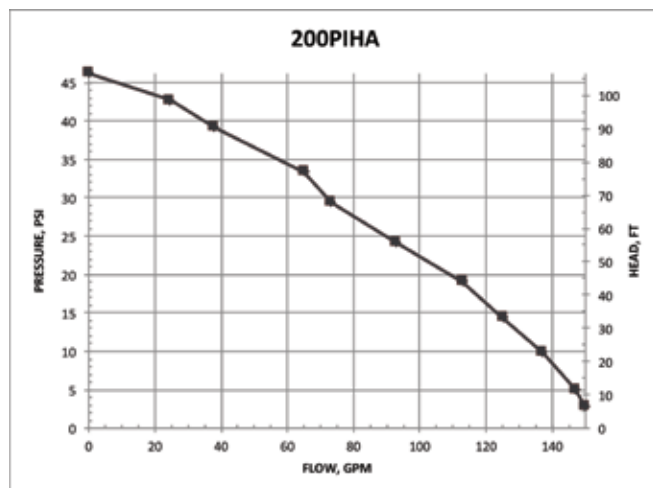
CENTRIFUGAL PUMPS

2" CAST IRON PUMPS WITH HYDRAULIC MOTORS



REPLACEMENT PARTS 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	V10118	5/16" SPLIT LOCK WASHER	6
2	V10119	5/16"-18 HEX NUT	6
3	17026	PUMP HOUSING	1
4	17049A	HYDRAULIC ADAPTER	1
5	V20018	3/8" LOCK WASHER	2
6	18010SS	3/8"-16 X 1.25" HHCS	2
7	15022	HANDLE	1
8	17007	7/8" SLEEVE DRIVE FOR HYDRAULIC MOTOR	1
9	17008	5" IMPELLER	1
10	17009B	5/8" IMPELLER NUT	1
11	17010	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	17035	FKM SEAL ASSEMBLY	1
16	17024	7/8" CLAMP, NO KEY	1
17	12777	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

222 SERIES CAST IRON BEARING PEDESTAL

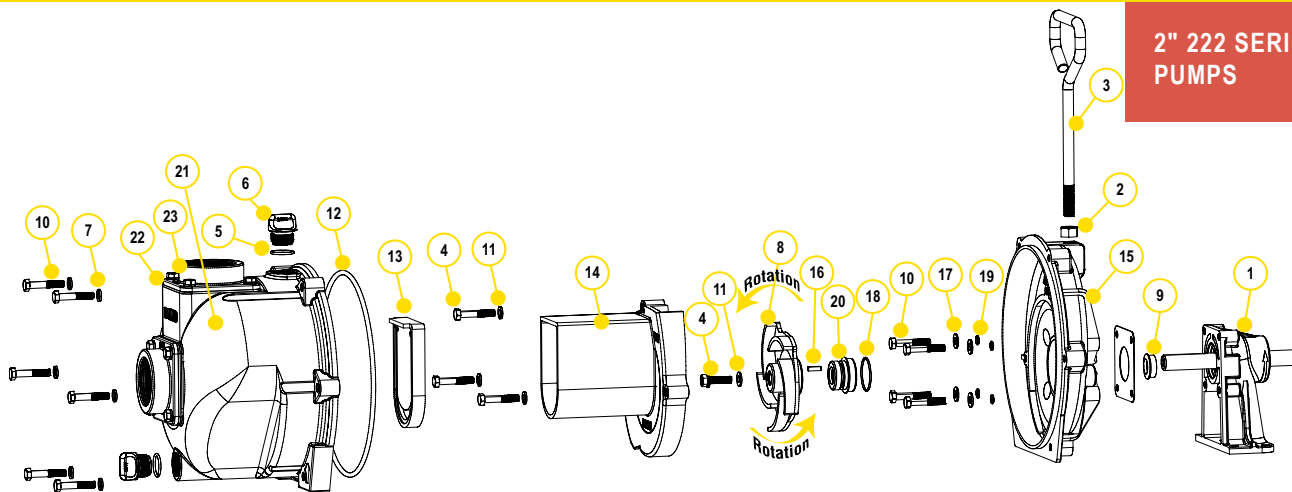
PART NO	DESCRIPTION	HP	QTY
222PBI	2" CAST IRON BEARING PEDESTAL W/ 3/4" STRAIGHT KEYED SHAFT	N/A	1

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

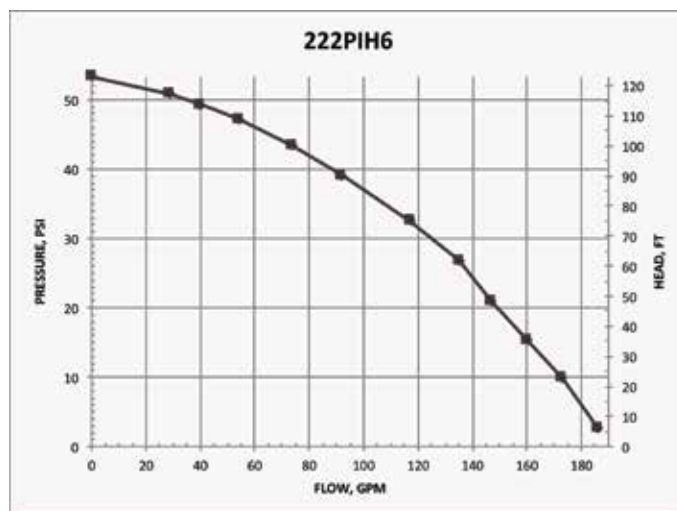


REPLACEMENT PARTS 2" CAST IRON PUMPS

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
222PIE1	2" CAST IRON PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR	5.0	1



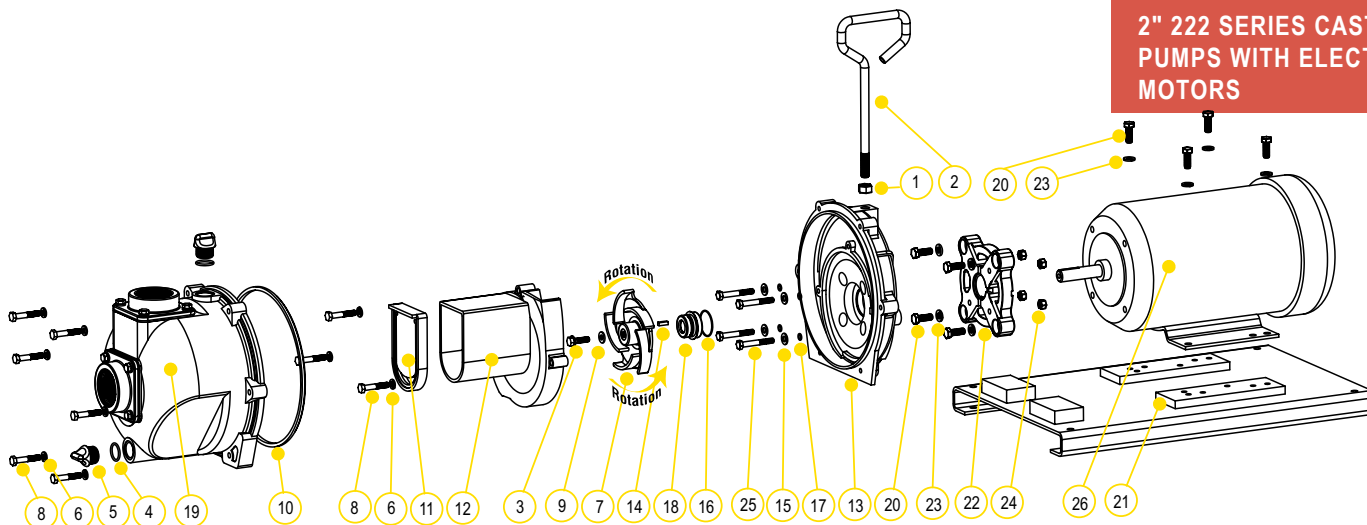
WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

CENTRIFUGAL PUMPS

2" 222 SERIES CAST IRON PUMPS WITH ELECTRIC MOTORS

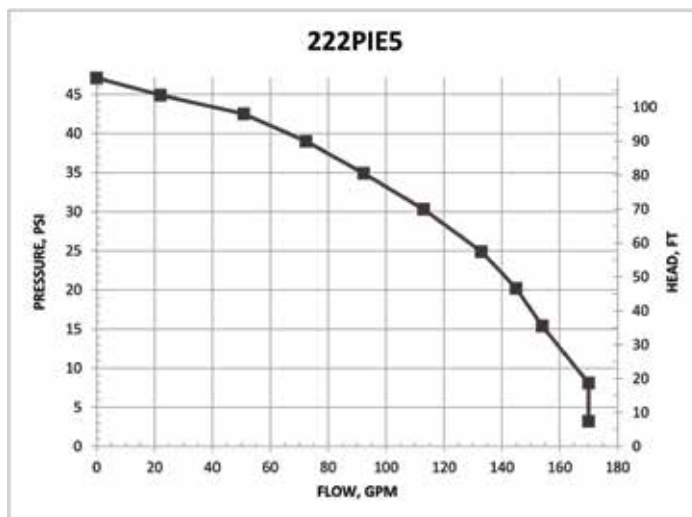


REPLACEMENT PARTS 222 SERIES CAST IRON PUMPS

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 EPDM 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
- See pages 43-49 on manifold fittings for easy plumbing.



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

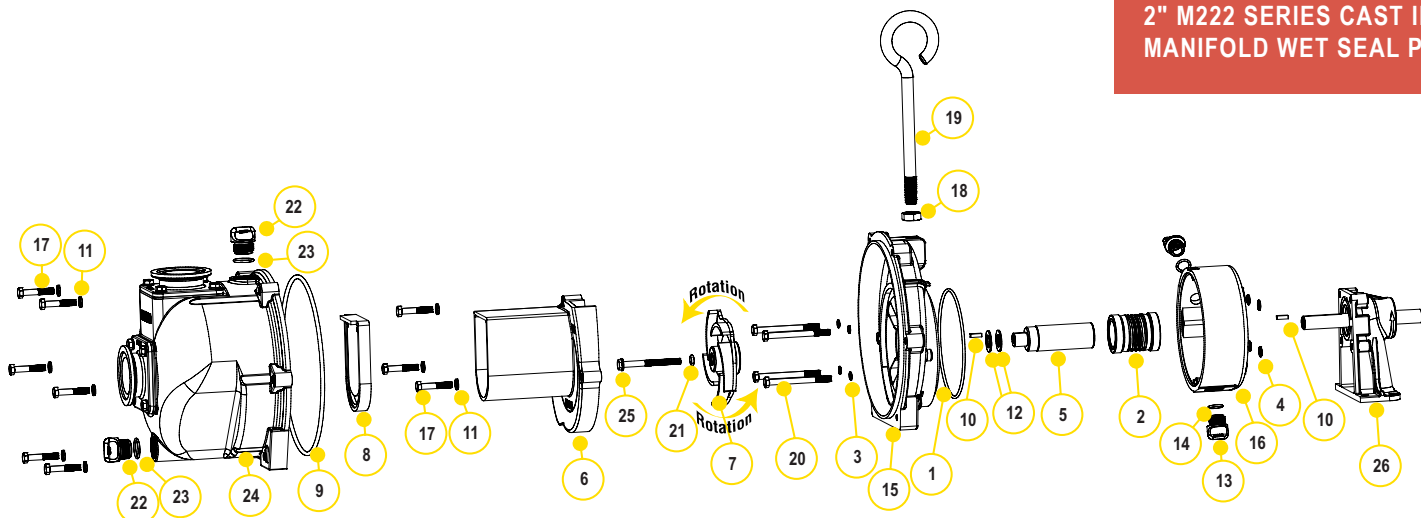
PART NO	DESCRIPTION	HP	QTY
M222PIE5W	2" MANIFOLD CAST IRON PUMP W/5.0 HP THREE PHASE ELECTRIC MOTOR	5.0	1
M222PIE1W	2" MANIFOLD CAST IRON PUMP W/5.0 HP SINGLE PHASE ELECTRIC MOTOR	5.0	1

M222 SERIES CAST IRON WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY
M222POIW	2" MANIFOLD CAST IRON WET SEAL PUMP ONLY	N/A	1

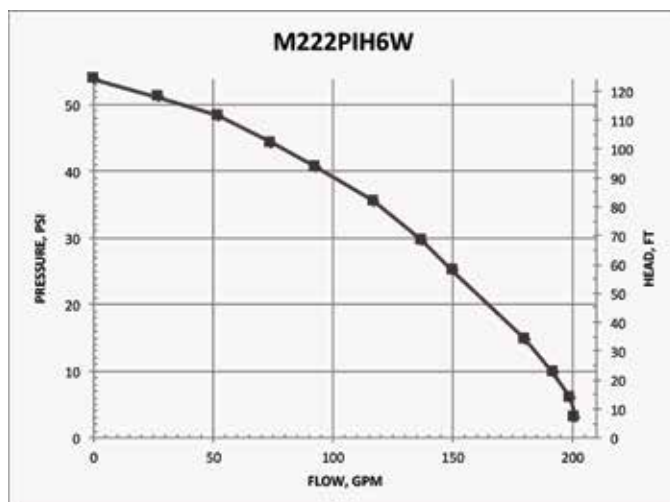
CENTRIFUGAL PUMPS

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" LOCK WASHER	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
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

