



2025

CATALOG #66 EFFECTIVE OCTOBER 2024



INDEX

NEW & RETURNING	3-6
VALVES	8-19
ELECTRIC VALVES	20-25
KZVALVE	26-27
MANIFOLD FLANGE CONNECTIONS	28-54
DRY DISCONNECTS	55-65
IBC/TANK ACCESSORIES	66-74
CAM LEVER COUPLINGS	75-79
PIPE FITTINGS	80-85
LINE STRAINERS	86-97
CENTRIFUGAL PUMPS	98-159
REFERENCE	160-174

BECAUSE EVERY DROP COUNTS

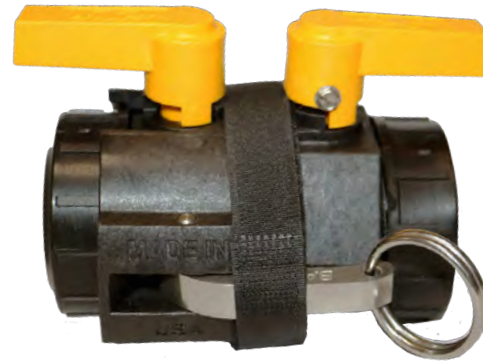


95% LESS SPILLAGE, SAVING YOU MONEY

1" POLY SECO FIT™

CARACTERÍSTICAS

- Válvulas duplas de poli-bola com desconexão rápida integrada.
- 1" full-port (fluxo irrestrito).
- Permite altas pressões e fluxo.
- Design econômico e mais simples em recurso de bloqueio de alça.
- 90% menos derramamento vs. 2 válvulas padrão conectadas através de um acoplamento.



1" POLY DRY FIT™					
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DF100A	1" MALE X FPT NPT W/FKM SEALS	100	1"	1"	1
DF100D	1" FEMALE X FPT NPT W/FKM SEALS	100	1"	1"	1



VÁLVULA & REPARAÇÃO KITS & MANIFOLDS

PART NO	DESCRIPTION	QTY
CV100V	1" FEMALE X FEMALE NPT CHECK	1
MCV100V	1" MANIFOLD CHECK VALVE	1
V10200	KIT FOR V100FP, V125, MV100CF	1
V20200	KIT FOR V125FP, V150, V200	1
V20353TS	T HANDLE FOR V125SL, V150SL	1
V25200	KIT FOR MV220CF, V200FP, V204FP, VA200FP, VFMT200FP, VFMT204FP	1
V25200BL	KIT FOR MV220BL, MV220SL, V200SL	1
V30200	KIT FOR MV300, V300	1
V35200	KT FOR MV300CF, V300FP	1
V40200	KIT FOR V400	1
VA200/150	2" FEMALE NPT X 1 1/2" NOZZLE	1
VS30200	KIT FOR MVSF300, MVSMT300, MVS300CF	1
VSS05200	KIT FOR VSS050	1
VSS10200	KIT FOR VSS100	1
VSS15200	KIT FOR VSS150	1
VSS25200	KIT FOR VSFMT220SS, VSS200	1
VSS35200	KIT FOR VSS300	1

PIPE FITTINGS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
CR025	1/4" POLY CROSS	300	10/BAG
CR038	3/8" POLY CROSS	300	10/BAG
HB038-025	3/8" MALE THREAD X 1/4" HOSE BARB	300	10/BAG
HBF100-90	1" FEMALE THREAD X 1" 90 HOSE BARB	300	10/BAG
HBT025	1/4" HOSE BARB TEE	300	10/BAG
HBT050-038	1/2" X 3/8" HOSE BARB TEE	300	10/BAG
NIP400-SH	4" SHORT POLY NIPPLE	300	1
RB050-018	1/2" MNPT X 1/8" FNPT REDUCER BUSHING	300	10/BAG
RB100-018	1" MNPT X 1/8" FNPT REDUCER BUSHING	300	10/BAG
RB125-038	1" X 3/8" FPT REDUCING BUSHING	300	10/BAG

MANIFOLD

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100125HBT	1" FLANGE X 1 1/4" HOSE BARB TEE	300	10
M101GSA	1" FULL PORT FLANGE X 1" PVC GLUE SOCKET FITTING	300	10
M200THB100	2" MANIFOLD T X 1" HOSE BARB	150	1
M201TEEV075	2" STANDARD VENTURI T W/ 3/4"	200	1
M220150HBT	1 1/2" HOSE BARB X 1 1/2" HOSE BARB	300	10
M220SWP90	2" PULL PORT FLANGE X FLANGE SWEEP	300	10
M220SWPG90	2" FULL PORT FLANGE X FLANGE SWEEP 1/4" PORT	300	1
M221SWP90	2" FULL PORT MANIFOLD 90° SWEEP	300	1
MLSTM100-80	1" MANIFOLD MINI T STRAINER 80 MESH	300	1
MLSTM100HB	1" MANIFOLD MINI T STRAINER HEAD & BOWL	N/A	1
MLSTM100HBC	1" MANIFOLD MINI T STRAINER HEAD & CLEAR BOWL	N/A	1
MTF100BD	1" FLANGE X 1" FEMALE THREAD W/EPDM GASKET	300	10

BOMBAS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
12049F	HYDRAULIC PEDESTAL HOUSING	N/A	1	N/A
17049A	HYDRAULIC ADAPTER	N/A	1	N/A
200PIHA	2" CAST IRON HYDRAULIC W/O MOTOR	N/A	1	N/A
333POICF	3" CAST IRON PUMP ONLY W/1 3/8" SHAFT & 5 VANE IMPELLER UNASSEMBLED FOR 215TC FRAME	N/A	1	6
BEM10-100	10 HP ELECTRIC MOTOR, 1" SHAFT DIAMETER 3 PHASE	10	1	N/A
BEM101-100	10 HP SINGLE PHASE WITH 1" SHAFT	10	1	N/A
BEM15	15 HP, 215TC, 3PH	15	1	N/A
BEM15-100	15 HP MOTOR WITH 1" DIAMETER SHAFT	15	1	N/A
BEM5	CM3613T, 5HP, 184TC, 3PH	5	1	N/A

GASKETS

PART NO	DESCRIPTION	HOLE SIZE	FITS POLY	FITS SS	LOT QTY
TF100G	1" & 1/4" POLY BULKHEAD EPDM GASKET	2 1/4"	TF100 & TF125	TF100SS & TF125SS	25
TF100GV	1" & 1/4" POLY BULKHEAD FKM GASKET	2 1/4"	TF100 & TF125	TF100SS & TF125SS	10

2" POLY DRY-MATES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DM200AT	2" MALE X FPT NPT W/KALREZ® SEALS	100	2"	1 1/2"	1
DM200DT	2" FEMALE X FPT NPT W/KALREZ® SEALS	100	2"	1 1/2"	1

CARACTERÍSTICAS

1 1/2" LSQ STRAINERS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
LSS300-C	3" STAINLESS STEEL LINE CAP	N/A	1
LST220SS	20 MESH SS SCREEN	N/A	1
LSQ150-B/C	1 1/2" X 1 1/2" LSQ STRAINER BODY/CAP	N/A	1
LSQ200-GV	2" FKM GASKET	N/A	1

FITTINGS WITH GAUGE PORTS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100BRBSWPG90	1" FULL PORT X 1" HOSE BARB WITH 1/4" GAUGE PORT	300	10/BAG
M100SWPG90	1" FLANGE X FLANGE SWEEP WITH 1/4" GAUGE PORT	300	10/BAG
M220SWP038G90	2" FULL PORT MANIFOLD SWEEP WITH 3/8" FNPT GAUGE PORT	300	10/BAG
M220SWP050G90	2" FULL PORT FLANGE X FLANGE SWEEP WITH 1/2" GAUGE PORT	300	10/BAG
M221SWP90	2" FULL PORT MANIFOLD SWEEP WITH BLIND GAUGE PORT	300	1
M300BRBSWPG90	3" HOSE BARB X FLANGE SWEEP WITH 1/4" GAUGE PORT	225	1
M300SWP050G90	3" MANIFOLD SWEEP W/ .5" NPT PORT	300	1
M300SWPG90	3" FLANGE X FLANGE SWEEP WITH 1/4" GAUGE PORT	200	1
M200300TEG075	M200 X M200 X M300 WITH 3/4" THREAD PORT	300	1
M200YG45	2" FULL PORT 45° Y FLANGE WITH GAUGE PORT	225	1
M220YG45	2" FULL PORT 45° Y FLANGE WITH 3/4" GAUGE PORT	300	1
M300YG45	3" FULL PORT Y FLANGE WITH 3/4 GAUGE PORT	200	1
M300220WYCG	M300 X M220 Y CROSS WITH 1/4" GAUGE PORT	300	1
TEG075	3/4" POLY T WITH 1/4" FEMALE THREAD	300	10/BAG
TEG100	1" POLY TEE WITH 1/4" FEMALE THREAD	300	10/BAG
TM075/050	8 STATION POLY MANIFOLD	225	1

COUPLINGS WITH GAUGE PORTS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100CPG025G	1" MANIFOLD COUPLING 2 1/4" PORT	300	10/BAG
M101CPG	1" MANIFOLD COUPLING 2 1/4" LONG W/ BLIND GAUGE PORT	300	10/BAG
M200CPG025G	2" MANIFOLD COUPLING 4 1/2" LONG W/ 1/4" PORT	300	10/BAG
M201CPG	2" MANIFOLD COUPLING 4 1/2" LONG W/ BLIND GAUGE PORT	300	10/BAG
M220CPG2GISO	2" FULL PORT MANIFOLD COUPLING 2" LONG W/ G 1/4" PORT	300	10/BAG
M220CPG3G	2" FULL PORT MANIFOLD COUPLING 3" LONG W/ 1/2" PORTS (3)	225	10/BAG
M220CPG6025G	2" FULL PORT MANIFOLD COUPLING 6" LONG W/ 1/4" PORTS	300	10/BAG
M221CPG	2" FP MANIFOLD COUPLING 3" LONG W/ 3 BLIND GAUGE PORTS	300	1
M221CPG6	2" FP MANIFOLD COUPLING 6" LONG W/ BLIND GAUGE PORT	300	10/BAG
M300CPG12G	3" FP MANIFOLD COUPLING 12" LONG W/ 1/2" GAUGE PORT	150	1
M300CPG2	3" FP MANIFOLD COUPLING 4" LONG W/ BLIND GAUGE PORT	200	1
M300CPG55G	3" FULL PORT MANIFOLD COUPLING 5.5" LONG W/ 1/4" PORT	150	1
M300CPG7025G	3" MANIFOLD COUPLING 7" LONG W/ 1/4" PORT	300	1
M301CPG7	3" MANIFOLD COUPLING 7" LONG	225	1
M300CPG2GISO	3" MANIFOLD COUPLING 2" LONG W/ G 1/4" GAUGE PORT	300	1

PLUGS WITH GAUGE PORTS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100PLG025	1" FLANGE PLUG WITH 1/4" FEMALE NPT	300	10/BAG
M100PLG050	1" FLANGE PLUG WITH 1/2" FEMALE NPT	300	10/BAG
M200PLG025	2" FLANGE PLUG WITH 1/4" FPT	225	10/BAG
M200PLG038	2" MANIFOLD PLUG WITH 3/8" FPT	300	10/BAG
M200PLG050	2" FLANGE PLUG WITH 1/2" FPT	225	10/BAG
M200PLG075	2" FLANGE PLUG WITH 3/4" FPT	225	10/BAG
M200PLG100	2" FLANGE PLUG WITH 1" FPT	225	10/BAG
M220PLG038	2" FP MNFLD PLUG WITH 3/8" FPT	150	10/BAG
M220PLG075	2" FP FLANGE PLUG WITH 3/4" FPT	225	10/BAG
M300PLG075	3" FLANGE PLUG WITH 3/4" FPT	200	1
M300PLG100	3" FLANGE PLUG WITH 1" FPT	200	1

M350

**M350+ GALLONS PER MINUTE
 NOT LIMITED. WE USE REAL POLYURETHANES
 ATTACHES EASILY**

Mais informações sobre nossa série M350 estão na página 122



FÁCIL-FILL™ VÁLVULAS

FEATURES

- Elimina vários acessórios para aplicações de preenchimento
- Disponível em tamanhos 2" e 3"
- Projeto de fluxo total (porta cheia)
- Configuração da válvula Stubby reduz perfil
- Acoplador estendido evita interferência do punho



EASY-FILL™ VALVES					
PART NO	DESCRIPTION	MAX PSI	LOT QTY	VALVE HANDLE	REPAIR KIT
VSBB204FP	2" FULL PORT EASY-FILL™ VALVE	150	2/BOX	VS25153	VS25200
VSBB205FP	2" FULL PORT EASY-FILL™ VALVE W/CARRY HANDLE	150	4/BOX	VS25153	VS25200
VSBB304FP	3" FULL PORT EASY-FILL™ VALVE	150	2/BOX	V25153	N/A
VSBB305FP	3" FULL PORT EASY-FILL™ VALVE W/CARRY HANDLE	150	4/BOX	V25153	N/A
H25053	2" & 3" CARRY HANDLE	N/A	1	N/A	N/A

¼"-1" POLY MICRO VÁLVULA

FEATURES

- 90° punho rotativo
- 90° bloqueio, punho rotativo (com asterisco *)
- Polipropileno moldado de precisão é reforçado com fibra de vidro para maior resistência.
- Assentos padrão FKM e O-Rings

John Guest Montagem

A marca "John Guest" é uma marca registrada da John Guest International Limited.



MICRO VALVES					
PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	LOT QTY
LV025V	¼" FEMALE NPT MICRO VALVE	300	¼"	⅜"	10
LV038V	⅜" FEMALE NPT MICRO VALVE	300	⅜"	⅜"	10
LV050V	½" FEMALE NPT MICRO VALVE	300	½"	15/32"	10
LV050SLV	½" SIDE LOAD MICRO VALVE	300	½"	½"	10
LV050SLLV*	½" SIDE LOAD LOCKING MICRO VALVE	300	½"	15/32"	10

MICRO VALVES					
PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU	LOT QTY
LVHB038V	⅜" HOSE BARB MICRO VALVE	300	⅜"	⅜"	10
LVHB050V	½" HOSE BARB MICRO VALVE	300	½"	⅜"	10
LVHB075V	¾" HOSE BARB MICRO VALVE	300	¾"	15/32"	10

Micro válvulas					
PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU	LOT QTY
LV025MTV	¼" FEMALE X ¼" MALE NPT MICRO VALVE	300	¼"	⅜"	10
LV038MTV	⅜" FEMALE X ⅜" MALE NPT MICRO VALVE	300	⅜"	⅜"	10
LV050MTLV*	½" FEMALE X ½" MALE NPT LOCKING MICRO VALVE	300	½"	15/32"	10
LV038050MTLV*	¾" FEMALE X ½" MALE NPT MICRO VALVE	300	¾"	15/32"	10
LV050100MTLV*	1" FEMALE X ¾" MALE NPT MICRO VALVE	300	1"	15/32"	10

PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	LOT QTY
LVHB038050MTV	⅜" HOSE BARB X ½" MALE NPT MICRO VALVE	300	½"	⅜"	10
LVHB075MTV	¾" HOSE BARB X ¾" MALE NPT MICRO VALVE	300	¾"	½"	10
LVHB075100MTV	¾" HOSE BARB X 1" MALE NPT MICRO VALVE	300	1"	15/32"	10
LVHB075100MTLV	¾" HOSE BARB X 1" MALE NPT LOCKING MICRO VALVE	300	1"	15/32"	10

MICRO VALVES					
PART NO	DESCRIPTION	MAX PSI	THREAD SIZE	OPENING THRU BALL	LOT QTY
LVPL025V	¼" FEMALE PUSH LOCK MICRO VALVE	300	¼"	⅜"	10
LVPL038V	⅜" FEMALE PUSH LOCK MICRO VALVE	150	⅜"	⅜"	10

½" - 2" 4 VÁLVULAS FERRADAS

FEATURES

- Selos FKM. • Polipropileno moldado de precisão é reforçado com fibra de vidro para maior resistência. • Bola auto-alinhada move-se livremente

Contra os assentos do PTFE e para a operação lisa. A válvula abre e fecha com muito pouca pressão sobre a alça. • A bola é girada em diamante, após a moldagem, para torná-la esféricamente perfeita, o que proporciona um contato preciso entre a bola e os assentos. • PTFE auto-lubrificantes haste buchas e assentos não pode ficar ou ligar. • Aço inoxidável parafusos.

KIT DE REPARAÇÃO INCLUI:

- Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do caule superior • Tronco o-ring



4 BOLTED VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU	LOT QTY	REPLACEMENT HANDLE	REPAIR KIT
V050	½" FULL PORT VALVE	300	½"	¾"	6	V10153A	N/A
V075	¾" FULL PORT VALVE	300	¾"	¾"	12	V10153A	N/A
V100	1" STANDARD PORT VALVE	225	1"	¾"	12	V10153A	N/A
V100FP	1" FULL PORT VALVE	300	1"	1"	12	V10153A	V10200
V125	1¼" STANDARD PORT VALVE	300	1¼"	1"	6	V10153A	V10200
V125FP	1¼" FULL PORT VALVE	225	1¼"	1½"	6	V20153	V20200
V150	1½" FULL PORT VALVE	225	1½"	1½"	6	V20153	V20200
V200	2" STANDARD PORT VALVE	225	2"	1½"	12	V20153	V20200

2" PORTO COMPLETO 4 ENCERRADO VÁLVULAS DE ESFERA

FEATURES

- Selos FKM • Parafusos de aço inoxidável • PTFE auto-lubrificante haste buchas e assentos não pode ficar ou ligar • Precisão moldado em fibra de vidro polipropileno reforçado • bola auto-alinhada move-se livremente contra os assentos PTFE para operação mais suave • Válvula abre e fecha com muito pouca pressão sobre o punho • Bola é diamante virou após a moldagem para torná-lo esféricamente perfeito, o que proporciona o contato preciso entre bola e Assentos



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

2"-4" 6 VÁLVULAS FERRADAS

FEATURES

- Selos FKM. • Polipropileno moldado de precisão é reforçado com fibra de vidro para resistência adicional. • Bola auto-alinhada move-se livremente contra os assentos de PTFE para bom funcionamento. A válvula abre e fecha com muito pouca pressão sobre a alça. • Bola é diamante virou, após a moldagem, para torná-lo esféricamente perfeito, o que proporciona o contato preciso entre bola e assentos. • PTFE auto-lubrificantes haste buchas e assentos não pode ficar ou ligar. • Aço inoxidável parafusos.



6 BOLTED VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT 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"	1	V25153	V40200

KIT DE REPARAÇÃO INCLUI:

- Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do caule superior • Tronco o-ring

2"

FEATURES

- 100% assentos PTFE • Selos FKM • Polipropileno com fibra de vidro • Design compacto exclusivo • Leve • Juntas apresentadas na página 74

KIT DE REPARAÇÃO INCLUI:

- Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do caule superior • Tronco o-ring



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

ACESSÓRIOS DE VÁLVULA

FEATURES

- 304 construção em aço inoxidável
- Instala sob o punho da válvula
- Vem completo com alça e dispositivo de bloqueio
- Cadeado não incluído



Acessórios da válvula			
PART NO	DESCRIPTION	FITS VALVES	LOT QTY
V10270	STRAIGHT MOUNTING BRACKET	V100FP, V125M, MV100CF	1 IX
V10271	90° MOUNTING BRACKET	V100FP, V125M, MV100CF	1 IX
VL20153	LOCKING DEVICE	V100FP, V125M, MV100CF	1 IX
V25270	STRAIGHT MOUNTING BRACKET	V125FP, V150, V200	10 IX
V25271	90° MOUNTING BRACKET	V125FP, V150, V200	10 IX
V10153138	1" X 1"		

ACESSÓRIOS DE VÁLVULA

FEATURES

- Hardware em aço inoxidável
- Fechaduras em posições abertas e fechadas
- Alça de bloqueio substitui alça padrão (vendida separadamente)
- Cadeado não incluído



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

2" VÁLVULAS DE ESFERA D E PORTO PADRÃO

FEATURES

- Parafusos de aço inoxidável
- Polipropileno reforçado com vidro
- Várias opções de design
- Design compacto patenteado exclusivo
- Leve
- Todos os selos PTFE



2" PADRÃO PORTO ESTUBBY VÁLVULAS							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	REPLACEMENT HANDLE	REPAIR KIT
VSF200	2" MALE ADAPTER X 2" FEMALE NPT	100	2"	1 1/2"	6	VS20152SH	VS20200
VSMT200	2" MALE NPT X 2" FEMALE NPT	100	2"	1 1/2"	6	VS20152SH	VS20200
VSFMT200	2" MALE ADAPTER X 2" MALE NPT	225	2"	1 1/2"	12	VS20152SH	VS20200
VSFHB200	2" MALE ADAPTER X 2" HOSE BARB	100	2"	1 1/2"	6	VS20152SH	VS20200

2" FP ESTUBBY VÁLVULA DE AÇO INOXIDÁVEL

FEATURES

- Selos PTFE, sem elastômeros
- A bola de alinhamento move-se livremente contra os assentos de PTFE para a operação lisa
- A válvula abre e fecha com muito pouca pressão sobre o punho
- PTFE auto-lubrificantes haste buchas e assentos não pode ficar ou ligar



2" FULL PORT STUBBY STAINLESS STEEL VALVE							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPLACEMENT HANDLE	REPAIR KIT
VSFMT220SS	2" FULL PORT STUBBY SS VALVE MALE THREAD X MALE ADAPTER	225	2"	2"	1	VSS20153	VSS25200

VALVES

2" PORTO COMPLETO ESTUBBY BA VÁLVULAS

FEATURES

- Parafusos de aço inoxidável
- 100% assentos bola PTFE
- Polipropileno reforçado com vidro
- Design compacto patenteado exclusivo
- Leve
- Selos do corpo FKM

KIT DE REPARAÇÃO INCLUI:

- Bola
- Junta do corpo
- Arruela de pressão
- Assentos de bola
- Bucha da haste superior
- Tronco original



VSMT204FP



VSF204FP



VS204FP



VSFMT204FP



VSFMT204HSFP

2" FULL PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	REPLACEMENT HANDLE	REPAIR KIT
VSMT204FP	2" MALE NPT X 2" FEMALE NPT	200	2"	2"	6	VS25153	VS25200
VSF204FP	2" MALE ADAPTER X 2" FEMALE NPT	100	2"	2"	6	VS25153	VS25200
VS204FP	2" FEMALE NPT X 2" FEMALE NPT	225	2"	2"	6	VS25153	VS25200
VSFMT204FP	2" MALE ADAPTER X 2" MALE NPT	150	2"	2"	6	VS25153	VS25200
VSFMT204HSFP	2" FP MALE ADAPTER X 2" MALE NPT W/ SS BALL, STEM & HANDLE	150	2"	2"	6	N/A	VSSH25200



VSF300

VSMT300

VSFMT300

3" STANDARD PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	REPLACEMENT HANDLE STRAIGHT	REPLACEMENT HANDLE SHORT	REPAIR KIT
VSF300	3" FEMALE NPT X 3" MALE ADAPTER	100	3"	2 1/2"	6/BOX	V25153	V25153SH	VS30200
VSMT300	3" FEMALE NPT X 3" MALE NPT	100	3"	2 1/2"	6/BOX	V25153	V25153SH	VS30200
VSFMT300	3" MALE NPT X 3" MALE ADAPTER	225	3"	2 1/2"	6/BOX	V25153	V25153SH	VS30200



VSFMT300FP

VSFMT300HSFP

3" FULL PORT STUBBY VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT 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	N/A

3" STANDARD PORTO STUBBY BALL VALVES

FEATURES

- Stainless steel parafusos
- Glass reinforced Polipropileno ed
- FKM body seals
- Unique patented compacto design
- Lightweight
- All PTFE seats
- Note: If repair Kits não listados, components available.

3" FULL PORT ESFERA DE ESTUBBY VALVES

FEATURES

- Stainless steel parafusos
- Glass reinforced Polipropileno ed
- FKM body seals
- Unique patented compacto design
- Lightweight
- All PTFE balls
- Note: If repair Kits não listados, components available.

VÁLVULAS DE ESFERA DE CARGA DE 3 MANEIRA

FEATURES

- Parafusos de aço inoxidável
- Precisão moldada em polipropileno reforçado com fibra de vidro para força adicional
- Bola auto-alinhada move-se livremente e contra os assentos de PTFE para operação suave
- Bola é diamante virou após a moldagem para torná-lo esféricamente perfeito
- Que fornece contato preciso entre bola e assentos
- PTFE auto-lubrificante haste buchas e assentos
- FKM corpo selos
- fluxo direcional, direita ou esquerda. A válvula pode ser desligada para parar o fluxo



3 WAY BOTTOM LOAD VALVES								
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
V075BL	3/4" 3-WAY BOTTOM LOAD VALVE	200	3/4"	1"	6	T	V10353TB	N/A
V100BL	1" FP 3-WAY BOTTOM LOAD VALVE	225	1"	1"	6	T	V10353TB	N/A
V125BL	1 1/4" 3-WAY BOTTOM LOAD VALVE	300	1 1/4"	1 1/2"	6	T	V20353TB	N/A
V150BL	1 1/2" FP 3-WAY BOTTOM LOAD VALVE	225	1 1/2"	1 1/2"	6	T	V20353TB	N/A
V200BL	2" FP 3-WAY BOTTOM LOAD VALVE	200	2"	2"	8/BOX	STRAIGHT	V25353B	V25200BL

CARGA LATERAL DE 3 MANEIRA VÁLVULAS DE ESFERA

FEATURES

- Parafusos de aço inoxidável
- Precisão moldada em polipropileno reforçado com fibra de vidro para força adicional
- Bola auto-alinhada move-se livremente e contra os assentos de PTFE para operação suave
- Bola é diamante virou após a moldagem para torná-lo esféricamente perfeito
- Que fornece contato preciso entre bola e assentos
- PTFE auto-lubrificante haste buchas e assentos
- FKM corpo selos
- fluxo direcional, direita ou esquerda. A válvula não pode ser desligada para parar o fluxo



3 WAY SIDE LOAD VALVES								
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
V075SL	3/4" 3-WAY SIDE LOAD VALVE	200	3/4"	1"	6	STRAIGHT	V10153A	N/A
V100SL	1" FP 3-WAY SIDE LOAD VALVE	200	1"	1"	6	STRAIGHT	V10153A	N/A
V125SL	1 1/4" 3-WAY SIDE LOAD VALVE	300	1 1/4"	1 1/2"	6	T	V20353TS	N/A
V150SL	1 1/2" FP 3-WAY SIDE LOAD VALVE	225	1 1/2"	1 1/2"	6	T	V20353TS	N/A
V200SL	2" FP 3-WAY SIDE LOAD VALVE	225	2"	2"	8/BOX	STRAIGHT	V25153SH	V25200BL

VÁLVULAS DE BOLO 1 1/2" - 2"

FEATURES

- Leve válvula final mangueira para a transferência conveniente de líquidos em tambores, tanques etc
- Flange final angular com 8" polipropileno longo encaixe bico
- Todos os parafusos de aço inoxidável



VÁLVULAS DE BOLO 1 1/2" - 2"										
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	FEMALE NPT	LOT QTY	REPLACEMENT HANDLE	REPLACEMENT NOZZLE	REPAIR KIT	
VA150	1 1/2" NOZZLE VALVE WITH 90° ELBOW	225	1 1/2" x 8"	1 1/2"	1 1/2"	6	V20152	V20166	V20200	
VA200	2" NOZZLE VALVE WITH 90° ELBOW	200	2" x 8"	1 1/2"	2"	6	V20152	V25156	V20200	
VA200/150	2" FEMALE NPT X 1 1/2" NOZZLE	200		1 1/2"	1 1/2"	1	V20152	V25156	V20200	
VA200FP	2" FP NOZZLE VALVE WITH 90° ELBOW	225	2" x 8"	2"	2"	6/BOX	V25152	V25156	V25200	

1" BARÓIS DE DISPENSÃO

FEATURES

- Polipropileno reforçado com vidro
- 304 punho em aço inoxidável
- mola e pino
- apenas peças de borracha FKM
- Resiste à corrosão



1" DISPENSING NOZZLE					
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	QTY	REPAIR KIT
VN100	1" DISPENSING NOZZLE	150	1"	1	VN10200
V10161	1" NOZZLE PIPE FOR USE WITH V100, V100FP, UV100FP, SUV100FP	150	1"	1	N/A

VALVES

½" - 2" UNIÃO ÚNICA VÁLVULAS DE SPINWELD

FEATURES

- Precisão moldada em polipropileno reforçado com vidro para a resistência e resistência química
- Assentos PTFE para características de vedação suave e adequada
- EPDM O-rings para lidar com a maioria dos fertilizantes e muitos Chemicals
- Duplo O-rings na área da haste para proteção extra de vedação
- Corpo de bloqueio e placa final para permitir fácil conexão rosca ao instalar válvulas
- Peças de reposição não disponíveis



SUV125FP

MSUV100FP

½"-2" SINGLE UNION SPINWELD VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY
SUV050FP	½" FULL PORT SINGLE UNION SPINWELD VALVE	300	½"	½"	10
SUV075FP	¾" FULL PORT SINGLE UNION SPINWELD VALVE	300	¾"	¾"	10
SUV100FP	1" FULL PORT SINGLE UNION SPINWELD VALVE	300	1"	1"	10
SUV125FP	1¼" FULL PORT SINGLE UNION SPINWELD VALVE	300	1¼"	1¼"	10
SUV150FP	1½" FULL PORT SINGLE UNION SPINWELD VALVE	300	1½"	1½"	10
SUV200FP	2" FULL PORT SINGLE UNION SPINWELD VALVE	200	2"	2"	10
MSUV100FP	1" MANIFOLD FULL PORT SINGLE UNION SPINWELD VALVE	300	1"	1"	10

½" - 2" VÁLVULAS DE UNIÃO ÚNICA

FEATURES

- Precisão moldada em polipropileno reforçado com vidro para a resistência e resistência química
- Assentos PTFE para características de vedação suave e adequada
- Duplo O-rings na área da haste para proteção extra de vedação
- Bloqueio corpo e placa final para permitir fácil conexão de rosca ao instalar válvulas
- Peças de reposição não disponíveis-capaz



½"-2" SINGLE UNION VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY
UV050FP	½" FULL PORT SINGLE UNION VALVE	300	½"	¾"	10
UV075FP	¾" FULL PORT SINGLE UNION VALVE	300	¾"	¾"	10
UV100FP	1" FULL PORT SINGLE UNION VALVE	300	1"	1"	10
UV125FP	1¼" FULL PORT SINGLE UNION VALVE	225	1¼"	1¼"	10
UV150FP	1½" FULL PORT SINGLE UNION VALVE	200	1½"	1½"	10
UV200FP	2" FULL PORT SINGLE UNION VALVE	300	2"	2"	10



½"-3" CHECK VALVES

PART NO	DESCRIPTION	CRACKING PRESSURE PSI	MAX PSI	PIPE SIZE	LOT QTY
CV050	½" CHECK VALVE	6-7	300	½"	10
CV100	1" CHECK VALVE	1	300	1"	10
CV100MT	1" MALE X FEMALE NPT CHECK VALVE	1	300	1"	10
CV100V	1" FEMALE X FEMALE NPT CHECK	1	300	1"	1
CV221	2" FULL PORT CHECK VALVE	>0.5	300	2"	10
CV300	3" FULL PORT CHECK VALVE	1.5	300	3"	1
CV301	3" FULL PORT CHECK VALVE	>0.5	300	3"	1



¼"-3" STAINLESS STEEL FULL PORT VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	REPAIR KIT	REPLACEMENT HANDLE
VSS025	¼" SS FULL PORT VALVE	1000	¼"	¼"	1	VSS02500	VSS05153
VSS038	⅜" SS FULL PORT VALVE	1000	⅜"	⅜"	1	VSS02500	VSS05153
VSS050	½" SS FULL PORT VALVE	1000	½"	½"	1	VSS05200	VSS05153
VSS075	¾" SS FULL PORT VALVE	1000	¾"	¾"	1	VSS07200	VSS07153
VSS100	1" SS FULL PORT VALVE	1000	1"	1"	1	VSS10200	VSS10153
VSS150	1½" SS FULL PORT VALVE	1000	1½"	1½"	1	VSS15200	N/A
VSS200	2" SS FULL PORT VALVE	1000	2"	2"	1	VSS25200	VSS20153
VSS300	3" SS FULL PORT VALVE	1000	3"	3"	1	VSS35200	N/A



¾"-1" PINCH VALVES

PART NO	DESCRIPTION	GASKET	MAX PSI	PIPE SIZE	PRESSURE DIFFERENTIAL	LOT QTY
PV075	¾" X ¾" PINCH VALVE	EPDM	300	¾"	15 TO 20 PSI	10
PV100	1" X 1" PINCH VALVE	EPDM	300	1"	15 TO 20 PSI	1
PV100-075	1" X ¾" PINCH VALVE	EPDM	300	1" X ¾"	15 TO 20 PSI	10
PV100-075V	1" X ¾" PINCH VALVE	FKM	300	1" X ¾"	15 TO 20 PSI	1
PV10265	BLADDER FOR PINCH VALVE	EPDM	N/A	N/A	N/A	1
PV10265V	BLADDER FOR PINCH VALVE	FKM	N/A	N/A	N/A	1

½" - 3" VERIFICAR VÁLVULA

FEATURES

- Construção única
- Polipropileno reforçado com vidro
- 316 molas em aço inoxidável
- Junta EPDM

¼" - 3" VÁLVULAS COM PLETAS DE PORTO DE AÇO INOXIDÁVEL

- 316 aço inoxidável
- Soprano para fora haste prova
- Todas as válvulas 100% testado por ar, debaixo de água em 100 PSI em posições abertas e fechadas
- Trava de bloqueio alça executa em posições abertas e fechadas
- Almotofada de montagem
- Selos e assentos PTFE

VÁLVULAS DE ROSA ¾" - 1"

- Posição aberta permite fluxo desobstruído total de 50-60 GPM
- Pressão do ar colapsa a manômetro de borracha interna para fornecer desligamento positivo
- Padrão EPDM vedação da bexiga de borracha e FKM disponível
- Fêmea NPT tópicos
- ATENÇÃO: normalmente uma válvula aberta e tem uma pressão máxima do líquido de 70 PSI. Pressão diferencial = pressão que leva para fechar válvula



SMALLER

• • EVX 2" porta cheia e 3" modelos são mais de 35% menor do que a válvula competitiva média. Os modelos de 1 1/2", 2" full port e 3" também são substancialmente mais leves que a válvula competitiva média.

SMARTER

• • EVX oferece muitas opções de protocolo para suas necessidades: On/Off Regulando Regulando com feedback linear CAN/ISO BUS Controle proporcional

• • Opções de diagnóstico para CANBUS Tensão Temperatura Ciclo Contagem

TOUGHER

• Definindo o novo padrão para a tenacidade da válvula elétrica, o EVX passa por 52 testes de durabilidade separados, incluindo o choque mecânico, vibração, temperatura extrema, chuva/brilho, pressão operacional e testes rigorosos de longevidade.



SMALLER / SMARTER / TOUGHER

SÉRIE EVX 3/4" - 1 1/2"

FEATURES

• • 12 volts DC operado • 24 volts disponíveis • Indicador aberto/fechado • 3/4" - 1 1/4" LIGADO/DESLIGADO tem 3/4 seg resposta • 1 1/2" LIGADO/DESLIGADO tem 1 1/2 seg resposta • Regulando tem 4 seg resposta • Abrir/Fechar fios de verificação disponíveis • IP68 impermeável • -0 a 150F (-18 a 65 C) operacional • -67 à 221F (-55 a 105C) Armazenamento • On/Off Atuador avaliado para 500.000 ciclos • Regulador atuador avaliado para 250.000 ciclos • Válvula avaliada para 50.000 ciclos sem vazamentos • Válvulas aparafusadas têm as mesmas dimensões exatas como nossas válvulas EV legado. • Protocolos adicionais disponíveis incluindo CAN/ISO BUS



3/4" - 1 1/2" EVX ON/OFF BOLTED ELECTRIC VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
EVX071	3/4" FULL PORT ELECTRIC VALVE	300	3/4"	1"	1	VP20153SH	EVX10200
EVX101	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
EVX121	1 1/4" STANDARD PORT ELECTRIC VALVE	300	1 1/4"	1"	1	VP20153SH	EVX10200
EVX151	1 1/2" FULL PORT ELECTRIC VALVE	250	1 1/2"	1 1/2"	1	VP20153SH	EVX20200

3/4" - 1 1/2" EVX REGULATING BOLTED ELECTRIC VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
EVXR071	3/4" FULL PORT ELECTRIC VALVE	300	3/4"	1"	1	VP20153SH	EVX10200
EVXR101	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
EVXR151	1 1/2" FULL PORT ELECTRIC VALVE	250	1 1/2"	1 1/2"	1	VP20153SH	EVX20200

MATERIAIS

• • 316 aço inoxidável ball & stem • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • assentos PTFE • FKM stem selos

LIGAR/DESLIGAR

• • Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

• • Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)

2 "EVX SERIES

FEATURES

- • 12 volts DC operado • 24 volts disponível • Indicador aberto/fechado • ON/OFF tem 1 ½ segunda resposta • Regulando tem 4 segunda resposta • Abrir/Fechar fios de verificação disponíveis • IP 68 impermeável • -0 para 150F (-18 do 65C) operacional • -67 à 221 F (-55 a 105C) Storage • On/Off Atuador avaliado para 500.000 ciclos • Regulador Atuador avaliado para 250.000 ciclos • Válvula avaliada para 50.000 ciclos sem vazamentos • Válvulas aparafusadas têm as mesmas dimensões exatas que nossas válvulas EV legadas. • Protocolos adicionais disponíveis, incluindo CAN/ISO BUS

MATERIAIS

- • 316 aço inoxidável ball & stem • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • assentos PTFE • FKM stem selos

LIGAR/DESLIGAR

- • Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

- • Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)



2" EVX ON/OFF BOLTED ELECTRIC VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
EVX201	2" STANDARD PORT ELECTRIC VALVE	250	2"	1½"	1	VP20153	EVX20200
EVX221	2" FULL PORT ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

2" EVX REGULATING BOLTED ELECTRIC VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
EVXR201	2" STANDARD PORT ELECTRIC VALVE	250	2"	1½"	1	VP20153	EVX20200
EVXR221	2" FULL PORT ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

3 "EVX SERIES

FEATURES

- • 12 volts DC operado • 24 volts disponível • Indicador aberto/fechado • ON/OFF tem 4 segunda resposta • Regulando tem 4 segunda resposta • Aberto/Fechar verificação disponível • IP68 impermeável • -0 a 150F (-18 a 65C) operacional • -67 a 221F (-55 a 105C) armazenamento • Atuador avaliado em 250.000 ciclos • Válvula avaliada em 50.000 ciclos sem vazamentos • Protocolos adicionais disponíveis incluindo CAN/ISO BUS



3" EVX ON/OFF ELECTRIC VALVES						
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT
EVX300	3" FULL PORT ELECTRIC VALVE	125	3"	3"	1	VP30153

3" EVX REGULATING ELECTRIC VALVES						
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT
EVXR300	3" FULL PORT ELECTRIC VALVE	125	3"	3"	1	VP30153

MATERIAIS

- • 316 aço inoxidável ball & stem • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • Zinco liga inferior atuador habitação • PTFE assentos • FKM haste selos

LIGAR/DESLIGAR

- • Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

- • Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)

¾ - 2 EVX SÉRIE INFERIOR & VÁLVULAS DE CARGA LATERAL

FEATURES

- 12 volts DC operado • 24 volts disponível • Indicador aberto/fechado • 1" & 1 ¼" ON/OFF tem ¾ segunda resposta • 1 ½" & 2" ON/OFF tem 1 ½" segunda resposta
- Aberto/fechar verificação disponível • IP68 impermeável • -0 a 150F (-18 a 65C) operacional • -67 a 221F (-55 a 105C) armazenamento • Atuador ligado/desligado avaliado para 500.000 ciclos • Válvula avaliado para 50.000 ciclos sem vazamentos • Essas válvulas a parafusadas têm exatamente as mesmas dimensões que nossas válvulas EV legadas • Protocolos adicionais disponíveis, incluindo CAN/ISO BUS



MATERIAIS

- 316 aço inoxidável ball & stem • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • assentos PTFE • FKM stem selos

LIGAR/DESLIGAR

- Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

- Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)

¾"-2" EVX BOLTED BOTTOM LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
EVX075BL	¾" FULL PORT BOTTOM LOAD ELECTRIC VALVE	300	¾"	1"	1	VP20153SH	EVX10200
EVX100BL	1" FULL PORT BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
EVX125BL	1¼" FULL PORT SIDE LOAD ELECTRIC VALVE	250	1¼"	1"	1	VP20153SH	EVX10200
EVX150BL	1½" FULL PORT SIDE LOAD ELECTRIC VALVE	250	1½"	1½"	1	VP20153SH	EVX20200
EVX200BL	2" STANDARD PORT BOTTOM LOAD ELECTRIC VALVE	250	2"	1½"	1	VP20153	EVX20200
EVX220BL	2" FULL PORT BOTTOM LOAD ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

VÁLVULAS ELÉTRICAS DE CARGA LATERAL FERRADAS ¾ "-2" EVX

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
EVX075SL	¾" FULL PORT SIDE LOAD ELECTRIC VALVE	300	¾"	1"	1	VP20153SH	EVX10200
EVX100SL	1" FULL PORT SIDE LOAD ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
EVX125SL	1¼" FULL PORT SIDE LOAD ELECTRIC VALVE	250	1¼"	1"	1	VP20153SH	EVX10200
EVX150SL	1½" FULL PORT SIDE LOAD ELECTRIC VALVE	250	1½"	1½"	1	VP20153SH	EVX20200
EVX200SL	2" STANDARD PORT SIDE LOAD ELECTRIC VALVE	250	2"	1½"	1	VP20153	EVX20200
EVX220SL	2" FULL PORT SIDE LOAD ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

" - ½" SÉRIE LEV

FEATURES

- 12 Volt DC • Estacionária sorteio atual: menos de 0.04 ampères • Rotação atual sorteio: menos de 0.40 ampères • Stall atual: 0.75 ampères • Tempo de resposta: 1/3 segundo aberto para fechar • assentos TFM • Selos EPDM • Polipropileno reforçado com fibra de vidro • Slot de montagem 1/2" integrado • Configuração padrão com 3 fios



¾"-½" ON/OFF ELECTRIC VALVES

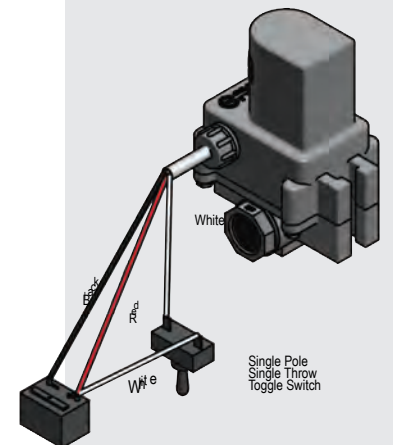
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
LEV038	¾" FULL PORT ELECTRIC VALVE	300	¾"	¾"	1
LEV050	½" ELECTRIC VALVE	300	½"	15/32"	1



LEV038PL

¾" ELECTRIC VALVES W/ PUSH LOCK

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
LEV038PL	¾" FULL PORT ELECTRIC VALVE W/ PUSH LOCK	150	¾"	¾"	1



Battery (12 VDC)



FEATURES

- Impermeável, classifica do NEMA 6P e IP68M
- Diagnóstico do dispositivo LED e m EH8 e EH9
- Durável, vidro cheio de nylon carcaça
- Ignição segura, classificado NEMA 7D
- 316 haste de aço inoxidável com EPDM O-rings e embalagem PTFE
- Conxall, weatherPak e Deutsch conexões disponíveis
- CF8M aço inoxidável corpo da válvula



KZVALVE CONXALL LIGAÇÃO ELÉTRICA CONJUNTA PARA FIT SISTEMAS DE CORVO

PART NO	DESCRIPTION	SIZE	CONTROL TYPE	FEEDBACK	CYCLE TIME	CV	QTY
KZ-67D331AE9SC01	1/2" STANDARD PORT NH3 ELECTRIC VALVE, EH9	1/2"	ON/OFF	(+) @ OPEN	0.7 SEC	15	5
KZ-S8F331AE9SC01	1" FULL PORT NH3 ELECTRIC VALVE, EH9	1"	ON/OFF	(+) @ OPEN	0.7 SEC	68	5
KZ-S8F3320E8SC01	1" FULL PORT NH3 ELECTRIC VALVE, EH9	1"	FAST RATE	N/A	3.0 SEC	68	5
KZ-S8F22K0HU0CF1	1" FULL PORT NH3 ELECTRIC VALVE, EH2	1"	STANDARD RATE	N/A	8.0 SEC	68	5
KZ-67G2210DY0CF1	1 1/4" STANDARD PORT NH3 ELECTRIC VALVE, EH2	1 1/4"	ON/OFF	N/A	1.5 SEC	48	5
KZ-67G2220DY0CF1	1 1/4" STANDARD PORT NH3 ELECTRIC VALVE, EH2	1 1/4"	FAST RATE	N/A	1.5 SEC	48	5
KZ-67G22K0HU0CF1	1 1/4" STANDARD PORT NH3 ELECTRIC VALVE, EH2	1 1/4"	STANDARD RATE	N/A	8.0 SEC	48	5
KZ-67H2210DY0CF1	1 1/2" STANDARD PORT NH3 ELECTRIC VALVE, EH2	1 1/2"	ON/OFF	N/A	1.5 SEC	84	5
KZ-67H2220DY0CF1	1 1/2" STANDARD PORT NH3 ELECTRIC VALVE, EH2	1 1/2"	FAST RATE	N/A	1.5 SEC	84	5
KZ-67H22K0HU0CF1	1 1/2" STANDARD PORT NH3 ELECTRIC VALVE, EH2	1 1/2"	STANDARD RATE	N/A	8.0 SEC	84	5

RECEPTÁCULO OU LIGAÇÃO ELÉTRICA INTEGRADA DE DEUTSCH KZVALVE

PART NO	DESCRIPTION	SIZE	CONTROL TYPE	FEEDBACK	CYCLE TIME	CV	QTY
KZ-S8B281CEBSD01	1/4" STANDARD PORT NH3 ELECTRIC VALVE, EH8	1/4"	ON/OFF	(+) @ CLOSED	0.2 SEC	3.5	5
KZ-S8C281CEBSD01	3/8" STANDARD PORT NH3 ELECTRIC VALVE, EH8	3/8"	ON/OFF	(+) @ CLOSED	0.2 SEC	5.2	5
KZ-67D331CE9SD01	1/2" FULL PORT NH3 ELECTRIC VALVE, EH9	1/2"	ON/OFF	(+) @ CLOSED	0.7 SEC	15	5
KZ-S8F331CE9SD01	1" FULL PORT NH3 ELECTRIC VALVE, EH9	1"	ON/OFF	(+) @ CLOSED	0.7 SEC	68	5

KZVALVE HARDWARE RETROFIT KITS

PART NO	DESCRIPTION	SIZE	CONTROL TYPE	QTY
KZ-KRKIT	RETROFIT KIT FOR 1 & 1 1/4" RAVEN VALVES	1 & 1 1/4"	HARDWARE ONLY	5
KZ-KR15KIT	RETROFIT KIT FOR 1 1/2" RAVEN VALVES	1 1/2"	HARDWARE ONLY	5

KZVALVE ACTUATOR OPTIONS

PART NO	DESCRIPTION	CONTROL TYPE	FEEDBACK	CYCLE TIME	QTY
KZ-1AE9SC01	NH3 ACTUATOR, EH9	ON/OFF	N/A	0.7 SEC	5
KZ-10DY0CF1	NH3 ACTUATOR, EH9	ON/OFF	N/A	1.5 SEC	5
KZ-K0HU0CF1	NH3 ACTUATOR, EH2	STANDARD RATE	N/A	8.0 SEC	5
KZ-20E8SC01	NH3 ACTUATOR, EH9	FAST RATE	N/A	1.5 SEC	5
KZ-1CE9SD01	NH3 ACTUATOR, EH9	ON/OFF	N/A	0.7 SEC	5
KZ-20E7SD01	NH3 ACTUATOR, EH9	STANDARD RATE	N/A	3 SEC	5
KZ-20E8SD01	NH3 ACTUATOR, EH9	FAST RATE	N/A	1.7 SEC	5
KZ-20DY0CF1	NH3 ACTUATOR, EH2	FAST RATE	N/A	1.5 SEC	5



- Atuador KZValve EH2 Impermeável
- Conector Conxall para Sistema Raven
- Acoplador
- Suporte de montagem
- Fixadores
- Instruções de substituição simples
- Nota: Estes kits não incluem válvulas.



FEATURES

- Impermeável, classificado NEMA 6P e IP68M
- Diagnóstico do dispositivo LED
- Durável, vidro cheio de nylon carcaça
- Ignição segura, classificado NEMA 7D
- Baixa manutenção, projeto assento reversível
- Integrado Deutsch conexão receptáculo
- PVC bola
- PVC corpo da válvula



KZVALVE VALVES

PART NO	DESCRIPTION	SIZE	OUTLET	PSI @ 70	CV	QTY
KZ-95D33	1/2" VALVE KIT	1/2"	FNPT/SOCKET WELD	250	8.0	5
KZ-95E33	3/4" VALVE KIT	3/4"	FNPT/SOCKET WELD	250	16.0	5
KZ-95F33	1" VALVE KIT	1"	FNPT/SOCKET WELD	250	29.0	5
KZ-95H39	1 1/2" VALVE KIT	1 1/2"	FNPT/SOCKET WELD	125	90.0	5
KZ-95I39	2" VALVE KIT	2"	FNPT/SOCKET WELD	125	150.0	5

KZVALVE ACTUATED VALVES

PART NO	DESCRIPTION	SIZE	CONTROL TYPE	QTY
KZ-95D33-1CE9S-D0P	1 & 1/4" HARDWARE KIT FOR "KR" SERIES	1 & 1/4"	HARDWARE ONLY	5
KZ-95F33-1CE9S-D0P	1 1/2" HARDWARE KIT FOR "KR" SERIES	1 1/2"	HARDWARE ONLY	5

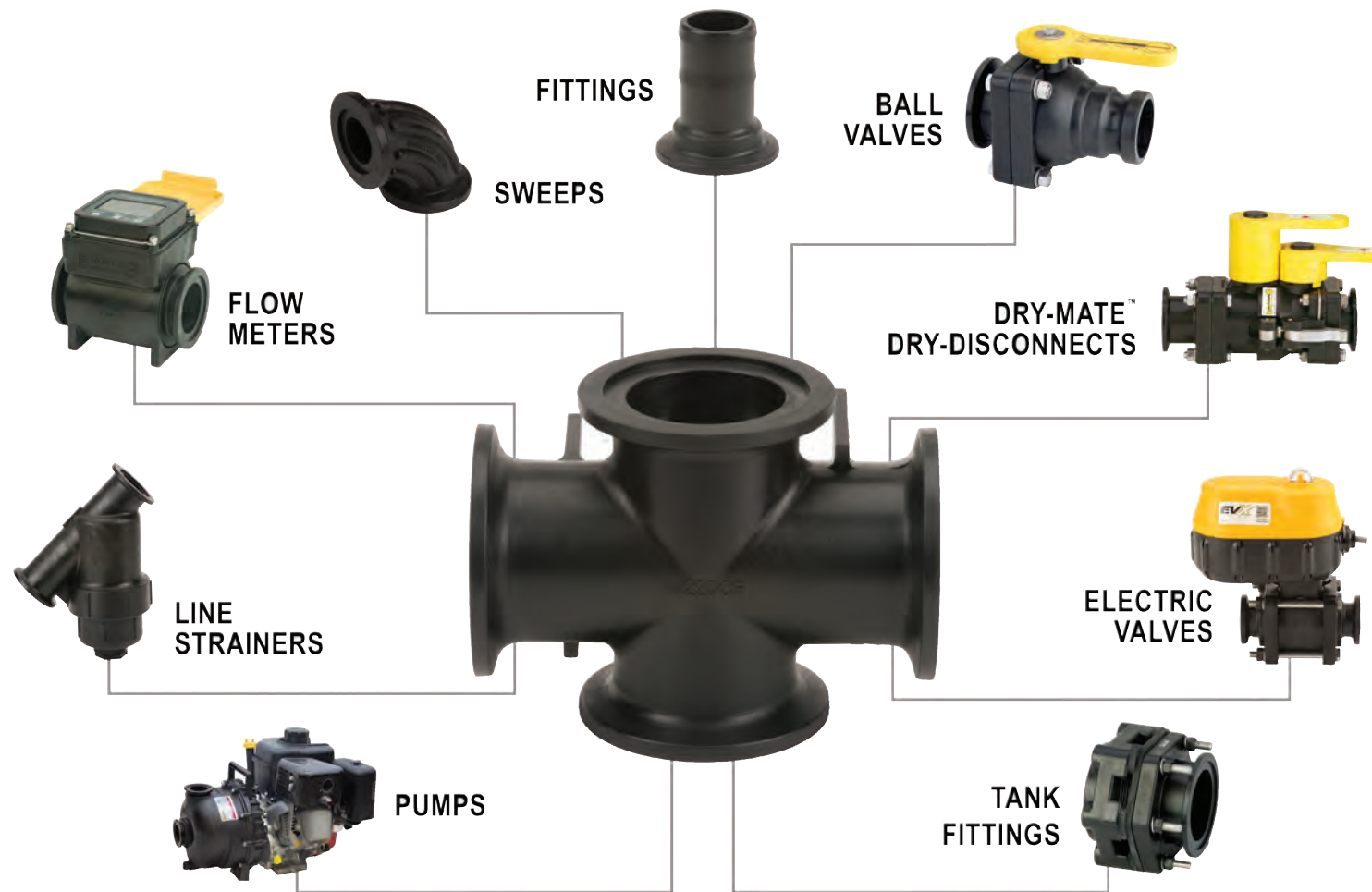
KZVALVE ACTUATOR ONLY

PART NO	DESCRIPTION	SIZE	CONTROL TYPE	CYCLE TIME	QTY
KZ-20E7S-D0P	EH9 ACTUATOR	N/A	POSITIONABLE	3.0 SEC	5
KZ-20E8S-D0P	EH9 ACTUATOR	N/A	POSITIONABLE	1.7 SEC	5
KZ-20E9S-D0P	EH9 ACTUATOR	N/A	POSITIONABLE	0.7 SEC	5
KZ-1CE7S-D0P	EH9 ACTUATOR	N/A	ON/OFF	3.0 SEC	5
KZ-1CE8S-D0P	EH9 ACTUATOR	N/A	ON/OFF	1.37 SEC	5
KZ-1CE9S-D0P	EH9 ACTUATOR	N/A	ON/OFF	0.7 SEC	5
KZ-L0E7S-D0P	EH9 ACTUATOR	N/A	CANBUS	3.0 SEC	5

Qualquer dúvida técnica sobre os produtos KZValve, ligue para (800) 288-1112 (pergunte para vendas)

NO THREADS. NO SWEAT.

LIGAÇÕES DE FLANGE PARA CADA PRODUTO



⚙️ PULAR A FITA E O SEALANTE
As conexões de flange utilizam grampos em vez de roscas, facilitando a montagem e desmontagem rápidas e fáceis, garantindo um sistema à prova de vazamentos. O tubo roscado precisa de fita ou selante, e a menor imperfeição no tubo ou vedação pode causar um vazamento. Com conexões de flange instaladas corretamente, você não se preocupará com vazamentos de conexão ou esperará a cura do selante.

⌚ SALVAR TEMPO. ECONOMIZE DINHEIRO
Tempo gasto unthreading sistemas e reparar vazamentos de conexões defeituosas é improdutivo e, finalmente, atinge o seu bolso. Os sistemas de flange múltiplos do Banjo fazem você voltar ao campo e sair da loja em pouco tempo.

🔧 OBTENHA DIREITO À FONTE
Com as conexões de flange do coletor Banjo, os dias de passar horas desconectando sistemas inteiros de válvulas e conexões terminaram. Você pode isolar e substituir diretamente a parte problemática ou as seções replumbadas sem desmontar todo o sistema.

1 "SÉRIE MEVX

FEATURES

- 12 volts DC operado • 24 volts disponível
- Indicador aberto/fechado
- ON/OFF tem 3/4 segunda resposta
- Regulando tem 4 segundos resposta
- Abrir/Fechar verificação disponível
- IP68 impermeável
- -0 a 150F (-18 do 65C) operacional
- -67 à 221F (-55 a 105C) Armazenamento
- On/Off Atuador avaliado para 500.000 ciclos
- Regulador Atuador avaliado para 250.000 ciclos
- Válvula avaliado para 50.000 ciclos sem vazamentos
- Válvulas aparafusadas têm as mesmas dimensões exatas que nos nas válvulas EV legadas.
- Protocolos adicionais disponíveis incluindo CAN/ISO BUS



1" MEVX ON/OFF WELDED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT
MEVX100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1	VP20153SH

1" MEVX REGULATING WELDED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT
MEVXR100	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1	VP20153SH

1 "MEVX ON/OFF VÁLVULAS ELÉTRICAS FOLTADAS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
MEVX101	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200

1" MEVX REGULATING BOLTED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
MEVXR101	1" FULL PORT ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200

MATERIAIS

- 316 aço inoxidável bola & haste
- Poly bola disponível em válvulas aparafusadas
- Aço inoxidável hardware
- Fibra de vidro polipropileno reforçado
- PTFE assentos
- FKM stem selos

LIGAR/DESLIGAR

- Vermelho = +12V DC
- Preto = Chão
- Branco = +12VDC (Aberto)
- 0V DC (Fechar)

REGULAMENTO DE FIO 4

- Vermelho = +12V DC (Aberto)
- Branco = Chão (Aberto)
- Preto = +12V DC (Fechar)
- Verde = Chão (Fechar)

FEATURES

- 12 volts DC operado • 24 volts disponível • Indicador aberto/fechado • ON/OFF tem 1 ½ segunda resposta • Regulando tem 4 segunda resposta • Abrir/Fechar verificação disponível • IP68 impermeável • -0 a 150F (-18 do 65C) operacional • -67 à 221F (-55 a 105 C) Storage • On/Off Atuador avaliado para 500.000 ciclos • Regulador Atuador avaliado para 250.000 ciclos • Válvula avaliado para 500.000 ciclos sem vazamentos • Válvulas aparafusadas têm as mesmas dimensões exatas que nossas válvulas EV legadas. • Protocolos adicionais disponíveis, incluindo CAN/ISO BUS

MATERIAIS

- 316 aço inoxidável bola & haste • Poly bola disponível em aparafusado padrão porta válvulas • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • PTFE assentos • FKM haste selos

LIGAR/DESLIGAR

- Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

- Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)



2" MEVX ON/OFF WELDED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT
MEVX200	2" STANDARD PORT ELECTRIC VALVE	300	2"	1½"	1	VP20153
MEVX220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1	VP20153

2" MEVX REGULATING WELDED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT
MEVXR200	2" STANDARD PORT ELECTRIC VALVE	250	2"	1½"	1	VP20153
MEVXR220	2" FULL PORT ELECTRIC VALVE	250	2"	2"	1	VP20153

2" VÁLVULAS ELÉTRICAS DE LIGAR/DESLIGAR MEVX

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
MEVX201	2" STANDARD PORT ELECTRIC VALVE	250	2"	1½"	1	VP20153	EVX20200
MEVX221	2" FULL PORT ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

FEATURES

- 12 volts DC operado • 24 volts disponível • Indicador aberto/fechado • ON/OFF 3" tem 4 segunda resposta • Regulando 3" tem 4 segunda resposta • Abrir/Fechar verificação disponível • IP68 à prova d'água • -0 a 150F (-18 a 65C) operacional • -67 a 221F (-55 a 105C) de armazenamento • Atuador avaliado a 250.000 ciclos • Válvula avaliada a 50.000 ciclos sem vazamentos • Protocolos adicionais disponíveis

Incluindo CAN/ISO BUS

MATERIAIS

- 316 aço inoxidável ball & stem • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • Zinco liga inferior atuador habitação • PTFE assentos • FKM stem selos

LIGAR/DESLIGAR

- Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

- Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)



3" MEVX ON/OFF ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX300	3" FULL PORT ELECTRIC VALVE	125	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	125	3"	3"	1

MANIFOLD FLANGE CONNECTIONS

1 - 3 Mevx série inferior & válvulas de carga laterais

FEATURES

- 12 volts DC operado • 24 volts disponível • Indicador aberto/fechado • ON/OFF 1" tem 3/4 segunda resposta • ON/OFF 2" tem 1 1/2 segunda resposta • ON/OFF 3" tem 4 segunda resposta • Verificação de abertura/fechamento disponível • IP68 impermeável • -0 a 150F (-18 a 65C) operacional • -67 a 221F (-55 a 105C) armazenamento • 1"-2" Atuador On/Off classificado para 500.000 ciclos • 3" Atuador On/Off & Regulador avaliado para 250.000 ciclos • Válvula classificada para 50.000 ciclos sem vazamentos • Protocolos adicionais disponíveis incluindo CAN/ISO BUS



1"-3" MEVX BOTTOM LOAD ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
MEVX100BL	1" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
MEVX200BL	2" STANDARD PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	250	2"	1 1/2"	1	VP20153	EVX20200
MEVX220BL	2" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200
MEVX300BL	3" FULL PORT MANIFOLD BOTTOM LOAD ELECTRIC VALVE	125	3"	3"	1	VP30153	EVX30200

VÁLVULAS ELÉTRICAS DE CARGA LATERAL MEVX 1 "-2"

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
MEVX100SL	1" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
MEVX200SL	2" STANDARD PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	250	2"	1 1/2"	1	VP20153	EVX20200
MEVX220SL	2" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

VÁLVULAS ELÉTRICAS REGULANTES DE CARGA LATERAL DE 1 "-2" MEVXR

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY	OPTIONAL HANDLE KIT	REPAIR KIT
MEVXR100SL	1" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	300	1"	1"	1	VP20153SH	EVX10200
MEVXR200SL	2" STANDARD PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	250	2"	1 1/2"	1	VP20153	EVX20200
MEVXR220SL	2" FULL PORT MANIFOLD SIDE LOAD ELECTRIC VALVE	125	2"	2"	1	VP20153	EVX25200

MATERIAIS

- 316 aço inoxidável bola & stem • Aço inoxidável hardware • Fibra de vidro polipropileno reforçado • Zinco liga inferior atuador carcaça (3" apenas) • assentos PTFE • FKM stem selos

LIGAR/DESLIGAR

- Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

REGULAMENTO DE FIO 4

- Vermelho = +12V DC (Aberto) • Branco = Chão (Aberto) • Preto = +12V DC (Fechar) • Verde = Chão (Fechar)

MANIFOLD FLANGE CONNECTIONS



MEVX ON/OFF WELDED BANKED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX102	1" FULL PORT 2 BANK ELECTRIC VALVE	300	1"	1"	1
MEVX103	1" FULL PORT 3 BANK ELECTRIC VALVE	300	1"	1"	1

MEVX ON/OFF BOLTED BANKED ELECTRIC VALVES

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
MEVX1012	1" FULL PORT 2 BANK ELECTRIC VALVE	300	1"	1"	1
MEVX1013	1" FULL PORT 3 BANK ELECTRIC VALVE	300	1"	1"	1
MEVX1014	1" FULL PORT 4 BANK ELECTRIC VALVE	300	1"	1"	1
MEVX2013	2" STANDARD PORT ELECTRIC VALVE	300	2"	2"	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
MLEV100C	1" MANIFOLD ELECTRIC VALVE WITH HIGHER TORQUE MOTOR, SS BALL, 3 WIRE	300	1"	1/2"	1

VÁLVULAS BANCADAS MEVX

FEATURES

- Tamanhos de válvulas 1" a 2" SP • Número de válvulas de dois a cinco bancos • Válvulas soldadas ou aparafusadas disponíveis • Válvulas aparafusadas têm as mesmas dimensões exatas que o nosso legado

Válvulas EV • Protocolos adicionais disponíveis incluindo CAN/ISO BUS

1" MANIFOLD ELÉTRICO LEV VÁLVULA

CARACTERÍSTICAS

- Assentos TFM & selos EPDM • 12 volts DC operado • Internamente fundido/reset automático • Estacionária sorteio atual: menos de 0,04 amps • Rotativa sorteio atual: menos de 0,40 amps • Stall atual: 0.75 amps • 1/3 segundo tempo de resposta • Enthalte de montagem integrado • 3 configuração do fio • Torque maior motor para alimentar líquidos espessos e aplicações exigentes. (MLEV100A) • A haste de nylon reforçada mais do que triplicou a resistência do LEV padrão de 1" (MLEV100A)

LIGAR/DESLIGAR

- Vermelho = +12V DC • Preto = Chão • Branco = +12VDC (Aberto) 0V DC (Fechar)

1" - 3" 4 e 6 VÁLVULAS FERRADAS

FEATURES

- Selos FKM. • Polipropileno moldado de precisão é reforçado com fibra de vidro para força adicional. • Bola auto-alinhada move-se livremente contra os assentos PTFE para bom funcionamento. • A válvula abre e fecha com muito pouca pressão sobre a alça. • Bola é diamante virou, após a moldagem, para torná-lo esféricamente perfeito, que fornece contato preciso entre bola e assentos. • PTFE auto-lubrificantes buchas da haste e assentos não pode ficar o u ligar. • Parafusos de aço inoxidável

KIT DE REPARAÇÃO INCLUI:

- Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do caule superior • Tronco o-ring



MANIFOLD 4 & 6 BOLTED VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	REPLACEMENT HANDLE	REPAIR KIT
MV100CF	1" FULL PORT MANIFOLD VALVE	300	1"	1"	12	V10153A	V10200
MV200CF	2" STANDARD PORT MANIFOLD VALVE	225	2"	1½"	12/BOX	V20200	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

2" VÁLVULA DE 5 MANEIRA FERRADA

CARACTERÍSTICAS

- Selos FKM • Polipropileno moldado de precisão é reforçado com fibra de vidro para força adicional. • Bola auto-alinhada move-se livremente contra os assentos PTFE para bom funcionamento. • A válvula abre e fecha com muito pouca pressão sobre o punho. • Bola é diamante virou, após a moldagem, para torná-lo esféricamente perfeito, que fornece o contato preciso entre a bola e os assentos. • PTFE auto-lubrificante haste e buchas e assentos não pode ficar o u ligar. • Parafusos de aço inoxidável



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

2" VÁLVULAS DE ESTUBO

FEATURES

- Precisão polipropileno moldado é reforçado com fibra de vidro para a força adicional. • Bola auto-alinhada move-se livremente e contra os assentos PTFE para o bom funcionamento. • A válvula abre e fecha com muito pouca pressão na alça. • Bola é girada em diamante, após a moldagem, para torná-la esféricamente perfeita, o que proporciona contato preciso entre Bola e assentos. • PTFE auto-lubrificantes haste buchas e assentos não pode ficar ou ligar. • Parafusos de aço inoxidável. • Tamanho padrão da porta tem selos PTFE e Full Port tamanho tem selos FKM



2" MANIFOLD STUBBY VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	REPLACEMENT HANDLE	REPAIR KIT
VSMT200CF	2" STANDARD PORT MANIFOLD VALVE FLANGE X MALE NPT W/TFE SEALS	150	2"	1½"	6	VS20152SH	N/A
VSF200CF	2" STANDARD PORT MANIFOLD VALVE FLANGE X MALE ADAPTER W/TFE SEALS	100	2"	1½"	6	VS20152SH	N/A
MVS220FP	2" FULL PORT MANIFOLD VALVE FLANGE X FEMALE NPT W/FKM SEALS	300	2"	2"	6	VS25153	VS25200
MVSF220FP	2" FULL PORT MANIFOLD VALVE FLANGE X MALE ADAPTER W/FKM SEALS	150	2"	2"	9	VS25153	VS25200
MVS220CF	2" FULL PORT MANIFOLD VALVE FLANGE X FLANGE W/FKM SEALS	150	2"	2"	9	VS25153	VS25200
MVSMT220FP	2" FULL PORT MANIFOLD VALVE FLANGE X MALE NPT W/FKM SEALS	225	2"	2"	9	VS25153	VS25200

Nota: Kits de reparação N/A, componentes disponíveis.