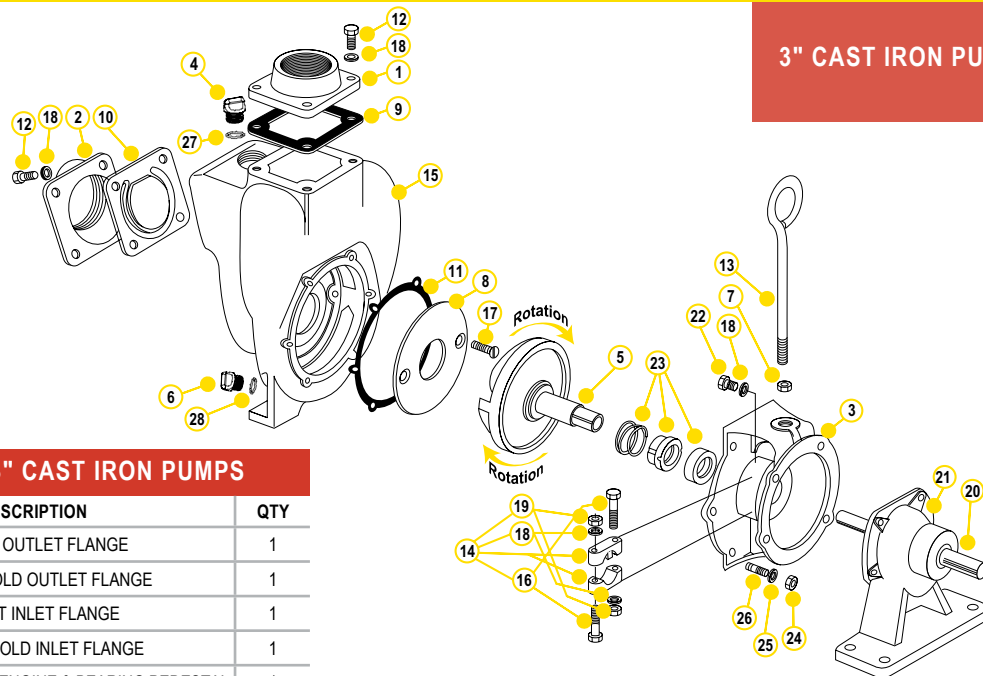


WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



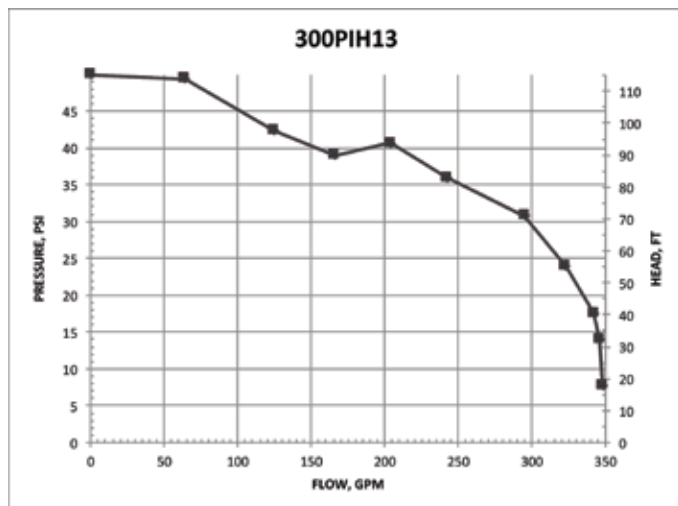
3" CAST IRON BEARING PEDESTAL

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



REPLACEMENT PARTS 3" 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
- 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

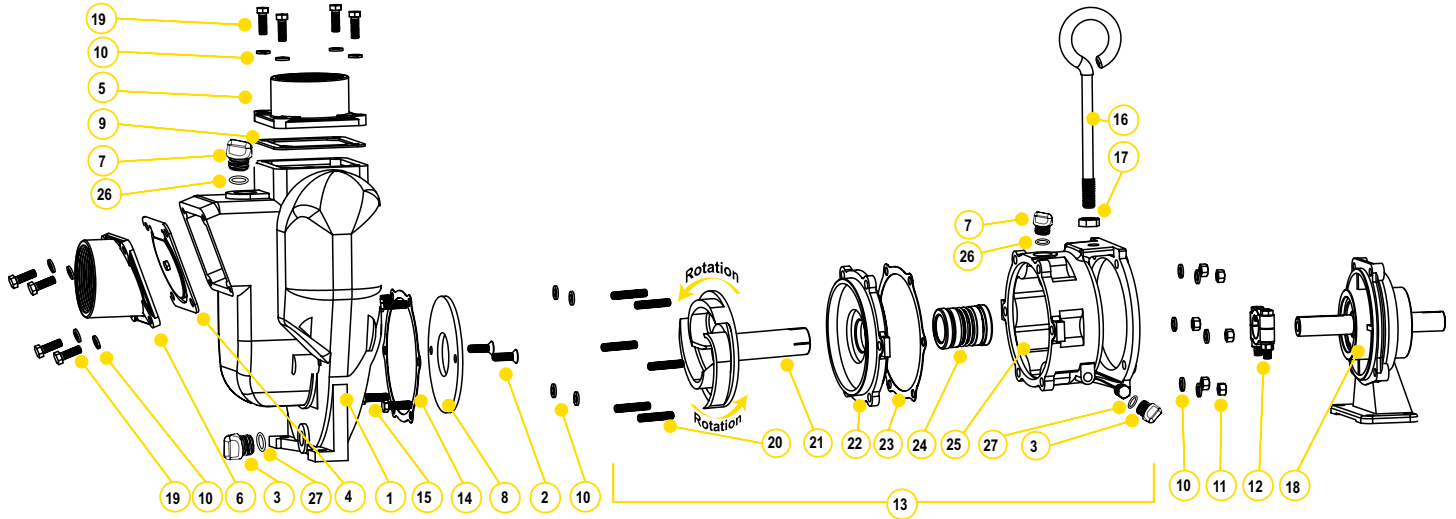


3" CAST IRON WET SEAL PUMP BEARING PEDESTAL

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

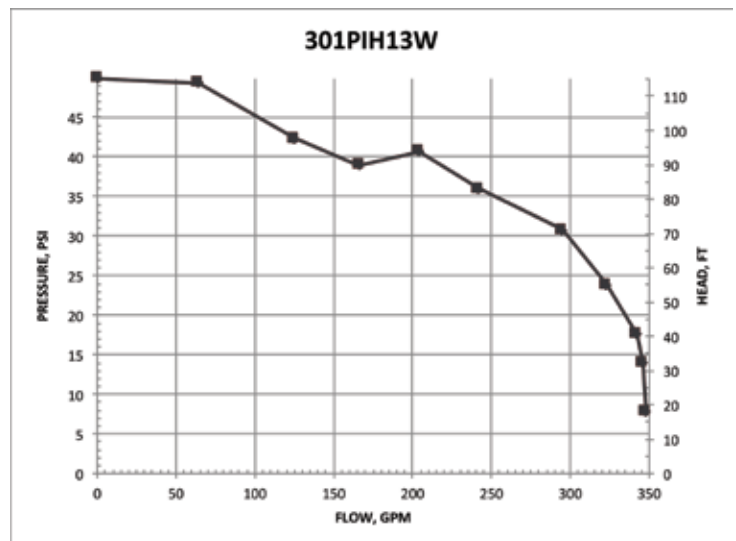
CENTRIFUGAL PUMPS

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
- 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

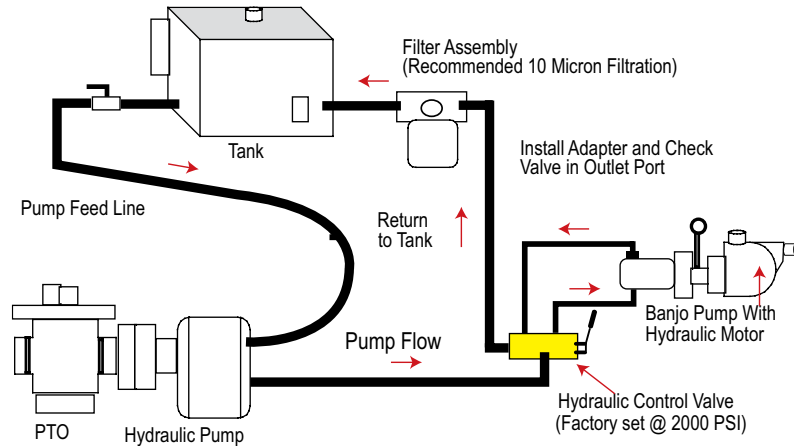


WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

SPOOL VALVE ASSEMBLY DIAGRAM

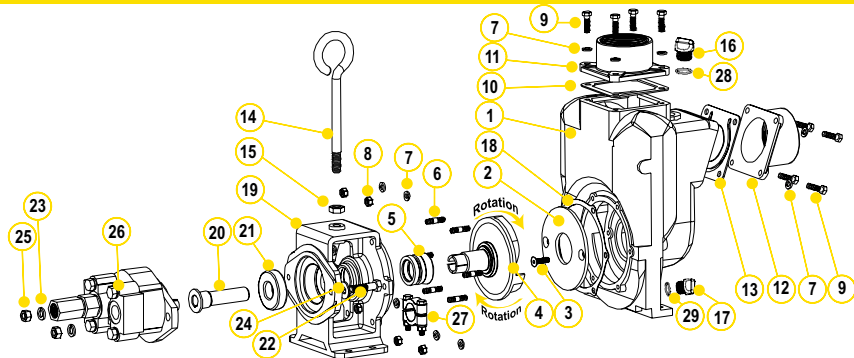


HYDRAULIC MOTOR SPOOL VALVE

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

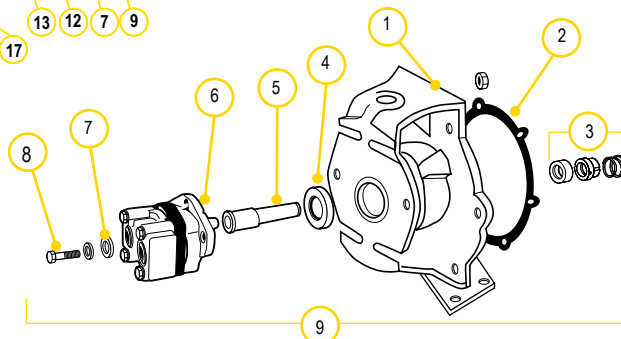
CENTRIFUGAL PUMPS

3" 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 66306-2RS1/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

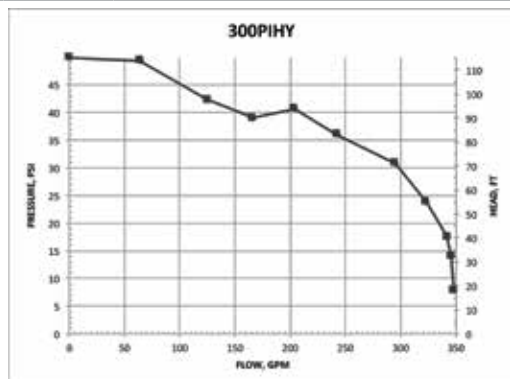
CONNECTION INFORMATION

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 3/8" 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



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

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
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers



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 3/8" 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



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



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

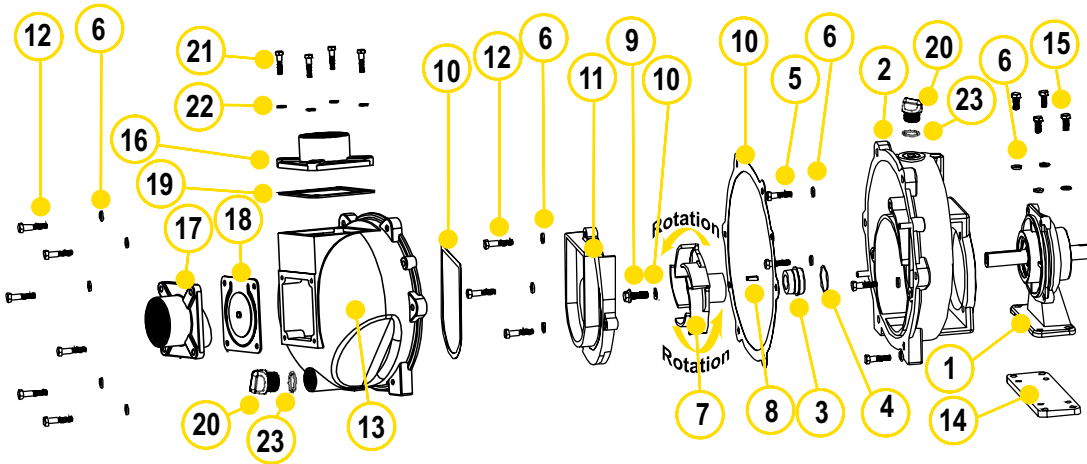


333 SERIES CAST IRON HYDRAULIC PUMPS

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

CENTRIFUGAL PUMPS

3" 333 SERIES CAST IRON PUMPS



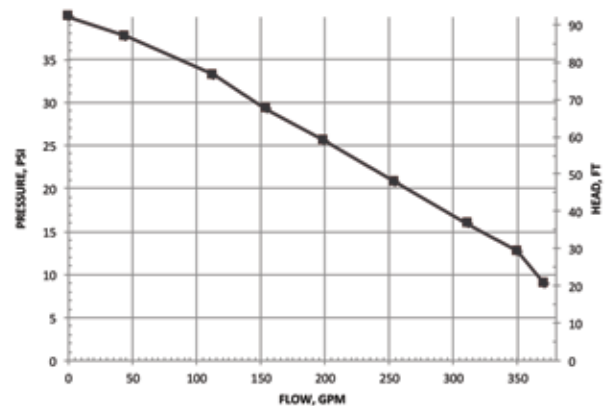
REPLACEMENT PARTS 3" CAST IRON PUMPS

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	16774A	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

333PIH13



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 EPDM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- Due to weight and size of pumps, Banjo ships these by truck only.
- Engine warranty service available at authorized dealers
- See pages 43-49 on manifold fittings for easy plumbing.