FEATURES

- Selos FKM.
- Polipropileno moldado precisão é reforçada com fibra de vidro para a força adicional.
- bola auto-alinhando move-se livremente contra os assentos de PTFE para o bom funcionamento.
- A válvula abre e fecha com muito pouca pressão sobre a alça.
- A bola é girada em diamante, após a moldagem, para torná-la esféricamente perfeita, o que proporciona um contato preciso entre a bola e os assentos.
- PTFE auto-lubrificantes haste buchas e assentos não pode ficar ou ligar.
- Aço inoxidável parafusos.



3" MANIFOLD STUBBY VALVES							
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT 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"	4	V25153	VS30200
MVS300CF	3" STANDARD PORT MANIFOLD VALVE FLANGE X FLANGE	200	3"	2½"	6/BOX	V25153	VS30200
MVS300CFFP	3" FULL PORT MANIFOLD VALVE FLANGE X FLANGE	150	3"	3"	6/BOX	V25153	VS35200

FEATURES

- Polipropileno moldado precisão é reforçada com fibra de vidro para a força adicional.
- Bola auto-alinhada move-se livremente e contra os assentos PTFE para o bom funcionamento.
- A válvula abre e fecha com muito pouca pressão sobre o punho.
- Bola é diamante virou, após a moldagem, para torná-la esféricamente perfeita, que proporciona o contato preciso entre a bola e os assentos.
- Parafusos de aço inoxidável
- Design compacto
- Selos FKM



MVS300HSFP



MVSMT300HSFP

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
MVSMT300HSFP	3" FULL PORT MANIFOLD STUBBY VALVE MALE NPT X FLANGE WITH SS BALL, STEM & HANDLE	200	3"	3"	1		VS30153SS

MANIFOLD FLANGE CONNECTIONS

CARGA INFERIOR DE 3 MANEIRA VÁLVULAS DE ESFERA

FEATURES

- Parafusos de aço inoxidável
- Precisão moldada em polipropileno reforçado com fibra de vidro para força adicional
- Bola auto-alinhada move-se livremente e contra os assentos de PTFE para operação suave
- Bola é diamante virou após a moldagem para torná-lo esféricamente perfeito
- Que fornece o contato preciso entre bola e assentos
- PTFE auto-lubrificante haste buchas e assentos
- FKM corpo selos
- Fluxo direcional, direita ou esquerda
- A válvula pode ser desligada para parar o fluxo

KIT DE REPARAÇÃO INCLUI:

- Bola
- Junta do corpo
- Arruela de pressão
- Assentos de bola
- Bucha do caule superior
- O-ring haste



VÁLVULAS DE MANIFOLD DE CARGA INFERIOR DE 3 FORMAS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
MV100BL	1" FP 3-WAY BOTTOM LOAD MANIFOLD VALVE	300	1"	1"	6	T	V10353TB	N/A
MV200BL	2" SP 3-WAY BOTTOM LOAD MANIFOLD VALVE	225	2"	1½"	6	T	V20353TB	V15300SL
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

MANIFOLD FLANGE CONNECTIONS

VÁLVULAS DE SPIKE DE PRESSÃO

FEATURES

- Selos FKM
- Polipropileno moldado de precisão é reforçado com fibra de vidro para maior resistência
- 360° orientação
- Modelo de pressão predefinido



MANIFOLD PRESSURE SPIKE VALVES

PART NO	DESCRIPTION	CRACKING PRESSURE	MAX PSI	QTY
MPRV100-050	1" X 1" MANIFOLD PRESSURE SPIKE VALVE	50	300	1
MPRV100-075	1" X 1" MANIFOLD PRESSURE SPIKE VALVE	75	300	1
MPRV100-100	1" X 1" MANIFOLD PRESSURE SPIKE VALVE	100	300	1
MPRV100-125	1" X 1" MANIFOLD PRESSURE SPIKE VALVE	125	300	1

CARGA LATERAL DE 3 MANEIRA VÁLVULAS DE ESFERA

CARACTERÍSTICAS

- Parafusos de aço inoxidável
- Precisão moldada em polipropileno reforçado com fibra de vidro para força adicional
- Bola auto-alinhada move-se livremente e contra os assentos de PTFE para operação suave
- Bola é diamante virou após a moldagem para torná-lo esféricamente perfeito
- Que fornece contato preciso entre bola e assentos
- PTFE auto-lubrificante haste buchas e assentos
- FKM corpo selos
- Fluxo direcional, direita ou esquerda
- A válvula não pode ser desligada para parar o fluxo



VÁLVULAS DE MANIFOLD DE CARGA LATERAL DE 3 MANEIRAS

PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	LOT QTY	HANDLE TYPE	REPLACEMENT HANDLE	REPAIR KIT
MV100SL	1" FP 3-WAY SIDE LOAD MANIFOLD VALVE	300	1"	1"	6	T	V10353TB	N/A
MV200SL	2" SP 3-WAY SIDE LOAD MANIFOLD VALVE	225	2"	1½"	5	STRAIGHT	V20153SH	V15300SL
MV220SL	2" FP 3-WAY SIDE LOAD FULL PORT MANIFOLD VALVE	100	2"	2"	8/BOX	STRAIGHT	V25153SH	V25200BL

MATE SECOT™ DES CONECTOS A SEC O

CARACTERÍSTICAS

- Fácil de usar
- Derramamento mínimo de fluidos
- Reduz o risco de exposição
- Ampla gama de resistência química
- Quando instalado e operado corretamente, o conjunto não se separará acidentalmente enquanto o fluido estiver fluindo; evitando perdas dispendiosas
- Dados de derramamento: 2"=4ml, 3"=15ml

KIT DE REPARAÇÃO INCLUI:

- Vedação face
- Bola
- Assentos
- Junta do corpo
- Rolamentos axiais
- Bucha do tronco



MANIFOLD DRY DISCONNECTS

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

Note: Male and female sold separately

MANIFOLD FLANGE CONNECTIONS

ADAPTADOR DE TUBO BAROLO

FEATURES

- Elimina a necessidade de rosquear tubo
- Montagem rápida e fácil
- Sem necessidade de soldagem
- 360° orientação



BOOM NOZZLE PIPE ADAPTER			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100PA	1" FLANGED PIPE ADAPTER	300	10
M100PAC	1" FLANGED PIPE ADAPTER CAP	300	1
M100PAT	1" FLANGED PIPE ADAPTER TEE	300	1

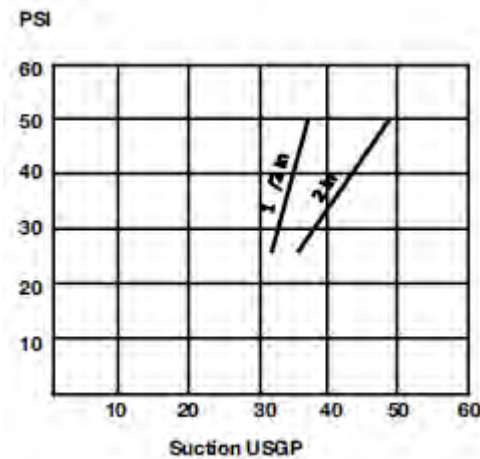
INDUTORES

CARACTERÍSTICAS

- Extensões rosçadas ou colector
- Polipropileno reforçado com vidro
- Projetado para uso com bomba de volume. Volumes típicos (80-240 US GPM) e pressões (26-52 PSI) devem ser usados para operar o indutor.



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



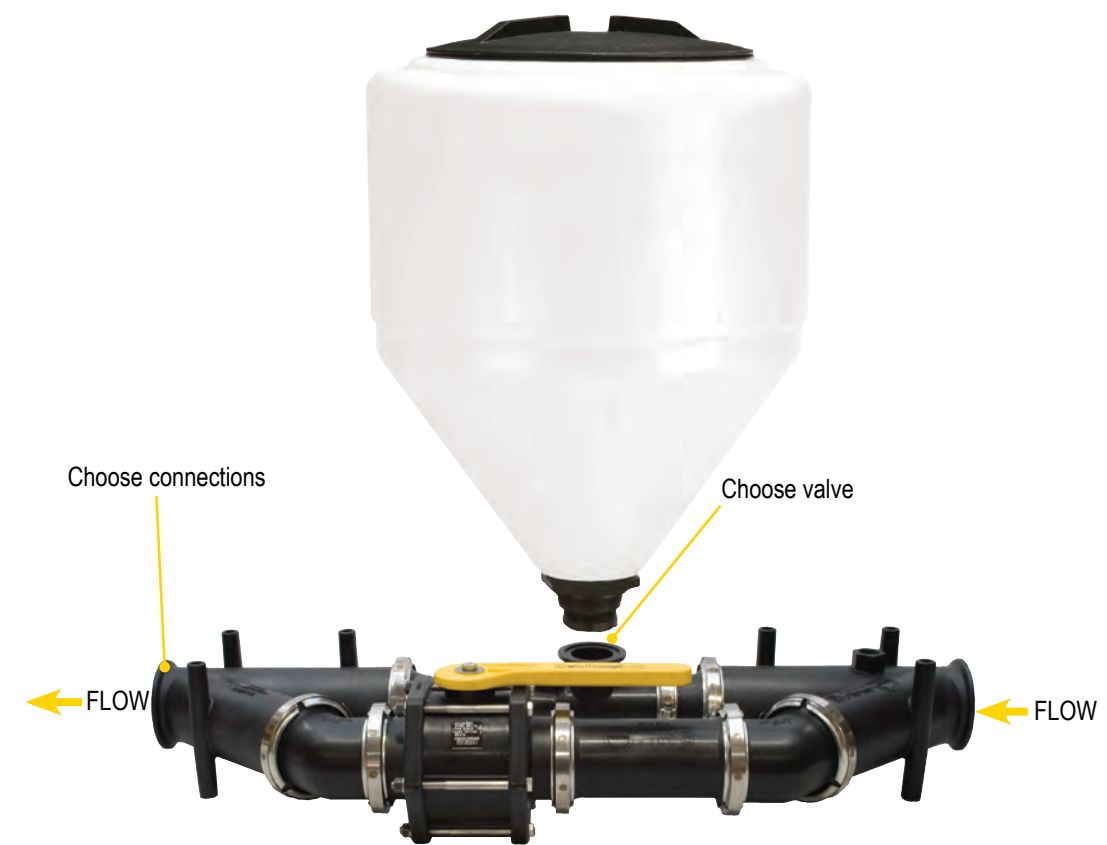
Nota: O indutor foi concebido para utilização com bomba de volume. Os volumes e pressões típicos usados para operar o Venturi estariam na faixa de 80 a 240 GPM dos EUA a pressões de 26 a 52 PSI.

MANIFOLD FLANGE CONNECTIONS

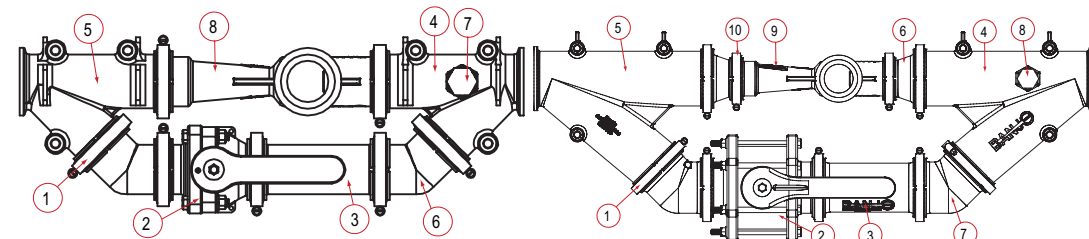
SISTEMAS DE INDUTORES

FEATURES

- Instalado após a bomba; sucção esvazia completamente tanque indutor
- Mantém bomba livre de produtos químicos
- Fácil montagem/instalação com conexões colector encontrado nas páginas 41-47.
- Escolha suas conexões e válvula
- Tanque apenas para fins ilustrativos, não incluído



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				MANIFOLD INDUCTORS			
ITEM	PART NO	DESCRIPTION	LOT QTY	ITEM	PART NO	DESCRIPTION	LOT QTY
1	FC220	220 SERIES WORM SCREW CLAMP	10/BAG	1	FC300	300 SERIES WORM SCREW CLAMP	10/BAG
2	MVS220CF	2" FP FLANGE X 2" FP FLANGE	9	2	MV301CF	3" FP FLANGE X 3" FP FLANGE	1
3	M220CPG6	2" X 2" FULL PORT FLANGE X 6"	5	3	M300CPG7	3" X 3" FULL PORT FLANGE X 7"	1
4	M220YG45	2" FULL PORT 45° Y FLANGE W/ 3/4" GAUGE PORT*	1	4	M300YG45	3" FULL PORT 45° Y FLANGE W/ 3/4" GAUGE PORT*	1
5	M220Y45	2" FULL PORT 45° Y FLANGE	5	5	M300Y45	3" FULL PORT 45° Y FLANGE	1
6	M220CPG45	2" FULL PORT 45° COUPLING	10/BAG	6	M300220CPG	3" X 2" FULL PORT REDUCER FLANGE	1
7	PLUG075	3/4" PIPE PLUG	10/BAG	7	M300CPG45	3" FULL PORT 45° COUPLING	1
8	MHV220A	2" FULL PORT POLY VENTURI	5	8	PLUG075	3/4" PIPE PLUG	10/BAG
9	MHV220A	2" FULL PORT POLY VENTURI	5	9	MHV220A	2" FULL PORT POLY VENTURI	5
10	FC220	220 SERIES WORM SCREW CLAMP	10/BAG	10	FC220	220 SERIES WORM SCREW CLAMP	10/BAG
N/S	M221G	2" FULL PORT EPDM MANIFOLD GASKET WITH RIB	30	N/S	M221G	2" FULL PORT EPDM MANIFOLD GASKET WITH RIB	30
N/S	M301G	3" EPDM MANIFOLD GASKET WITH RIB	50	N/S	M301G	3" EPDM MANIFOLD GASKET WITH RIB	50

MEDIDORES DE FLUXO MFM100 MFM220 MFM300

FEATURES

- Exibe o volume total total e volume total do lote
- A taxa de fluxo permite galões ou litros por minuto
- A tela lê 6 dígitos para a taxa, 8 dígitos para leitura total e 1 casa decimal em decimos
- Medidor estilo magnético com eletrodos de aço inoxidável
- Medidor de auto calibração
- Medidas de água e líquidos mais condutores
- Medidores de fluxo não vai ler líquidos à base de petróleo
- Fácil de mudar seis (6)
- Nenhuma peça móvel falhará durante o uso
- Polipropileno reforçado com vidro
- Faixa de temperatura de 0 ° F a 150 ° F
- ± 1% da leitura (entre 10% e 100% do fluxo máximo)
- ± 3% da leitura (entre o corte e 10% do fluxo máximo)
- Existem 3 fotoolhos localizados na face do medidor de e fluxo. Estes não são botões de pressão; para ativar você deve segurar o dedo sobre o photoeye por 2-4 segundos
- Recomenda-se ter pelo menos 10X o diâmetro do tubo reto antes e depois do medidor de vazão



FLOW METERS				
PART NO	DESCRIPTION	MAX PSI	GPM	QTY
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



SWEEPS			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100125BRBSWP90	1" FLANGE X 1 1/4" HOSE BARB SWEEP	300	10/BAG
M100BRBSWP90	1" FLANGE X HOSE BARB SWEEP	300	10/BAG
M100BRBSWPG90	1" FULL PORT FLANGE X 1" HOSE BARB SWEEP W/ 1/4" GAUGE PORT	300	10/BAG
M100SWP90	1" FLANGE X FLANGE SWEEP	300	10/BAG
M100SWPG90	1" FLANGE X FLANGE SWEEP W/ 1/4" GAUGE PORT	300	10/BAG
M200SWP90	2" FLANGE X FLANGE SWEEP	300	10/BAG
M200150BRBSWP90	2" FLANGE X 1 1/2" HOSE BARB SWEEP	300	10/BAG
M220200SWP90	2" FULL PORT FLANGE X 2" FLANGE SWEEP	225	10/BAG
M220ASWP90	2" FULL PORT FLANGE X MALE ADAPTER SWEEP	200	10/BAG
M220BRBSWP90	2" FULL PORT FLANGE X HOSE BARB SWEEP	225	10
M220MPTSWP90	2" FULL PORT FLANGE X MALE NPT THREAD SWEEP	300	1
M220SWP90	2" FULL PORT FLANGE X FLANGE SWEEP	225	10/BAG
M220SWPG90	2" FULL PORT FLANGE X FLANGE SWEEP W/ 1/4" GAUGE PORT	225	1
M221SWP90	2" FULL PORT MANIFOLD 90° SWEEP	225	1
M300ASWP90	3" FLANGE X MALE ADAPTER SWEEP	100	1
M300BRBSWP90	3" FLANGE X HOSE BARB SWEEP	225	1
M300BRBSWPG90	3" FLANGE X HOSE BARB SWEEP W/ 1/4" GAUGE PORT	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

DOCE

FEATURES

- Substituição direta para acoplamentos flangeados padrão 90°
- Selos positivos
- Montagem rápida e fácil
- Ligar/desligar conexões de mangueira fácil
- Orientação 360°
- Fluxo melhora para max GPM

MANIFOLD FLANGE CONNECTIONS

ACESSÓRIAS

FEATURES

- Montagem rápida e fácil
- Selos positivos • Ligar/desligar conexões de mangueira fácil • 360° orientação • As peças devem ser encomendadas em quantidades de lote.



SWIVEL

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

CHECK VALVES

PART NO	DESCRIPTION	CRACKING PRESSURE PSI	MAX PSI	LOT QTY
MCV100	1" FLANGED CHECK VALVE	1	300	10
MCV200	2" FLANGED CHECK VALVE	0.5	300	10
MCV100V	1" MANIFOLD CHECK VALVE	1	300	1
MCV221	2" FULL PORT FLANGED CHECK VALVE	>0.5	200	10
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	N/A	1

PVC GLUE SOCKET

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M101GSA	1" FULL PORT FLANGE X 1" PVC GLUE SOCKET FITTING	300	10
M221GSA	2" FULL PORT FLANGE X 2" PVC GLUE SOCKET FITTING	300	10
M301GSA	3" FULL PORT FLANGE X 3" PVC GLUE SOCKET FITTING	300	1

316 SS SOCKET WELD

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M100SWFSS	1" FLANGE X 1" SOCKET WELD FITTING	300	10
M200SWFSS	2" FLANGE X 2" SOCKET WELD FITTING	300	1
M220SWFSS	2" FULL PORT FLANGE X 2" SOCKET WELD FITTING	300	10
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	LOT QTY
M100CPG	1" MANIFOLD COUPLING 2 1/4" LONG	300	10/BAG
M100CPG025G	1" MANIFOLD COUPLING 2 1/4" PORT	300	10/BAG
M101CPG	1" MANIFOLD COUPLING 2 1/4" LONG W/ BLIND GAUGE PORT	300	10/BAG
M200CPG	2" MANIFOLD COUPLING 4 1/2" LONG	300	10/BAG
M200CPG025G	2" MANIFOLD COUPLING 4 1/2" LONG W/ 1/4" PORT	300	10/BAG
M200CPG038G	2" MANIFOLD COUPLING 4 1/2" LONG W/ 3/8" PORT	300	10/BAG
M201CPG	2" MANIFOLD COUPLING 4 1/2" LONG W/ BLIND GAUGE PORT	300	10/BAG
M220CPG	2" FULL PORT MANIFOLD COUPLING 2 31/32" LONG	300	10/BAG
M220CPG2GISO	2" FULL PORT MANIFOLD COUPLING 2" LONG W/ G 1/4" PORT	300	10/BAG
M220CPG3G	2" FULL PORT MANIFOLD COUPLING 3" LONG W/ 1/2" PORTS (3)	225	10/BAG
M220CPG6	2" FULL PORT MANIFOLD COUPLING 6" LONG	300	5
M220CPG6025G	2" FULL PORT MANIFOLD COUPLING 6" LONG W/ 1/4" PORTS	300	10/BAG
M221CPG	2" FP MANIFOLD COUPLING 3" LONG W/ 3 BLIND GAUGE PORTS	300	1
M221CPG6	2" FP MANIFOLD COUPLING 6" LONG W/ BLIND GAUGE PORT	300	10/BAG
M300CPG	3" FULL PORT MANIFOLD COUPLING 4" LONG	200	1
M300CPG2	3" FP MANIFOLD COUPLING 4" LONG W/ BLIND GAUGE PORT	200	1
M300CPG7	3" FULL PORT MANIFOLD COUPLING 7" LONG	225	1
M300CPG12G	3" FP MANIFOLD COUPLING 12" LONG W/ 1/2" GAUGE PORT	150	1
M300CPG55	3" MANIFOLD COUPLING 5.5" LONG	150	1
M300CPG55G	3" FULL PORT MANIFOLD COUPLING 5.5" LONG W/ 1/4" PORT	150	1
M300CPG7025G	3" MANIFOLD COUPLING 7" LONG W/ 1/4" PORT	300	1
M300CPG2GISO	3" MANIFOLD COUPLING 2" LONG W/ G 1/4" GAUGE PORT	300	1
M301CPG7	3" MANIFOLD COUPLING 7" LONG	225	1

MANIFOLD FLANGE CONNECTIONS

ACESSÓRIAS

FEATURES

- Montagem rápida e fácil
- Selos positivos • Ligar/desligar conexões de mangueira fácil • Orientação 360° • As peças devem ser encomendadas em quantidades de lote.



45° COUPLINGS

PART NO	DESCRIPTION	MAX PSI	LOT 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

90° COUPLINGS

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

45° Y FLANGED COUPLINGS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
M200YG45	2" 45° Y FLANGE W/ 3/4" GAUGE PORT	225	1
M220Y45	2" FULL PORT 45° Y FLANGE	300	5
M220YG45	2" FULL PORT 45° Y FLANGE W/ 3/4" GAUGE PORT	225	1
M300Y45	3" FULL PORT 45° Y FLANGE	200	1
M300YG45	3" FULL PORT 45° Y FLANGE W/ 3/4" GAUGE PORT	200	1

3" MANIFOLD WYE

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

REDUCER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	LOT 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	LOT QTY
M100TEE	1" FLANGED TEE	300	10/BAG
M101TEE	1" FLANGED TEE LONG	300	10
M200100TEE	2" X 1" FLANGED TEE	300	10
M200TEE	2" FLANGED TEE	200	10/BAG
M220100TEE	2" FULL PORT FLANGED TEE X 1" FLANGED TEE	225	10
M220200TEE	2" FULL PORT FLANGED TEE X 2" FLANGED TEE	300	10
M220TEE	2" FULL PORT FLANGED TEE	225	10
M300TEE	3" FLANGED TEE	225	1

U BOLTS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
UB100	100 SERIES MOUNTING U BOLT	N/A	1
UB202	2 SERIES MOUNTING U BOLT	N/A	10
UB220	220 SERIES MOUNTING U BOLT	N/A	10

ACESSÓRIAS

FEATURES

- Montagem rápida e fácil
- Selos positivos
- Ligar/desligar conexões de mangueira fácil
- 360° orientação
- As peças devem ser encomendadas em quantidades de lote.



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	LOT 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	10/BAG
M220FPT	2" FULL PORT FLANGE X 2" FEMALE THREAD	300	10/BAG
M300FPT	3" FLANGE X 3" FEMALE THREAD	200	10/BAG



MALE THREAD			
PART NO	DESCRIPTION	MAX PSI	LOT 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

ACESSÓRIAS

FEATURES

- Montagem rápida e fácil
- Selos positivos
- Ligar/desligar conexões de mangueira fácil
- Orientação 360°
- As peças devem ser encomendadas em quantidades de lote.



PLUGS			
PART NO	DESCRIPTION	MAX PSI	LOT 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 1/4" FPT	300	10/BAG
M100PLG050	1" FLANGE PLUG WITH 1/2" FPT	300	10/BAG
M200PLG025	2" FLANGE PLUG WITH 1/4" FPT	225	10/BAG
M200PLG038	2" FLANGE PLUG WITH 3/8" FPT	300	10/BAG
M200PLG050	2" FLANGE PLUG WITH 1/2" FPT	225	10/BAG
M200PLG075	2" FLANGE PLUG WITH 3/4" FPT	225	10/BAG
M200PLG100	2" FLANGE PLUG WITH 1" FPT	225	10/BAG
M220PLG038	2" FULL PORT FLANGE PLUG WITH 3/8" FPT	150	10/BAG
M220PLG075	2" FULL PORT FLANGE PLUG WITH 3/4" FPT	225	10/BAG
M300PLG075	3" FLANGE PLUG WITH 3/4" FPT	200	1
M300PLG100	3" FLANGE PLUG WITH 1" FPT	200	1



FEMALE COUPLER			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
M220D	2" FULL PORT FLANGE X 2" FEMALE COUPLER	225	20
M303D	3" FULL PORT FLANGE X 3" FEMALE COUPLER WITH 3 ARMS	225	10



MALE ADAPTER			
PART NO	DESCRIPTION	MAX PSI	LOT 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
M300400A	3" MANIFOLD FLANGE X 4" MALE COUPLER	75	1



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



MANIFOLD FLANGE CONNECTIONS

ACESSÓRIAS

FEATURES

- Montagem rápida e fácil
- Selos positivos • Ligar/desligar conexões de mangueira fá cil • Orientação 360° • As peças devem ser encomendadas em quantidades de lote.



HOSE BARB			
PART NO	DESCRIPTION	MAX PSI	LOT 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
M300400BRB	3" FLANGE X 4" HOSE BARB	150	1
M300BRB	3" FLANGE X 3" HOSE BARB	200	1

90° ANGUEIRA BARB COTOVELO			
PART NO	DESCRIPTION	MAX PSI	LOT 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	10/BAG
M220150BRB90	2" FULL PORT FLANGE X 1 1/2" 90° HOSE BARB	300	10/BAG
M220BRB90	2" FULL PORT FLANGE X 2" 90° HOSE BARB	300	10/BAG
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	LOT QTY
M100BRB45	1" FLANGE X 1" 45° HOSE BARB ELBOW	300	10/BAG
M200BRB45	2" FLANGE X 2" 45° HOSE BARB ELBOW	300	10/BAG
M200125BRB45	2" FLANGE X 1 1/4" 45° HOSE BARB ELBOW	300	10/BAG
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	LOT QTY
M100050HBT	1" FLANGE X 1/2" HOSE BARB TEE	N/A	10/BAG
M100075HBT	1" FLANGE X 3/4" HOSE BARB TEE	N/A	10/BAG
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	1 1/2" FLANGE X 1 1/2" HOSE BARB TEE	300	10/BAG
M220200HBT	2" FULL PORT FLANGE X 2" HOSE BARB TEE	300	10/BAG
M300300HBT	3" FLANGE X 3" HOSE BARB TEE	150	1



A costela mantém a junta no lugar durante a montagem.



M302G M201G 200G 200



MANIFOLD FLANGE CONNECTIONS

ACESSÓRIAS

FEATURES

- Montagem rápida e fácil
- Selos positivos • Ligar/desligar conexões de mangueira fá cil • Orientação 360° • As peças devem ser encomendadas em quantidades de lote.

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	1

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	LOT QTY
M100G	100 SERIES MANIFOLD GASKET	EPDM	25
M101G	100 SERIES MANIFOLD GASKET WITH RIB	EPDM	35
M102G	1" & 1 1/4" SKIRTED FLANGE GASKET	EPDM	1
M100GV	100 SERIES GASKET	FKM	10
75GV	3/4" FKM GASKET	FKM	10
150G	200 SERIES GASKET	EPDM	25
150GV	200 SERIES GASKET	FKM	10
200G	220 SERIES FULL PORT GASKET	EPDM	25
200GV	220 SERIES FULL PORT GASKET	FKM	10
M201G	200 SERIES MANIFOLD GASKET WITH RIB	EPDM	30
M202G	1 1/2" SKIRTED FLANGE GASKET	EPDM	1
M221G	220 SERIES FULL PORT MANIFOLD GASKET WITH RIB	EPDM	30
M222G	2" SKIRTED FLANGE GASKET	EPDM	1
300G	300 SERIES GASKET	EPDM	25
300GV	300 SERIES GASKET	FKM	10
M301G	300 SERIES MANIFOLD GASKET WITH RIB	EPDM	50
M302G	3" SKIRTED FLANGE GASKET	EPDM	1

MINI T STRAINERS			
PART NO	DESCRIPTION	MAX PSI	QTY
MLSTM100-80	1" MANIFOLD MINI T STRAINER 80 MESH	300	1
MLSTM100HB	1" MANIFOLD MINI T STRAINER HEAD & BOWL	N/A	1
MLSTM100HBC	1" MANIFOLD MINI T STRAINER HEAD & CLEAR BOWL	N/A	1

MINI T ALIQUES LINHA

CARACTERÍSTICAS

- Heavy duty polipropileno reforçado
- Tigela transparente feita de policarbonato
- EPDM juntas padrão

1 "-2" T LINHA ALIENTES

FEATURES

- Juntas EPDM STD • Pol y nervuradas 316 aço inoxidável telas • FKM gaxeta opções com o observado "V" sufixo



1 "FULL PORT MANIFOLD T LINHA ALIENTES COM TUBOS DE MONTAGEM				
PART NO	DESCRIPTION	MAX PSI	QTY	
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	
MLST100-80V	1" MANIFOLD T STRAINER W/ 80 MESH SCREEN WITH FKM GASKETS	300	1	

2 "PORTO PADRÃO MANIFOLD T LINHA ALIENTES WITH MOUNTING TUBES				
PART NO	DESCRIPTION	MAX PSI	QTY	
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" LISADORES DE LINHA Y

FEATURES

- Juntas EPDM • Telas de aço inoxidável 316



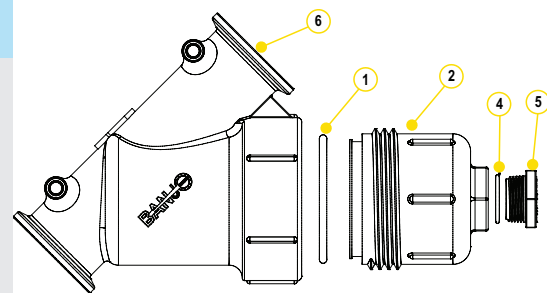
1 "FULL PORT MANIFOLD Y LINE ACORDADOR ES COM TUBOS DE MONTAGEM				
PART NO	DESCRIPTION	MAX PSI	QTY	
MLS100-80	1" MANIFOLD Y STRAINER W/80 MESH SCREEN	225	1	

2" STANDARD PORT MANIFOLD Y LINE STRAINERS WITH MOUNTING TUBES				
PART NO	DESCRIPTION	MAX PSI	QTY	
MLS200-20M	2" MANIFOLD Y STRAINER W/20 MESH SCREEN	225	1	
MLS200-50M	2" MANIFOLD Y STRAINER W/50 MESH SCREEN	225	1	
MLS200-80M	M200 Y STRAINER W/ MOUNT 80 MESH	225	1	

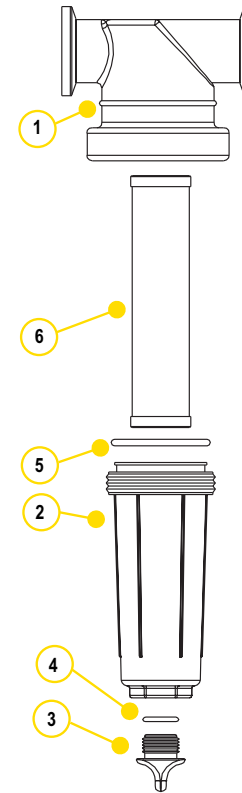
LISADORES LINHA Y



2" STANDARD PORT MANIFOLD Y LINE STRAINERS				
PART NO	DESCRIPTION	MAX PSI	QTY	
MLS200-12	2" MANIFOLD Y STRAINER W/12 MESH SCREEN	225	1	
MLS200-20	2" MANIFOLD Y STRAINER W/20 MESH SCREEN	225	1	
MLS200-50	2" MANIFOLD Y STRAINER W/50 MESH SCREEN	225	1	
MLS200-80	2" MANIFOLD Y STRAINER W/80 MESH SCREEN	225	1	

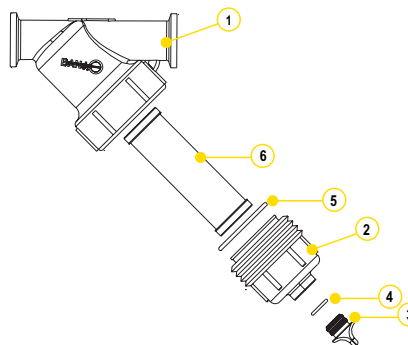


REPLACEMENT PARTS 2"				
ITEM	PART NO	DESCRIPTION	QTY	
1	LS150-G	2" EPDM GASKET	1	
2	LS150-C	2" Y BOWL, DRAIN PLUG, O-RING	1	
3	LSQ200-PL	2" PLUG	1	
4	LSQ200-R	O-RING	1	
5	LST225D	DECAL	1	
6	MLS200BB	2" MANIFOLD Y STRAINER BODY	1	
KIT	MLS200BCM	2" FLANGE Y STRAINER BODY & CAP	1	



PEÇAS DE SUBSTITUIÇÃO 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	

SUBSTITUIÇÃO PEÇAS 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	



SUBSTITUIÇÃO PEÇAS 2"				
ARTIGO SEM PARTE DESCRIÇÃO QTY 1 MLS200B 2" Y CO RPO 1 2 LS150-C 2" Y BOWL, DRAIN PLUG, O-RING 1 3 LSQ 200-PL 2" PLUG 1 4 LSQ200-R 1 5 O-RING 2" EPDM GASKET 1 5 LS150-G 2" FKM GASKET 1 6 LS206 6 TELA DE MALHA 1 6 LS212 12 TELA DE MALHA 1 6 LS220 20 TELA DE MALHA 1 6 LS230 30 TELA DE MALHA 1 6 LS250 50 TELA DE MALHA 1 6 LS280 80 TELA DE MALHA 1 LSC2RE5 120 1 KIT EMS 1				

PEÇAS DE SUBSTITUIÇÃO 1 "				
ITEM	PART NO	DESCRIPTION	QTY	
1	MLS100B	1" Y BODY	1	
1	LS100-C1	1" Y BOWL, DRAIN PLUG, O-RING	1	
1	12777	1/2" PLUG	1	
1	UV15163	O-RING	1	
1	LS100-G	1" EPDM GASKET	1	
1	LS120	20 MESH SCREEN	1	
1	LS140	40 MESH SCREEN	1	
1	LS180	80 MESH SCREEN	1	
1	MLS100BC	KIT INCLUDES ITEMS 1-5	1	

T LINHA ALIENTES

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

LISADORES LINHA Y

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

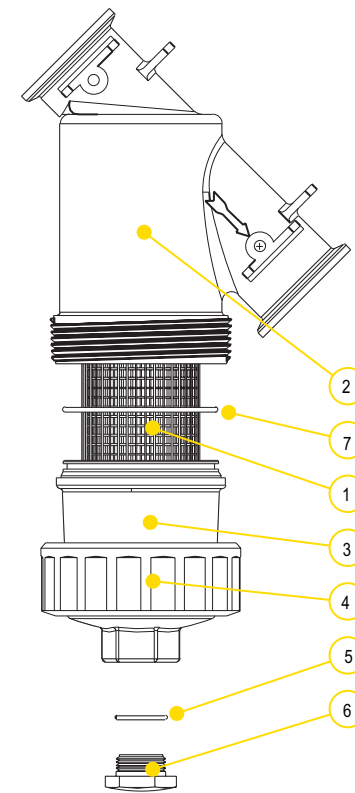
CARACTERÍSTICAS

- Juntas EPDM • 316 aço inoxidável telas



2" FULL PORT MANIFOLD Y LINE LISTRANTES

PART NO	DESCRIPTION	MAX PSI	QTY
MLS222-04	2" FULL PORT MANIFOLD Y STRAINER W/4 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
MLS222-30V	2" FULL PORT MANIFOLD Y STRAINER W 30 MESH SCREEN	225	1



MANIFOLD FLANGE CONNECTIONS

2" FULL PORT Y LINE STRAINERS

CARACTERÍSTICAS

- Juntas EPDM • 316 aço inoxidável telas

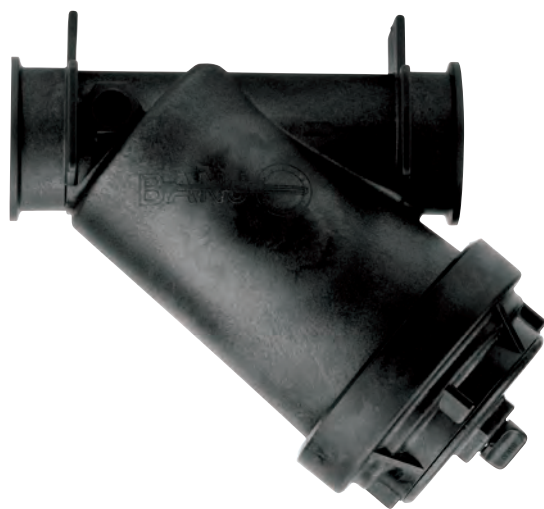
REPLACEMENT PARTS 2"

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" LISADORES DE LINHA Y 3" ALIENTES DE LINHA Y

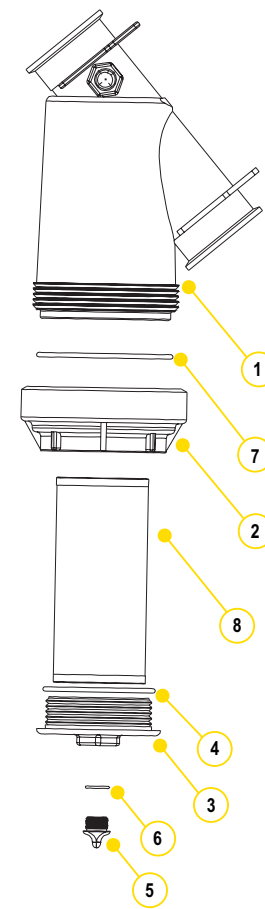
CARACTERÍSTICAS

- Juntas EPDM • 304 telas de aço inoxidável • Deve usar no lado de sucção ou não o-pressão em todas as aplicações



3" FULL PORT MANIFOLD Y LINE STRAINERS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
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
MLS300-20V	3" MANIFOLD Y STRAINER W/20 MESH SCREEN	100	1



3" LISADORES DE LINHA Y 3" ALIENTES DE LINHA Y

CARACTERÍSTICAS

- Juntas EPDM • 304 telas de aço inoxidável • Deve usar no lado de sucção ou não o sem pressão em todas as aplicações

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
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

ENCAIXES DE TANQUE FERRADAS DE DRENO INFERIOR

CARACTERÍSTICAS

- Parafusos de aço inoxidável
- Parafuso cabeça plugues selados ultrasonicamente
- Vidro reforçado polipropileno
- EPDM junta padrão
- FKM junta dispo nível



BOTTOM DRAIN BOLTED TANK FITTINGS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
MBF100BD	1" FLANGE X 1" FEMALE THREAD W/EPDM GASKET	150	5
MBF200BD	2" FLANGE X 2" FEMALE THREAD W/EPDM GASKET	150	5
MBF220BD	2" FP FLANGE X 2" FEMALE THREAD W/EPDM GASKET	150	5
MBF300BD	3" FLANGE X 3" FEMALE THREAD W/EPDM GASKET	150	8

ENCAIXES DE GRANDE DRENO INFERIOR

CARACTERÍSTICAS

- Polipropileno reforçado com vidro
- EPDM padrão
- Sulco permite mais drenagem
- Junta não incluída



BOTTOM DRAIN BULKHEAD FITTINGS

PART NO	DESCRIPTION	HOLE SIZE	MAX PSI	LOT QTY
MTF100BD	1" FLANGE X 1" FEMALE THREAD W/EPDM GASKET	2 1/4"	300	10
MTF220BD	2" FP FLANGE X 2" FEMALE THREAD W/EPDM GASKET	3 1/4"	300	10
MTF300BD	3" FLANGE X 3" FEMALE THREAD W/EPDM GASKET	4 1/2"	200	1

ATENDIMENTOS DE TANQUE FOLTADOS

CARACTERÍSTICAS

- Parafusos de aço inoxidável
- Parafuso cabeça plugues selados ultrasonicamente
- Vidro reforçado polipropileno
- EPDM junta padrão
- FKM junta dispo nível



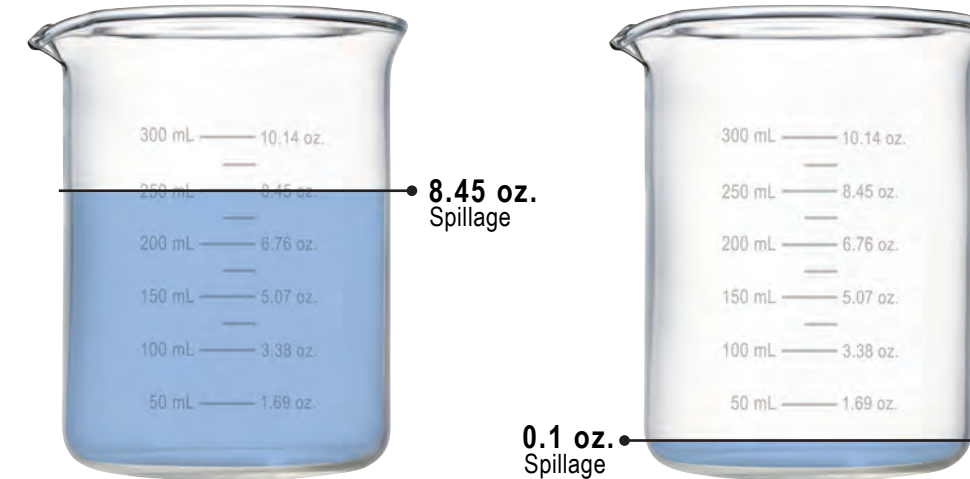
BOLTED TANK FITTINGS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
MBF100	1" FLANGE X 1" FEMALE THREAD W/EPDM GASKET	150	5
MBF200	2" FLANGE X 2" FEMALE THREAD W/EPDM GASKET	150	5
MBF220	2" FP FLANGE X 2" FEMALE THREAD W/EPDM GASKET	150	5
MBF300	3" FLANGE X 3" FEMALE THREAD W/EPDM GASKET	150	5



GRÁFICA DE ESPESSURA DE PAREDE MAX NA PÁGINA 160

NOTYOTYPICALSPILAGE



STANDARD 2" VALVE

2" DRY-MATE

DERRAMENTO DE REDUÇÃO DE 99%

- Redução do derramamento típico usando válvula padrão de 2" com conexão de bloqueio de came vs. Dry-Mate • 8.45 oz. (250 mL) vs. 0.1 oz. (3 mL) Em cinco desconexões por dia, isso é mais de 118 galões (450 litros) economizados por ano; o suficiente para encher os tanques de gasolina de oito tamanhos médios. Automóveis

FEATURES



SEGURANÇA PRI

O produto é importante, mas a segurança da sua equipe é essencial. Com o Dry-Mate Dry-Disconnects, o vazamento da desconexão é minúsculo em comparação com as válvulas padrão. Quando instalado e operado corretamente, o perigo representado por produtos químicos nocivos que contatam sua equipe é bastante reduzido.



CADA DROP CONTAGEM

Seu produto é dinheiro. Por que desperdiçar dinheiro derramando seu produto toda vez que você desconecta? Com o Dry-Mate, sua quantidade de derramamento será significativamente reduzida. Com 3 mL de derramamento do produto para uma linha de 2", você pode ter a tranquilidade de saber que seu produto está sendo colocado onde deveria estar e não no chão.



PRODUTO SOMENTE ONDE VOCÊ O QUER

Quando um Dry-Mate é instalado e operado corretamente, o conjunto não se separará acidentalmente enquanto o fluido estiver fluindo; evitando percalços dispendiosos.



DITCH O MANUTENÇÃO

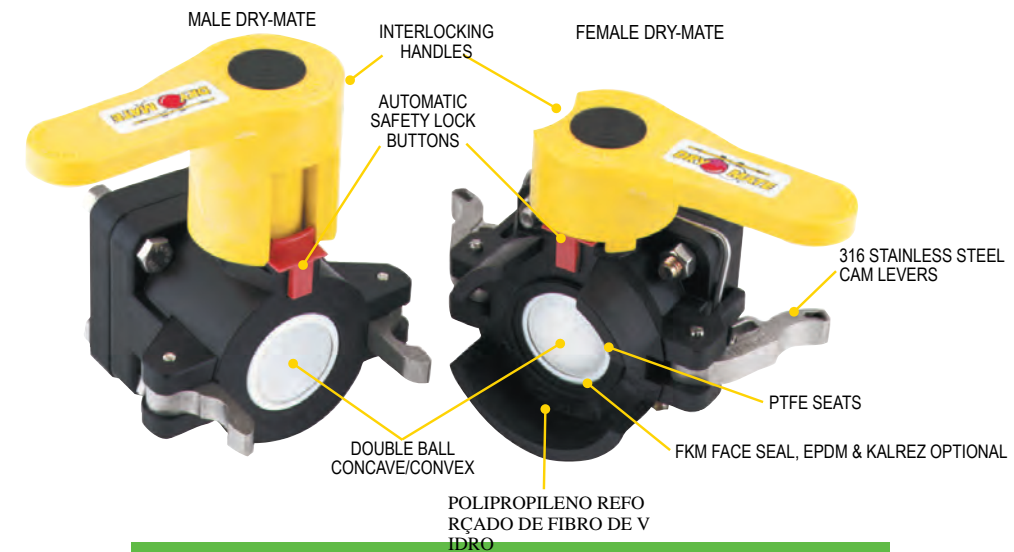
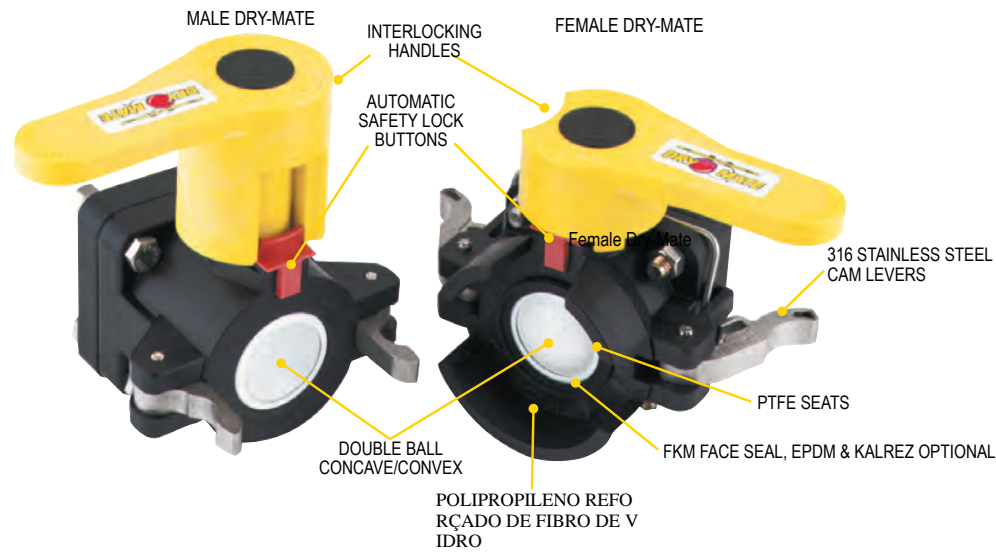
Todo esse derramamento tem que ir a algum lugar. Se você está coletando grandes áreas de derramamento de escoamento, você tem que tê-lo bombeado para fora. Reduza seus custos de manutenção em seus poços de derramamento mantendo os fluidos contidos.

1 1/2" POLY SECO-MATES

2" POLY SECO-MATES

FEATURES

- Leve • Fácil de usar • Econômico • Reduz o risco de exposição • Vasta gama de resistência química • Irrestrito a 1 1/2" fluxo • Patenteado bola dupla com conexão alavanca cam • Quando devidamente instalado e operado, o conjunto não se separará acidentalmente enquanto o fluido estiver fluindo; evitando percalços dispendiosos • Dados de derramamento: 1 1/2" = 2ml



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
DM150AB	1 1/2" MALE X FPT BSP 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

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"	1 1/2"	1
DM200AB	2" MALE X FPT BSP W/FKM SEALS	100	2"	1 1/2"	1
DM200AE	2" MALE X FPT NPT W/EPDM SEALS	100	2"	1 1/2"	1
DM200AT	2" MALE X FPT NPT W/KALREZ® SEALS	100	2"	1 1/2"	1
DMMT201A	2" MALE X MALE NPT W/LOW PROFILE HANDLE	100	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
DM150DB	1 1/2" FEMALE X FPT BSP W/FKM SEALS	100	1 1/2"	1 1/2"	1
DM150DE	1 1/2" FEMALE X FPT NPT W/EPDM SEALS	100	1 1/2"	1 1/2"	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"	1 1/2"	1
DM200DB	2" FEMALE X FPT BSP W/FKM SEALS	100	2"	1 1/2"	1
DM200DE	2" FEMALE W/EPDM SEALS	100	2"	1 1/2"	1
DM200DT	2" FEMALE X FPT NPT W/KALREZ® SEALS	100	2"	1 1/2"	1

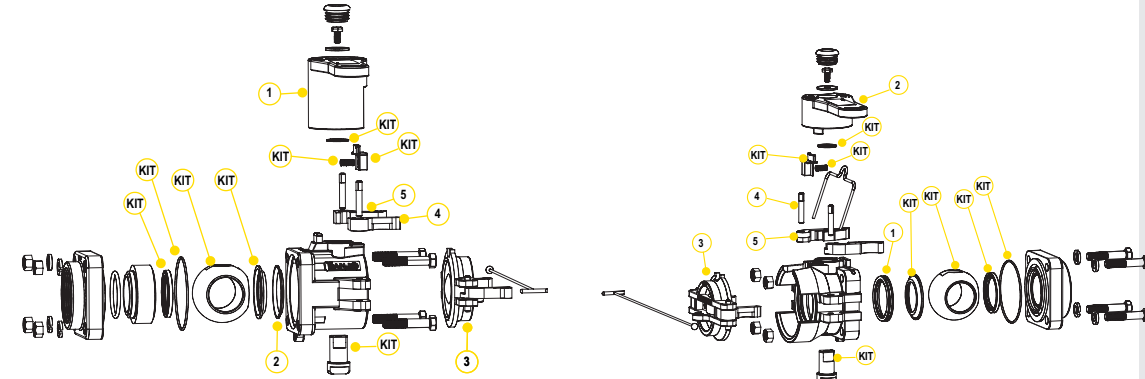
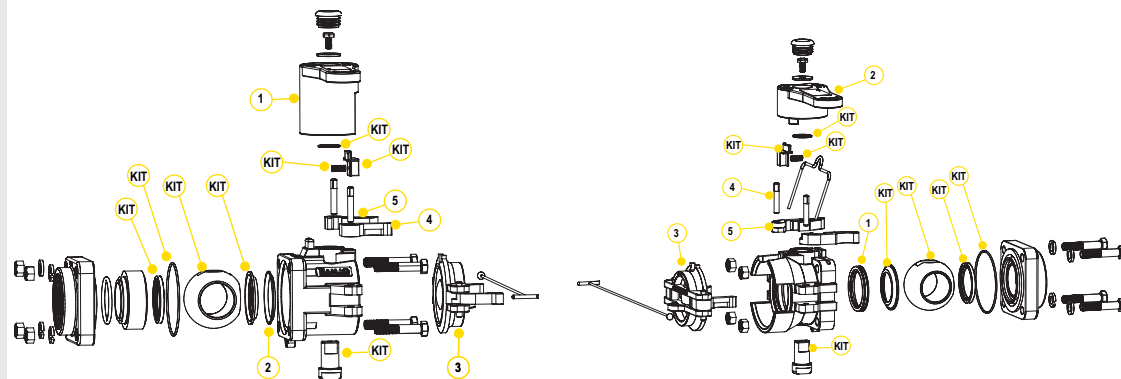


KIT DE REPARAÇÃO INCLUI:

KIT DE REPARAÇÃO INCLUI:

- Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do caule superior • Tronco o-ring

- Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha da haste superior • Tronco 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
4	DM20300	PROFILE INSERT	2
5	200P	PIN	2
KIT	DM20200A	REPAIR KIT FOR DM150A	1

REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	D20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM20153F	FEMALE HANDLE	1
3	DM200PL	DUST PLUG	1
4	200P	PIN	2
5	DM200KX	CAM ARM	2
KIT	DM20200D	REPAIR KIT FOR DM150D	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
4	DM20300	PROFILE INSERT	2
5	200P	PIN	2
KIT	DM20200A	REPAIR KIT FOR DM200A & DM200AE	1

REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM20153F	FEMALE HANDLE	1
3	DM200PL	DUST PLUG	1
4	200P	PIN	2
5	DM200KX	CAM ARM	2
KIT	DM20200D	REPAIR KIT FOR DM200D & DM200DE	1

2 "POLI DE PORTO COMPLETO MATES SECOS

3 "POLI DE PORTO COMPLETO MATES SECOS

FEATURES

FEATURES

- Leve • Fácil de usar • Econômico • Reduz o risco de exposição • Vasta gama de resistência química • Fluxo ir restrito 2" • Design de bola dupla patenteado com conexão alavanca cam • Quando instalado e operado corretamente, o conjunto não se separará acidentalmente enquanto o fluido estiver fluindo; evitando perdas dispendiosas • Dados de derramamento: 2 "FP =3.6 ml

- Leve • Fácil de usar • Econômico • Reduz o risco de exposição • Vasta gama de resistência química • Fluxo ir restrito de 3" • Design patenteado de bola dupla com conexão de alavanca cam • Quando instalado e operado corretamente, o conjunto não se separará acidentalmente enquanto o fluido estiver fluindo; evitando perdas dispendiosas • Dados de derramamento: 3 "FP =20ml



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

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

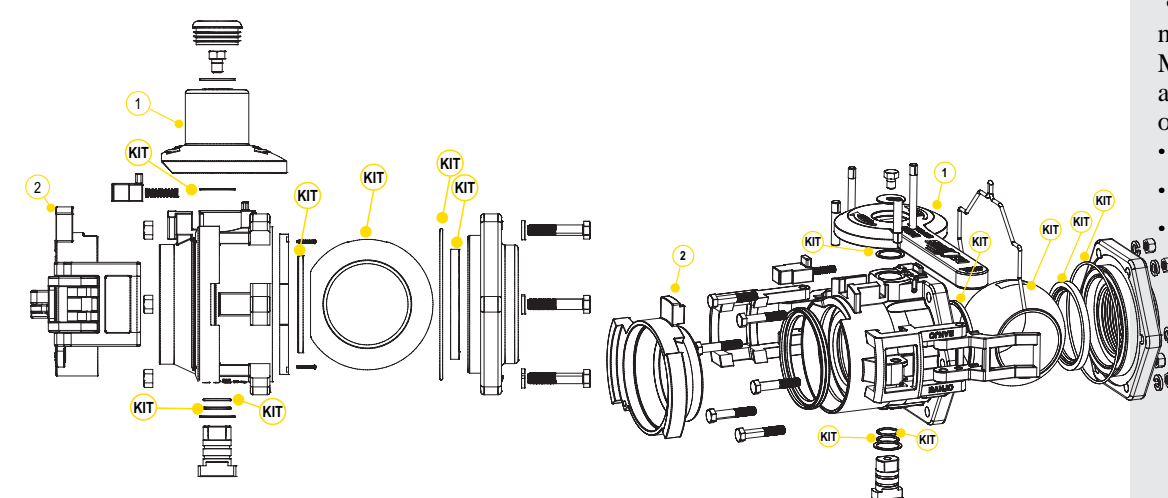
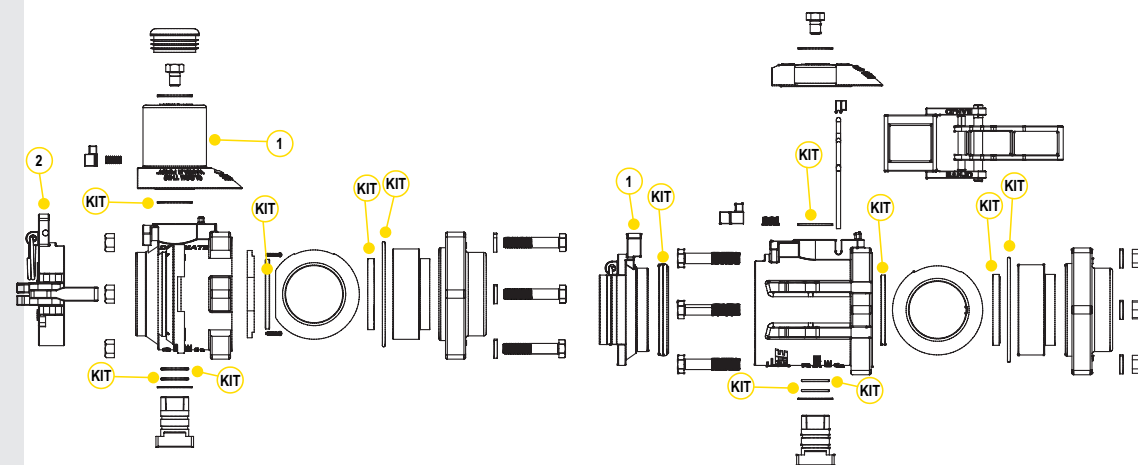


KIT DE REPARAÇÃO INCLUI:

KIT DE REPARAÇÃO INCLUI:

- Junta do corpo
- Arruela de pressão
- Assentos de bola
- Bucha do caule superior
- Anel-tronco
- Vedação facial

- Bola
- Junta do corpo
- Máquina de lavar
- Assentos de bola
- Bucha haste superior
- Stem o-ring
- Fselo ace



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

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	DM35153F	FEMALE HANDLE	1
2	DM300PL	DUST PLUG	1
KIT	DM35200	REPAIR KIT	1

1 "PORTO COMPLETO DE AÇO INOXIDÁVEL SECO S-MATES

FEATURES

- • Construção em aço inoxidável 316 • Sem restrições 1 "fluxo • Projeto patenteado bola dupla com conexão cam alavanca • 300 °F temperatura máxima operacional • 100% assentos bola PTFE • Quando devidamente instalado e operado, o conjunto não se separará acidentalmente enquanto o fluido está fluindo; prevenindo percalços caros • Dados do derramamento: 1" FP =1.7 ml



DM100ASS

DM100DSS

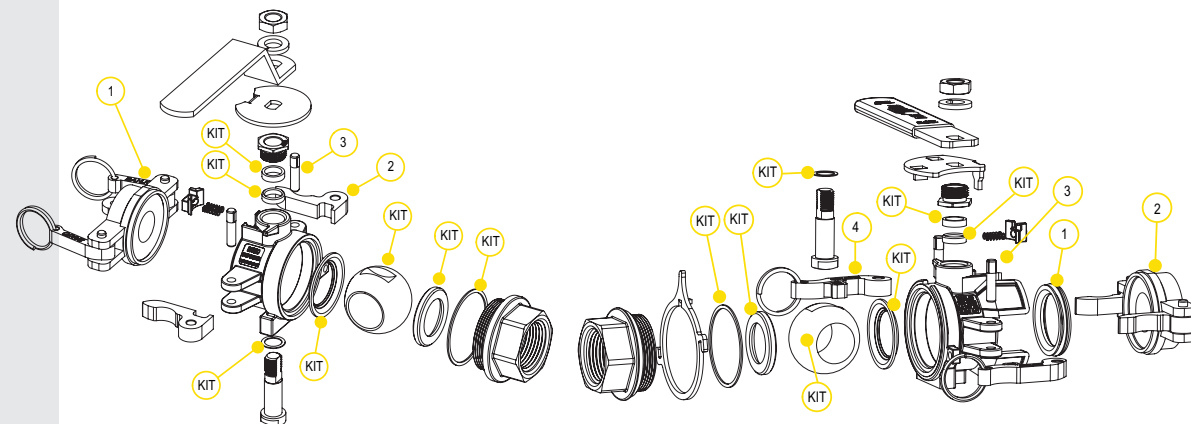
1" FULL PORT STAINLESS STEEL DRY-MATE

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 BSPP 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 BSPP W/ FKM SEALS	150	1"	1"	1



KIT DE REPARAÇÃO INCLUI:

- • Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do tronco superior • O-ring haste • Vedação facial

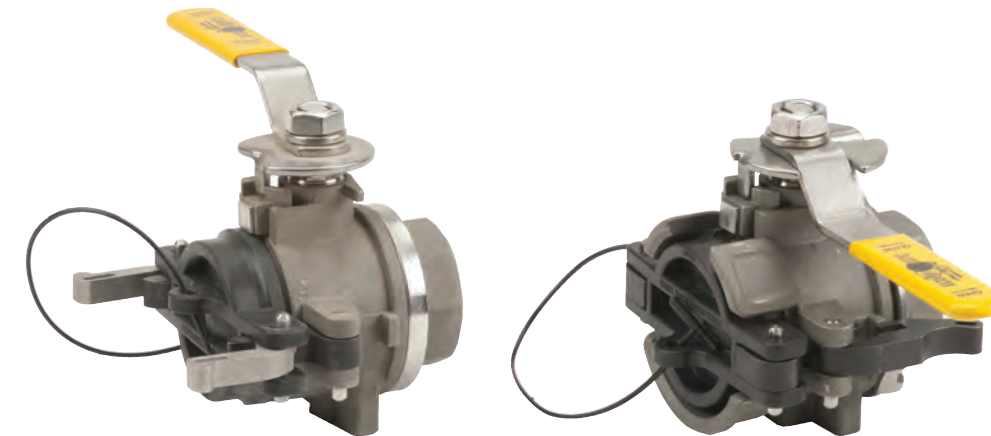


REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM100CAP	DUST CAP	1
2	DM10300	PROFILE INSERT	2
3	100P	PIN	2
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
3	100P	PIN	2
4	DM100K	CAM ARM	2
KIT	DM102SSV	FKM REPAIR KIT	1



DM150ASS DM150DSS

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 BSPP 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 BSPP W/ FKM SEALS	150	1 1/2"	1 1/2"	1

1 1/2 "PORTO COMPLETO DE AÇO INOXIDÁVEL-MATES

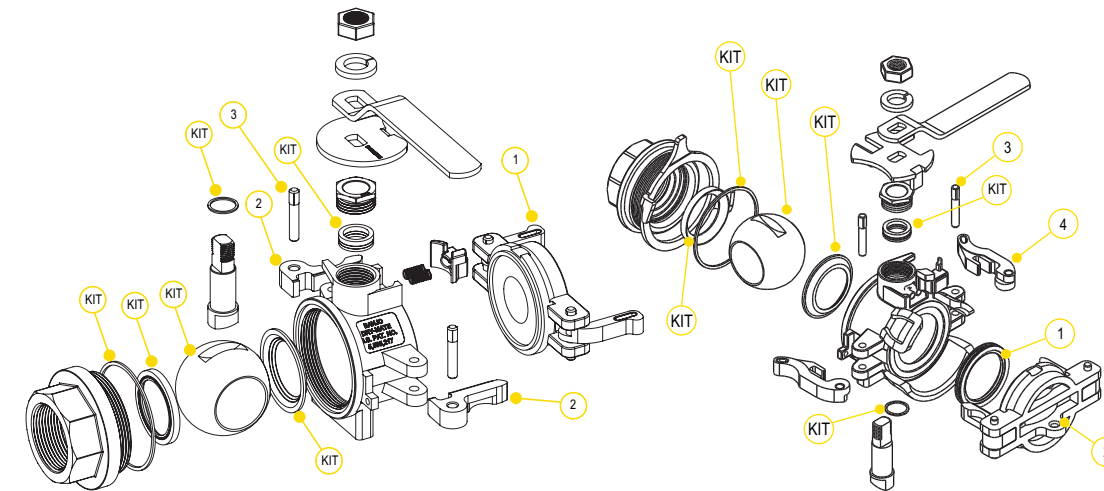
FEATURES

- • Construção em aço inoxidável 316 • Sem restrições 1 1/2 "fluxo • Projeto de bola dupla patenteado com conexão cam alavanca • 300 °F temperatura máxima operacional • 100% assentos bola PTFE • Quando devidamente instalado e operado, o conjunto não se separará acidentalmente enquanto o fluido está fluindo; prevenindo percalços dispendiosos • Dados do derramamento: 1 1/2" FP =3ml



KIT DE REPARAÇÃO INCLUI:

- • Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha do caule superior • Tronco o-ring • Vedação facial



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM200ACAP	DUST CAP	1
2	DM20300	PROFILE INSERT	2
3	200P	PIN	2
KIT	DM201SS	REPAIR KIT	1

REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM200APL	DUST PLUG	1
3	200P	PIN	2
4	DM200KX	CAM ARM	2
KIT	DM202SSV	FKM REPAIR KIT	1

2 "MATES SECOS DE AÇO INOXIDÁVEL

FEATURES

- • Construção em aço inoxidável 316 • Patenteado projeto de bola dupla com conexão alavanca a cam • 300 °F temperatura operacional máxima • 100% assentos bola PTFE • Quando devidamente instalado e operado, o conjunto não se separará acidentalmente enquanto o fluido está fluindo; prevenir percalços dispendiosos • Dados do derramamento: 2"=3.6ml



DM200ASS



DM200DSS

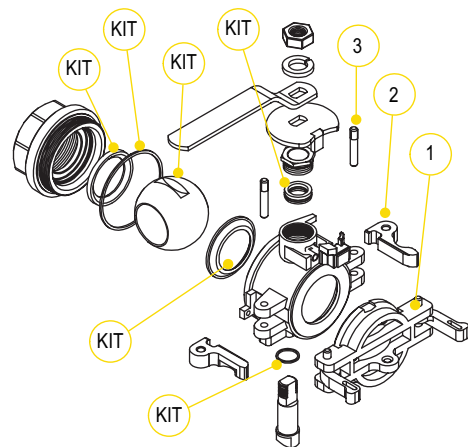
2" STANDARD PORT STAINLESS STEEL DRY-MATE

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



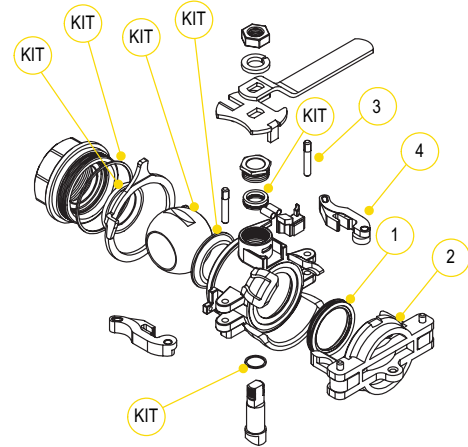
KIT DE REPARAÇÃO INCLUI:

- • Bola • Junta do corpo • Arruela de pressão • Assentos de bola • Bucha da haste superior • Anel-tronco • Vedação facial



REPLACEMENT PARTS MALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM200ACAP	DUST CAP	1
2	DM20300	PROFILE INSERT	2
3	200P	PIN	2
KIT	DM201SS	REPAIR KIT	1



REPLACEMENT PARTS FEMALE

ITEM	PART NO	DESCRIPTION	QTY
1	DM20294A	FKM FACE SEAL	1
1	DM20295A	EPDM FACE SEAL	1
1	DM20296	KALREZ® FACE SEAL	1
2	DM200APL	POLY PLUG	1
3	200P	PIN	2
4	DM200KX	CAM ARM	2
KIT	DM202SSV	FKM REPAIR KIT	1

2 "PORTO COMPLETO DE AÇO INOXIDÁVEL SECO S-MATES

FEATURES

- • Construção em aço inoxidável 316 • Sem restrições 2"fluxo • Projeto de bola dupla patenteado com conexão alavanca a cam • 300 °F temperatura operacional máxima • 100% assentos bola PTFE • Quando devidamente instalado e operado, o conjunto não se separará acidentalmente enquanto o fluido está fluindo; prevenir percalços dispendiosos • Dados do derramamento: 2" FP =3.8ml



DM220ABSS



DM220DBSS

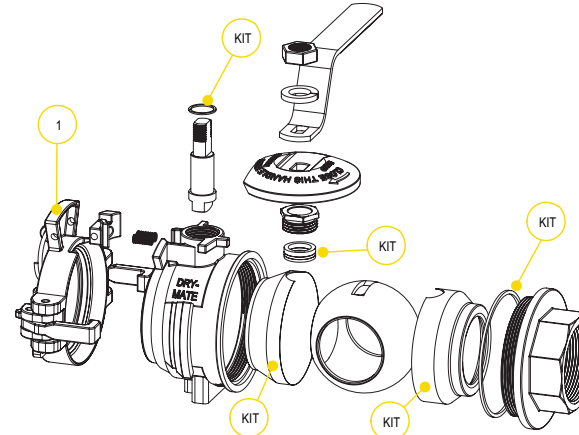
2" FULL PORT STAINLESS STEEL DRY-MATE

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 BSPP 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 BSPP W/ FKM SEALS	300	2"	2"	1



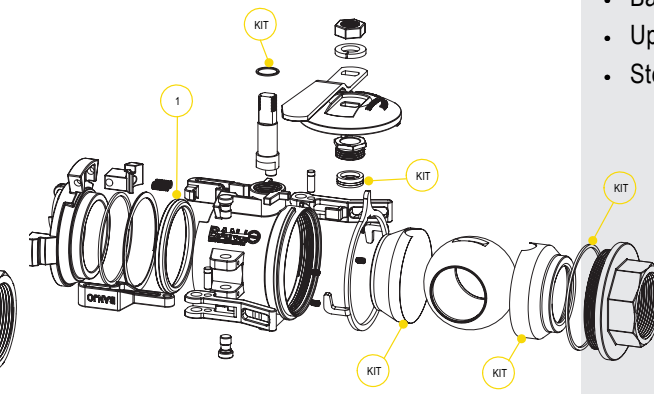
KIT DE REPARAÇÃO INCLUI:

- • Junta do corpo • Empurrador de bola • Assentos de bola • Uppé haste bucha • StemAnel-O



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	DM25294T	KALREZ® FACE SEAL	1
KIT	DM222SS	REPAIR KIT	1

1" POLY SECO FITS

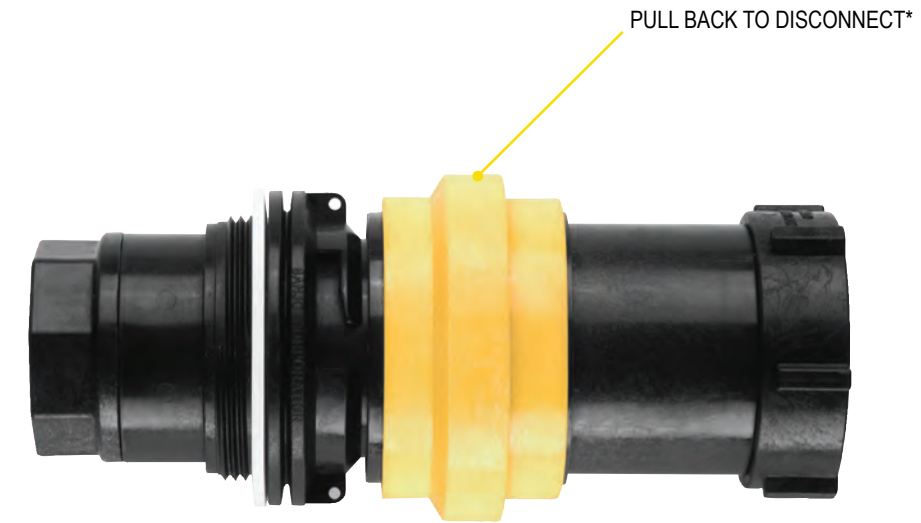
FEATURES

- Válvulas duplas de poli-bola com desconexão rápida integrada
- 1" full-port (fluxo irrestrito)
- Permite maiores pressões e fluxo
- Dessinal e econômico e mais simples sem recurso de bloqueio de alça
- 90° + menos derramamento vs . 2 válvulas padrão conectadas através de um acoplamento



1 1/2" POLY MALE DRY FIT™					
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DF100A	1" MALE X FPT NPT W/FKM SEALS	100	1"	1"	1

1 1/2" POLY FEMALE DRY FIT™					
PART NO	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	QTY
DF100D	1" FEMALE X FPT NPT W/FKM SEALS	100	1"	1"	1



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

* Nota: Adaptador macho e acoplador fêmea mostrados acoplados juntos, mas vendidos separadamente.