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

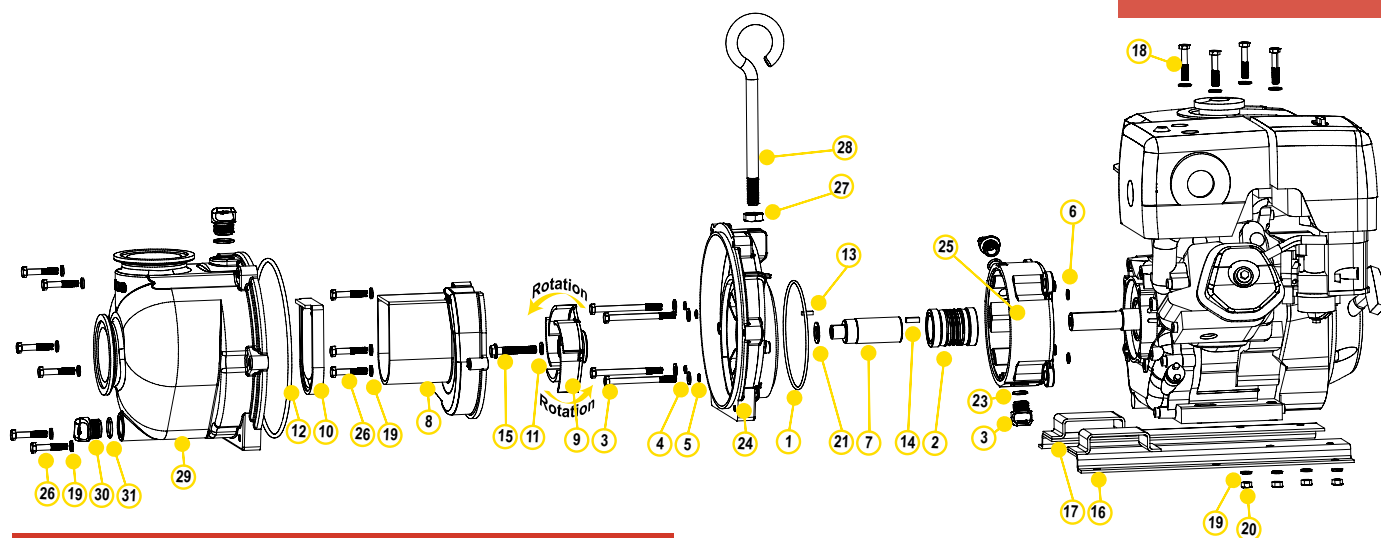
PART NO	DESCRIPTION	HP	QTY
M332PBIW	2" MANIFOLD CAST IRON WET SEAL PUMP W/ BEARING PEDESTAL W/ 3/4" SHAFT	N/A	1

M332 SERIES CAST IRON WET SEAL PUMP ONLY

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

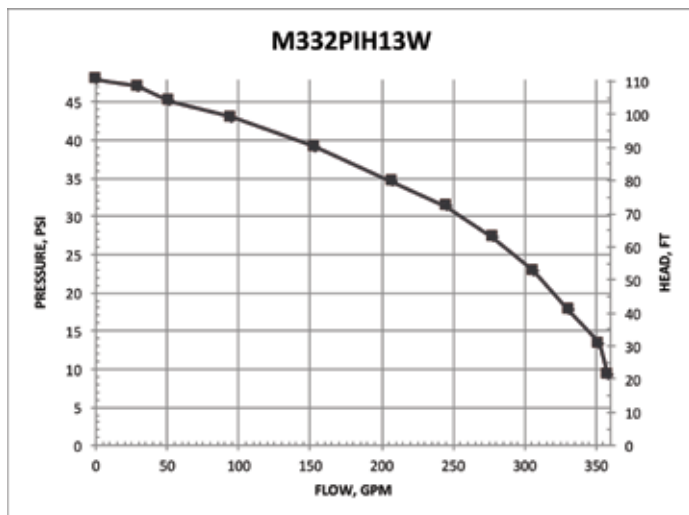
CENTRIFUGAL PUMPS

2" M332 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	1
4	12901	5/16" FLAT WASHER	4
5	12717	O-RING FOR BRACKET SCREW	8
6	12709	O-RING	4
7	13055	ADAPTER SHAFT	4
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 EPDM rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Heavy duty slinger seal on motor shaft
- 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.
- See pages 43-49 on manifold fittings for easy plumbing.



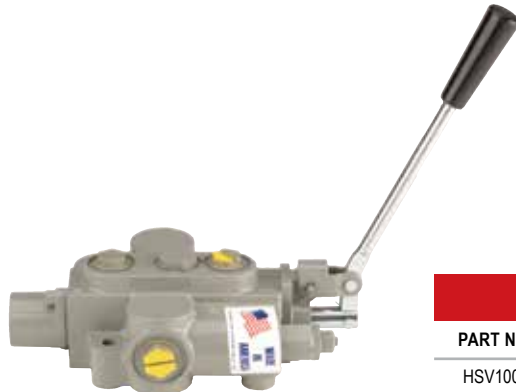
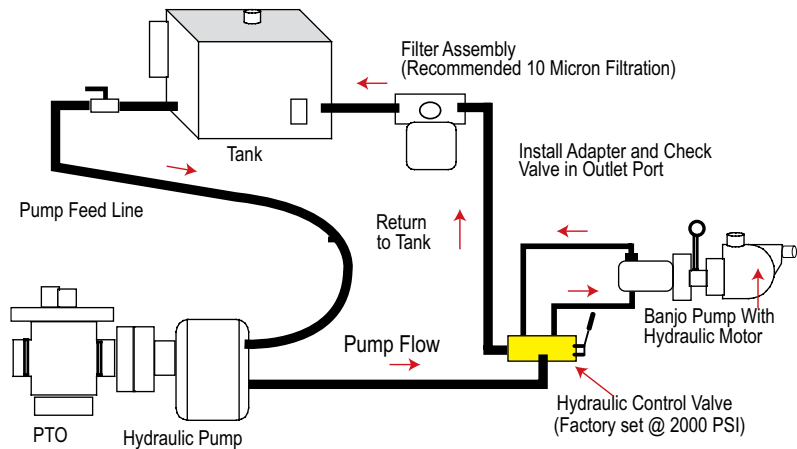
WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS



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

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

SPOOL VALVE ASSEMBLY DIAGRAM

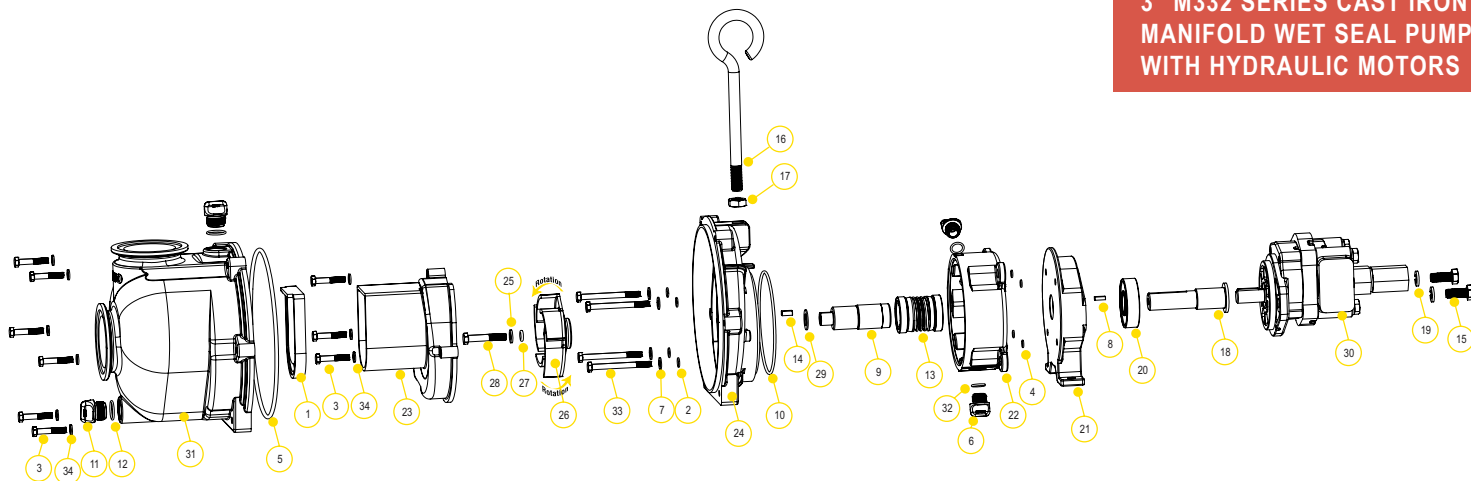


HYDRAULIC MOTOR SPOOL VALVE

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 M332 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 1/2" 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

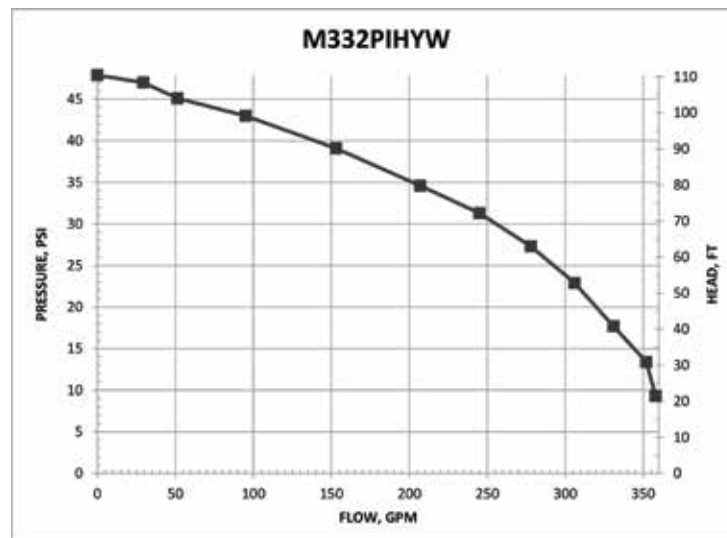
CONNECTION INFORMATION

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

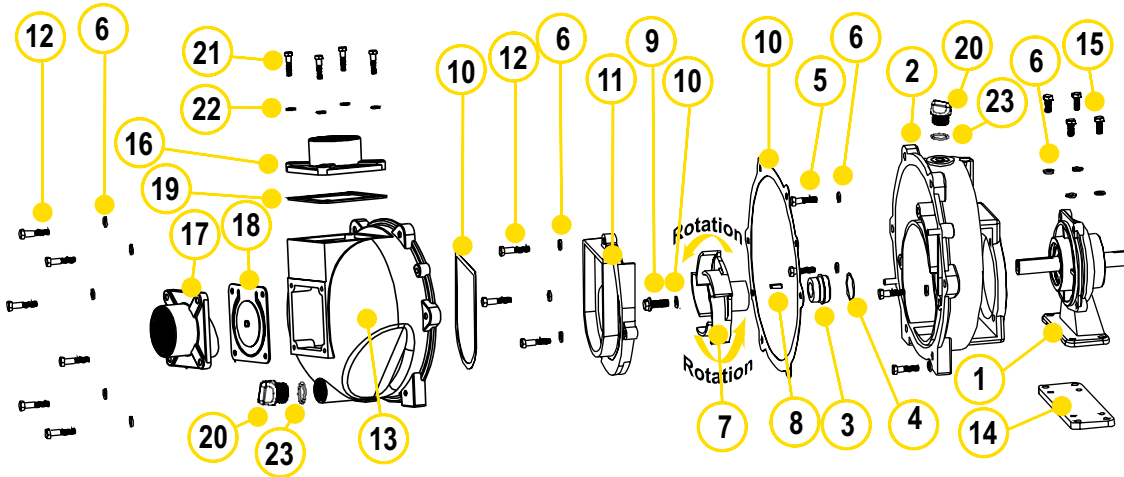


444 SERIES CAST IRON PUMP ONLYS

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

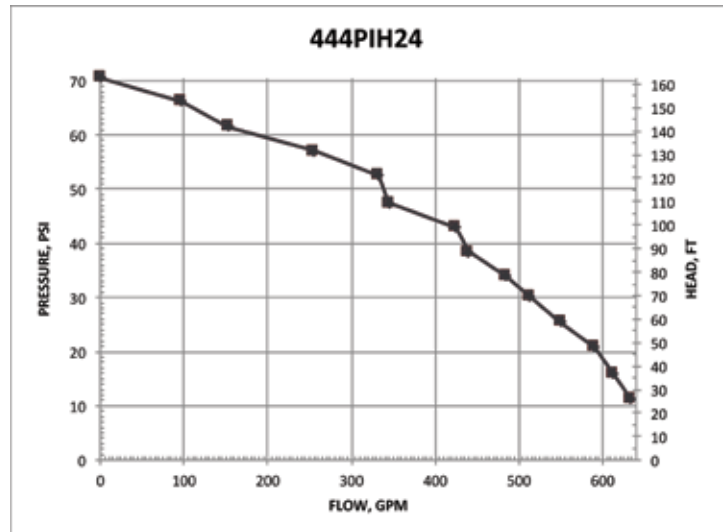
CENTRIFUGAL PUMPS

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.



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

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



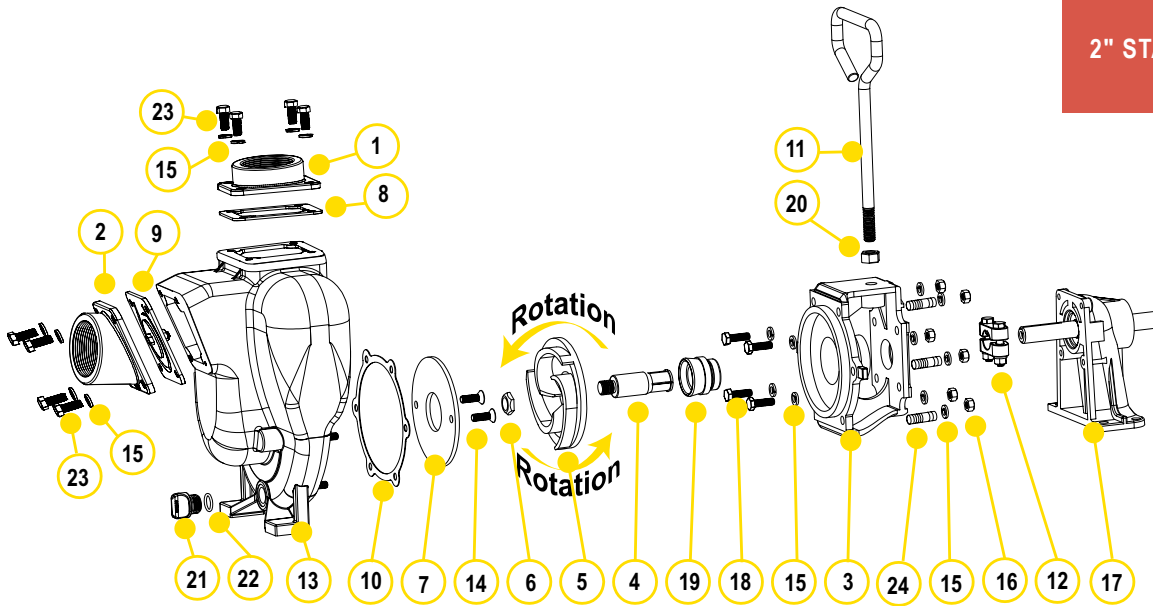
WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS

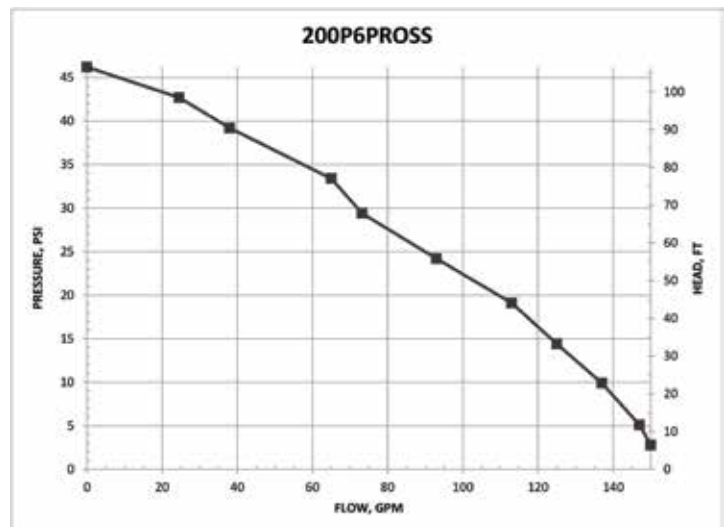


REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

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	FKM REPAIR KIT NO	FKM SEAL KIT NO
200PH5-SS	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
- 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
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



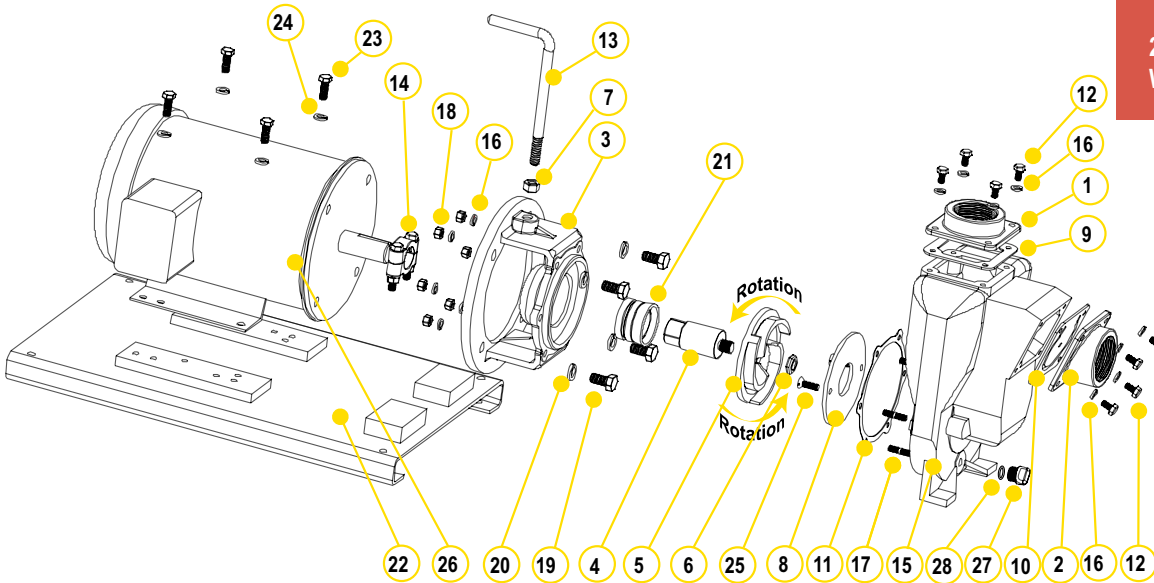
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WARNING! DO NOT USE WITH FLAMMABLE LIQUIDS

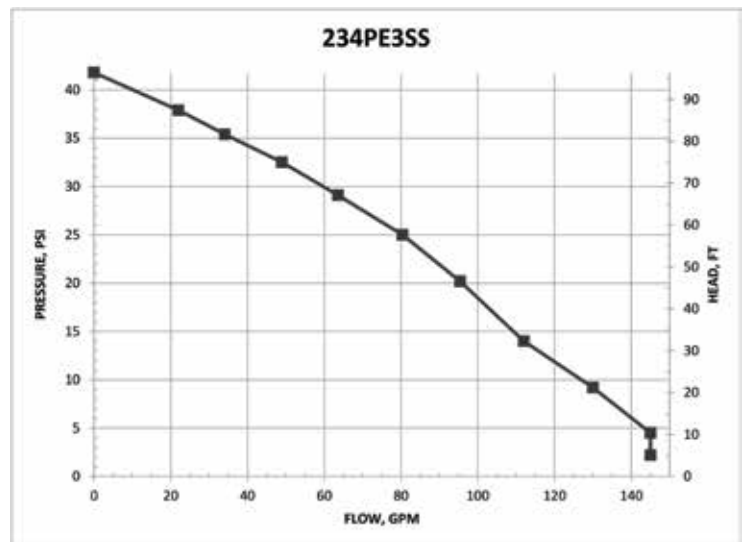
CENTRIFUGAL PUMPS

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

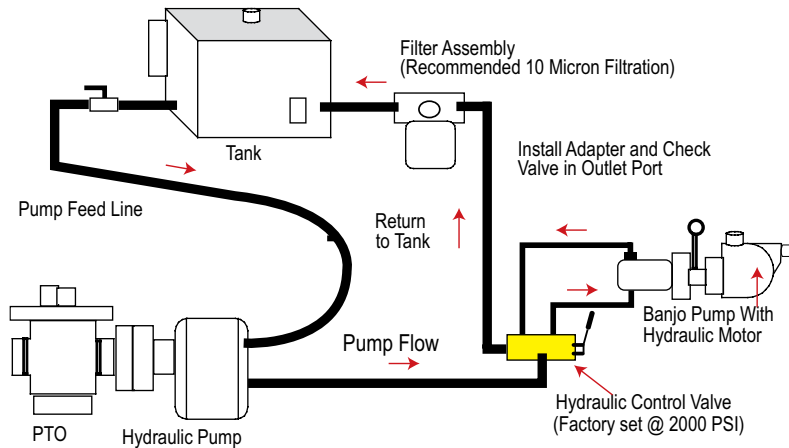
- Cast iron construction for rugged dependable service
- Stainless steel hardware
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller
- Hydraulic fluid capacity is minimum 6 gallons and maximum 10 gallons
- Open or closed system
- 12 HP motor
- Recommendation to use the motor spool 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

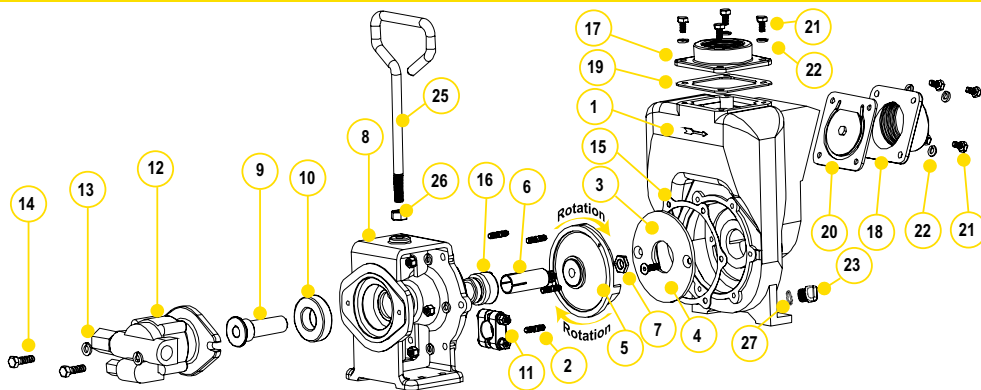


HYDRAULIC MOTOR SPOOL VALVE

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

CENTRIFUGAL PUMPS

2" STAINLESS STEEL PUMPS WITH HYDRAULIC MOTORS

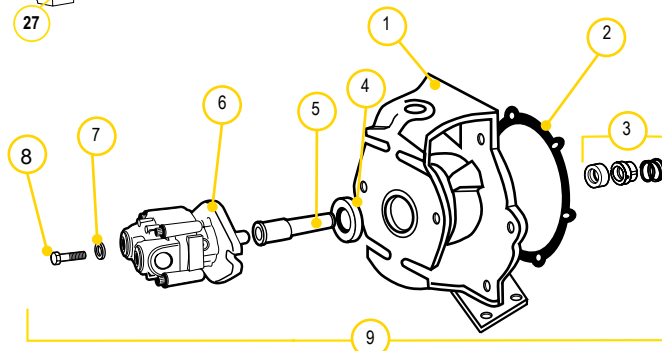


REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

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
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

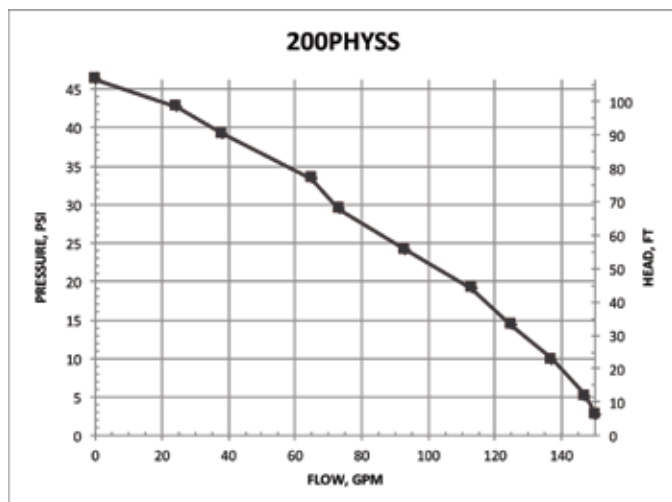
CONNECTION INFORMATION

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
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

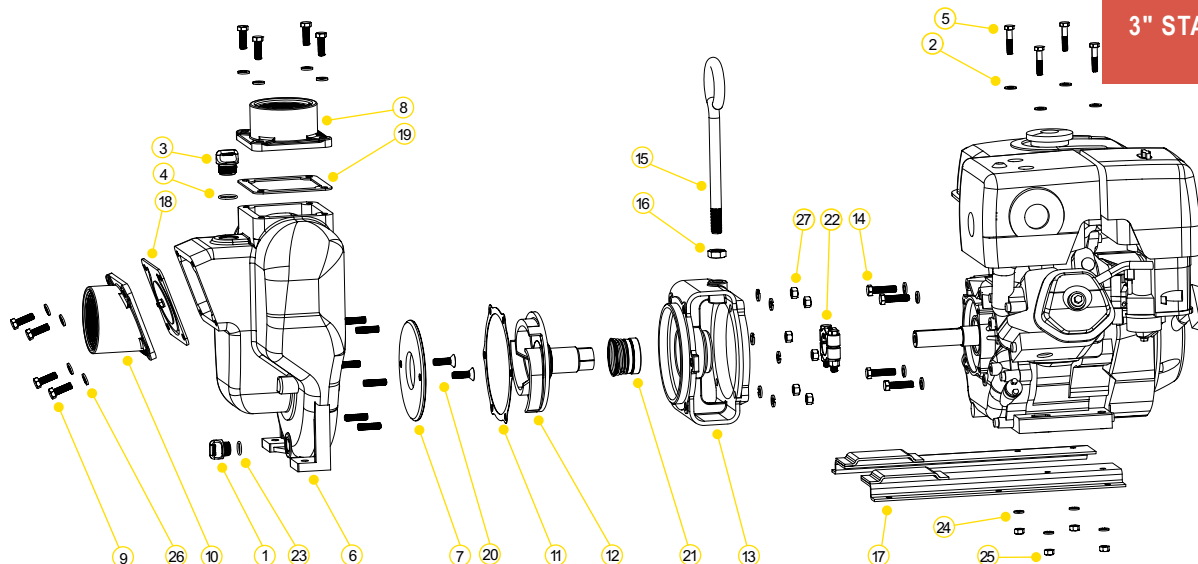
PART NO	DESCRIPTION	HP	QTY
300PB-SS	3" SS BEARING PEDESTAL W/ 1" STRAIGHT SHAFT	N/A	1

3" STAINLESS STEEL PUMPS W/ HYDRAULIC MOTOR

PART NO	DESCRIPTION	HP	QTY
300PHYSS	3" STAINLESS STEEL PUMP W/ 12 HP HYDRAULIC MOTOR	12	1

CENTRIFUGAL PUMPS

3" STAINLESS STEEL PUMPS

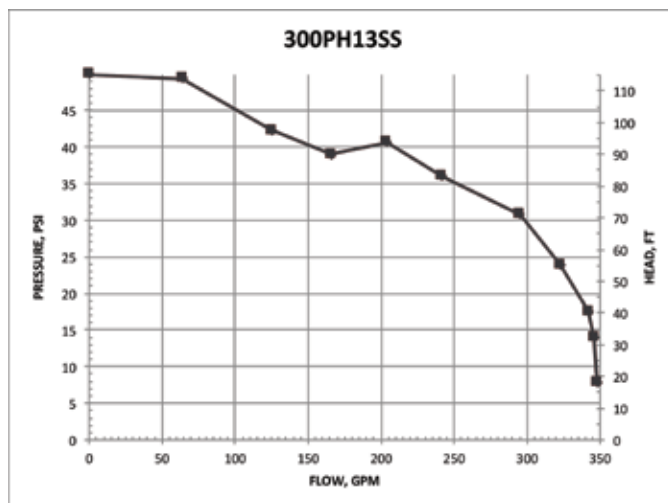


REPLACEMENT PARTS 3" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12777SS	1/2" STAINLESS STEEL PLUG	1
2	12901	SS REAR BRACKET WASHER	4
3	13777SS	3/4" STAINLESS STEEL PLUG	1
4	13778V	O-RING FKM	1
5	17034	5/16" - 18 X 1 3/4" ZINC PLATED	4
6	18001SS	SS PUMP HOUSING	1
7	18004SS	SS WEAR PLATE	1
8	18008SS	2" NPT OUTLET FLANGE	1
9	18010SS	3/8" - 16 X 1 1/4" SS CAP SCREW HXHD	8
10	18012SS	2" NPT INLET FLANGE	1
11	18021	ADAPTER GASKET	1
12	18023SS	1" SS IMPELLER & DRIVE SHAFT FOR GAS ENGINE	1
12	18023-1125SS	1 1/8" SS IMPELLER & DRIVE SHAFT FOR ELECTRIC MOTOR (300PO-SSCF)	1
13	18026SS	ADAPTER FOR GAS ENGINE	1
13	18048SS	ADAPTER FOR ELECTRIC MOTOR (300PO-SSCF)	1
14	18027	3/8" - 16 X 1 1/2" HHCS	4
15	18033	HANDLE	1
16	18034	5/8" SS JAM NUT	1
17	18035	Z RAILS	1
18	18042	FKM GASKET CHECK VALVE ASSEMBLY	1
19	18044	FKM OUTLET GASKET	1
20	18106SS	WEAR PLATE FLAT HEAD SCREW	2
21	18125SS	FKM SEAL ASSEMBLY	1
22	18129	CLAMP ASSEMBLY	1
23	UV15163V	O-RING FKM	1
24	V10118	5/16" LOCK WASHER	4
25	V10119	5/16" - 18 SS HEX NUT	4
26	V20018	3/8" SS LOCK WASHER	18
27	V20019	3/8" 16 SS HEX NUT	6
KIT	18100SS	REPAIR KIT(CONSIST OF ITEMS 7,11,12, 20 & 21)	1

KITS 3" STAINLESS STEEL PUMPS

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



Note: Please see repair parts list for 300PHYSS on our website.