ACOPLAMENTOS DE PAPPET S

FEATURES

- Leve
- Dorraramen to mínimo de fluido
- Fácil de usar
- Econômico
- Reduz o risco de exposição
- Vasta gama de resistência a química
- Temperatura máxima de operação 150 ° F
- 30 GPM fluxo máximo
- Precisão moldada em polipropileno
- 1" roscas NPT femininas

APLICAÇÕES

- Agricultura
- Industrial
- Farmacêutica
- Processamento químico

VÁLVULAS DE ESFERA DE SPIN

FEATURES

- Assentos PTFE • FKM haste o-rings • Precisão polipropileno moldado é reforçado com fibra de vidro para a força adicional • Liga de zinco color • FKM, EPDM e TPV gaxetas disponíveis • Alças fecham em qualquer direção • Para envio mais rápido, ordene na caixa quantidades



IDENTIFYING COLLAR NUMBER FOUND HERE

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	1
W230238	2" POLY SPINWELD VALVE W/QDC OUTLET & CAP & FOIL SEAL	FKM	MAUSER®	V22283 C & D	2 1/4"	20	1
W230239	2" POLY SPINWELD VALVE W/NPT OUTLET & CAP & FOIL SEAL	EPDM	MAUSER®	V22283 C & D	2 1/4"	20	1
W230240	2" POLY SPINWELD VALVE W/QDC OUTLET & CAP & FOIL SEAL	EPDM	MAUSER®	V22283 C & D	2 1/4"	20	1
WSF210FSA	2" POLY SPINWELD VALVE W/QDC OUTLET, FOIL SEAL & CAP	TPV	SCHUTZ®	V20280 A & B	2 3/4"	50	1
WSF210FSAV	2" POLY SPINWELD VALVE W/QDC OUTLET, FOIL SEAL & CAP	FKM	SCHUTZ®	V20280 A & B	2 3/4"	50	1
WSMT210FSA	2" POLY SPINWELD VALVE W/NPT OUTLET, FOIL SEAL & CAP	TPV	SCHUTZ®	V20280 A & B	2 3/4"	225	1
WSMT210FSAV	2" POLY SPINWELD VALVE W/NPT OUTLET, FOIL SEAL & CAP	FKM	SCHUTZ®	V20280 A & B	2 3/4"	225	1

VÁLVULA E ADAPTADORES DA UNIÃO FDA

FEATURES

- Precisão moldada em polipropileno reforçado com vidro para resistência e resistência química • assentos PTFE ou operação suave e características de vedação adequadas • Double EPDM o-rings na área da haste para proteção de vedação extra • Bloqueio corpo e placa final para permitir fácil conexão de rosca ao instalar válvulas



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

- Fluxo máximo de ar através dos canais de ventilação
- Fluxo de ar equivalente a um 3" buraco
- Nenhuma ventilação secundária necessária
- aberturas descentradas
- Centro de ventilação vai na parte inferior da tampa
- NPT Threads TANK LIDS



IBC SOLID TANK LIDS

PART NO	DESCRIPTION	GASKET	LOT QTY
TL650S	6" SOLID TANK LID W/GASKET	TPV	10

IBC TANK LID WITH UNVENTED PLUG

PART NO	DESCRIPTION	GASKET	LOT QTY
TL651S	6" TANK LID W/ UNVENTED 2" PLUG W/GASKET	TPV	10

IBC TANK LIDS WITH VENTED PLUG

PART NO	DESCRIPTION	GASKET	QTY
TL652S	6" TANK LID W/ VENTED 2" PLUG W/GASKET	TPV	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

SIPHON TUBES

PART NO	DESCRIPTION	LOT QTY
ST200	2" POLY SIPHON TUBE	5
ST300	3" POLY SIPHON TUBE	5

CENTRO DE VENTE CARACTERÍSTICAS • Tamanho de fluxo total • Comprimento longo • Macho fios NPT • Feita de polipropileno SIPHON TUBOS



PART NO	DESCRIPTION	PSI	LOT QTY
200CAP	2" CAM LEVER DUST CAP	200	20
200CAPSH	2" CAM LEVER DUST CAP WITH SHORT ARMS	200	10
201CAPSH	2" CAM LEVER DUST CAP W/SHORT ARMS & RINGS	200	10
202CAP	2" CAM LEVER DUST CAP	20	10
V20207	11" POLYURETHANE LANYARD	N/A	1



PART NO	DESCRIPTION	PSI	LOT QTY
200CAP	2" CAM LEVER DUST CAP	200	20
200CAPSH	2" CAM LEVER DUST CAP WITH SHORT ARMS	200	10
201CAPSH	2" CAM LEVER DUST CAP W/SHORT ARMS & RINGS	200	10
202CAP	2" CAM LEVER DUST CAP	20	10
V20207	11" POLYURETHANE LANYARD	N/A	1



PART NO	DESCRIPTION	PSI	LOT QTY
200CAP	2" CAM LEVER DUST CAP	200	20
200CAPSH	2" CAM LEVER DUST CAP WITH SHORT ARMS	200	10
201CAPSH	2" CAM LEVER DUST CAP W/SHORT ARMS & RINGS	200	10
202CAP	2" CAM LEVER DUST CAP	20	10
V20207	11" POLYURETHANE LANYARD	N/A	1

ACESSÓRIOS DE POLIPROPILENO
GASKET PSI LOT QTY CAPS
TPV 300 10
Polipropileno reforçado vidro 200CAP

FEATURES

FLANGAS TANQUE FERRADAS

FEATURES

- Parafusos de aço inoxidável
- Cabeça de parafuso plugs ultrasonicamente selados
- Polipropileno reforçado com vidro
- EPDM juntas padrão e FKM disponíveis
- AVISO: Não aperte os parafusos do flange do tanque mais de 12 libras ft



BF150
0 BF300



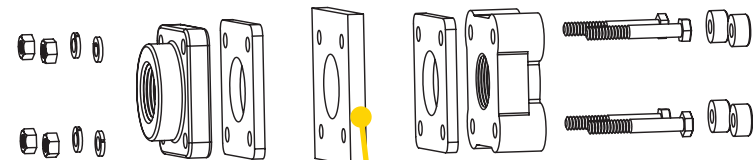
GRÁFICA DE ESPESSURA DE PAREDE MAX NA PÁGINA 160



BOLTED TANK FLANGES		
PART NO	DESCRIPTION	LOT QTY
BF075	3/4" X 1" THREADED FLANGE W/EPDM GASKET	10
BF100	1" X 1" THREADED FLANGE W/EPDM GASKET	10
BF150	1 1/2" X 2" THREADED FLANGE W/EPDM GASKET	5
BF200	2" X 2" THREADED FLANGE W/EPDM GASKET	10
BF200V	2" X 2" THREADED FLANGE W/FKM GASKET	10
BF220	2" X 2" FP THREADED FLANGE W/EPDM GASKET	5
BF300	3" X 3" THREADED FLANGE W/EPDM GASKET	4

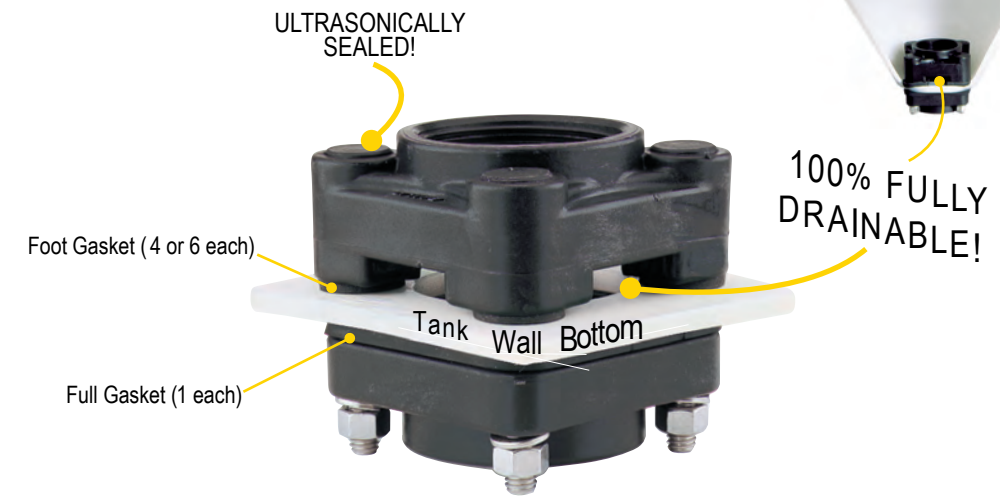
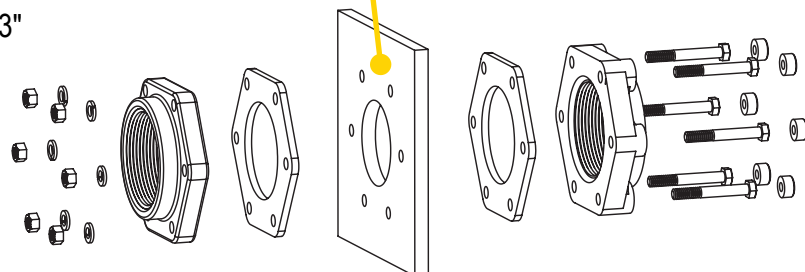
BOLTED TANK FLANGE GASKETS		
PART NO	DESCRIPTION	QTY
BF100GE	1" EPDM GASKET	1
BF200GE	1 1/2" & 2" EPDM GASKET	1
BF200GV	1 1/2" & 2" FKM GASKET	1
BF220GE	2" FULL PORT EPDM GASKET	1
BF220GV	2" FULL PORT FKM GASKET	1
BF300GE	3" EPDM GASKET	1
BF300GV	3" FKM GASKET	1

3/4" — 2"



Tank Wall

3"



BOLTED TANK FLANGES		
PART NO	DESCRIPTION	LOT QTY
BF075BD	3/4" X 1" THREADED POLY FLANGE W/ EPDM GASKET	5
BF100BD	1" X 1" THREADED POLY FLANGE W/EPDM GASKET	5
BF150BD	1 1/2" X 2" THREADED POLY FLANGE W/EPDM GASKET	5
BF200BD	2" X 2" THREADED POLY FLANGE W/EPDM GASKET	5
BF220BD	2" X 2" FULL PORT THREADED POLY FLANGE W/EPDM GASKET	5
BF300BD	3" X 3" THREADED POLY FLANGE W/EPDM GASKET	4

BOLTED TANK FLANGE GASKETS		
PART NO	DESCRIPTION	QTY
BF100GE	3/4", 1" & 1 1/4" EPDM GASKET	1
BF100GRE	3/4", 1" & 1 1/4" FOOT EPDM GASKET	1
BF100GRV	3/4", 1" & 1 1/4" FOOT FKM GASKET	1
BF200GE	1 1/2" & 2" EPDM GASKET	1
BF200GV	1 1/2" & 2" FKM GASKET	1
BF200GFV	1 1/2" & 2" STD. PORT, 2" FULL PORT FOOT FKM GASKET	1
BF220GE	2" FULL PORT EPDM GASKET	1
BF220GV	2" FULL PORT FKM GASKET	1
BF300GE	3" EPDM GASKET	1
BF300GV	3" FKM GASKET	1
BF300GFE	3" FOOT EPDM GASKET	1
BF300GFV	3" FOOT FKM GASKET	1

FLANJOS DE TANQUE DE DRENO FERRAMENTAL

FEATURES

- Parafusos de aço inoxidável
- Parafuso cabeça plugs ultrasonicamente selado
- Vidro polipropileno reforçado
- EPDM juntas padrão e FKM disponíveis
- Permite 100% livre de enxaguamento
- Sem construção de sedimentos
- Excelente para evitar contaminação cruzada herbicida
- Se adapta mais fundo cone e tanques e indutores químicos, 30 galões e maior
- Para o transporte mais rápido, ordem em quantidades de caixa



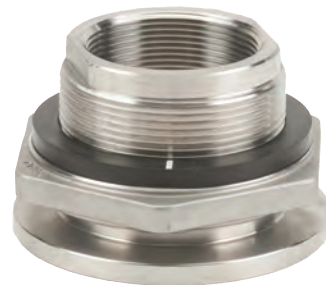
ADESÕES DE TANQUE DE BULKHEAD

FEATURES

- Roscas NPT fêmea dupl a face
- Disponível com junta EPDM ou FKM
- As peças de vem ser encomendadas em qu antidades de lote.



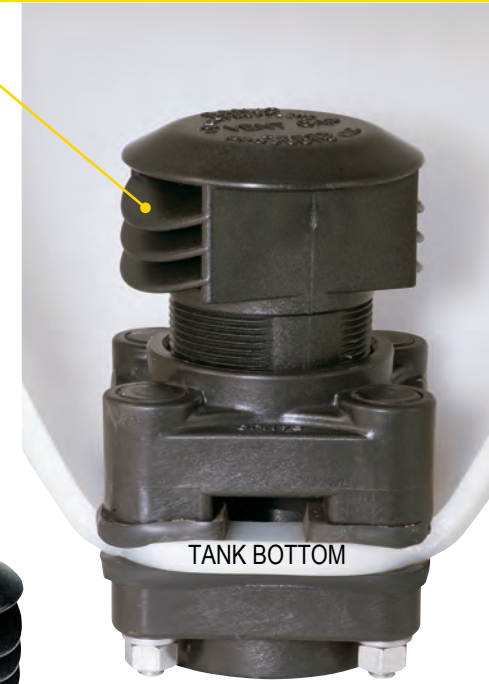
POLY BULKHEAD FITTINGS					
PART NO	DESCRIPTION	HOLE SIZE	MAX PSI	LOT QTY	
TF050	1/2" POLY BULKHEAD TANK FITTING W/EPDM GASKET	1 5/8"	300	10/BAG	
TF075	3/4" POLY BULKHEAD TANK FITTING W/EPDM GASKET	1 5/8"	300	10/BAG	
TF075V	3/4" POLY BULKHEAD TANK FITTING W/FKM GASKET	1 5/8"	300	10	
TF100	1" POLY BULKHEAD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



316 STAINLESS STEEL BULKHEAD FITTINGS					
PART NO	DESCRIPTION	HOLE SIZE	MAX PSI	LOT QTY	
TF038SS	3/8" SS BULKHEAD TANK FITTING W/EPDM GASKET	1"	300	1	
TF050SS	1/2" SS BULKHEAD TANK FITTING W/EPDM GASKET	1 3/8"	300	1	
TF075SS	3/4" SS BULKHEAD TANK FITTING W/EPDM GASKET	1 5/8"	300	1	
TF100SS	1" SS BULKHEAD TANK FITTING W/EPDM GASKET	2 1/4"	300	1	
TF125SS	1 1/4" SS BULKHEAD TANK FITTING W/EPDM GASKET	2 1/4"	300	1	
TF150SS	1 1/2" SS BULKHEAD TANK FITTING W/EPDM GASKET	3"	300	1	
TF200SS	2" SS BULKHEAD TANK FITTING W/EPDM GASKET	3"	300	1	
TF220SS	2" SS BULKHEAD TANK FITTING W/EPDM GASKET	3 1/4"	300	1	
TF300SS	3" SS BULKHEAD TANK FITTING W/EPDM GASKET	4 3/8"	300	1	

BULKHEAD GASKETS					
PART NO	DESCRIPTION	HOLE SIZE	FITS POLY	FITS SS	LOT QTY
100G	3/8" BULKHEAD EPDM GASKET	1"		TF038SS	25
100GV	3/8" BULKHEAD FKM GASKET	1"		TF038SS	10
TF100G	1" TANK FLANGE EPDM GASKET	2 7/32"		TF100V	25
TF100GV	1" TANK FLANGE FKM GASKET	2 7/32"		TF100V	10
TF138GV	1/2" BULKHEAD FKM GASKET	1 3/8"		TF050SS	10
150G	1/2" & 3/4" BULKHEAD EPDM GASKET	1 5/8"	TF050 & TF075	TF075SS	25
150GV	1/2" & 3/4" BULKHEAD FKM GASKET	1 5/8"	TF050 & TF075	TF075SS	10
200G	2" BULKHEAD EPDM GASKET	2 1/4"	TF100 & TF125	TF100SS & TF125SS	25
200GV	2" BULKHEAD FKM GASKET	2 1/4"	TF100 & TF125	TF100SS & TF125SS	10
300G	1 1/2" & 2" BULKHEAD EPDM GASKET	3"	TF200 & TF150	TF200SS & TF150SS	25
300GV	1 1/2" & 2" BULKHEAD FKM GASKET	3"	TF200 & TF150	TF200SS & TF150SS	10
TF220G	2" BULKHEAD EPDM GASKET	3 1/4"	TF220	TF220SS	1
TF300G	3" BULKHEAD EPDM 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

PREVENTS SWIRL!



CAPS ANTI VORTEX VENT

FEATURES

- Masculino NPT
- Polipropileno reforçado com vidro
- 30 4 tela aço inoxidável

ANTI VORTEX VENT CAPS

PART NO	DESCRIPTION	BORE SIZE	BORE AREA	VENT AREA	LOT QTY
VC200	2" ANTI VORTEX VENT CAP WITHOUT SCREEN	2"	3.1 SQ IN	3.9 SQ IN	10
VC230	2" ANTI VORTEX VENT CAP W/12 MESH SS SCREEN	2"	3.1 SQ IN	3.9 SQ IN	10
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

FLANGAS TANQUE ANTI VORTEX



NDO PREVENDE SWIRL!



- CARACTERÍSTICAS
- Padrão com FKM
 - Impede redemoinho no fundo do tanque

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

FLANGAS ANSI

FEATURES

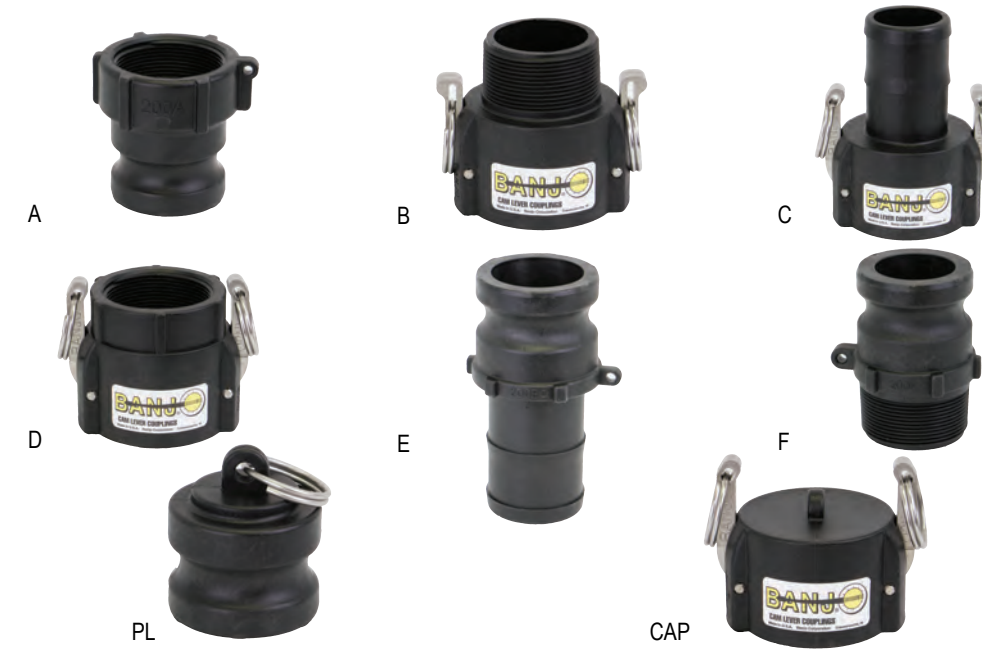
- Polipropileno reforçado com vidro
- Heavy duty



THREADED ANSI FLANGES		
PART NO	DESCRIPTION	LOT QTY
AF100	1" FEMALE THREADED ANSI FLANGE	10/BAG
AF150	1½" FEMALE THREADED ANSI FLANGE	10/BAG
AF200	2" FEMALE THREADED ANSI FLANGE	10
AF300	3" FEMALE THREADED ANSI FLANGE	5
AF400	4" FEMALE THREADED ANSI FLANGE	1

BLIND ANSI FLANGES		
PART NO	DESCRIPTION	LOT QTY
AFB200	2" BLIND ANSI FLANGE	10/BAG
AFB300	3" BLIND ANSI FLANGE	5

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
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



POLIPROPILENO CAM NAVEGAÇÃO DE ACOPLAMENTOS													
ITEM	DESCRIPTION	¼"	½"	¾"	1"	1¼"	1½" x 1¼"	1½"	2"	2½"	3"	3" ARMS	4" 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 BARB		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 BARB		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						

¼" SERIES POLY CAM LEVER COUPLINGS				
PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
75A1/4	¾" MALE ADAPTER X ¼" FEMALE THREAD	300	N/A	10/BAG

½" SERIES POLY CAM LEVER COUPLINGS				
PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
75A1/2	¾" MALE ADAPTER X ½" FEMALE THREAD	225	N/A	10/BAG
75B1/2	¾" FEMALE COUPLER X ½" MALE THREAD	300	EPDM	10/BAG
050C	¾" FEMALE COUPLER X ½" HOSE BARB	300	EPDM	10/BAG
050D	¾" FEMALE COUPLER X ½" FEMALE THREAD	300	EPDM	10/BAG
050E	¾" MALE ADAPTER X ½" HOSE BARB	300	N/A	10/BAG
050F	¾" MALE ADAPTER X ½" MALE THREAD	300	N/A	10/BAG
075CAP	¾" CAP X MALE ADAPTER	300	EPDM	10/BAG
75PL	¾" PLUG X FEMALE COUPLER	300	N/A	10/BAG

POLIPROPILENO ¼ "-4"

FEATURES

- Anéis do aço inoxidável, Braços e pinos • variável-intercambiáveis com todos os tipos de acoplamentos de alavanca cam • Precisão moldado-a um uniforme e preciso • Durável-o polipropileno é claramente reforçado para resistência robusta • Smooth Operação-Anéis de dedo São projetados para facilitar a abertura da cam dá • Econômico e superior no desempenho • peças devem ser encomendados no é quantificado. • ¼ "e ½" série acoplamentos intercâmbio com ¾ "tamanho acoplamentos. As extremidades do acoplamento são ¾ "tamanho. • 1 ¼" série acoplamentos intercâmbio com 1 "tamanho acoplamentos. As extremidades do acoplamento são 1 "tamanho. • 1 ½" x 1 ¼ "acoplamentos intercâmbio com 1 ½" acoplamentos do tamanho. As extremidades do acoplamento são 1 ½ "tamanho.



AVISO! Os acoplamentos não devem ser desconectados sob pressão ou com líquido na linha.

POLIPROPILENO ¼ "-4"

FEATURES

- Anéis do aço inoxidável, braços e pinos • variável-intercambiáveis com todos os tipos de acoplamentos de alavanca cam • Precisão moldada-a um uniforme e preciso • Durável-polipropileno é claramente reforçado para força robusta • Smoo operacional-anéis de dedo são projetados para fácil abertura do meu • Econômico e superior no desempenho • padrão com EPDM, Passes FKM podem ser encomendados separadamente na página 79 • peças devem ser encomendados em quantidades baixas. • ¼ ", " e ½ "acoplamentos série intercâmbio com ¾" Acoplamentos. As extremidades do acoplamento são ¾ "tamanho. • 1 ¼" série acoplamentos intercâmbio com 1 "tamanho acoplamentos. As extremidades do acoplamento são 1 "tamanho. • 1 ½" x 1 ¼ "acoplamentos troca m com 1 ½" acoplamentos do tamanho. As extremidades do acoplamento são 1 ½ "tamanho.



AVISO! Os acoplamentos não devem ser desconectados sob pressão ou com líquido na linha.

¾ "SÉRIE POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
75A3/4	¾" MALE ADAPTER X ¾" FEMALE THREAD	225	N/A	10/BAG
75B3/4	¾" FEMALE COUPLER X ¾" MALE THREAD	300	EPDM	10/BAG
075C	¾" FEMALE COUPLER X ¾" HOSE BARB	300	EPDM	10/BAG
075D	¾" FEMALE COUPLER X ¾" FEMALE THREAD	300	EPDM	10/BAG
075E	¾" MALE ADAPTER X ¾" HOSE BARB	300	N/A	10/BAG
075F	¾" MALE ADAPTER X ¾" MALE THREAD	300	N/A	10/BAG
075CAP	¾" CAP X MALE ADAPTER	300	EPDM	10/BAG
75PL	¾" PLUG X FEMALE COUPLER	300	N/A	10/BAG



1 "SÉRIE POLY CAM NAVEGAÇÃO DE ENGATOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT 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 BARB	300	EPDM	10/BAG
100D	1" FEMALE COUPLER X 1" FEMALE THREAD	300	EPDM	10/BAG
100E	1" MALE ADAPTER X 1" HOSE BARB	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 ¼ "SÉRIE POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
125A	1" MALE ADAPTER X 1¼" FEMALE THREAD	300	N/A	10/BAG
125B	1" FEMALE COUPLER X 1¼" MALE THREAD	300	EPDM	10/BAG
125C	1" FEMALE COUPLER X 1¼" HOSE BARB	300	EPDM	10/BAG
125D	1" FEMALE COUPLER X 1¼" FEMALE THREAD	300	EPDM	10/BAG
125E	1" MALE ADAPTER X 1¼" HOSE BARB	300	N/A	10/BAG
125F	1" MALE ADAPTER X 1¼" 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



250PL

1 ½ "X 1 ¼" SÉRIE POLY CAM ACOPLAMENTOS DE NAVEGAÇÃO

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
150125A	1½" MALE ADAPTER X 1¼" FEMALE THREAD	225	N/A	10/BAG
150125B	1½" FEMALE COUPLER X 1¼" MALE THREAD	300	EPDM	10
150125C	1½" FEMALE COUPLER X 1¼" HOSE BARB	300	EPDM	10
150125D	1½" FEMALE COUPLER X 1¼" FEMALE THREAD	300	EPDM	10
150125E	1½" MALE ADAPTER X 1¼" HOSE BARB	225	EPDM	10/BAG
150125F	1½" MALE ADAPTER X 1¼" MALE THREAD	300	N/A	10/BAG
150CAP	1½" CAP X MALE ADAPTER	300	EPDM	10
150PL	1½" PLUG X FEMALE COUPLER	225	N/A	10/BAG



1 ½ "SÉRIE POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
150A	1½" MALE ADAPTER X 1½" FEMALE THREAD	225	N/A	10/BAG
150B	1½" FEMALE COUPLER X 1½" MALE THREAD	300	EPDM	10
150C	1½" FEMALE COUPLER X 1½" HOSE BARB	300	EPDM	10
150D	1½" FEMALE COUPLER X 1½" FEMALE THREAD	300	EPDM	10
150E	1½" MALE ADAPTER X 1½" HOSE BARB	200	N/A	10/BAG
150F	1½" MALE ADAPTER X 1½" MALE THREAD	300	N/A	10/BAG
150CAP	1½" CAP X MALE ADAPTER	300	EPDM	10
150PL	1½" PLUG X FEMALE COUPLER	225	N/A	10/BAG



2" SERIES POLY CAM LEVER COUPLINGS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
200A	2" MALE ADAPTER X 2" FEMALE THREAD	225	N/A	10/BAG
200B	2" FEMALE COUPLER X 2" MALE THREAD	225	EPDM	10/BAG
201B	2" FEMALE COUPLER X 2" EXTENDED MALE THREAD	200	EPDM	10/BAG
200C	2" FEMALE COUPLER X 2" HOSE BARB	225	EPDM	10/BAG
200D	2" FEMALE COUPLER X 2" FEMALE THREAD	200	EPDM	10/BAG
200E	2" MALE ADAPTER X 2" HOSE BARB	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	10/BAG
200CAPSH	2" CAP X MALE ADAPTER W/SHORT ARMS	200	EPDM	10/BAG
200PL	2" PLUG X FEMALE COUPLER	225	N/A	10/BAG
M200A	2" FLANGE X 2" MALE ADAPTER	300	N/A	10/BAG
M220A	2" FP FLANGE X 2" MALE ADAPTER	225	N/A	10/BAG
M220D	2" FP FLANGE X FEMALE COUPLER	225	EPDM	10/BAG
M300A	3" FP FLANGE X 3" MALE ADAPTER	100	N/A	1
M303D	3" FP FLANGE X 3" FEMALE COUPLER W/3 ARMS	225	EPDM	10/BAG

2 "X 1 ½" SÉRIE POLY CAM ACOPLAMENTOS DE NAVEGAÇÃO

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
200150CAP	2" CAP X MALE ADAPTER	300	EPDM	10
200150PL	2" PLUG X FEMALE COUPLER	300	EPDM	10

2 ½ "SÉRIE POLY CAM NAVEGAÇÃO DE ENGATOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
250CAP	2 ½" CAP X MALE ADAPTER	300	EPDM	1 ½
250PL	2 ½" PLUG X FEMALE COUPLER	300	N/A	1

3 "SÉRIE POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT 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	10
303B200A	3" FEMALE COUPLER W/ 3 ARMS X 2" MALE ADAPTER	200	EPDM	10
300C	3" FEMALE COUPLER X 3" HOSE BARB	200	EPDM	1
303C	3" FEMALE COUPLER W/ 3 ARMS X 3" HOSE BARB	200	EPDM	10
300D	3" FEMALE COUPLER X 3" FEMALE THREAD	200	EPDM	1
300E	3" MALE ADAPTER X 3" HOSE BARB	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 "SÉRIE POLY CAM NAVEGAÇÃO DE ENGATOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT 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 BARB	150	EPDM	1
400D	4" FEMALE COUPLER X 4" FEMALE THREAD	100	EPDM	1
400E	4" MALE ADAPTER X 4" HOSE BARB	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

POLIPROPILENO ¼ "-4"

FEATURES

- Anéis do aço inoxidável, Braços e pinos • variável-intercambiáveis com todos os tipos de acoplamentos de alavanca de came • precisão moldada-e um uniforme e preciso • Durável-o polipropileno é claramente reforçado para força robusta • mm Operação -- Anéis de dedo São projetados para facilitar a abertura da came esquerda • Econômico e superior no desempenho • peças devem ser encomendados no é quantificado. • ¼ ", " e ½ "série acoplamentos intercâmbio com ¾" tamanho acoplamentos. As extremidades do acoplamento são ¾ "tamanho. • 1 ¼" série acoplamentos intercâmbio com 1 "tamanho acoplamentos. As extremidades do acoplamento são 1 "tamanho. • 1 ½" x 1 ¼ "acoplamentos intercâmbio com 1 ½" acoplamentos do tamanho. As extremidades do acoplamento são 1 ½ "tamanho.



AVISO! Os acoplamentos não devem ser desconectados sob pressão ou com líquido na linha.

POLIPROPILENO 1/4 "-4"

FEATURES

- Resistente a produtos químicos para proteger contra a corrosão
- Versátil para intercambiar com todos os tipos de acoplamentos de alavanca de came
- A operação suave torna as conexões rápidas e fáceis
- As peças devem ser encomendadas em quantidades de lote
- A alavanca do braço de bloqueio não se destina a ser usada como dispositivo de segurança ou impedir a abertura não autorizada do conjunto do acoplamento.



AVISO! Os acoplamentos não devem ser desconectados sob pressão ou com líquido na linha.

ACÇÃO FÁCIL
LOCKING LEVER!



BRAÇO DE BLOQUEIO COM PIN DE ANEL



1 1/2" - 2" SERIES LOCKING POLY CAM LEVER COUPLINGS

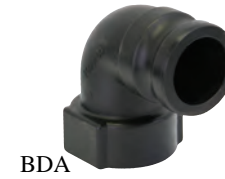
PART NO	DESCRIPTION	MAX PSI	GASKET	QTY
L200B	2" FEMALE COUPLER X 2" MALE THREAD	225	EPDM	1
L200C	2" FEMALE COUPLER X 2" HOSE BARB	225	EPDM	1
L200D	2" FEMALE COUPLER X 2" FEMALE THREAD	200	EPDM	1
L200CAP	2" CAP X MALE ADAPTER	200	EPDM	1

SPOOL ADAPTERS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
200FF	2" MALE ADAPTER X 2" MALE ADAPTER	150	N/A	10/BAG
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	LOT QTY
100RING	RING FITS 3/4" & 1"	10
150RING	RING FITS 1 1/2", 2", 3", 4"	10
150(200)K	1 1/2", 2" SS CAM ARM W/RING	1
300K	3" SS CAM ARM WITH RING	1
V20207	11" LANYARD	25
75G	1/2" & 3/4" EPDM GASKET	25
75GV	3/4" FKM GASKET	10
100G	1" & 1 1/4" EPDM GASKET	25
100GV	1" & 1 1/4" FKM GASKET	10
150G	1 1/2" EPDM GASKET	25
150GV	1 1/2" FKM GASKET	10
200G	2" EPDM GASKET	25
200GV	2" FKM GASKET	10
300G	3" EPDM GASKET	25
300GV	3" FKM GASKET	10
400G	4" EPDM GASKET	1
200KL	2" LOCKING CAM ARM WITH RING FITS 1 1/2" & 2"	1
200PKL	2" COUPLING PIN FITS 1 1/2" & 2"	1
200P	2" COUPLING PIN	1
300P	3" COUPLING PIN	1



1 1/2" 90° POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
150A90	1 1/2" 90° MALE ADAPTER X 1 1/2" FEMALE THREAD	225	N/A	10/BAG
150C90	1 1/2" 90° FEMALE COUPLER X 1 1/2" HOSE BARB	225	EPDM	10
150D90	1 1/2" 90° FEMALE COUPLER X 1 1/2" FEMALE THREAD	300	EPDM	10
150F90	1 1/2" 90° MALE ADAPTER X 1 1/2" MALE THREAD	300	N/A	10/BAG

2" SÉRIE 90° POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
200A90	2" 90° MALE ADAPTER X 2" FEMALE THREAD	225	N/A	10/BAG
200B90	2" 90° FEMALE COUPLER X 2" MALE THREAD	225	EPDM	10
200C90	2" 90° FEMALE COUPLER X 2" HOSE BARB	225	EPDM	10
200D90	2" 90° FEMALE COUPLER X 2" FEMALE THREAD	200	EPDM	10
200F90	2" 90° MALE ADAPTER X 2" MALE THREAD	225	N/A	10/BAG

2" 45° POLY CAM NAVEGAÇÃO DE ACOPLAMENTOS

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
200F45	2" 45° ADAPTADOR MACHO X 2" ROSCA MACHO	225	N/A	10/BAG

PART NO	DESCRIPTION	MAX PSI	GASKET	LOT QTY
M220ASWP90	2" FP FLANGE X MALE ADAPTER SWEEP	200	N/A	10/BAG
M300ASWP90	3" FP FLANGE X MALE ADAPTER SWEEP	100	N/A	1

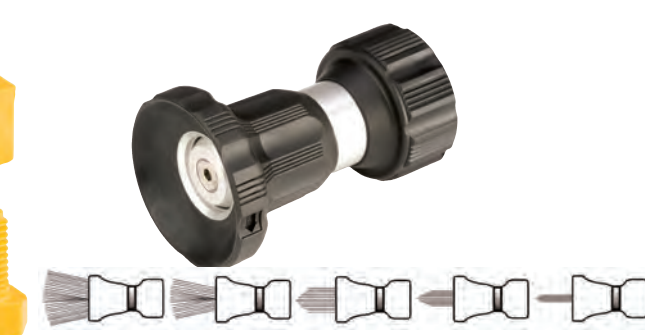


MANGELHAS DE JARDIM

PART NO	DESCRIPTION	MAX PSI	LOT 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	25

MANGELA DE JARDIM

PART NO	DESCRIPTION	MAX PSI	QTY
GHN075	3/4" GARDEN HOSE SPRAY NOZZLE	N/A	12



Spray nozzle patterns

1 1/2" - 2" POLIPROPILENO 90° e 45°

FEATURES

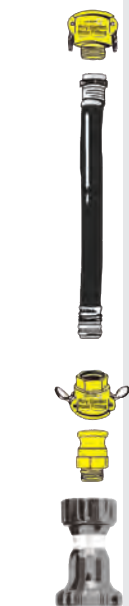
- Precisão moldada em polipropileno, reforçada com fibra de vidro para resistência
- Anéis de aço inoxidável, braços e pinos resistem à corrosão
- 90° acoplamentos angulares e adaptadores reduzirá o número de cotovelos e outros acessórios para tubos usados em encanamento applications



AVISO! Acoplamentos não devem ser desconectados sob pressão ou com o líquido na linha.

MANGELA DE JARDIM & BAROLA

- A mesma construção e design que os agricultores usam para suas aplicações de pulverização pesada
- Braços de came de conexão rápida robustos e seguros
- Polipropileno reforçado de parede espessa resistente
- Construção comprovada e sem vazamentos
- Projeto de fluxo total



CARACTERÍSTICAS

- Construção de alumínio usinado resistente resiste ao uso duro
- Borracha macia do aperto do conforto
- Resiste amassados, marte e arranhões; protege qualquer superfície que entra em contato com o bocal
- Conexão de mangueira de alumínio fornece um ajuste apertado, Não enferruja
- Padrão de pulverização múltipla ajusta de uma poderosa corrente de jato para um spray ventilador suave. Ideal para todas as necessidades de pulverização
- Tampa de aço inoxidável para padrões precisos de pulverização

SUPER CLAMPS

FEATURES

- Construção de aço inoxidável
- 304 parafuso de aço inoxidável 316 com porca de aço inoxidável para evitar a apreensão
- 3 60° superfície de vedação
- Ideal para aplicações de alto torque
- Forte, conexões positivas onde grampos de mangueira comuns falham
- Projeto T-parafuso
- 3 soldas ponto de força extra
- Vendido em sacos de 10 apenas
- Especificações de torque: Trabalhar do torque 50-80 polegadas libras, torque máximo 125 polegadas libras
- Por favor, note novas medidas Min-Max Diâmetro.



SUPER CLAMPS				
PART NO	DESCRIPTION	MIN-MAX DIAMETER	MAX TORQUE	LOT QTY
TC120	1" T-BOLT HOSE CLAMP	1.18"-1.34"	75 IN-LBS	10/BAG
TC130	1 1/4" T-BOLT HOSE CLAMP	1.34"-1.50"	75 IN-LBS	10/BAG
TC150	1 1/2" T-BOLT HOSE CLAMP	1.50"-1.62"	75 IN-LBS	10/BAG
TC162	1 1/4" T-BOLT HOSE CLAMP	1.59"-1.87"	75 IN-LBS	10/BAG
TC181	1 1/2" T-BOLT HOSE CLAMP	1.84"-2.12"	75 IN-LBS	10/BAG
TC193	1 1/2" T-BOLT HOSE CLAMP	1.90"-2.24"	75 IN-LBS	10/BAG
TC206	2" T-BOLT HOSE CLAMP	2.16"-2.40"	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"-2.84"	75 IN-LBS	10/BAG
TC287	2" T-BOLT HOSE CLAMP	2.87"-3.18"	75 IN-LBS	10/BAG
TC312	3" T-BOLT HOSE CLAMP	3.28"-3.50"	75 IN-LBS	10/BAG
TC331	3" T-BOLT HOSE CLAMP	3.31"-3.70"	75 IN-LBS	10/BAG
TC343	3" T-BOLT HOSE CLAMP	3.50"-3.89"	75 IN-LBS	10/BAG
TC425	4" T-BOLT HOSE CLAMP	4.25"-4.64"	75 IN-LBS	10/BAG
TC438	4" T-BOLT HOSE CLAMP	4.38"-4.69"	180 IN-LBS	10/BAG
TC456	4" T-BOLT HOSE CLAMP	4.56"-4.87"	180 IN-LBS	10/BAG

APARTAMENTOS DE TUBOS

FEATURES

- Polipropileno reforçado com vidro
- Heavy duty (Schedule 80)
- Leve com excelente resistência
- NPT threads
- Excelente resistência química
- As peças devem ser encomendadas em quantidades de lote.



NIPPLES			
PART NO	DESCRIPTION	MAX PSI	LOT 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	10/BAG
NIP300-4	3" X 4" POLY NIPPLE	300	10/BAG
NIP300-6	3" X 6" POLY NIPPLE	300	10/BAG
NIP400-SH	4" SHORT POLY NIPPLE	300	10/BAG



REDUCING NIPPLES			
PART NO	DESCRIPTION	MAX PSI	LOT 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	LOT 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	5



REDUCING COUPLINGS			
PART NO	DESCRIPTION	MAX PSI	LOT 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	5



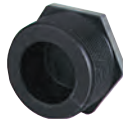
Buchas Redutoras			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
RB038-025	1/4" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB050-038	3/8" FPT REDUCING BUSHING	300	10/BAG 1/2" MPT X 1/4"
RB050-018	1/2" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB050-025	5/8" FPT REDUCING BUSHING	300	10/BAG 3/4" MPT X 1/4"
RB050-038	3/4" FPT REDUCING BUSHING	300	10/BAG 3/4" MPT X 1/4"
RB075-025	1" FPT REDUCING BUSHING	300	10/BAG 3/4"
RB075-038	1 1/4" FPT REDUCING BUSHING	300	10/BAG 3/4" MPT X 1/2"
RB075-050	1 1/2" FPT REDUCING BUSHING	300	10/BAG 1/4"
RB100-018	1" MPT X 1/2" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB100-025	1" MPT X 3/8" FPT REDUCING BUSHING	300	10/BAG 3/4"
RB100-075	1" MPT X 1" FPT REDUCING BUSHING	300	10/BAG 3/4"
RB125-038	1 1/4" MPT X 3/8" FPT REDUCING BUSHING	300	10/BAG 1/4"
RB125-100	1 1/2" MPT X 1" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB125-075	1 1/4" MPT X 3/4" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB150-075	1 1/2" MPT X 1" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB150-100	1 1/2" MPT X 1 1/4" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB150-125	1 1/2" MPT X 1 1/2" FPT REDUCING BUSHING	300	10/BAG 3/4"
RB200-075	2" MPT X 1 1/4" FPT REDUCING BUSHING	300	10/BAG 1/4"
RB200-100	2" MPT X 1 1/2" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB200-150	2" MPT X 1 1/2" FPT REDUCING BUSHING	300	10/BAG 1/2"
RB300-150	3" MPT X 2" FPT REDUCING BUSHING	300	1
RB400-300	4" MPT X 3" FPT REDUCING BUSHING	300	5

FEATURES

- Polipropileno reforçado com vidro
- Heavy duty (Schedule 80)
- Leve com excelente resistência
- NPT threads
- Excelente resistência química
- As peças devem ser encomendadas em quantidades de lote.



PIPE CAPS			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
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	5



PIPE PLUGS			
PART NO	DESCRIPTION	MAX PSI	LOT 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	LOT QTY
HBC050075	1/2" X 3/4" HOSE BARB CROSS	300	10/BAG



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



TEES			
PART NO	DESCRIPTION	MAX PSI	LOT 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	10/BAG
TEE200	2" POLY TEE	300	10
TEE300	3" POLY TEE	225	1



GAUGE PORT TEE			
PART NO	DESCRIPTION	MAX PSI	LOT 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	LOT 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	10/BAG
EL300-90	3" 90° POLY ELBOW	300	1



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



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



45° STREET ELBOWS			
PART NO	DESCRIPTION	MAX PSI	LOT 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	5



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



90° HOSE BARB ELBOW			
PART NO	DESCRIPTION	MAX PSI	LOT 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	10/BAG

FEATURES

- Polipropileno reforçado com vidro
- Heavy duty (Schedule 80)
- Leve com excelente resistência
- NPT threads
- Excelente resistência química
- As peças devem ser encomendadas em quantidades de lote.

MINI T CORANTES

FEATURES

- Heavy duty vidro polipropileno reforçado
- Taça transparente de policarbonato
- Taça preta de polipropileno
- Polipropileno com nervuras 316
- Telas de aço inoxidável
- EPDM juntas
- Telas codificadas por cores convenientes para fácil identificação do tamanho de malha (Consulte gráfico na próxima página)



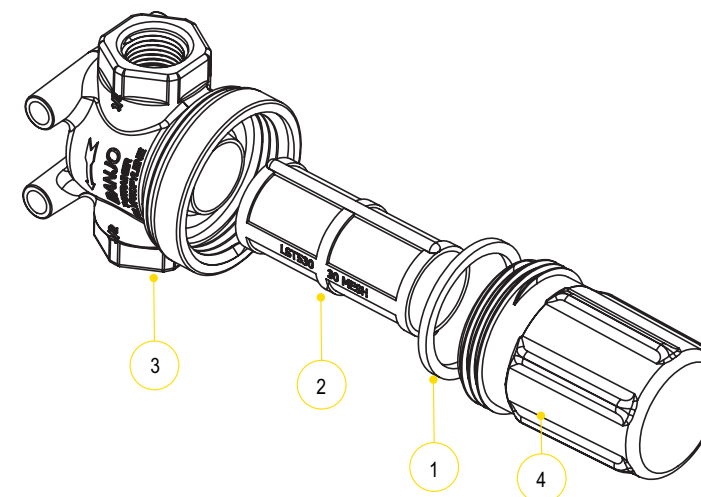
MINI T STRAINERS W/CLEAR BOWLS

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
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



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
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



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

MINI T STRAINERS

SCREENS

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

MISSÕES ¾" - 1 ½" T

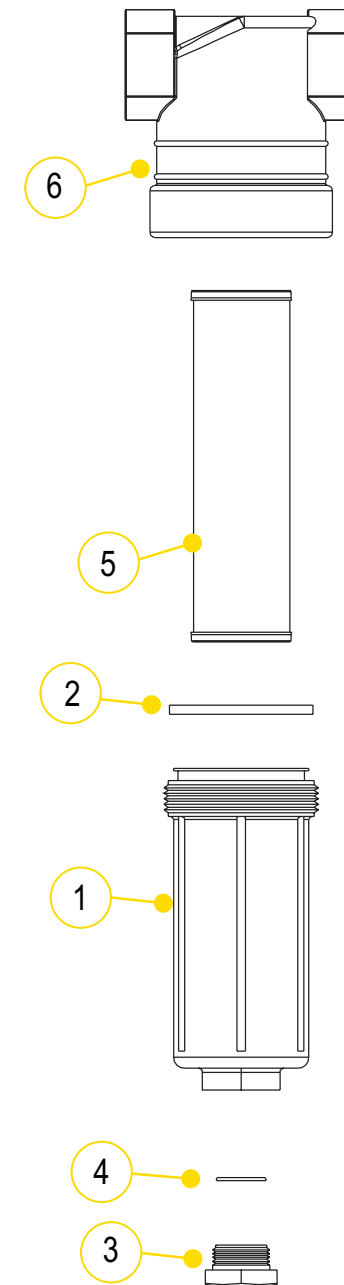
FEATURES

- Polipropileno reforçado com vidro resistente
- Limpar plug
- Polipropileno com nervuras
- 316 telas de aço inoxidável
- EPDM juntas padrão, FKM disponível
- Telas codificadas por cores convenientes para fácil identificação do tamanho de malha (Consulte o gráfico na próxima página)



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

1 ¼"-1 ½" T STRAINERS				
PART NO	DESCRIPTION	MAX PSI	QTY	
LST125-16	1 ¼" X 1 ¼" FP T STRAINER W/16 MESH SS SCREEN	300	1	
LST125-30	1 ¼" X 1 ¼" FP T STRAINER W/30 MESH SS SCREEN	300	1	
LST125-50	1 ¼" X 1 ¼" FP T STRAINER W/50 MESH SS SCREEN	300	1	
LST125-80	1 ¼" X 1 ¼" FP T STRAINER W/80 MESH SS SCREEN	300	1	
LST150-30	1 ½" X 1 ½" T STRAINER W/30 MESH SS SCREEN	300	1	
LST150-50	1 ½" X 1 ½" T STRAINER W/50 MESH SS SCREEN	300	1	
LST150-80	1 ½" X 1 ½" T STRAINER W/80 MESH SS SCREEN	300	1	
LST150-100	1 ½" X 1 ½" T STRAINER W/100 MESH SS SCREEN	300	1	



REPLACEMENT PARTS			
ITEM	PART NO	DESCRIPTION	QTY
1	LST100-B	¾" & 1" BOWL (CONTAINS #1, #3, #4)	1
2	LST100-G	¾" & 1" EPDM GASKET	1
2	LST100-GV	¾" & 1" FKM GASKET	1
3	12777	½" 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	¾" STRAINER HEAD	1
6	LST100-H	1" STRAINER HEAD	1
N/S	LST075-HB	¾" 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 ¼" & 1 ½" BOWL (CONTAINS #1, #3, #4)	1
2	LST150-G	1 ¼" & 1 ½" EPDM GASKET	1
2	LST150-GV	1 ¼" & 1 ½" 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	N/A	1 ¼" STRAINER HEAD	1
N/S	LST125-HB	1 ¼" STRAINER HEAD, BOWL & GASKET	1
N/S	LST150-HB	1 ½" 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

¾"-1 ½" T 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

LINE STRAINERS

LINE STRAINERS

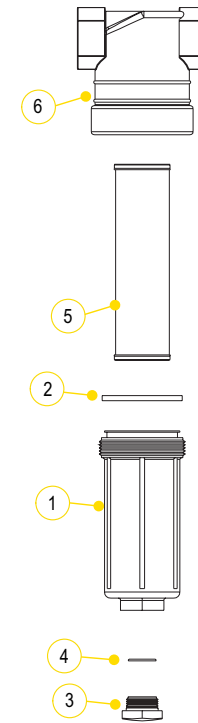
2" T ALIENTES POLY/CO
MBO INOXIDÁVEL

FEATURES

- Heavy duty vidro reforçado polipropileno tigela
- 316 cabeça de aço inoxidável
- Limpar plug • 316 aço inoxidável telas
- FKM juntas



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
LST200-50SS	2" X 2" T STRAINER (SS HEAD & POLY BODY) W/50 MESH SCREEN	300	1



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	LST220SS	20 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

2" T ALIENTES POLY/CO
MBO INOXIDÁVEL

ALIENTES LSQ

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

ALIENTES LSQ

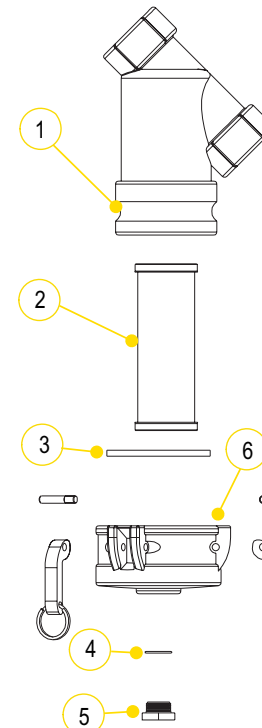
CARACTERÍSTICAS

- Precisão moldada em poli propileno reforçado vidro
- Con figuração de alavanca de came para fácil acesso para limpeza e manutenção
- 3/4" plug in cap alavanca para anexar válvula de esfera para drenagem ou volta rubor
- Poli nervurado 316 aço inoxidável tela
- Torno EPDM cortar junta
- Para transporte mais rápido, Ordem em quantidades da caixa
- Telas codificadas por cores convenientes para fácil identificação do tamanho da malha (Consulte o gráfico na próxima página)



1 1/2" LSQ STRAINERS			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
LSQ150-B/C	1 1/2" X 1 1/2" LSQ STRAINER BODY/CAP	N/A	1

2" LSQ STRAINERS			
PART NO	DESCRIPTION	MAX PSI	LOT QTY
LSQ200-06	2" X 2" LSQ STRAINER W/6 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



REPLACEMENT PARTS			
ITEM	PART NO	DESCRIPTION	QTY
1	N/A	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	LSQ150-B/C	1 1/2" X 1 1/2" LSQ STRAINER BODY/CAP	1
3	LSQ200-G	2" EPDM GASKET	1
3	LSQ200-GV	2" FKM GASKET	1
4	LSQ200R1	O-RING	1
5	N/A	3/4" CLEAN OUT PLUG	1
6	LSQ200-C	2" CAP (CONTAINS #3-6)	1
N/S	LSQ200-B/C	2" BODY/CAP (CONTAINS #1, 3-6)	1

STANDARD MESHES & DATA											
	6 MESH	8 MESH	10 MESH	12 MESH	16 MESH	20 MESH	30 MESH	50 MESH	80 MESH	100 MESH	120 MESH
MICRONS	3360	2380	2000	1680	1190	841	595	297	177	149	116
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

MALAS ½ " -1 ¼ " Y

MALAS ½ " -1 ¼ " Y

FEATURES

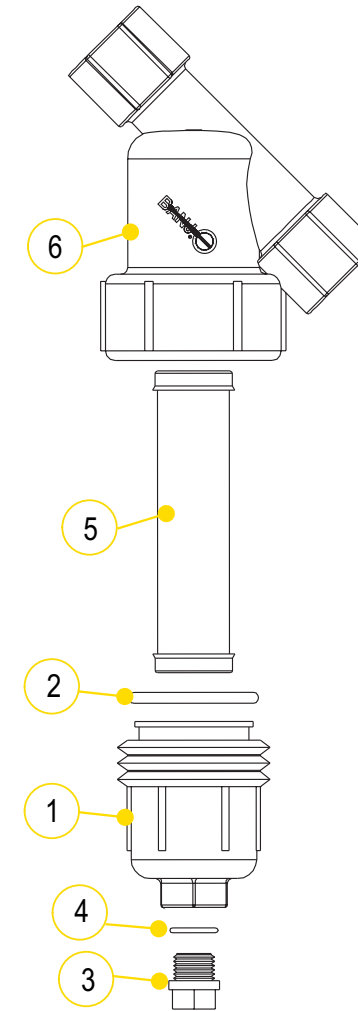
- Heavy duty polipropileno reforçado vidro
- Resistente à corrosão
- Fácil aderência final cap
- Heavy duty final cap tópicos
- Limpar plug
- Polipropileno com nervuras 316 telas de aço inoxidável
- EPDM juntas
- Conveniente cores codificadas telas para fácil identificação do tamanho de malha (consulte o gráfico na próxima página)



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



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



REPLACEMENT PARTS			
ITEM	PART NO	DESCRIPTION	QTY
1	N/A	½"-¾" END CAP (CONTAINS #1, #3, #4)	1
2	LS075-G	½"-¾" O-RING	1
3	12723	¼" DRAIN PLUG (FITS ½"-¾")	1
4	12724	½"-¾" EPDM O-RING FOR DRAIN PLUG	1
5	LS720	½"-¾" 20 MESH SCREEN	1
5	LS740	½"-¾" 40 MESH SCREEN	1
5	LS780	½"-¾" 80 MESH SCREEN	1
6	N/A	¾" Y BODY	1
N/S	LS050B/C1	½" Y BODY, CAP & GASKET	1
N/S	LS075B/C1	¾" Y BODY, CAP & GASKET	1

REPLACEMENT PARTS			
ITEM	PART NO	DESCRIPTION	QTY
1	LS100-C1	1"-1¼" END CAP (CONTAINS #1, #3, #4)	1
2	LS100-G	1"-1¼" O-RING	1
2	LS100-GV	1"-1¼" FKM GASKET	1
3	12777	½" PLUG (FITS 1"-1¼")	1
4	UV15163	EPDM O-RING FOR DRAIN PLUG	1
4	UV15163V	FKM O-RING FOR DRAIN PLUG	1
5	LS120	1"-1¼" 20 MESH SCREEN	1
5	LS140	1"-1¼" 40 MESH SCREEN	1
5	LS180	1"-1¼" 80 MESH SCREEN	1
6	N/A	1" Y BODY	1
6	N/A	1¼" Y BODY	1
N/S	LS100B/C1	1" Y BODY, CAP & GASKET	1
N/S	LS125B/C1	1¼" 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 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	116
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

1 1/2 "-2" Y ALIJADORES

FEATURES

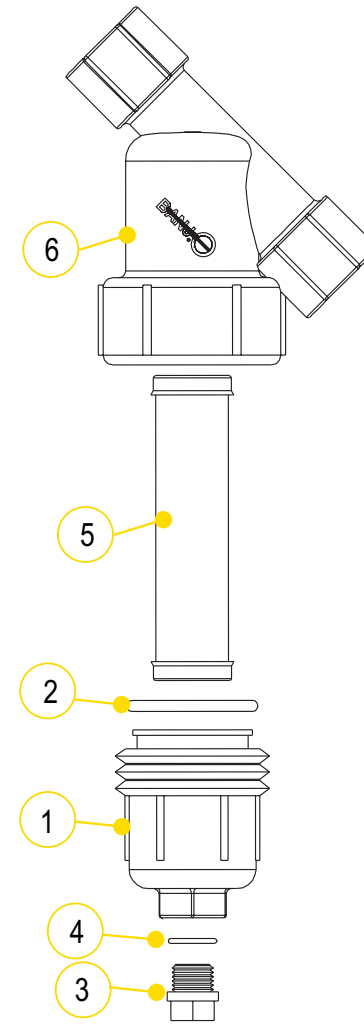
- Heavy duty polipropileno reforçado vidro
- Resistente à corrosão
- Fácil aderência final cap
- Heavy duty final cap tópicos
- Limpar plug
- Polipropileno com nervuras 316 telas de aço inoxidável
- EPDM juntas
- Conveniente cores codificados telas para fácil identificação do tamanho de malha (consulte o gráfico na próxima página)



1 1/2" Y STRAINERS			
PART NO	DESCRIPTION	MAX PSI	QTY
LS150-06	1 1/2" X 1 1/2" Y STRAINER W/6 MESH SS SCREEN	150	1
LS150-12	1 1/2" X 1 1/2" Y STRAINER W/12 MESH SS SCREEN	150	1
LS150-20	1 1/2" X 1 1/2" Y STRAINER W/20 MESH SS SCREEN	150	1
LS150-30	1 1/2" X 1 1/2" Y STRAINER W/30 MESH SS SCREEN	150	1
LS150-50	1 1/2" X 1 1/2" Y STRAINER W/50 MESH SS SCREEN	150	1
LS150-80	1 1/2" X 1 1/2" Y STRAINER W/80 MESH SS SCREEN	150	1
LS150-120	1 1/2" X 1 1/2" Y STRAINER W/120 MESH SS SCREEN	150	1



2" Y STRAINERS			
PART NO	DESCRIPTION	MAX PSI	LOT 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	5
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



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

1 1/2 "-2" Y ALIJADORES

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 MESHES & 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	116
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

3 "Y ALIJADORES

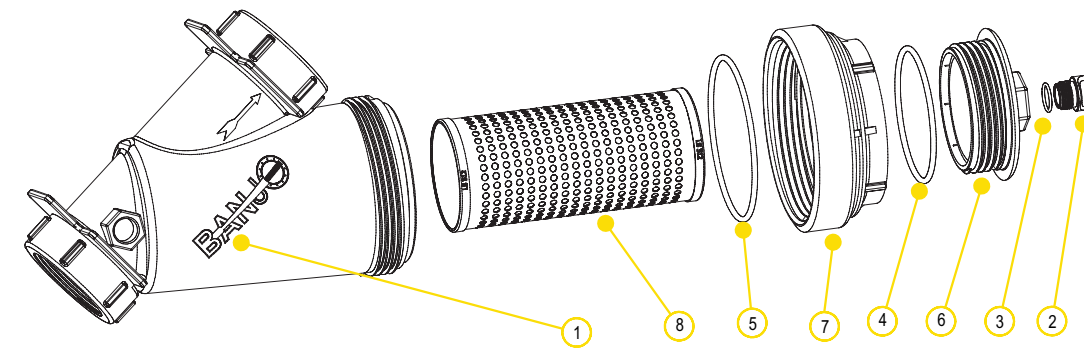
FEATURES

- Heavy duty vidro polipropileno reforçado
- Resistente à corrosão
- Alto volume
- Heavy duty final cap threads
- ½" limpar plug
- 304 aço inoxidável telas
- EPDM juntas
- Aviso: para ser usado no lado de sucção ou lado sem pressão em todas as aplicações



3" Y STRAINERS

PART NO	DESCRIPTION	MAX PSI	LOT QTY
LSM300-04	3" X 3" Y STRAINER W/4 MESH SCREEN	75	1
LSM300-08	3" X 3" Y STRAINER W/8 MESH SCREEN	75	1
LSM300-12	3" X 3" Y STRAINER W/12 MESH SCREEN	75	1
LSM300-20	3" X 3" Y STRAINER W/20 MESH SCREEN	75	1
LSM300-50	3" X 3" Y STRAINER W/50 MESH SCREEN	75	1



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	MLS300B1	3" BODY	1
2	13777	¾" 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
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 ALIJADORES

- 304 stainless steel screens

AÇO INOXIDÁVEL DE 3 "Y

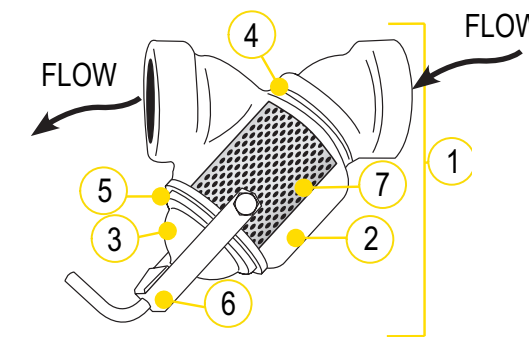
CARACTERÍSTICAS

- Aço inoxidável resistente
- Resistente à corrosão
- Alto volume
- Tampão final resistente fios
- ½" limpar plug
- 304 telas de aço inoxidável
- juntas EPDM padrão, FKM disponível
- Pressão máxima de operação 225 psi
- Aviso: para ser usado no lado de sucção ou sem pressão em todas as aplicações



3" Y STRAINERS

PART NO	DESCRIPTION	QTY
LSS300-BC	3" SS BODY, CAP & GASKETS	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



REPLACEMENT PARTS

ITEM	PART NO	DESCRIPTION	QTY
1	LSS300-BC	3" SS BODY, CAP & GASKETS	1
2	N/A	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

AÇO INOXIDÁVEL DE 3 "Y

- 304 telas do aço inoxidável

PUMP ACCESSORIES
PAGES 95

SUCTION BASKET STRAINERS
BASE PLATES

2" POLY PUMPS
PAGES 96 - 109

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

3" POLY PUMPS
PAGES 110- 119

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

1½" & 2" CAST IRON PUMPS
PAGES 120 - 127

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

**2" CAST IRON 222
SERIES PUMPS**
PAGES 128- 131

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

3" CAST IRON PUMPS
PAGES 132 - 137

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

**3" CAST IRON 333
SERIES PUMPS**
PAGES 138 - 139

GAS ENGINE PUMPS
PUMP ONLY/ BEARING PEDESTAL
ELECTRIC MOTOR DRIVEN

**3" CAST IRON MANIFOLD WET
SEAL M332 SERIES PUMPS**
PAGES 140 - 143

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

**4" CAST IRON 444
SERIES PUMPS**
PAGES 144 - 145

GAS ENGINE PUMPS
PUMP ONLY

**2" & 3" STAINLESS STEEL
PUMPS**
PAGES 146- 153

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

CORRETORES DE CESTA DE SU

CARACTERÍSTICAS

- Feito de polietileno • Evita o entupimento e danos à bomba durante a sucção de córregos ou lagoas.