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	083132-1110-F1	130G32-0122-F1	130G37-0136-F1	19N137-0076-F1	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	E13H	E24H
MANUFACTURER	HONDA®	HONDA®	HONDA®	HONDA®	HONDA®	HONDA®
MODEL NO	GX160	GX160	GX200	GX240	GX390	GX690RHTAF
RATED HP	5.4 HP @ 3600	5.4 HP @ 3600	6.4 HP @ 3600	8.0 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	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 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	7/16" - 20 UNF-2B
ENGINE OIL REQUIRED	10W30	10W30	10W30	10W30	10W30	10W30
ENGINE OIL CAPACITY	.63 QT	.63 QT	.63 QT	1.16 QT	1.16 QT	2.1 QT
FUEL REQUIRED	86	86	86	86	86	86
FUEL TANK CAPACITY	.95 GALLON	.95 GALLON	.95 GALLON	1.59 GALLON	1.72 GALLON	N/A
OIL ALERT	Y	Y	Y	Y	Y	Y
ELECTRIC START	N	Y	N	Y	Y	Y
OVER HEAD VALVE	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 BSP & ALL PTFE SEALS	60
DM100DBSS	1" STAINLESS STEEL FEMALE DRY MATE WITH BSP & FKM FACE SEAL	60
DM150AB	1½" POLY MALE DRY MATE WITH BSP & FKM FACE SEAL	56
DM150ABSS	1½" STAINLESS STEEL MALE DRY MATE WITH BSP & ALL PTFE SEALS	61
DM150DB	1½" POLY FEMALE DRY MATE WITH BSP	56
DM150DBSS	1½" STAINLESS STEEL FEMALE DRY MATE WITH BSP & FKM FACE SEAL	61
DM150DBSSE	1½" STAINLESS STEEL FEMALE DRY MATE WITH BSP & EPDM FACE SEAL	61
DM200AB	2" POLY MALE DRY MATE WITH BSP & FKM FACE SEAL	57
DM200ABSS	2" STAINLESS STEEL MALE DRY MATE WITH BSP	62
DM200DB	2" POLY FEMALE DRY MATE WITH BSP & FKM FACE SEAL	57
DM200DBSS	2" STAINLESS STEEL FEMALE DRY MATE WITH BSP & FKM FACE SEAL	62
DM200DBSSE	2" STAINLESS STEEL FEMALE DRY MATE WITH BSP & EPDM FACE SEAL	62
DM220ABSS	2" MALE X BSP THREADS W/PTFE SEALS	63
DM220DBSS	2" FP FEMALE X BSP THREADS	63
NIP2101	2" NPT X BSP-WHITE	66

Note: Check out our full list of available BSP products on our website: banjocorp.com/banjo/sales-sheets

REFERENCE

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
12052	107	0.5	15752	135, 137	0.002	17042	127, 131, 155, 157, 159	0.03
12099	103, 107, 117, 119, 135, 137	0.066	15772	135, 137, 139, 149	1.75	17046	127, 131	7.4
12155	105, 113, 115, 123, 125	1.186	15999	135, 137	0.282	17056	121, 133, 159	0.43
12705	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 139, 149, 151	0.258	16000	153	6.424	17100	127	4
12709	105, 113, 115, 123, 125, 139, 149, 151	0.001	16001	147	4.808	17123	127, 129, 155	0.32
12710	103, 107, 109, 111, 117, 119, 121, 135, 137	0.01	16002	153	5.59	17130	127, 129, 131	0.03
12713	103, 107, 109, 111, 117, 119, 121	0.11	16003	147	5.688	17202	129	3.82
12716	103, 107, 111, 117, 119, 135	0.02	16011	147, 153	0.098	17208	129	2
12717	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 149, 151	0.001	16019	147, 153	0.068	17226	129	25.21
12720	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.032	16099	147, 153	0.25	17235	129	0.35
12723	95	0.006	16702	147, 153	11	17242	129	0.25
12724	95	0.001	16704	147	41.5	17406	131, 157	0.38
12725	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.002	16706	147, 153	0.77	17408	131	2
12754	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.002	16707	153	42	17446	131	18
12756	107, 137	1.438	16710	147	0.01	17449	131, 151, 157	0.125
12766	105, 113, 115, 125, 139	0.076	16712	153	58	17701	107, 131, 137, 157	29.5
12772	103, 105, 107, 109, 111, 113, 115	0.2	16713	147	0.2	17704	107, 131, 137, 141, 143, 147, 153, 157	0.5
12777	103, 105, 107, 109, 113, 115, 123, 125, 127, 129, 131, 133, 139, 141, 143, 145, 149, 151, 51, 91, 95	0.012	16733	147	55	17901	147	0.1
12884	127	0.01	16751	147, 153	0.024	18001	141, 143, 145	65.65
12900	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.008	16752	147, 153	0.02	18004	141, 143, 145	1.53
12901	103, 107, 109, 111, 117, 119, 121, 135, 137, 149, 151, 161	0.004	16765	147, 153	0.07	18008	141, 143, 145	3.5
13000	117, 119, 121	0.738	16773	147	4.452	18009	141, 143, 145	0.03
13034	105, 113, 115, 123, 125, 149	N/A	16774	147	2.75	18012	141, 143, 145	3.15
13055	123, 149, 151	0.674	16775	153	0.03	18013	141, 143, 145	0.5
13702	117, 119, 121, 123, 125	1.424	16901	123, 125, 147, 149, 151, 153	0.03	18021	141, 143, 145, 161	0.21
13712	117, 121, 123	4.018	17000	127, 129, 131, 135	1.47	18023	141, 145	4.35
13719	105, 113, 115, 123, 125, 139, 149, 151	0.012	17001	127	1.38	18025	131, 141, 145	0.39
13765	117, 119, 147	0.05	17002	127, 129, 131	2.01	18026	141	9.6
13766	123, 149	0.084	17003	127	1.7	18027	147, 153, 161	0.056
13771	117, 119, 121, 123	0.204	17004	127	6.5	18029	141, 145	0.63
13772	117, 119, 123, 125	0.218	17005	127, 155	0.35	18030	141	0.07
13777	117, 119, 121, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 53, 99	0.024	17006	127, 155	0.25	18032	141	0.03
13778	117, 119, 121, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 53, 99	0.002	17007	127, 131, 133, 155, 157, 159	0.24	18033	139, 141, 143, 145, 147, 149, 151, 153, 161	1.25
13778	117, 119, 121, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 53, 99	0.002	17008	127, 131, 133	2	18034	139, 141, 143, 145, 147, 149, 151, 153, 161	0.048
13999	117, 119, 121	0.266	17010	127, 129, 131, 133, 135, 137, 145, 155, 157, 159	0.04	18035	141, 161	2.75
15000	135, 137	2.244	17011	127, 129, 131	0.85	18042	161	0.5
15022	127, 129, 131, 133, 135, 137, 155, 157, 159	1.124	17013	127, 129, 131, 135	0.03	18044	161	0.02
15025	147	0.35	17014	155, 157, 159	0.03	18048	141	14
15035	115, 123	0.35	17016	127, 129, 131	0.03	18049	141, 145	20.6
15055	139	0.75	17017	155, 157, 159	0.25	18055	141, 145	0.75
15702	135, 137, 139	9.086	17018	127, 129, 131, 133, 155, 157, 159	0.01	18056	145	0.1
15703	135, 137	14.978	17019	127, 129, 131, 135, 155, 157, 159	0.02	18058	131, 145, 151, 157	0.012
15712	135, 137	26.082	17023	127, 155	0.32	18059	145	0.026
15751	117, 119, 135, 137	0.014	17024	127, 131, 133, 155, 157, 159	0.32	18100	141, 145	7.2
			17026	127, 131, 133	24	18106	141, 143, 145	0.07
			17028	127	0.16	18129	131, 141, 143, 161	0.57
			17029	149	0.044	18206	143	1.5
			17032	129	0.04	18218	141, 143, 145	0.04
			17033	127, 135	1.5	18435	153	1
			17034	135, 161	0.02	18500	141, 143, 147	13
			17035	127, 131, 133	0.18	18502	141, 145, 151	3.4
			17040	127, 155	0.03			

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
18504	141	1.82	125C	77	0.29	150C90	80	0.62
18511	147	3.404	125D	77	0.31	150CAP	77	0.54
18512	147	0.036	125E	77	0.11	150CAP/SS	75	1.28
18600	145	N/A	125F	77	0.98	150CSS	75	1.54
18700	101	3	12600B	109, 121, 135	14	150D	77	0.59
19702	149, 151	9.01	12702A	103, 105, 107, 109, 111, 113, 115	1.13	150D90	80	0.65
19766	151	0.1	12703A	103, 107, 109, 111, 117, 119, 121	2.07	150DSS	75	1.55
050C	76	0.14	12703AW	123	2.792	150E	77	0.21
050D	76	0.16	12705V	103, 107, 123	0.24	150ESS	75	1.23
050E	76	0.05	12707W	105, 113, 115, 125	2.788	150F	77	0.21
050F	76	0.06	12709V	123	0.01	150F90	80	0.27
075ASS	74	0.27	12710V	103, 107	0.01	150FSS	75	1.41
075BSS	74	0.49	12712A	103, 105, 107, 109	3.25	150G	49, 71, 79	0.015
075C	77	0.15	12712AV	107	3.25	150GV	49, 71, 75, 79	0.3
075CAP	76, 77, 78	0.13	12713SD	135, 137	0.1	150PL	77	0.16
075CAP/SS	74	0.49	12713V	103, 107, 135, 137	0.12	150PL/SS	75	0.76
075CSS	74	0.54	12715A	103, 109, 111, 117, 119, 121, 135, 137, 139, 149, 151	0.046	150POICF5/8-4.1	126	47
075D	77	0.15	12717V	103, 107, 123	0.01	150RING	75, 79	0.026
075DSS	74	0.5	12719A	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 125, 135, 137, 139, 149, 151	0.046	150SHM	79	0.01
075E	77	0.06	12719AV	103, 107	0.05	15201W	139	8.895
075ESS	74	0.42	12754V	103, 107, 123	0.01	15703W	139	18.428
075F	77	0.06	12765A	103, 107, 109, 111, 117, 119, 121, 135, 137	0.05	15999V	135, 137	0.288
075FSS	74	0.37	12771A	103, 111	0.23	16704A	147	41.5
075PL/SS	74	0.17	12775A	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123	0.014	16773A	147	3
100125CAP	77	0.27	12777SS	155, 157, 159, 161	0.14	17000SS	155, 157, 159	1.58
100125PL	77	0.06	12882A	103, 117, 119, 127, 129, 135, 139, 155	7.6	17002SS	155, 157, 159	2.038
100A	77	0.09	12883B	127	0.146	17004SS	155	6.954
100ASS	74	0.32	12902A	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 139, 149, 151	0.006	17008-4.1	127	1.534
100B	77	0.29	12999A	103, 107, 109, 111	0.25	17008-4.1SS	155	2
100BSS	74	0.71	12999AV	103, 107, 111	0.32	17008-4.6	127	1.68
100C	77	0.27	13155M	123	0.62	17008-4.6SS	155	1.956
100CAP/SS	74	0.66	13719V	123	0.02	17008SS	155, 157, 159	2
100CSS	74	0.73	13777SS	161	0.21	17009B	127, 129, 131, 133, 155, 157, 159	0.022
100D	77	0.31	13778V	161	0.002	17011SS	155, 157, 159	0.888
100DSS	74	0.75	150(200)K	79	0.134	17026SS	155, 157, 159	32
100E	77	0.1	15000V	135, 137	2.364	17035SD	127	0.13
100ESS	74	0.58	150125A	77	0.197	17035SS	155, 157, 159	0.18
100F	77	0.11	150125B	77	0.26	17046SS	155, 157	8.804
100FSS	74	0.58	150125C	77, 78	0.568	17049A	133	10.738
100G	71, 79	0.2	150125D	77	0.31	17049ASS	159	12.75
100GV	71, 75, 79	0.2	150125E	77	0.16	17055A	133, 159	1.75
100PL/SS	74	0.27	150125F	77	0.18	17056E	109, 115	2
100RING	75, 79	0.012	15035E	105, 113, 123, 125, 139, 143, 149, 151	0.386	17100SS	155	3.384
100SHM	79	0.01	150A	77	0.18	17130SS	155, 157, 159	0.02
12000A	103, 107, 109, 111	0.75	150A90	80	0.24	17200A	129	20.6
12000AV	103, 107, 111	0.9	150ASS	75	0.75	17201A	129	8.736
12049E	109, 115, 121	8.118	150B	77	0.57	17206A	129	0.628
12055E	109, 115	0.566	150BSS	75	1.38	17446SS	157	10.818
12201W	123	1.458	150C	77	0.57	18001SS	161	57.5
12202W	105, 113, 115, 123, 125	1.464				18004SS	161	1.616
125A	77	0.098				18008SS	161	3.976
125B	77	0.3				18010SS	109, 115, 121, 133, 141, 143, 145, 159, 161	0.044

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PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
18012SS	161	4.298	200PB-SS	154	52	222PIH6	134	110
18023-1.125	141	4.322	200PB-V	102	18	222PIHY	134	75
18023-1.125SS	161	4.348	200PBI	126	48	222POI	134	60
18023SS	161	4.32	200PBW	104	22	231MPT	68	0.074
18025SD	141, 145	0.32	200PEO	106	9.35	231MPTBN	68	0.08
18025SS	157	0.25	200PH-5	102	51	234PE51SS	156	180
18026SS	161	10.11	200PH-5E	102	56	234PE5SS	156	168
18055H	151	0.75	200PH-5V	102	48	234PIE5	130	160
18100SS	161	7.5	200PH5-SS	154	105	234PIE51	130	200
18106SS	161	0.04	200PH5W	104	53	234POI	130	54
18125SS	161	0.25	200PH6	102	51.2	234PPE5	106	135
18135A	149	1.982	200PHA	108	25	234PPE51	106	142.8
18135B	149	1.986	200PHY	108	21.308	234PPE51V	106	145
18200A	143	31.6	200PHYSS	158	52	234PPE5V	106	123
18202A	143	4.918	200PHYW	108	N/A	250CAP	78	0.68
18203A	143	4.92	200PI-3	126	81	250PL	78	0.42
19001H	151	10.7	200PI6PRO	126	81.5	300A	78	0.48
19201W	149, 151	10	200PIH-5	126	81.5	300ASS	75	1.91
19703W	149, 151	17.006	200PIH5E	126	82	300B	78	1.17
19772SS	149, 151	N/A	200PIHA	132	50	300BSS	75	3.3
200150C	78	0.66	200PKL	79	0.02	300C	78	1.4
200A	78	0.3	200PL	78	0.21	300CAP	78	1.07
200A90	80	0.45	200PL/SS	75	0.7	300CAP/SS	75	3.61
200ASS	75	0.99	200PO	102	7.286	300CSS	75	5.06
200B	78	0.64	200PO-SS	154	47	300D	78	1.19
200B90	80	0.948	200PO-V	102	10	300DSS	75	4.54
200BSS	75	1.85	200POI	126	52.5	300E	78	0.78
200C	78	0.69	200POICF5/8	126	47	300ESS	75	4.62
200C90	80	0.78	200POICF7/8	126	47	300F	78	0.57
200CAP	68, 78	0.6	200POSSCF5/8	154	47	300F200F	79	0.606
200CAP/SS	75	1.69	200POSSCF7/8	154	90	300FF	79	0.638
200CAPSH	68, 78	0.52	200SBS	101	N/A	300FSS	75	3.81
200CSS	75	1.494	200SHM	79	0.01	300G	49, 71, 79	0.04
200D	78	0.66	201B	78	0.71	300GV	49, 71, 75, 79	0.06
200D90	80	0.88	201CAPSH	68	0.566	300K	79	0.23
200DSS	75	1.278	201FPT	68	0.04	300K6	75	0.23
200E	78	0.32	201PBIW	128	58	300P11PRO	116	81
200ESS	75	2.06	201PIH5W	128	94	300P11PROW	122	67
200F	78	0.31	201POIW	128	59	300PB	116	20
200F45	80	0.34	202CAP	68	0.34	300PB-SS	160	99
200F90	80	0.42	205PB	102	16	300PBI	140	125
200FF	79	0.34	205PB-V	102	16	300PBW	122	26
200FSS	75	1.55	205PO	102	9	300PH-6	116	50
200G	49, 79	0.02	205PO-V	102	9	300PH13SS	160	150
200GB	75	0.02	205POWV	104	N/A	300PH13W	122	103
200GV	49, 75, 79	0.03	211FPT	68	0.03	300PH6W	122	56
200KL	79	0.18	222PBI	134	70	300PHY	120	26
200P6PRO	102	50	222PI6PRO	134	100	300PHYSS	160	140
200P6PROE	102	N/A	222PIE5	136	180	300PHYW	120	N/A
200P6PROV	102	51	222PIE51	136	190	300PIH-8	140	166
200P6PROW	104	48	222PIH5	134	82	300PIH13	140	176
200PB	102	15.786	222PIH5E	134	110	300PIHY	144	140