SUCTION BASKET STRAINERS

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

MONTAGEM DE PLACAS DE BA

CARACTERÍSTICAS

- Ajuste universal para 1½", 2" e 3" polipropileno ou ferro fundido bombas



BASE PLATE ASSEMBLY

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

2 "BOMBAS POLY

FEATURES

- Construção moldada de precisão • Leve • Resistente à corrosão • Design superior • Baixa manutenção • Padrão EPDM, FKM disponível • Garantia do motor disponível na Briggs & Stratton autorizada e Honda revendedores



2" POLY PUMPS W/GAS ENGINES					
PART NO	DESCRIPTION	HP	QTY	SKID	QTY
200PH-5	2" POLY PUMP W/5.5 HP HONDA® ENGINE	5.5	1	12	
200PH-5E	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1	12	
200PH-5V	2" POLY PUMP W/5.5 HP HONDA® ENGINE W/FKM & 316 SS SEAL	5.5	1	12	
200PH6	2" POLY PUMP W/6.5 HP HONDA® ENGINE	6.5	1	12	
200P6PRO	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1	12	
200P6PROE	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START	6.5	1	12	
200P6PROV	2" POLY PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/FKM & 316 SS SEAL	6.5	1	12	



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRITAR OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

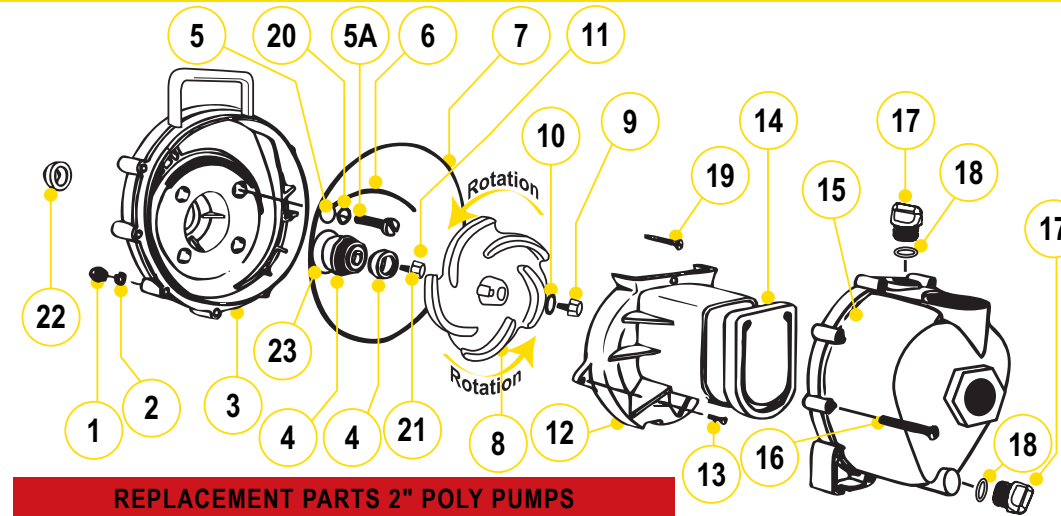


2" POLY PUMP BEARING PEDESTALS					
PART NO	DESCRIPTION	HP	QTY	SKID	QTY
200PB	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 3 VANE IMPELLER	N/A	1	18	
205PB	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 5 VANE IMPELLER	N/A	1	18	
205PB-V	2" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 5 VANE IMPELLER W/FKM & 316 SS SEAL	N/A	1	18	



2" POLY PUMP ONLYS					
PART NO	DESCRIPTION	HP	QTY	SKID	QTY
200PO	2" POLY PUMP ONLY* W/ 3 & 5 VANE IMPELLER	N/A	1	27	
200PO-V	2" POLY PUMP ONLY* W/ 3 & 5 VANE IMPELLER W/FKM & 316 SS SEAL	N/A	1	27	

Note: Requires 3/4" shaft on motor



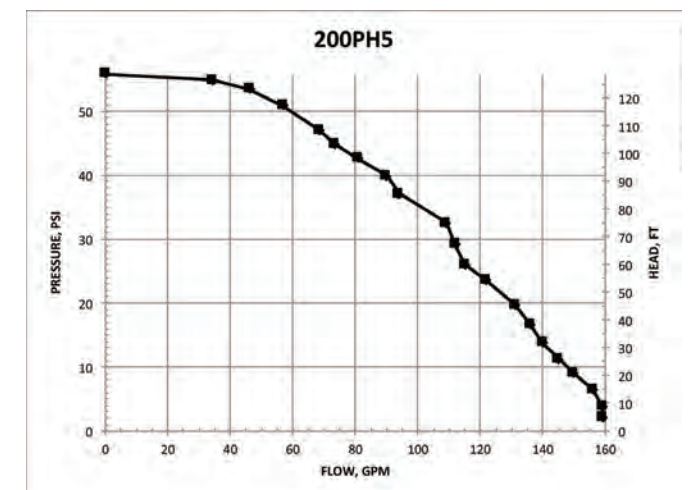
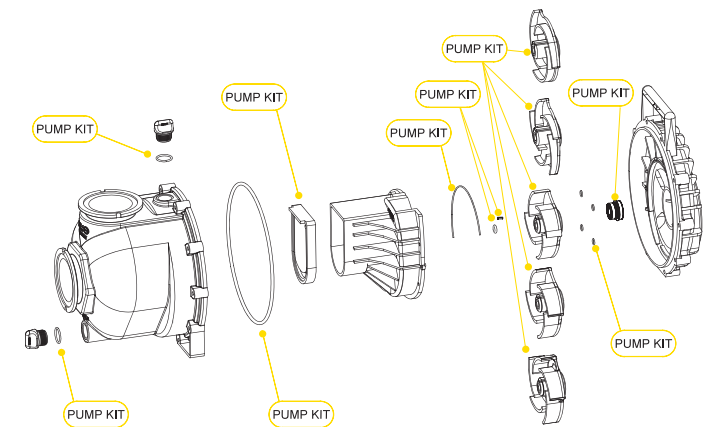
REPLACEMENT PARTS 2" POLY PUMPS

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	1
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	POLY PUMP EPDM REPAIR KIT (ITEMS 4-8, 10, 14, 18, 21-23 & 12099)	1
KIT	12000AV	POLY PUMP FKM REPAIR KIT (ITEMS 4-8, 10, 14, 18, 21-23 & 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

2" POLY PUMPS

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	12000A	12999A
205PB	12000A	12999A
205PB-V	12000AV	12999AV
200PO	12000A	12999A
200PO-V	12000AV	12999AV

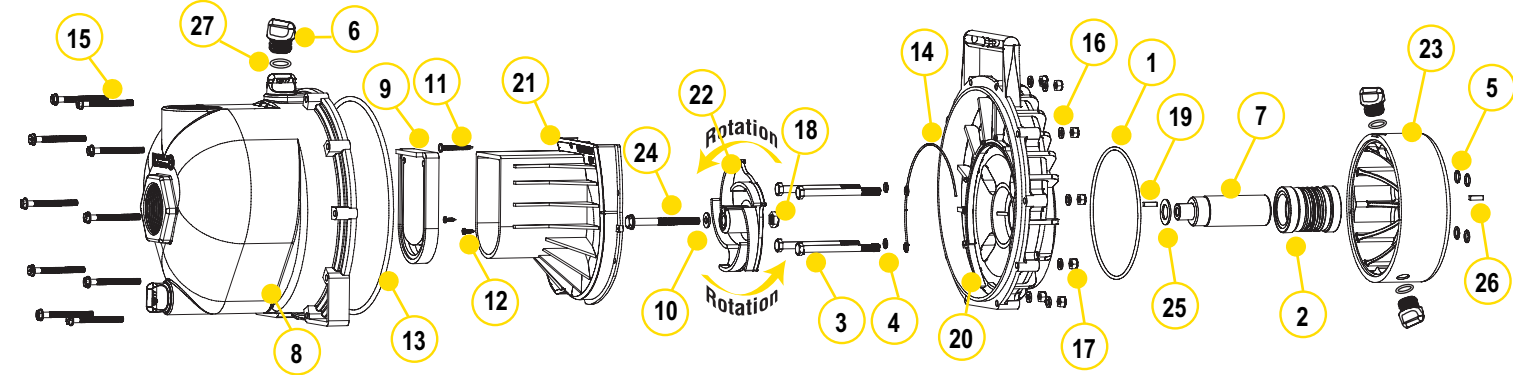
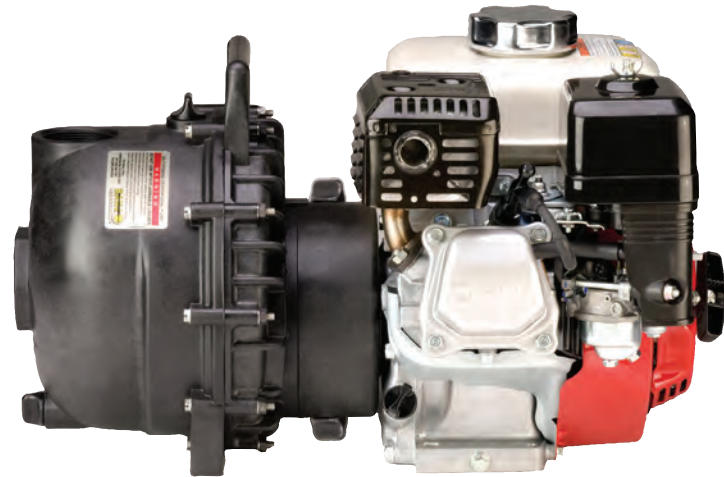


CENTRIFUGAL PUMPS

CENTRIFUGAL PUMPS

2 "BOMBAS DE SELO POLY WET • Executar capacidade seca • Selo duplo contido no reservatório de etileno glicol. Carbono selo de cerâmica enfrenta com copo de aço inoxidável e mola com borraça EPDM. • extremidade da bomba separada do motor • V-shaped para priming mais rápido • Serviço de garantia do motor disponível no autorizado Briggs & Stratton® e Honda® revendedores

2 "BOMBAS DE SELO POLY WE



2" POLY WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PH5W	2" POLY WET SEAL PUMP W/5.5 HP HONDA® ENGINE	5.5	1	12

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

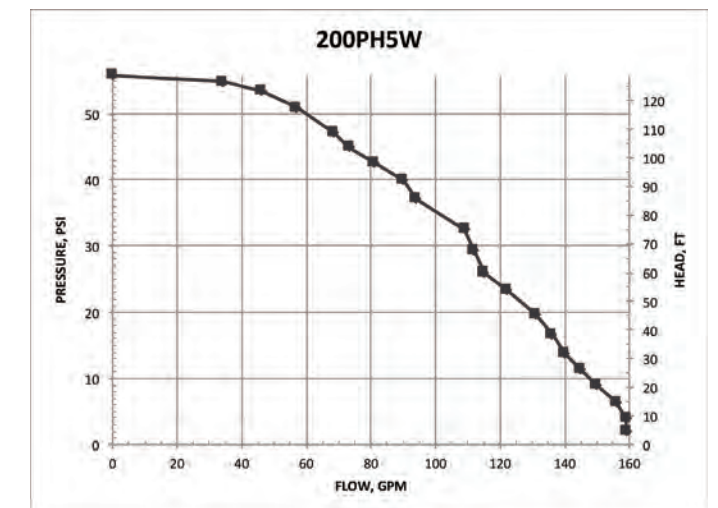


AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



2" POLY WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
205POW	2" POLY WET SEAL PUMP ONLY, 5 VANE IMPELLER WITH EPDM SEALS	N/A	1	27

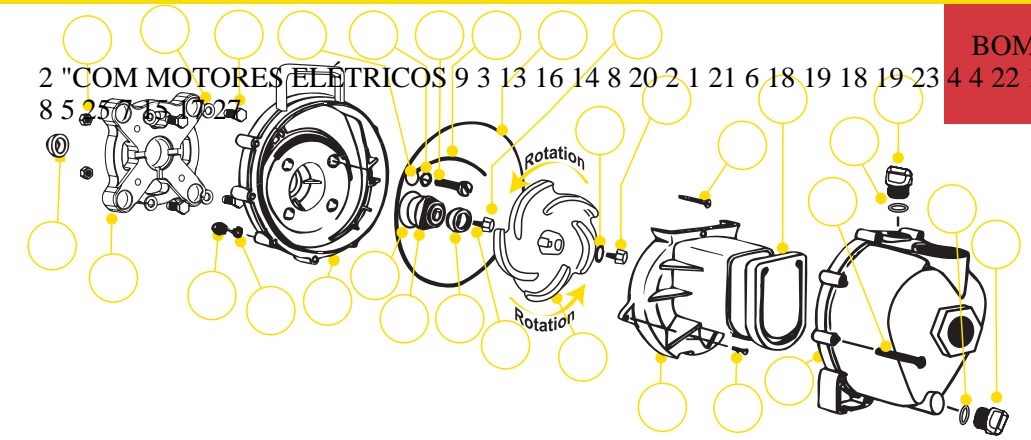
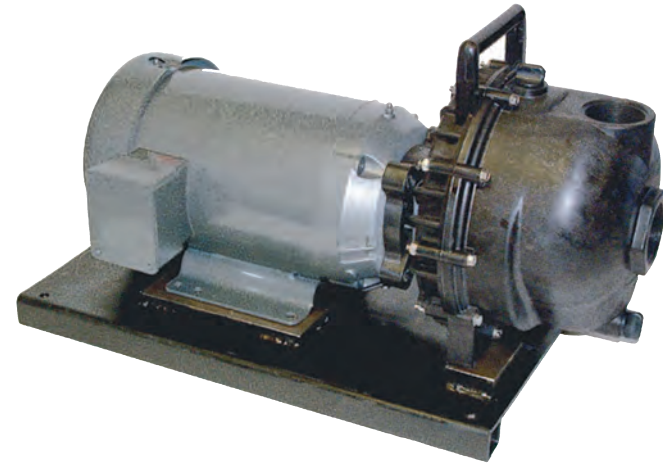


2 "BOMBAS POLY COM MOTORES ELÉTRICOS

BOMBAS POLI DE

FEATURES

- • Proteção adicional da unidade de acionamento com espaçador 1" adicionado para proteção máxima
- O "Super Slinger" incluído para ainda mais proteção da unidade de acionamento (não montado)

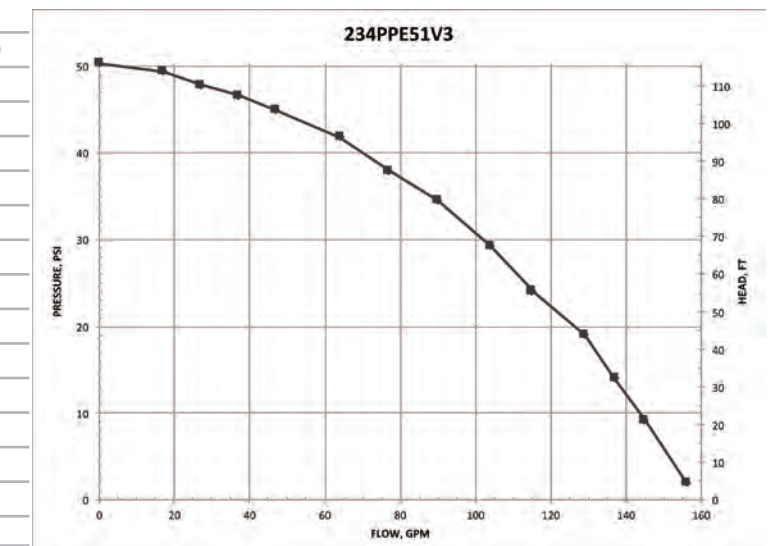


2" POLY PUMPS W/ELECTRIC MOTORS				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
234PPE5	2" POLY PUMP W/5 HP THREE PHASE ELECTRIC MOTOR W/ EPDM ELASTOMERS	5	1	3
234PPE5V	2" POLY PUMP W/5 HP THREE PHASE ELECTRIC MOTOR W/FKM ELASTOMERS	5	1	3
234PPE51	2" POLY PUMP W/5 HP SINGLE PHASE ELECTRIC MOTOR W/ EPDM ELASTOMERS	5	1	3
234PPE51V	2" POLY PUMP W/5 HP SINGLE PHASE ELECTRIC MOTOR W/FKM ELASTOMERS	5	1	3

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	N/A	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	N/A	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
NS	BEM5-182CZ	5 HP, 182CZ, 3 PH	1
NS	BEM51-182CZ	5 HP, 182CZ, 1 PH	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	POLY PUMP EPDM REPAIR KIT (ITEMS 4, 5, 7, 8, 9, 11, 15, 19, 22-23 & 12099)	1
KIT	12000AV	POLY PUMP FKM REPAIR KIT (ITEMS 4, 5, 7, 8, 9, 11, 15, 19, 22-23 & 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



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRITAR OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

CENTRIFUGAL PUMPS

BOMBAS POLY DE 2" COM MOTORES HIDRÁULICOS

FEATURES

- Construção moldada de precisão
- Leve
- Resistente à corrosão
- Baixa manutenção
- Capacidade de fluido hidráulico é mínimo 6 galões e máximo 10 galões
- Sistema aberto ou fechado
- 3600 RPM
- Recomendação para usar a válvula de controle do carter do motor ou um equivalente adequado-A. A falta de tal válvula neste circuito pode causar falha no motor hidráulico e anular a garantia.



2" POLY PUMPS W/HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PHA	2" POLY PUMP WITHOUT HYDRAULIC MOTOR	N/A	1	27
200PHY	2" POLY PUMP W/12 HP HYDRAULIC MOTOR	12.0	1	18
200PHYW	2" POLY WET SEAL PUMP W/12 HP HYDRAULIC MOTOR	12.0	1	18

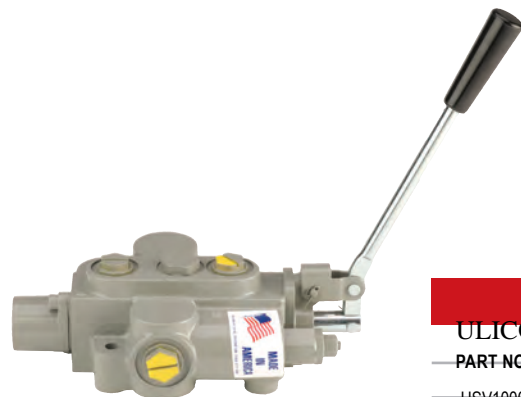
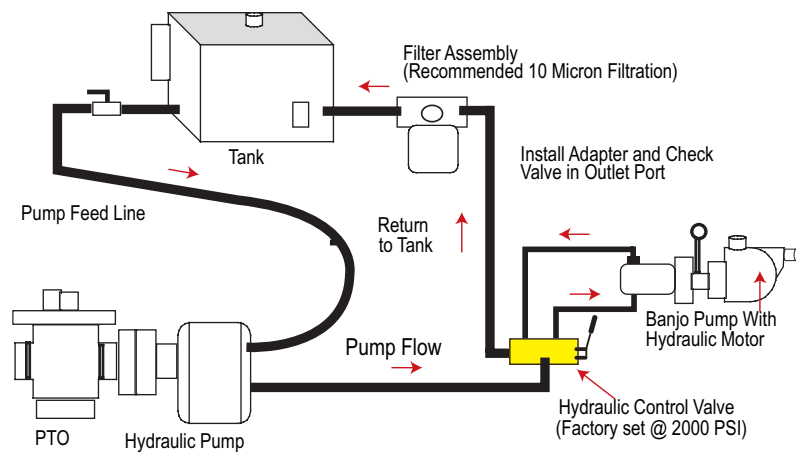


AVISO! NÃO FUNÇA A BOMBA SECA, RESTRITO OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CAÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

DIAGRAMA DE MONTAGEM DE VÁLVULA DE SPOOL

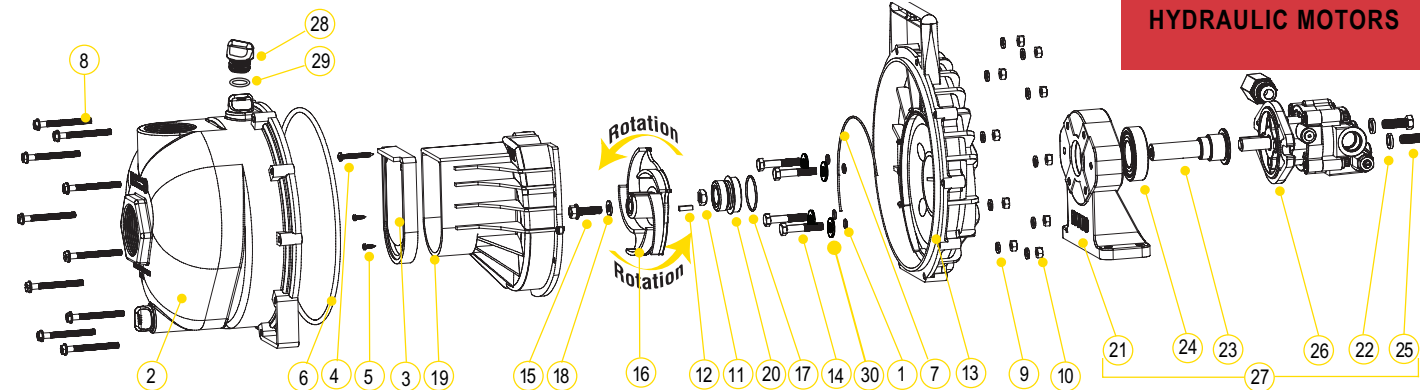


VÁLVULA DE SPOOL DE MOTOR HIDRÁULICO

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

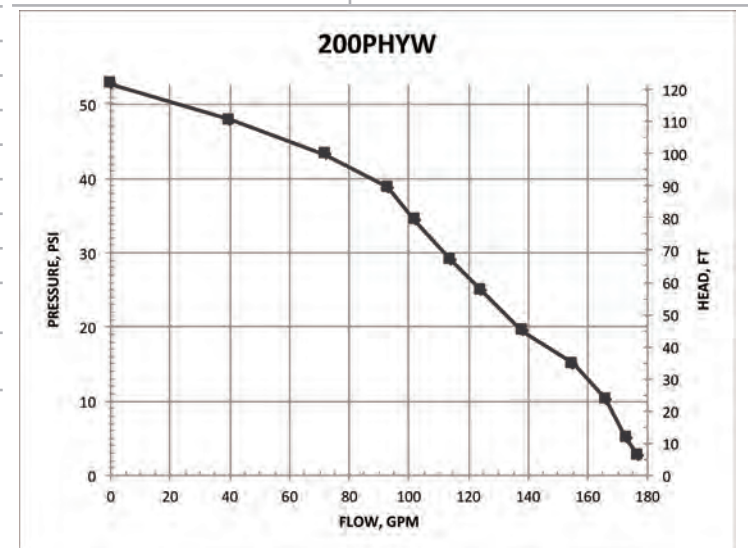
ITEM	PART NO	DESCRIPTION	QTY
1	12717	O-RING FOR SCREW HEADS	4
2	12712A	BODY ASSEMBLY	1
3	12705	CHECK VALVE	1
4	12900	SS UPPER VOLUTE SCREW	1
5	12725	SS VOLUTE SCREWS	2
6	12719A	BODY O-RING	1
7	12754	O-RING SEGMENT	1
8	12720	SS BODY SCREWS	10
9	V07018	SS LOCK WASHERS	10
10	V07019	SS BODY NUTS	10
11	12775A	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	12049F	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	POLY PUMP EPDM REPAIR KIT (ITEMS 1, 3, 6, 7, 12, 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

DADOS DE MOTOR HIDRÁULICO

US Gallons/REV. 0.0025 PINHAS CÚBICAS/REV. 0.580 LITERES/REV. 0.009
 7 MAX PRESSÃO HIDRÁULICA 2000 PSI MIN PRESSÃO HIDRÁULICA 200 PSI IN-
 LET PORT SAE 10 (7/8-14 UNF-2B) OUTLET PORT SAE 10 (7/8-14 UNF-2B) MÍNIM
 O GPM NECESSÁRIO 6 GPM 2400 RPM MÁXIMO GPM NECESSÁRIO 10 GPM 4000
 RPM IDEAL GPM NECESSÁRIO 9 GPM 3600 RPM INFORMAÇÕES DE LIGAÇÃO I
 NLET " A " PORT OUTLET " B " VÁLVULA DE VERIFICAÇÃO DO PORTO É PAR
 A GARANTIR A ROTAÇÃO AJUDA DA BOMBA DE BANJO. VÁLVULA DE VERIF
 ICAÇÃO DO LUGAR NO PORTO OUTLET (MARCADO "B") PARA ROTAÇÃO DE
 MÃO DIREITA. INFORMAÇÕES DE VÁLVULA DE SPOOL NECESSÁRIO FLOW M
 IN 6 GPM / MAX 10 GPM PRESSÃO DE SISTEMA NECESSÁRIO MIN 600 PSI / MA
 X 3000 PSI



CENTRIFUGAL PUMPS

BOMBAS DE MANIFOLD DE 2" POLI COM MOTORES A GÁS

FEATURES

- Construção moldada de precisão
- Leve
- Resistente à corrosão
- Baixa manutenção
- Veja as páginas 43-49 em acessórios colectores para fácil encaimento.



2" POLY MANIFOLD PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M220PH5	2" POLY MANIFOLD PUMP W/5.5 HP HONDA® ENGINE	5.5	1	12
M220PH6	2" FP MANIFOLD PUMP W/6.5 HP HONDA® ENGINE	6.5	1	12
M220P6PRO	2" FP MANIFOLD PUMP W/6.5 HP BRIGGS & STRATTON® PRO SERIES ENGINE	6.5	1	12



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRIITAR OU REDUZIR TAMAÑOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

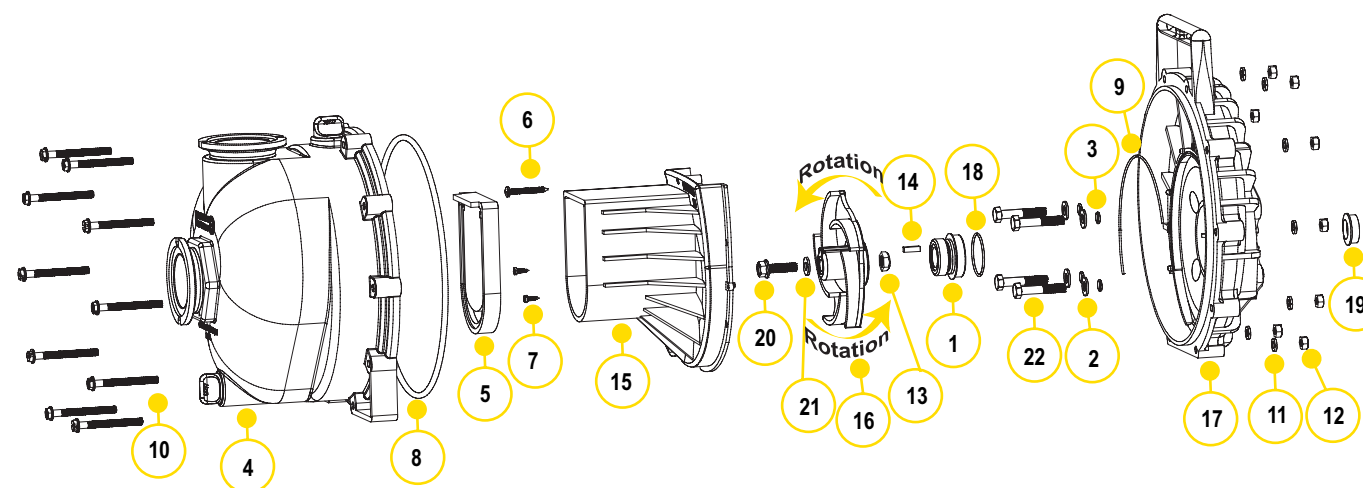


2" POLY MANIFOLD PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M225PO	2" POLY MANIFOLD PUMP ONLY W/ 3/4" SHAFT & 5 VANE IMPELLER	N/A	1	27

CENTRIFUGAL PUMPS

2" POLY MANIFOLD PUMPS WITH GAS ENGINES



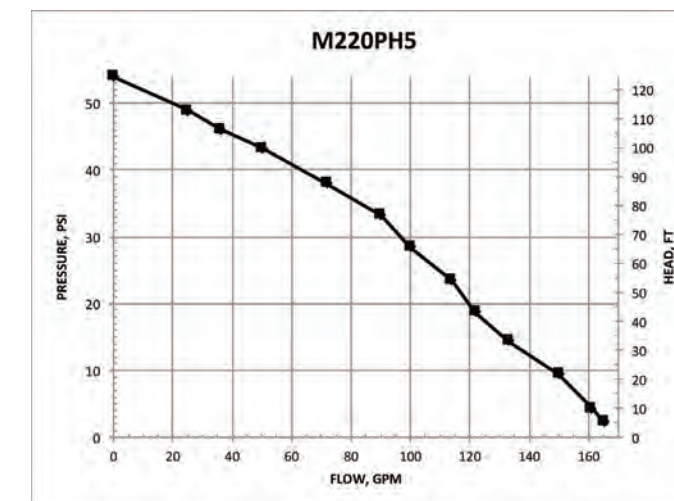
REPLACEMENT PARTS 2" POLY PUMPS

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	POLY PUMP EPDM REPAIR KIT (ITEMS 2,4,7,8,14, 17,19,21,30, 12099)	1
KIT	12000AV	POLY PUMP FKM REPAIR KIT (ITEMS 2,4,7,8,14, 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
M220PH6	12000A	12000AV	12999A	12999AV
M220P6PRO	12000A	12000AV	12999A	12999AV
M225PO	12000A	12000AV	12999A	12999AV

VER KIT 12000A & 12000AV DESENHO NA PÁGINA 101



2 "BOMBAS DE SELO M ANIFOLD POLI

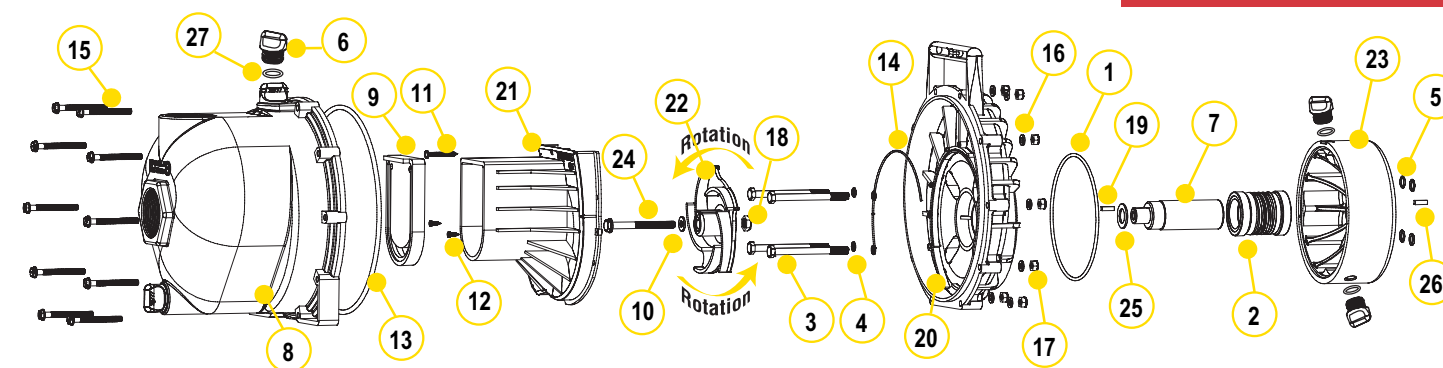
2 "BOMBAS DE SELO M ANIFOLD POLI

FEATURES

- Executar capacidade seca
- Selo duplo contido no reservatório de etilenoglicol. Carbono se lo cerâmico faces com copo de aço inoxidável e mola com borracha EPDM
- extremidade da bomba separada do motor
- Grandes furos de chorar entre bomba e motor
- V-shaped para priming mais rápido
- Ver páginas 43-49 e m acessórios colector para encanamento fácil.