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
300PL	78	0.43	AF150GV	73	0.08	CAP100	84	0.09
300PL/SS	75	1.98	AF200	73	0.654	CAP125	84	0.13
300PO	116	12	AF200G	73	0.17	CAP150	84	0.12
300PO-SS	160	115	AF200GV	73	0.17	CAP200	84	0.25
300PO-SSCF	160	97	AF300	73	1.17	CAP300	84	0.57
300POI	140	106	AF300G	73	0.17	CPLG025	83	0.03
300POW	122	N/A	AF300GV	73	0.17	CPLG038	83	0.026
300POW6	122	N/A	AF400	73	1.54	CPLG050	83	0.09
300SBS	101	0.25	AF400G	73	0.45	CPLG075	83	0.11
300SHM	79	0.01	AF400GV	73	0.45	CPLG100	83	0.13
301PBIW	142	135	AFB200	73	0.69	CPLG125	83	0.19
301PIH13W	142	218	AFB300	73	1.38	CPLG150	83	0.3
301POIW	142	130	AFB400	73	1.95	CPLG200	83	0.34
301POWV	122	N/A	BC090	82	0.06	CPLG300	83	0.82
303B	78	1.634	BC114	82	0.05	CR025	84	0.04
303B200A	78	1.554	BEM5	131, 157	95	CR038	84	0.05
303C	78	1.74	BEM5-182CZ	137	95	CR050	84	0.13
333PBI	146	185	BEM51-182CZ	137	95	CR075	84	0.35
333PIE15	146	242	BF075	69	0.82	CR100	84	0.27
333PIH13	146	285	BF075BD	70	0.88	CR125	84	0.72
333POI	146	90	BF100	69	0.82	CR150	84	0.74
333POICF	146	190	BF100BD	70	0.9	CR200	84	0.75
400A	78	1.31	BF100GE	69, 70	0.07	CTS200AR	64	0.65
400B	78	2.03	BF100GRE	70	0.01	CTS200D	64	0.85
400C	78	2.39	BF100GRV	70	0.01	CV050	16	0.27
400CAP	78	1.44	BF107	107, 137	0.1	CV100	16	0.222
400D	78	2.07	BF125	69	0.82	CV100MT	16	0.17
400E	78	2.11	BF150	69	1.26	CV10175	105, 113, 115, 123, 125, 139, 149, 151	0.2
400F	78	1.47	BF150BD	70	1.32	CV10175V	123	N/A
400G	79	0.06	BF200	69	1.07	CV221	16	1
400GV	75, 79	0.19	BF200BD	70	1.2	CV300	16	1.45
400PL	78	1.11	BF200GE	69, 70	0.05	CV301	16	N/A
400SHM	79	0.01	BF200GFV	70	0.05	DB20153M	56, 57	0.5
444PIH24	152	345	BF200GV	69, 70	0.05	DB20290	56, 57	0.004
444POI	152	120	BF200V	69	1.07	DM100ABSS	60	3.5
75A1/2	76	0.07	BF207	151	0.125	DM100ASS	60	3.5
75A1/4	76	0.08	BF220	69	1.45	DM100CAP	60	0.19
75A3/4	77	0.05	BF220BD	70	1.5	DM100DBSS	60	3.75
75B1/2	76	0.14	BF220GE	69, 70	0.154	DM100DBSST	60	3.75
75B3/4	77	0.14	BF220GV	69, 70	0.08	DM100DSS	60	3.75
75G	79	0.1	BF300	69	2.264	DM100DSSE	60	3.75
75GV	75, 79	0.1	BF300BD	70	2.42	DM100PL	60	0.234
75PL	76, 77, 78	0.05	BF300GE	69, 70	0.2	DM101SS	60	0.346
75SHM	79	0.01	BF300GFE	70	0.02	DM10294A	60	0.01
A204	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 135, 137, 139, 149, 151	N/A	BF300GFV	70	0.02	DM10295A	60	0.006
A204V	103, 107, 123	N/A	BF300GV	69, 70	0.1	DM10296	60	0.1
AF100	73	0.3	BM1070	123	N/A	DM102SSE	60	0.384
AF100G	73	0.06	CAP025	84	0.03	DM102SST	60	0.125
AF100GV	73	0.06	CAP038	84	0.03	DM102SSV	60	0.386
AF150	73	0.43	CAP050	84	0.06	DM150A	56	2.64
AF150G	73	0.08	CAP075	84	0.052	DM150AB	56	2.2
						DM150ABSS	61	6.3

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PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
DM150AE	56	2.75	DM25153M	58	N/A	EV200SLXR1	24	5
DM150ASS	61	6.35	DM25200	58	N/A	EV200XR1	22	5
DM150D	56	2.64	DM25294	63	N/A	EV20210	22, 24, 31, 32	0.246
DM150DB	56	2.2	DM25294E	63	N/A	EV204BLFP	24	8.06
DM150DBSS	61	6.9	DM25294T	63	0.048	EV204BLXR1	24	6
DM150DBSSE	61	6.9	DM300ACF	39	7.72	EV204FP	22	6.72
DM150DE	56	2.82	DM300AFP	59	4.8	EV204SLFP	24	7.66
DM150DSS	61	6.9	DM300CAP	59	2.82	EV204SLXR1	24	6
DM150DSSE	61	6.9	DM300DCF	39	8.4	EV204XR1	23	5
DM200A	57	3.007	DM300DFP	59	8.4	EV25210	23, 24, 31, 32	0.352
DM200AB	57	2.2	DM300PL	59	1	EV300FP	22	12
DM200ABSS	62	5.768	DM35153F	39, 59	0.466	EV300XR1A	22	N/A
DM200ACAP	61, 62	1	DM35153M	39, 60	0.662	EV3300	22, 24, 31, 32	2.88
DM200ACF	39	3.15	DM35200	39, 61	N/A	EV35210	22, 31	N/A
DM200AE	57	2.75	DB20295	56, 57, 61, 62	N/A	EV4300	22, 24, 31, 32	3.305
DM200APL	61, 62	0.49	DM35294	59	0.086	EVR075	23	4.5
DM200ASS	62	6.2	DMMT201A	57	2.5	EVR100FP	23	4.5
DM200AT	57	2.2	DMMT201AE	57	2.5	EVR204FP	23	7
DM200CAP	56, 57	0.38	DPCF100	55	0.5	EVR3300	23, 31	N/A
DM200D	57	2.75	DPCM100	55	0.25	EVR4300	23, 31	N/A
DM200DB	57	2.2	DPCMT100	55	0.27	EVX100	18, 3	3.96
DM200DBSS	62	6.9	EL025-90	85	0.016	EVX125	18, 3	3.88
DM200DBSSE	62	6.9	EL038-90	85	0.04	EVX150	18, 3	4.45
DM200DCF	39	2.75	EL050-90	85	0.07	EVX200	19, 27, 3	4.92
DM200DE	57	3	EL075-90	85	0.1	EVX220	19, 27, 3	4.92
DM200DSS	62	6.9	EL100-45	85	0.14	EVX300	20, 3	9.12
DM200DSSE	62	6.9	EL100-90	85	0.15	EVXR100	18, 3	4.02
DM200DSST	62	6.9	EL125-90	85	0.22	EVXR125	18, 3	3.98
DM200DT	57	2.75	EL150-90	85	0.33	EVXR150	18, 3	4.51
DM200PL	56, 57	0.49	EL200-90	85	0.44	EVXR200	19, 3	4.39
DM20153F	39, 56, 57	0.252	EL300-90	85	1.21	EVXR220	19, 3	4.98
DM20153M	39, 56, 57	0.412	EV075	22	4.94	EVXR300	20, 3	N/A
DM201SS	61, 62	1.158	EV075BL	24	4.96	FC100	22, 23, 24, 31, 32, 49	0.25
DM20200A	39, 56, 57	0.242	EV075BLXR1	24	4.2	FC200	49	0.23
DM20200D	39, 56, 57	0.254	EV075SL	24	4.94	FC220	41, 49	0.25
DM20294A	56, 57, 61, 62	0.016	EV075SLXR1	24	4.2	FC220B	49	1.364
DM20296	56, 57, 61, 62	0.125	EV075XR1	22, 23	4.2	FC220TB	49	0.43
DM202SSE	61, 62	1.25	EV100BL	24	4.5	FC300	41, 49	0.34
DM202SST	61, 62	1.3	EV100BLXR1	24	4.2	FC300B	49	1.76
DM202SSV	61, 62	1.32	EV100FP	22	4.2	FC300TB	49	0.52
DM220A	58	4.3	EV100SL	24	4.5	FM100	42	2.75
DM220ABSS	63	0.43	EV100SLXR1	24	4.2	GHFT075A	81	0.06
DM220ASS	63	7.8	EV100XR1	22, 23	4.2	GHFT075D	81	0.17
DM220CAP	58, 63	1	EV10210	22, 23, 24, 31, 32	0.23	GHFT075G	81	N/A
DM220D	58	N/A	EV125	22	4.88	GHFT075MPT	81	0.04
DM220DBSS	63	7	EV125XR1	22	1.39	GHMT075B	81	0.14
DM220DSS	63	9.8	EV150	22	6.36	GHMT075F	81	0.05
DM220PL	63	1	EV150SL	24	6.48	GHMT075FPT	81	0.04
DM221PL	58	N/A	EV150SLXR1	24	5	GHMT075MPT	81	0.04
DM221SS	63	0.206	EV150XR1	22	5	GHN075	81	0.6
DM222SS	63	0.216	EV200	22	6.41	HB025	86	0.01
DM25153F	58	N/A	EV200SL	24	7	HB025-038	86	0.012

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
HB025-038SS	86	0.07	HB150-200	86	0.19	L150B	79	0.58
HB025-050	86	0.48	HB150-90	86	0.23	L150C	79	0.58
HB025-050SS	86	0.07	HB150/125-90	86	0.16	L150CAP	79	0.55
HB025-90	86	0.01	HB150SS	86	0.68	L150D	79	0.6
HB025/038-90	86	0.01	HB200	86	0.2	L200B	79	0.64
HB025/050-90	86	0.022	HB200-150	86	0.18	L200C	79	0.7
HB025SS	86	0.04	HB200-90	86	0.33	L200CAP	79	0.62
HB038	86	0.01	HB200/150-90	86	0.22	L200D	79	0.736
HB038-050	86	0.02	HB200SS	86	1.13	LEV038	21	0.55
HB038-050SS	86	0.1	HB300	86	0.7	LEV038PL	21	0.08
HB038-90	86	0.02	HB300-90	86	1.05	LEV050	21	0.6
HB038SS	86	0.09	HB300SS	86	3.55	LS050-20	94	0.35
HB050	86	0.03	HB400	86	1.6	LS050-40	94	0.35
HB050-025	86	0.03	HBB20012590	85	0.25	LS050-80	94	0.37
HB050-038	86	0.02	HBC050075	84	0.028	LS050-B	95	0.22
HB050-058SS	86	0.128	HBEL100-90	85	0.06	LS050B/C1	95	0.298
HB050-075	86	0.03	HBEL150/100-90	85	0.19	LS075-20	94	0.3
HB050-075SS	86	0.2	HBF075	86	0.06	LS075-40	94	0.33
HB050-90	86	0.03	HBF075-100	86	0.08	LS075-80	94	0.35
HB050/038-90	86	0.024	HBF100	86	0.09	LS075-B	95	0.194
HB050/075-90	86	0.04	HBT025	87	0.03	LS075-C1	95	0.086
HB050SS	86	0.13	HBT038	87	0.03	LS075-G	95	0.004
HB075	86	0.04	HBT050	87	0.03	LS075B/C1	95	0.28
HB075-038	86	0.03	HBT050-075	87	0.03	LS100-20	94	0.91
HB075-050	86	0.03	HBT075	87	0.05	LS100-40	94	0.9
HB075-050SS	86	0.2	HBT075-050	87	0.04	LS100-80	94	0.96
HB075-058	86	0.038	HBT075-050SS	87	0.246	LS100-B	95	0.636
HB075-100	86	0.05	HBT075-100	87	0.06	LS100-C1	51, 95	0.232
HB075-100SS	86	0.25	HBT100	87	0.08	LS100-G	51, 95	0.02
HB075-90	86	0.05	HBT100-075	87	0.06	LS100-GV	95	0.02
HB075/050-90	86	0.04	HBT100-100	87	0.08	LS100B/C1	95	0.872
HB075/100-90	86	0.05	HBT150-100	87	0.21	LS120	51, 95	0.07
HB075SS	86	0.2	HBT150-150	87	0.23	LS125-20	94	0.86
HB100	86	0.06	HBT200	87	0.4	LS125-40	94	0.84
HB100-075	86	0.06	HBT300	87	1.15	LS125-80	94	0.9
HB100-075SS	86	0.3	HM025	87	0.03	LS125-B	95	0.59
HB100-125	86	0.08	HM038	87	0.03	LS125B/C1	95	0.826
HB100-90	86	0.07	HM050	87	0.01	LS140	51, 95	0.07
HB100/075-90	86	0.06	HM075	87	0.026	LS150-06	96	2.42
HB100/125-90	86	0.1	HM100	87	0.04	LS150-12	96	2.42
HB100SS	86	0.3	HM125	87	0.07	LS150-120	96	2.5
HB125	86	0.1	HM150	87	0.08	LS150-20	96	2.42
HB125-075	86	0.08	HM200	87	0.22	LS150-30	96	2.5
HB125-100	86	0.09	HM300	87	0.73	LS150-50	96	2.5
HB125-150	86	0.1	HSV1000	108, 114, 120, 132, 144, 150, 158	11	LS150-80	96	2.5
HB125-90	86	0.11	HV200	40	0.58	LS150-B	97	1.404
HB125/100-90	86	0.09	HY1001	145	1.5	LS150-C	51, 97	0.576
HB125/150-90	86	0.09	HY1003	109, 121	1.5	LS150-G	51, 97	0.03
HB125SS	86	0.5	HY1012	145, 151	13.2	LS150-GV	51, 97	0.03
HB150	86	0.13	HY1013	109, 121, 159	4.5	LS150B/C	97	1.91
HB150-100	86	0.09	HY10131	115	N/A	LS180	51, 95	2.12
HB150-125	86	0.1	HY10132	115	N/A	LS200-06	96	2.5

REFERENCE

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
LS200-100	96	2	LSQ200-G	93	0.05	LST150-80	90	2.13
LS200-12	96	2.33	LSQ200-GV	93	0.162	LST150-B	51, 91	0.22
LS200-120	96	2	LSQ200-PL	51, 53, 91, 93, 97	0.042	LST150-G	51, 91	0.014
LS200-20	96	2.33	LSQ200-R	51, 53, 91	0.002	LST150-GV	51, 91	0.024
LS200-30	96	2.42	LSQ200-RV	93, 97	0.004	LST150-H	91	1.122
LS200-50	96	2.42	LSQ200R1	93	0.002	LST150-HB	91	1.794
LS200-80	96	2.42	LSS300-B	98, 99	23.902	LST15100	51, 91	0.27
LS200-B	97	1.254	LSS300-BC	98, 99	23.88	LST1516	51, 91	0.196
LS200B/C	97	2	LSS300-C	98, 99	2.91	LST1530	51, 91	0.17
LS206	51, 93, 97	0.3	LSS300-G	98, 99	0.1	LST1550	51, 91	0.15
LS2100	97	0.09	LSS300-GV	98, 99	0.044	LST1580	51, 91	0.1
LS212	51, 93, 97	0.29	LSS300-H	99	1.724	LST180	51, 91	0.07
LS2120	51, 93, 97	0.08	LSS300-S	98, 99	0.032	LST200-10SS	92	16
LS212P	97	0.134	LSS300-SV	98, 99	0.05	LST200-16SS	92	16
LS220	51, 93, 97	0.2	LSS306	99	0.198	LST200-30SS	92	16
LS220P	97	0.17	LSS308	99	0.256	LST200-50SS	92	16
LS230	51, 93, 97	0.188	LSS312	99	0.37	LST200-80SS	92	16
LS250	51, 93, 97	0.13	LSS320	99	0.4	LST200-B	93	1.946
LS250P	97	0.116	LSS330	99	0.368	LST200-GV	93	0.04
LS280	51, 93, 97	0.1	LSS350	99	0.366	LST200-HBSS	93	0.35
LS300EC	53, 99	0.626	LST075-100	90	0.83	LST200-HSS	93	1.614
LS304	53, 99	0.598	LST075-16	90	0.824	LST204SS	53, 93	0.416
LS308	53, 99	1.106	LST075-30	90	0.84	LST206SS	53, 93	0.382
LS312	53, 99	4.31	LST075-50	90	0.84	LST208SS	53, 93	0.326
LS320	53, 99	1.03	LST075-80	90	0.83	LST2100SS	53	0.45
LS350	53, 99	0.92	LST075-H	91	0.518	LST210SS	53, 93	0.48
LS720	95	0.04	LST075-HB	91	0.738	LST216SS	53, 93	0.27
LS740	95	0.04	LST100-100	90	0.76	LST230SS	53, 93	0.49
LS760	95	0.022	LST100-16	90	0.78	LST250SS	53, 93	0.49
LS780	95	0.04	LST100-30	90	0.79	LST280SS	53, 93	0.48
LSM300-04	98	8	LST100-50	90	0.81	LST5100	89	0.016
LSM300-08	98	8	LST100-80	90	0.78	LST530	89	0.05
LSM300-12	98	8	LST100-B	51, 91	2.17	LST550	89	0.024
LSM300-20	98	8	LST100-G	51, 91	0.02	LST580	89	0.05
LSM300-50	98	8	LST100-GV	51, 91	0.02	LSTM050-100	88	0.76
LSQ150-06	92	4.17	LST100-H	91	0.474	LSTM050-100C	88	0.314
LSQ150-12	92	4.17	LST100-HB	91	2.25	LSTM050-30	88	0.76
LSQ150-120	92	4.17	LST1100	51, 91	0.07	LSTM050-30C	88	0.324
LSQ150-20	92	4.17	LST116	51, 91	0.084	LSTM050-50	88	0.3
LSQ150-30	92	4.17	LST125-100	90	2.26	LSTM050-50C	88	0.76
LSQ150-50	92	4.17	LST125-16	90	2.032	LSTM050-80	88	0.76
LSQ150-80	92	4.17	LST125-30	90	2.22	LSTM050-80C	88	0.316
LSQ150-B	93	1.966	LST125-50	90	2.24	LSTM050B	89	0.098
LSQ200-06	92	4.17	LST125-80	90	2.18	LSTM050BC	89	N/A
LSQ200-12	92	4.17	LST125-H	91	1.19	LSTM050G	89	0.02
LSQ200-120	92	4.17	LST125-HB	91	1.846	LSTM050H	89	0.174
LSQ200-20	92	4.17	LST130	51, 91	0.07	LSTM075-100	88	0.76
LSQ200-30	92	4.17	LST150	51, 91	0.07	LSTM075-100C	88	0.3
LSQ200-50	92	4.17	LST150-100	90	1.9	LSTM075-30	88	0.76
LSQ200-80	92	4.17	LST150-16	90	1.982	LSTM075-30C	88	0.31
LSQ200-B	93	1.818	LST150-30	90	2.12	LSTM075-50	88	0.288
LSQ200-C	93	1.74	LST150-50	90	2.15	LSTM075-50C	88	0.308

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
LSTM075-80	88	0.76	M100GV	49	0.02	M200PLG050	47	0.09
LSTM075-80C	88	0.302	M100MPT	46	0.08	M200PLG075	47	0.1
LSTM075H	89	N/A	M100MPTSS	46	0.34	M200PLG100	47	0.11
LV025MTV	6	0.06	M100PA	40	0.25	M200SWFSS	44	0.68
LV025V	6	0.054	M100PAC	40	0.32	M200SWP90	43	0.38
LV038050MTLV	6	0.07	M100PAT	40	0.65	M200TEE	45	0.6
LV038050MTV	6	0.058	M100PLG	47	0.05	M200YG45	45	1.3
LV038MTV	6	0.07	M100PLG025	47	0.04	M201G	49	0.05
LV038V	6	0.07	M100PLG050	47	0.04	M220100BRB	48	0.15
LV050100MTLV	6	0.125	M100SWFSS	44	0.32	M220100CPG	45	0.15
LV050100MTV	6	0.11	M100SWP90	43	0.13	M220100TEE	45	0.4
LV050MTV	6	0.096	M100SWPG90	43	0.13	M220125BRB	48	0.16
LV050SLLV	6	0.12	M100TEE	45	0.2	M220150BRB	48	0.16
LV050SLV	6	0.08	M101G	49	0.006	M220150BRB90	48	0.21
LV050V	6	0.084	M101GSA	44	0.07	M220150MPTSS	46	0.65
LVBH025V	6	0.06	M101TEE	45	0.23	M220200CPG	45	0.2
LVBH038050MTV	6	0.064	M104SWFSS	44	0.7	M220200HBT	48	0.4
LVBH038V	6	0.06	M12712	111, 113, 115	N/A	M220200SWP90	43	0.364
LVBH050V	6	0.06	M13712	119, 125	4.588	M220200TEE	45	0.6
LVBH075100MTV	6	0.13	M15712	139	N/A	M220375SWFSS	44	1.35
LVBH075MTLV	6	0.07	M18008	141	3.368	M220A	47	0.2
LVBH075MTV	6	0.13	M18012	141	3.578	M220ASWP90	43	0.4
LVBH075V	6	0.118	M19712X	149, 151	27.046	M220BRB	48	0.19
LVPL025V	6	0.06	M200100BRB	48	0.15	M220BRB45	48	0.22
LVPL038025MPTV	6	N/A	M200100BRB90	48	0.16	M220BRB90	48	0.3
LVPL038MPTV	6	N/A	M200100CPG	45	0.16	M220BRBSWP90	43	0.4
LVPL038V	6	0.06	M200100TEE	45	0.52	M220BWASS	46	0.5
LVPL050V	6	0.06	M200125BRB	48	0.16	M220CPG	44	0.21
M100050FPT	46	0.06	M200125BRB90	48	0.21	M220CPG3G	44	0.2
M100075BRB	48	0.06	M200125MPT	46	0.2	M220CPG45	41, 44	0.24
M100075BRB90	48	0.06	M200125MPTSS	46	0.2	M220CPG6	41, 44	0.27
M100075FPT	46	0.05	M200150BRB	48	0.17	M220CPG90	45	0.34
M100075MPT	46	0.052	M200150BRB45	48	0.17	M220CR	47	0.58
M100100HBT	48	0.09	M200150BRB90	48	0.21	M220D	47	0.73
M100125BRB	48	0.08	M200150FPT	46	N/A	M220FPT	46	0.26
M100125BRB90	48	0.11	M200150MPT	46	0.23	M220MPT	46	0.21
M100125BRBSWP90	43	0.15	M200150MPTSS	46	0.23	M220MPTSS	46	0.62
M100125HBT	48	0.17	M200A	47	0.24	M220MPTSSWP90	43	0.3
M100125MPT	46	0.114	M200BRB	48	0.24	M220P6PRO	110	51
M100150BRB90	48	0.17	M200BRB45	48	0.26	M220P6PROW	112	47.4
M100A	47	0.07	M200BRB90	48	0.34	M220PB	110	N/A
M100BRB	48	0.066	M200CPG	44	0.43	M220PBW	112	19
M100BRB45	48	0.074	M200CPG45	44	0.31	M220PH5	110	55
M100BRB90	48	0.08	M200CPG90	45	0.62	M220PH5E	110	58
M100BRBSWP90	43	0.15	M200CPG90SH	45	0.44	M220PH5W	112	55
M100BRBSWP90	43	0.15	M200CR	47	0.69	M220PH6	110	55
M100CPG	44	0.09	M200FPT	46	0.29	M220PHYW	114	N/A
M100CPG45	44	0.09	M200MPT	46	0.26	M220PLG	47	0.12
M100CPG90	45	0.14	M200MPTSS	46	0.81	M220PLG038	47	N/A
M100CR	47	0.24	M200PLG	47	0.12	M220PLG075	47	0.11
M100FPT	46	0.09	M200PLG025	47	0.084	M220PO	110	8.372
M100G	49	0.02	M200PLG038	47	0.09	M220SWFSS	44	0.58

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PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
M220SWP90	43	0.2	M301GSA	44	0.55	M300POW6	5	16.24
M220SWPG90	43, 45	0.25	M303D	47	1.5	MEVX100BL	29, 3	4.7
M220TEE	45	0.52	M332PBIW	148	200	MEVX100SL	29, 3	4.7
M220Y45	41, 45	1.32	M332PIE101W	148	270	MEVX200BL	29, 3	N/A
M220YG45	41, 45	1.34	M332PIE10W	148	262.2	MEVX200	3	4.78
M221G	41, 49	0.03	M332PIH13W	148	155	MEVX200SL	29, 3	N/A
M221GSA	44	0.258	M332PIHYW	150	190	MEVX220	3	4.82
M222PIE51W	138	200	M332POIW	148	70.532	MEVX220BL	29, 3	N/A
M222PIE5W	138	200	MAF220	47	N/A	MEVX220SL	29, 3	N/A
M222PIH6W	138	115	MAF300	47	N/A	MEVX300	28, 3	8.8
M300200CPG	45	0.26	MBF100	54	0.9	MEVX300BL	29, 3	N/A
M300200HBT	48	0.8	MBF100BD	54	0.948	MEVXR100	26, 3	N/A
M300220BRB	48	0.27	MBF200	54	1.37	MEVXR200	27, 3	N/A
M300220BRB90	48	0.404	MBF200BD	54	1.44	MEVXR220	27, 3	N/A
M300220CPG	41, 45	0.24	MBF220	54	1.62	MEVXR300	28, 3	N/A
M300220MPTSS	46	1.332	MBF220BD	54	1.62	MFM100	42	2.75
M300220SWP90	43	0.58	MBF300	54	2.34	MFM220	42	2.75
M300300HBT	48	1.028	MBF300BD	54	2.5	MFM300	42	5.4
M300375SWFSS	44	3.2	MBP200	66	0.26	MHV200	40	0.57
M300A	47	0.35	MCV100	44	0.154	MHV220A	40, 41	0.8
M300ASWP90	43	0.8	MCV200	44	0.45	MIS220	41	20
M300BRB	48	0.49	MCV221	44	0.5	MIS300	41	23
M300BRB45	48	0.51	MCV300	44	1.224	MLEV100	30, 4	0.65
M300BRB90	48	0.78	MCV301	44	N/A	MLS100-20	50	0.98
M300BRBSWP90	43	1.24	MEV100BLCF	32	4.59	MLS100-40	50	0.964
M300CPG	44	0.41	MEV100BLXR1	32	1.75	MLS100-80	50	0.88
M300CPG12	44	1	MEV100CF	31	4.228	MLS100B	51	0.664
M300CPG45	41, 44	0.49	MEV100SLCF	32	4.62	MLS100BC	51	0.896
M300CPG7	41, 44	0.57	MEV100SLXR1	32	2.85	MLS200-06	50	2.25
M300CPG90	45	0.75	MEV100XR1	31	1.465	MLS200-12	50	2.5
M300CR	47	1.18	MEV102CF	30	11.16	MLS200-20	50	2.15
M300FPT	46	0.5	MEV103CF	30	17.16	MLS200-30	50	2.15
M300MPT	46	0.44	MEV104CF	30	22.32	MLS200-50	50	3.9
M300MPTSS	46	1.85	MEV105CF	30	27.9	MLS200-50M	50	2.42
M300MPTSWP90	43	0.63	MEV200BLCF	32	6.38	MLS200-80	50	2.15
M300P11PRO	118	81	MEV200BLXR1	32	2.4	MLS200B	51	1.554
M300PB	118	20	MEV200CF	31	5.75	MLS200BC	51	2.07
M300PBW	124	24	MEV200SLCF	32	6.5	MLS2100SS	53	0.54
M300PH6	118	45.4	MEV200SLXR1	32	2.4	MLS220C1	53	0.82
M300PH6W	124	49	MEV200XR1	31	2	MLS220G1	53	0.008
M300PLG	47	0.25	MEV220BLCF	32	8.05	MLS220R1	53	0.42
M300PLG075	47	0.23	MEV220BLXR1	32	3	MLS222-04	52	3.82
M300PLG100	47	0.248	MEV220CF	31	7	MLS222-08	52	3.82
M300PO	118	9.792	MEV220SLCF	32	8.13	MLS222-10	52	3.5
M222POIW	138	N/A	MEV220SLXR1	32	3	MLS222-100	52	3.7
M300SWFSS	44	1.46	MEV220XR1	31	2.8	MLS222-16	52	3.7
M300SWP90	43	0.7	MEV300CF	31	13.396	MLS222-30	52	3.75
M300SWPG90	43	0.75	MEV300XR1A	31	N/A	MLS222-50	52	3.75
M300TEE	45	1.15	MEVR100CF	31	4.45	MLS222-80	52	3.7
M300Y45	41, 45	3.38	MEVR200CF	31	6.48	MLS222B	53	2.168
M300YG45	41, 45	3.258	MEVR220CF	31	6.736	MLS222BC	53	3.25
M301G	41, 49	0.03	MEVX100	26, 3	3.78	MLEV100A	30	N/A

PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
MLS250SS	53	0.6	MV220BL	38	4.63	PLUG038	84	0.02
MLS280SS	53	0.57	MV220CF	33	2.798	PLUG050	84	0.02
MLS300-08	52	8	MV220SL	38	2.75	PLUG075	41, 84	0.04
MLS300-12	52	8	MV225200	31	N/A	PLUG075S	93	0.032
MLS300-20	52	8	MV225CF	33	7.3	PLUG100	84	0.06
MLS300-50	52	8.44	MV300	33	3.9	PLUG125	84	0.09
MLS300B	53	4.964	MV300BL	38	6.68	PLUG150	84	0.1
MLS300B1	99	5.342	MV300CF	33	5.866	PLUG200	84	0.152
MLS300BC	53	N/A	MV301CF	41	6	PLUG300	84	0.444
MLS300CAP	53, 99	1.36	MVE004	22, 23, 24, 31, 32	0.1	PRC200	101	N/A
MLS300ECG	53, 99	0.024	MVS220CF	34, 41	1.744	PV075	16	0.53
MLS300ECGV	53, 99	0.04	MVS220FP	34	1.804	PV100	16	0.52
MLS300G	53, 99	0.03	MVS220HSFP	35	2.88	PV100-075	16	0.64
MLS300GV	53, 99	0.05	MVS300CF	36	3.046	PV100-075B	16	0.648
MLST100-100	50	0.75	MVS300CFFP	36	3.75	PV100-075V	16	0.35
MLST100-16	50	0.75	MVS300HSFP	37	6.32	PV100V	16	0.56
MLST100-30	50	0.75	MVSF220FP	34	1.78	PV10265	16	0.07
MLST100-50	50	0.75	MVSF220HSFP	35	2.9	PV10265V	16	0.2
MLST100-80	50	0.75	MVSF300	36	3.29	RB038-025	83	0.01
MLST100-H	51	0.48	MVSF300FP	36	4	RB050-025	83	0.02
MLST100-HB	51	0.63	MVSF300HSFP	37	6.42	RB050-038	83	0.01
MLST150-100	50	2	MVSMT220FP	34	1.75	RB075-025	83	0.04
MLST150-16	50	2	MVSMT220HSFP	35	2.94	RB075-038	83	0.03
MLST150-30	50	2	MVSMT300	36	3.192	RB075-050	83	0.03
MLST150-50	50	2	MVSMT300HSFP	37	6.44	RB100-025	83	0.07
MLST150-80	50	2	NIP025-SH	83	0.01	RB100-050	83	0.05
MLST150-80V	50	2	NIP038-SH	83	0.02	RB100-075	83	0.04
MLST150-H	51	1.258	NIP050-3	83	0.04	RB125-038	83	0.1
MLST150-HB	51	1.75	NIP050-SH	83	0.02	RB125-075	83	0.09
MLSTM100-100	49	0.34	NIP075-4	83	0.074	RB125-100	83	0.06
MLSTM100-100C	49	0.34	NIP075-6	83	0.12	RB150-075	83	0.12
MLSTM100-30C	49	0.33	NIP075-SH	83	0.03	RB150-100	83	0.1
MLSTM100-50	49	0.33	NIP100-4	83	0.09	RB150-125	83	0.1
MLSTM100-50C	49	0.33	NIP100-6	83	0.14	RB200-075	83	0.18
MLSTM100-80	49	0.34	NIP100-SH	83	0.038	RB200-100	83	0.17
MLSTM100-80C	49	0.34	NIP125-4	83	0.136	RB200-125	83	0.14
MPRV100-050	39	1.506	NIP125-6	83	0.22	RB200-150	83	0.12
MPRV100-075	39	1.45	NIP125-SH	83	0.06	RB300-150	83	0.51
MPRV100-100	39	1.5	NIP150-3	83	0.14	RB300-200	83	0.5
MPRV100-125	39	1.54	NIP150-4	83	0.22	RB400-300	83	1
MPRV100-150	39	1.514	NIP150-5	83	0.26	RC100-075	83	0.15
MSUV100FP	15	0.46	NIP150-6	83	0.34	RC150-100	83	0.2
MSW220	44	0.4	NIP150-SH	83	0.12	RC150-125	83	0.206
MTF220BD	54	0.75	NIP200-4	83	0.25	RC200-050	83	0.28
MTF300BD	54	2.092	NIP200-6	83	0.38	RC200-100	83	0.26
MV100BL	38	1.2	NIP200-SH	83	0.14	RC200-125	83	0.26
MV100CF	33	0.75	NIP2101	66	0.3	RC200-150	83	0.26
MV100SL	38	1.13	NIP300-4	83	0.43	RC300-200	83	0.62
MV10300SL	13	0.245	NIP300-6	83	0.7	RN050-038	83	0.018
MV200BL	38	2	NIP300-SH	83	0.3	RN075-050	83	0.03
MV200CF	33	2.024	NIP400-SH	83	1.56	RN100-050	83	0.06
MV200SL	38	2	PLUG025	84	0.03	RN100-075	83	0.06

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PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT	PART NO	PAGE(S)	WEIGHT
RN125-075	83	0.086	TC425	82	0.18	TL652S	67	0.63
RN125-100	83	0.08	TC438	82	0.36	TL6531	68	0.084
RN150-100	83	0.122	TC456	82	0.38	TLA10	67	2.518
RN150-125	83	0.14	TEE025	84	0.02	TLV10R	67	1.644
RN200-125	83	0.16	TEE038	84	0.05	TLV2	67	0.06
RN200-150	83	0.17	TEE050	84	0.1	TLVA10	67	2.25
RN300-200	83	0.36	TEE075	84	0.14	TM075/050	87	0.16
RS21	87	0.756	TEE100	84	0.21	UB100	45	0.24
RSTB	87	0.704	TEE125	84	0.32	UB202	45	0.26
SL025-90	85	0.02	TEE150	84	0.45	UB220	45	0.32
SL038-90	85	0.03	TEE200	84	0.6	UV050FP	15	0.25
SL050-90	85	0.06	TEE300	84	1.58	UV075FP	15	0.25
SL075-45	85	0.07	TEG075	84	0.14	UV100FP	15	0.37
SL075-90	85	0.08	TEG100	84	0.22	UV125FP	15	1
SL100-45	85	0.1	TF038SS	71	0.25	UV150FP	15	1
SL100-90	85	0.13	TF050	71	0.25	UV15163	103, 105, 107, 109, 113, 115, 123, 125, 127, 129, 131, 133, 139, 141, 143, 145, 149, 151, 51, 91	0.002
SL125-45	85	0.14	TF050SS	71	0.8	UV15163V	103, 107, 123, 155, 157, 159, 161	0.002
SL125-90	85	0.14	TF075	71	0.2	UV200FP	15	1.5
SL150-45	85	0.22	TF075SS	71	1.15	UV204FPFD	66	1.58
SL150-90	85	0.25	TF075V	71	0.22	V050	7	0.75
SL200-45	85	0.34	TF100	71	0.35	V07018	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.1
SL200-90	85	0.41	TF100AV	72	0.44	V07019	103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125	0.008
SL300-45	85	0.85	TF100G	71	N/A	V07200	7	0.066
SL300-90	85	1.05	TF100GV	71	N/A	V075	7	0.75
ST200	67	0.77	TF100SS	71	2.85	V075BL	13	1.35
ST300	67	1.27	TF125	71	0.35	V075SL	13	1.35
SUV050FP	15	0.25	TF125AV	72	0.386	V100	7	0.682
SUV075FP	15	0.4	TF125SS	71	1.92	V100BL	13	1.25
SUV100FP	15	0.4	TF138GV	71	0.1	V100FP	7	1.16
SUV125FP	15	0.88	TF150	71	0.63	V100SL	13	1.31
SUV150FP	15	0.88	TF150AV	72	0.68	V10117	139, 151	0.1
SUV200FP	15	1.45	TF150SS	71	4.88	V10118	127, 129, 131, 133, 135, 137, 139, 149, 151, 155, 157, 159, 161	0.004
SW100	87	0.16	TF200	71	0.55	V10119	107, 127, 129, 131, 133, 135, 149, 155, 157, 159, 161	0.1
SW150	87	0.36	TF200AV	72	0.596	V10153138	7	0.07
SW220	87	0.52	TF200SS	71	3.6	V10153A	7, 13, 33	0.064
TA283	68	0.2	TF200V	71	0.56	V10161	14	0.18
TA283QD	68	0.3	TF220	71	0.82	V10200	7, 33	0.12
TC120	82	0.1	TF220G	71	0.038	V10264	153	0.002
TC130	82	0.1	TF220GV	71	0.062	V10270	7	0.138
TC150	82	0.11	TF220SS	71	5.27	V10271	7	0.14
TC162	82	0.12	TF300	71	2	V10300SL	13	N/A
TC181	82	0.14	TF300G	71	0.094	V10353TB	13, 38	0.08
TC193	82	0.12	TF300GV	71	0.154	V125	7	1.25
TC206	82	0.14	TF300SS	71	7.9	V125BL	13	2.126
TC218	82	0.13	TF400	71	4.5	V125FP	7	1.91
TC224	82	0.14	TF400G	71	0.7	V125SL	13	2.07
TC231	82	0.15	TF400GV	71	0.752	V150	7	1.87
TC250	82	0.16	TL600C	67	0.46	V150BL	13	2
TC287	82	0.17	TL650E	67	0.56	V150SL	13	2
TC312	82	0.16	TL650S	67	0.5	V15300SL	13	0.43
TC331	82	0.17	TL651S	67	0.7			
TC343	82	0.17	TL652E	67	0.64			

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V20011SS	147, 153	0.064	VSF200CF	34	1.49	WSF210FSAV	65	1
V20018	107, 109, 115, 121, 131, 133, 137, 141, 143, 145, 147, 153, 157, 159, 161	0.004	VSF200FPAF	9	3.05	WSMT210FSA	65	1.07
V20019	137, 141, 143, 145, 161	0.016	VSF204FP	11	1.82	WSMT210FSAV	65	1
V200BL	13	2.8	VSF300	12	3.424			
V200FP	8	3.25	VSFHB200	10	1.52			
V200SL	13	2.75	VSFMT200	10, 12	1.562			
V20153	7, 33	0.2	VSFMT204FP	11	1.862			
V20153138	7	0.176	VSFMT204HSFP	11	2.95			
V20200	7, 14, 33	0.206	VSFMT300FP	12	4.29			
V20207	68, 79	0.006	VSFMT300HSFP	12	6.63			
V20353TB	13, 38	0.148	VSMT200	10, 12	1.35			
V20353TS	13, 39	0.07	VSMT200CF	34	1.432			
V204FP	9	2.74	VSMT200FPAF	9	2.958			
V25153	8, 9, 12, 33, 36	0.294	VSMT204FP	11	1.874			
V25153138	7	0.16	VSS025	16	0.634			
V25153SH	9, 12, 13, 38	0.125	VSS038	16	0.59			
V25200	8, 9, 14, 33	0.43	VSS050	16	0.7			
V25200BL	13, 38	N/A	VSS075	16	1.298			
V25270	7, 8	0.194	VSS100	16	2.094			
V25271	7, 8	0.356	VSS150	16	3.996			
V25353B	13, 38	0.25	VSS200	16	6.808			
V300	8	3.75	VSS300	16	18.43			
V300FP	8	5.67	VSSH25200	11, 35	N/A			
V30200	8, 33	0.59	W230237	65	1.07			
V35200	8, 33	1.42	W230238	65	1.17			
V400	8	8.5	W230239	65	1.07			
V40200	8	4.2	W230240	65	1.1			
VA150	14	2.592	WSF210FSA	65	1.2			
VA200	14	2.8	WSF210FSAV	65	1			
VA200FP	14	3.958	WSMT210FSA	65	1.07			
VC200	72	0.17	WSMT210FSAV	65	1			
VC230	72	0.26	VSFMT204FP	11	1.85			
VC300	72	0.54	VSFMT204HSFP	11	2			
VC330	72	0.68	VSFMT300FP	12	4.29			
VE5630	22, 31	N/A	VSFMT300HSFP	12	6.63			
VFMT200FP	8	3.368	VSMT200	10, 12	1.35			
VFMT204FP	9	3.33	VSMT200CF	34	1.45			
VL20153	7	0.35	VSMT200FPAF	9	3			
VL25153	8	0.41	VSMT204FP	11	1.85			
VN100	14	0.712	VSS025	16	0.64			
VN10200	14	0.06	VSS038	16	0.59			
VN10253	14	N/A	VSS050	16	0.71			
VS20152SH	10, 34	0.08	VSS075	16	1.3			
VS20200	10, 34	0.158	VSS100	16	2.18			
VS204FP	11	1.834	VSS150	16	3.97			
VS25153	11, 34	0.2	VSS200	16	6.91			
VS25153SS	11, 35,	N/A	VSS300	16	22.6			
VS25200	9, 11, 34	N/A	W230237	65	1.07			
			W230238	65	1.17			
			W230239	65	1.07			
			W230240	65	1.1			



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