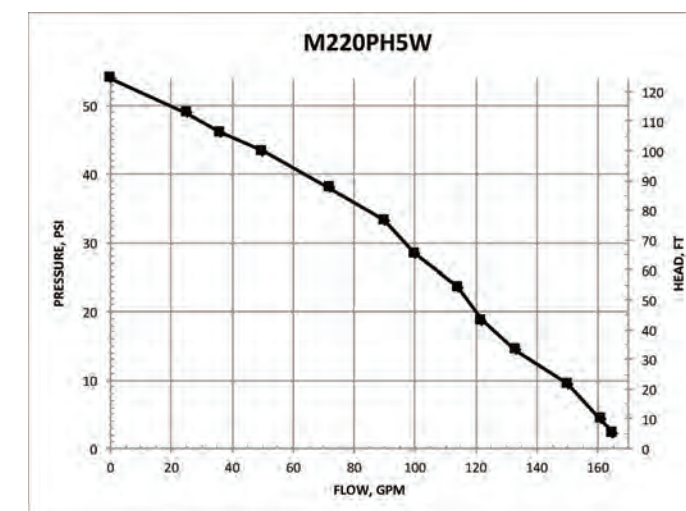


2" POLY MANIFOLD WET SEAL PUMPS W/GAS ENGINES				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
M220PH5W	2" POLY MANIFOLD WET SEAL PUMP W/5.5 HP HONDA® ENGINE	5.5	1	12



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 3/4" HFS	1
25	CV10175	GASKET	1
26	12902A	1/4" SQ. 3/4" KEY STOCK	1
27	UV15163	O-RING FOR DRAIN PLUG	4



AVISO! NÃO FUNÇA A BOMBA SECA, RESTRITO OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

3" BOMBAS POLY

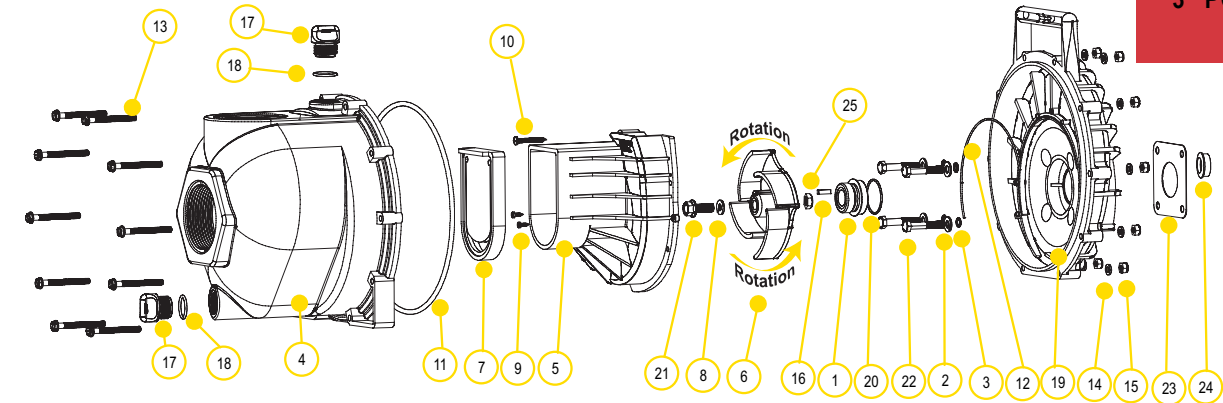
3" POLY PUMPS

FEATURES

- • Grandes furos entre bomba e motor • V-shaped para priming mais rápido • Bomba só vem desmontado



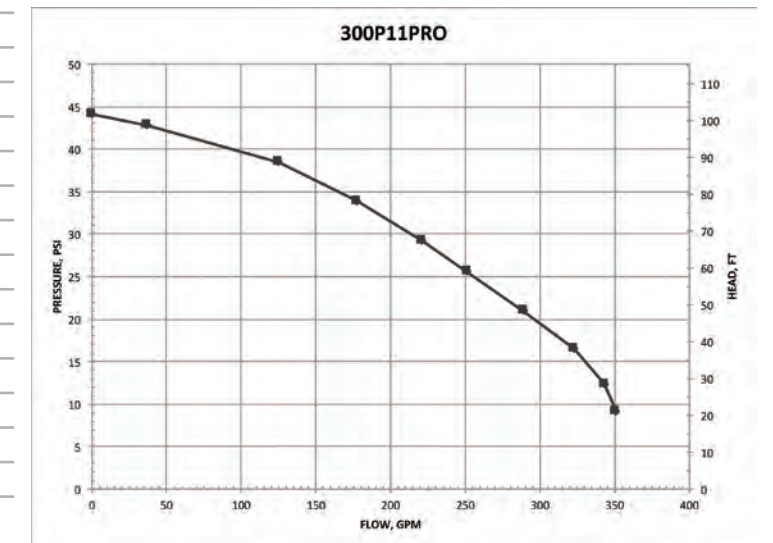
3" POLY PUMPS W/GAS ENGINES					
PART NO	DESCRIPTION	HP	QTY	SKID	QTY
300PH-6	3" POLY PUMP W/6.5 HP HONDA® ENGINE	6.5	1	16	
300P11PRO	3" POLY PUMP W/11 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START & PULL ROPE	11	1	8	



REPLACEMENT PARTS 3" POLY PUMPS			
ITEM	PART NO	DESCRIPTION	QTY
1	12713	SEAL ASSEMBLY	1
2	12901	SS REAR BRACKET WASHER	1
3	12717	O-RING FOR SCREW HEAD	1
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	1
10	12725	SS VOLUTE SCREWS	1
11	12719A	BODY O-RING	1
12	12754	O-RING SEGMENT	1
13	12720	SS BODY SCREWS	1
14	V07018	SS LOCK WASHERS	1
15	V07019	SS BODY NUTS	1
16	12902A	IMPELLER KEY	1
17	13777	3/4" PLUG	1
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 (300PH-6)	1
21	13765	SS IMPELLER BOLT 3/8 X 24 X 1.75 (300P11PRO)	1
22	12715A	SS BRACKET SCREWS	1
23	15751	REAR BRACKET SHIM	1
24	12716	POLY PUMP SLINGER	1
25	12775A	IMPELLER HEX NUT	1
N/S	12882A	BEARING PEDESTAL	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	12000A	POLY PUMP EPDM REPAIR KIT (ITEMS 1, 3, 6-8, 11, 12, 16, 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	12000A	13999
300P11PRO	12000A	13999
300PB	12000A	13999
300PO	12000A	13999

SEE 12000A KIT DRAWING ON PAGE 101



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



3" POLY BEARING PEDESTAL					
PART NO	DESCRIPTION	HP	QTY	SKID	QTY
300PB	3" POLY BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1	18	



3" POLY PUMP ONLY					
PART NO	DESCRIPTION	HP	QTY	SKID	QTY
300PO	3" POLY PUMP ONLY W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1	27	

AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

3 "BOMBAS POLI MANIFOLD

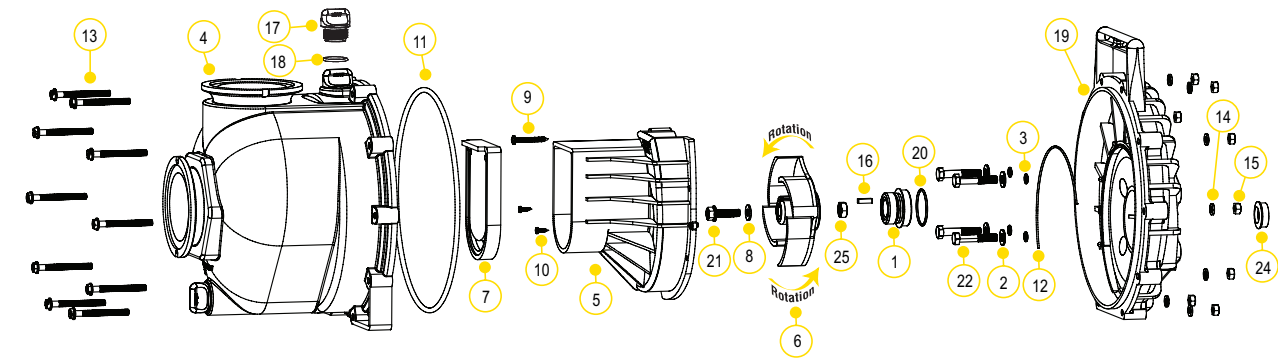
3" POLY MANIFOLD PUMPS

FEATURES

- • Grandes furos de choro entre a bomba e o motor • V-shape d para priming mais rápido • Bomba só vem desmontado • Ver páginas 43-49 em acessórios coletor para encanamento fácil.



3" POLY MANIFOLD PUMPS W/GAS ENGINES				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
M300PH6	3" POLY MANIFOLD PUMP W/6.5 HP HONDA® ENGINE	6.5	1	12
M300P11PRO	3" POLY MANIFOLD PUMP W/11 HP BRIGGS & STRATTON® PRO SERIES W/ELECTRIC START & PULL ROPE	11	1	12



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	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 (-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	12000A	POLY PUMP EPDM REPAIR KIT (ITEMS 1, 3, 6-8, 11, 12, 16, 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	12000A	13999
M300P11PRO	12000A	13999
M300PB	12000A	13999
M300PO	12000A	13999



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRITAR OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



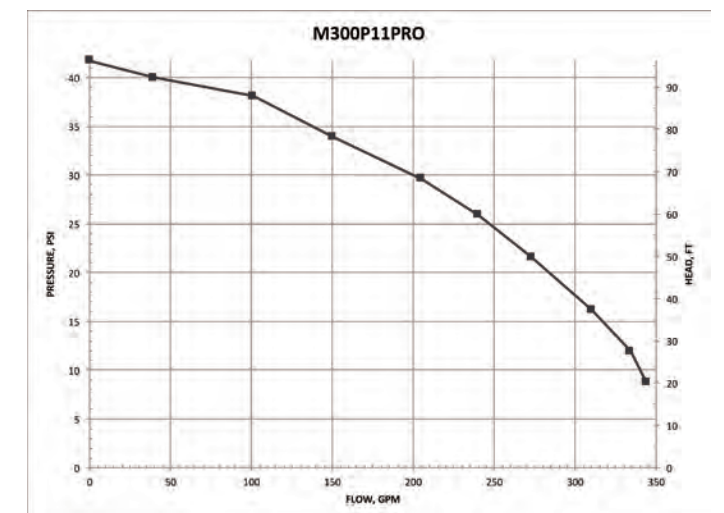
3" POLY MANIFOLD BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M300PB	3" POLY MANIFOLD BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1	18



3" POLY MANIFOLD PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M300PO	3" POLY MANIFOLD PUMP ONLY W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1	27



CENTRIFUGAL PUMPS

BOMBAS POLY DE 3" COM MOTORES HIDRÁULICOS

FEATURES

- Construção moldada de precisão
- Leve
- Resistente à corrosão
- Baixa manutenção
- Capacidade de fluido hidráulico é mínimo 6 galões e máximo 10 galões
- Sistema aberto ou fechado
- 3600 RPM
- Recomendação para usar a válvula de controle do carterel do motor ou um equivalente adequadamente
- A falta de tal válvula neste circuito pode causar falha no motor hidráulico e anular a garantia.



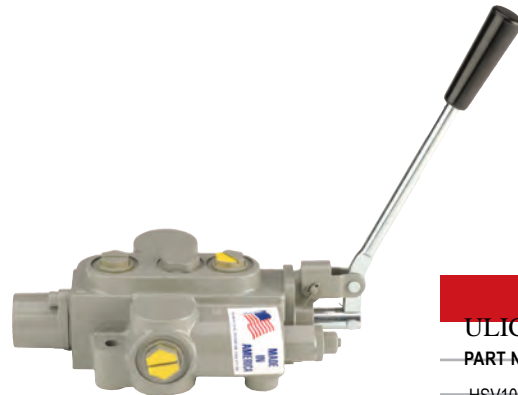
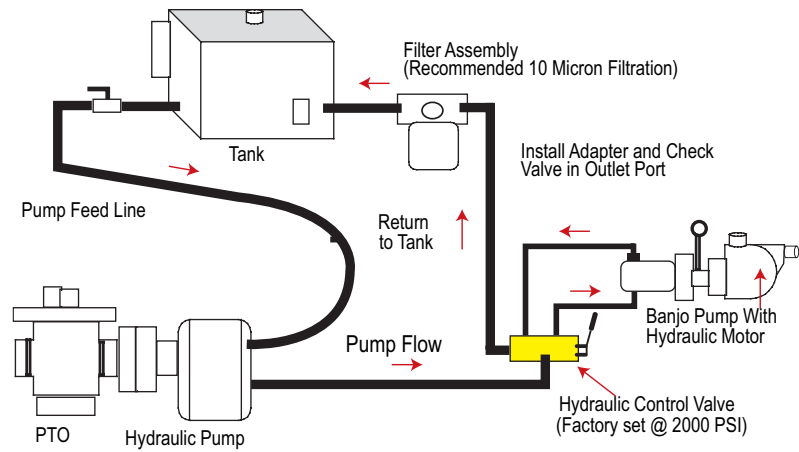
3" POLY PUMPS W/HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300PHY	3" POLY PUMP W/12 HP H HYDRAULIC MOTOR	12	1	18
300PHYW	3" POLY WET SEAL PUMP W/12 HP HYDRAULIC MOTOR	12	1	12
300PHA	3" POLY PUMP W/OUT HYDRAULICS	N/A	1	27



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

DIAGRAMA DE MONTAGEM DE VÁLVULA DE SPOOL

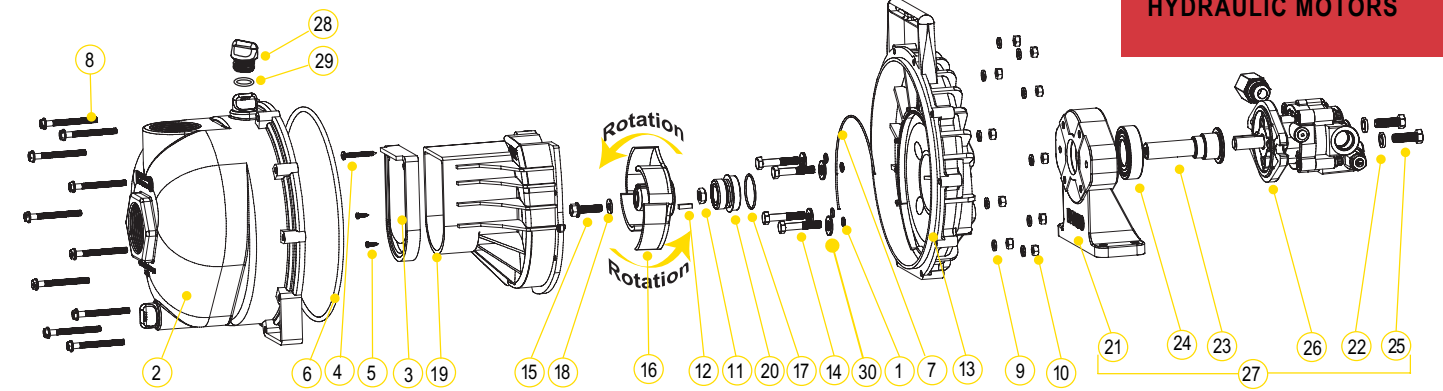


VÁLVULA DE SPOOL DE MOTOR HIDRÁULICO

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	12049F	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	HY1013	HYDRAULIC MOTOR	1
27	12600B	COMPLETE HYDRAULIC ASSEMBLY	1
28	13777	1/4" PLUG	2
29	13778	O-RING	2
30	12901	SS REAR BRACKET WASHER (300PHY)	4
N/S	HY1003	HYDRAULIC MOTOR SEAL KIT	1
KIT	12000A	POLY PUMP EPDM REPAIR KIT (ITEMS 1, 3, 6, 7, 16, 18, 20, 29, 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	12000A	13999	HY1003

HYDRAULIC MOTOR DATA

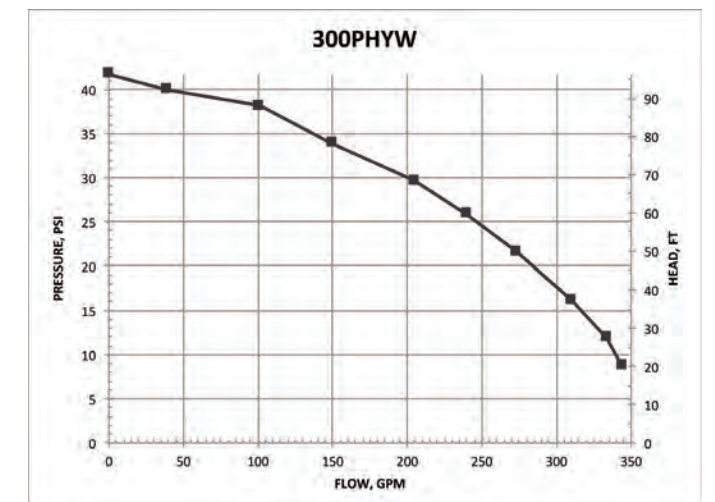
U.S. GALLONS/REV.	0.0025
CUBIC INCHES/REV.	0.580
LITERS/REV.	0.0097
MAX HYDRAULIC PRESSURE	2000 PSI
MIN HYDRAULIC PRESSURE	200 PSI
INLET PORT	SAE 10 (7/8-14 UNF-2B)
OUTLET PORT	SAE 10 (7/8-14 UNF-2B)
MINIMUM GPM REQUIRED	6 GPM 2400 RPM
MAXIMUM GPM REQUIRED	10 GPM 4000 RPM
IDEAL GPM REQUIRED	9 GPM 3600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

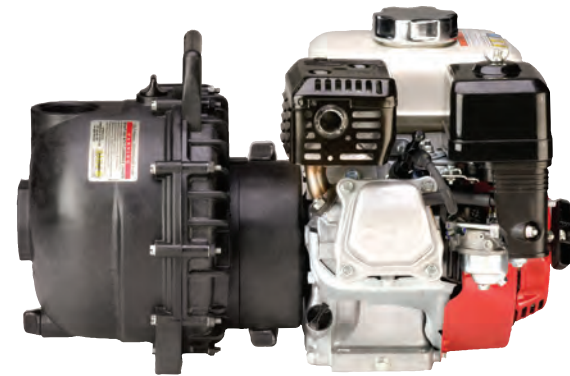
SPOOL VALVE INFORMATION

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



FEATURES

- Executar capacidade seca
- Selo duplo contido no reservatório de etileno glicol. Carbono selo cerâmico enfrenta com aço inoxidável copo e mola com borracha a EPDM.
- Em forma de V para priming mais rápido
- Serviço de garantia do motor disponível no autorizado Briggs & Stratton® e Honda® revendedores
- Devido ao peso e tamanho das bombas, Banjo navios estes por caminhão apenas.



3" POLY WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300PH6W	3" POLY WET SEAL PUMP W/6 HP HONDA® ENGINE	6	1	12
300P11PROV	3" POLY WET SEAL PUMP W/11 HP BRIGGS & STRATTON® ENGINE PRO SERIES W/ELECTRIC START & PULL ROPE	11	1	8
300PH13W	3" POLY WET SEAL PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1	8



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



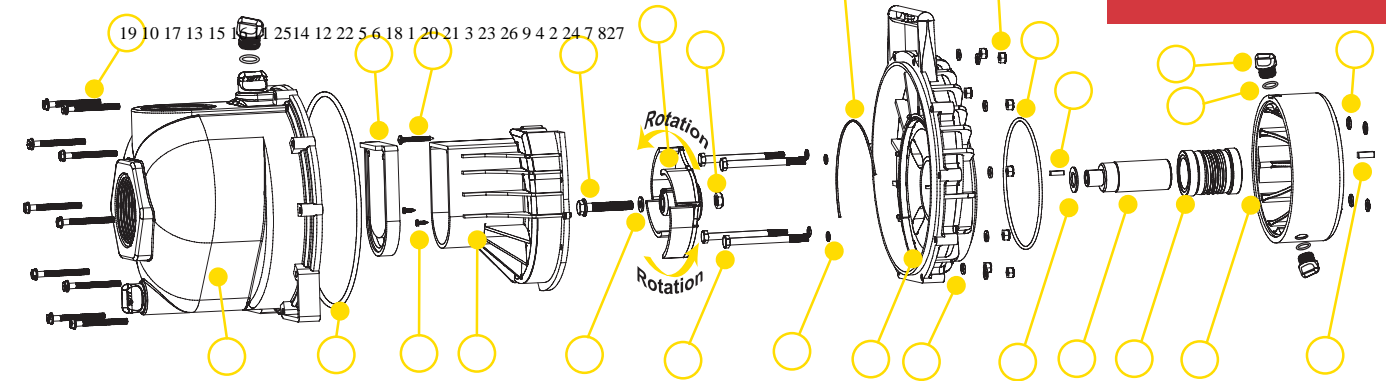
3" POLY WET SEAL BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300PBW	3" POLY WET SEAL BEARING PEDESTAL W/ 3/4" SHAFT & 4 VANE IMPELLER	N/A	1	27



3" POLY WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300POW	3" POLY WET SEAL PUMP ONLY FOR 1" SHAFT	N/A	1	27
300POW6	3" POLY WET SEAL PUMP ONLY FOR 3/4" SHAFT	N/A	1	27

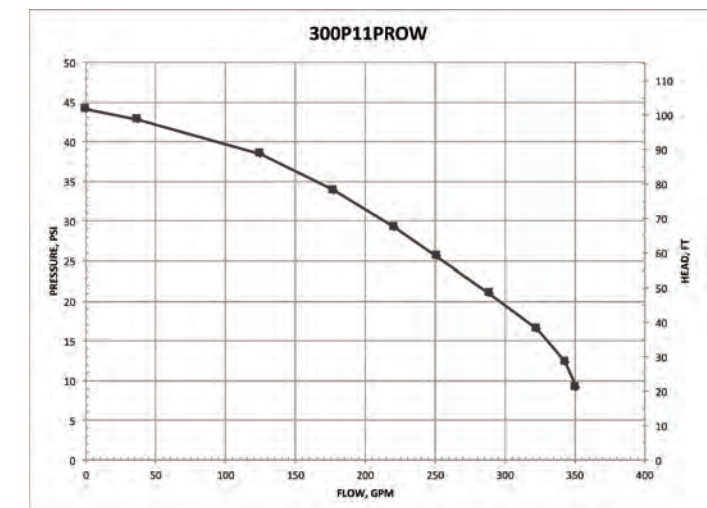


REPLACEMENT PARTS 3" POLY PUMPS

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	N/A	ADAPTER SHAFT (300P11PROV & 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 1/2" 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

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



3 "BOMBAS DE SELO M ANIFOLD POLI

3 "BOMBAS DE SELO M ANIFOLD POLI

FEATURES

- Executar capacidade seca
- Selo duplo contido no reservatório de etilenoglicol. Carbono se lo cerâmico enfrenta com copo d e aço inoxidável e mola com bor racha EPDM • extremidade bom ba separada do motor • V-shape d para priming mais rápido • Ser viço de garantia do motor dispon ível em revendedores autorizado s • Ver páginas 43-49 em colect or acessórios para fácil encanam ento.



3" POLY MANIFOLD WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M300PH6W	3" POLY MANIFOLD WET SEAL PUMP W/6 HP HONDA® ENGINE	6	1	12



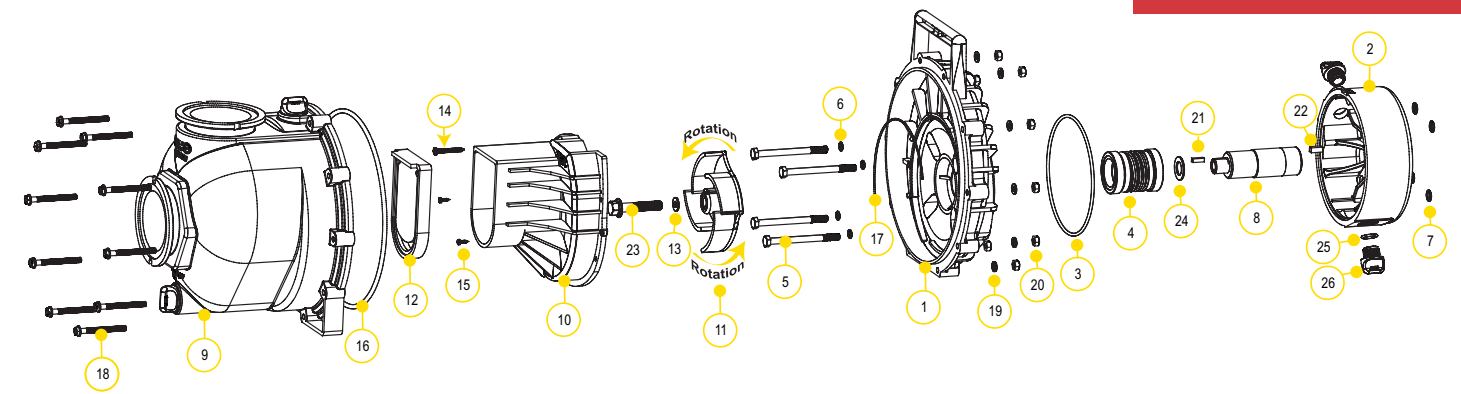
3" POLY MANIFOLD WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M300POW6	3" POLY MANIFOLD WET SEAL PUMP ONLY FOR 3/4" SHAFT	N/A	1	27



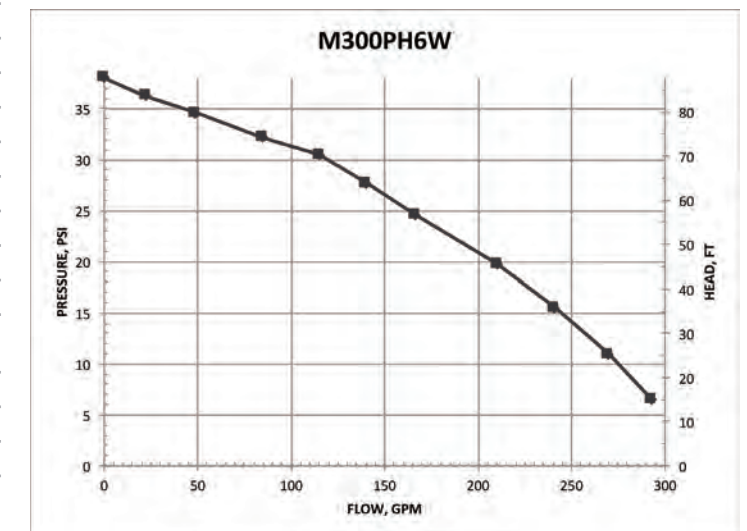
3" POLY MANIFOLD WET SEAL PUMP W/HYDRAULIC

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M305PHYW	3" POLY MANIFOLD WET SEAL PUMP W/HYDRAULIC MOTOR	N/A	1	12



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	13771	4 VANE IMPELLER	1
11	13772A	5 VANE IMPELLER (M305PHYW)	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 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



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



- 500+ Gallons per Minute
- Polymer components molded from polypropylene
- EPDM seals
- All stainless steel hardware
- Tandem wet seal design
- Produces less wear
- Prevents seal breakage from high pressure clean out
- Eliminates eight leak points
- Works with natural system pressure to keep seal intact
- Moving parts
- Operating speed: 3600 RPM
- Run dry capability of greater than 10 minutes
- Capable of handling occasional solid particles in suspension up to 1/2" in diameter
- Maximum self-priming height: 25 ft (7.6 m) for hydraulic version
- (0.422" priming hole): 28 ft (8.5 m) for standard version (0.260" priming hole)
- Engine warranty service available at authorized dealers
- See pages 43-49 on manifold fittings for easy plumbing

M35
PATENTED WET SEAL DESIGN
NOT TAKES NOSEWEAR. NO WORRIES



CARACTERÍSTICAS



3" POLY MANIFOLD WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350PVAN14W	3" POLY MANIFOLD WET SEAL PUMP W/14 HP VANGUARD® ENGINE	14	1	6



3" POLY MANIFOLD WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350PH13W	3" POLY MANIFOLD WET SEAL PUMP W/13 HP HONDA® ENGINE	13	1	6



3" POLY MANIFOLD WET SEAL PUMP W/ELECTRIC MOTOR

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350PE15W	3" POLY MANIFOLD WET SEAL PUMP W/15 HP 3 PHASE ELECTRIC MOTOR	N/A	1	1



3" POLY MANIFOLD WET SEAL PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350POW	3" POLY MANIFOLD WET SEAL PUMP ONLY FOR 1" SHAFT GAS ENGINES	N/A	1	27
M350PEOW	3" POLY MANIFOLD WET SEAL PUMP ONLY FOR ELECTRIC MOTOR	N/A	1	27



3" POLY MANIFOLD WET SEAL PUMP W/HYDRAULIC

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350PHYW	3" POLY MANIFOLD WET SEAL PUMP W/HYDRAULIC MOTOR	N/A	1	12



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CENTRIFUGAL PUMPS

3" POLY M350 MANIFOLD WET SEAL PUMPS



3" POLY MANIFOLD WET SEAL PUMP W/HYDRAULIC

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350PHAW	3" POLY MANIFOLD WET SEAL PUMP W/HYDRAULIC PEDESTAL (NO MOTOR)	N/A	1	12



3" POLY WET SEAL BEARING PEDESTAL

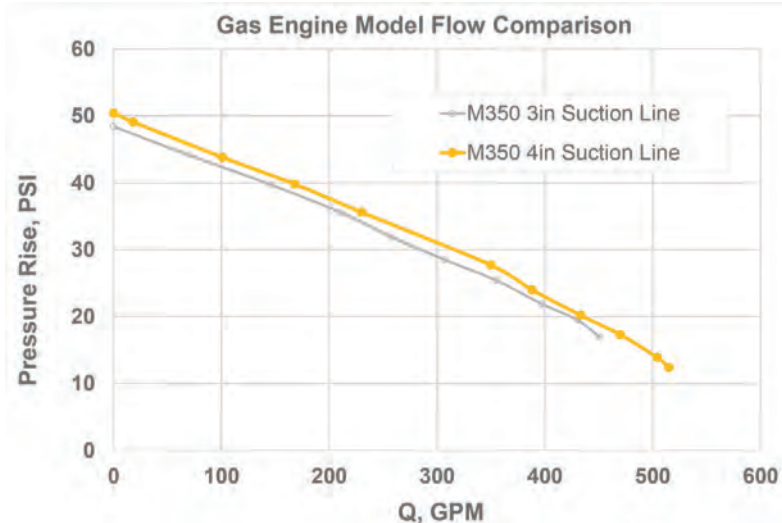
PART NO	DESCRIPTION	HP	QTY	SKID QTY
M350PBW	3" POLY WET SEAL BEARING PEDESTAL W/ 1" SHAFT & 4 VANE IMPELLER	N/A	1	12



4" PLUMBING FITTINGS

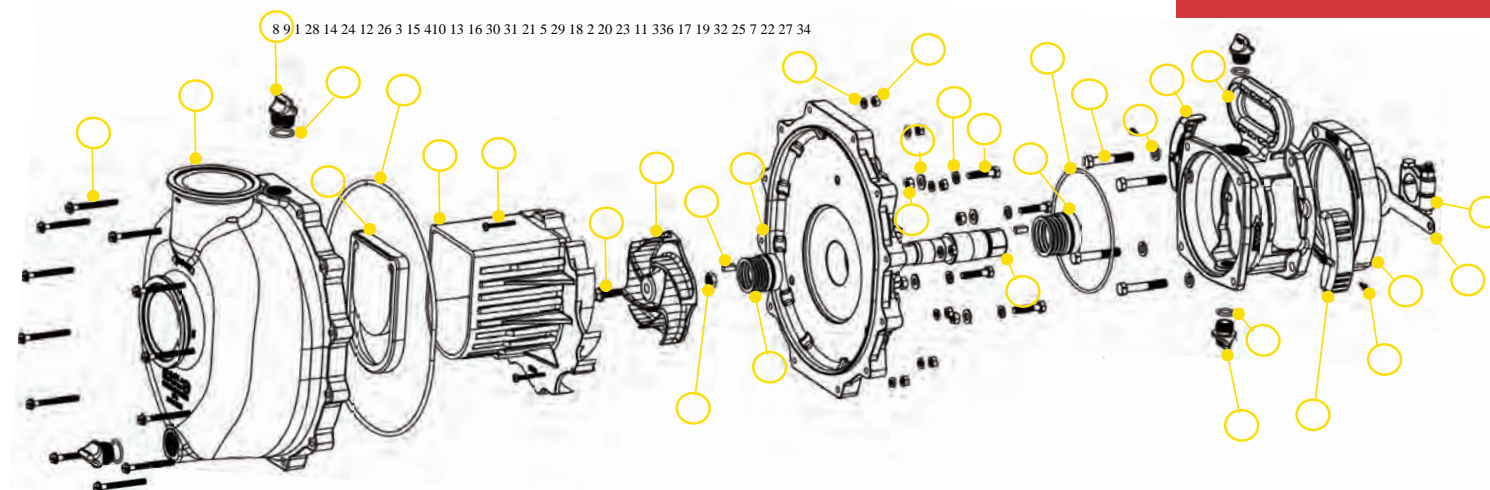
PART NO	DESCRIPTION	LOT QTY
M300400A	3" Manifold x 4" Male Coupler	1
M300400BRB	3" Manifold x 4" Hose Barb	1

OPTIMIZE FLUXO COM 4" SUÇÃO



CENTRIFUGAL PUMPS

3" POLY M350 MANIFOLD WET SEAL PUMPS



REPLACEMENT PARTS M350 PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12720	1/4-20 X 2 1/2" SL. IND. HEX WASHER HEAD SCREW	12
2	12725	#6 X 1/2" PPH SMS	2
3	12765A	5/16-24 X 1 1/8" HFS	1
4	12775A	7/16-14 HEX NUT	1
5	12777	1/2" DRAIN PLUG	2
6	12901	5/16" FLAT WASHER	8 (4 SHOWN)
7	13719	AS568A -256 O-RING, EPDM, BLACK	1
8	13777	3/4" DRAIN PLUG, MOLDED	2
9	13778	AS568A -119 O-RING, EPDM, BLACK	2
10	16901SS	1/4" SQ. X 5/8" KEY 18-8 SS	2
11	18029	SS CLAMP	1
12	35002	M350 DIFFUSER	1
13	35004	M350 REAR BRACKET	1
14	35005	3" WET SEAL POLY PUMP CHECK VALVE	1
15	35073	M350 5-VANE IMPELLER	1
16	35113E	1.125" MECHANICAL SEAL, EPDM, BULK	1
17	35201	M350 WET SEAL RESERVOIR	1
18	35246GL	LEFT SHAFT GUARD FOR M350P	1
19	35246GR	RIGHT SHAFT GUARD FOR M350P	1
20	35248	M350 ENGINE SPACER	1
21	35255A	3" WET SEAL POLY PUMP SHAFT ADAPTER FOR BEM15-100	1
22	35313E	1.375" MECHANICAL SEAL, EPDM, BULK	1
23	35901	350 PUMP SEAL SPACING TOOL	1
24	A380E	AS568 #380 EPDM O-RING	1
25	B0516138	5/16-18 X 1 3/8" HHCS	4
26	B1014150TS	#10 X 1 1/2 THREAD FORMING SCREW, 18-8 SS	3
27	BF207	3/8-16 X 2 1/4" HHCS	4
28	M35012	M350 MANIFOLD BODY	1
29	UV15163	AS568A -114 O-RING, EPDM, BLACK	2
30	V07018	1/4" LOCKWASHER	12
31	V07019	1/4"-20 S.S. HEX NUT	12
32	V10118	5/16" SS LOCKWASHER	8 (4 SHOWN)
33	V10119	5/16"-18 SS NUT	8 (4 SHOWN)

REPLACEMENT PARTS M350 PUMPS

ITEM	PART NO	DESCRIPTION	QTY
34	V20018	3/8" Lockwasher, SS	4
35	17034	5/16-18 X 1-1/2" HHCS	1
36	35033	Z-RAIL FOR M350PH13W	1
NS	355800	BEARING PEDESTAL ASSEMBLY	1
NS	35000	REPAIR KIT REPAIR KIT (CONSIST OF ITEMS 7, 9, 10, 12, 14, 15, 16, 22, 23, 24, 26, 29)	1

BOMBAS DE FERRO ELENCO 1 1/2" - 2"

BOMBAS DE FERRO ELENCO 1

FEATURES

- • Construção em ferro fundido para serviço confiável robusto
- Manga do eixo do aço inoxidável para proteger o eixo do motor
- Selo cerâmico carbono com copo de aço inoxidável e mola com borracha FKM
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Bomba só embala completo e pronto para fixação ao motor a gasolina
- Bomba de pedestal para acoplamento longo para motor elétrico
- Recomendação para o eixo: 56C tamanho do quadro, 3 HP, 3450 RPM & 5" max Impulsor para acoplamento próximo a motores elétricos
- Recomendação para o eixo: 145TC tamanho do quadro, 3 HP, 3450 RPM & 5" max impulsor para acoplamento próximo a motores elétricos
- Serviço de garantia do motor disponível no authorized Revendedores



2" CAST IRON PUMP W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PI-3	2" CAST IRON PUMP W/3.5 HP BRIGGS & STRATTON® ENGINE	3.5	1	8
200PI6PRO	2" CAST IRON PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1	8
200PIH-5	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE	5.5	1	8
200PIH5E	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1	8

2" CAST IRON PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200POI	2" CAST IRON PUMP ONLY W/ 3/4" SHAFT SLEEVE	N/A	1	27

1 1/2" CAST IRON C-FLANGE PUMPS

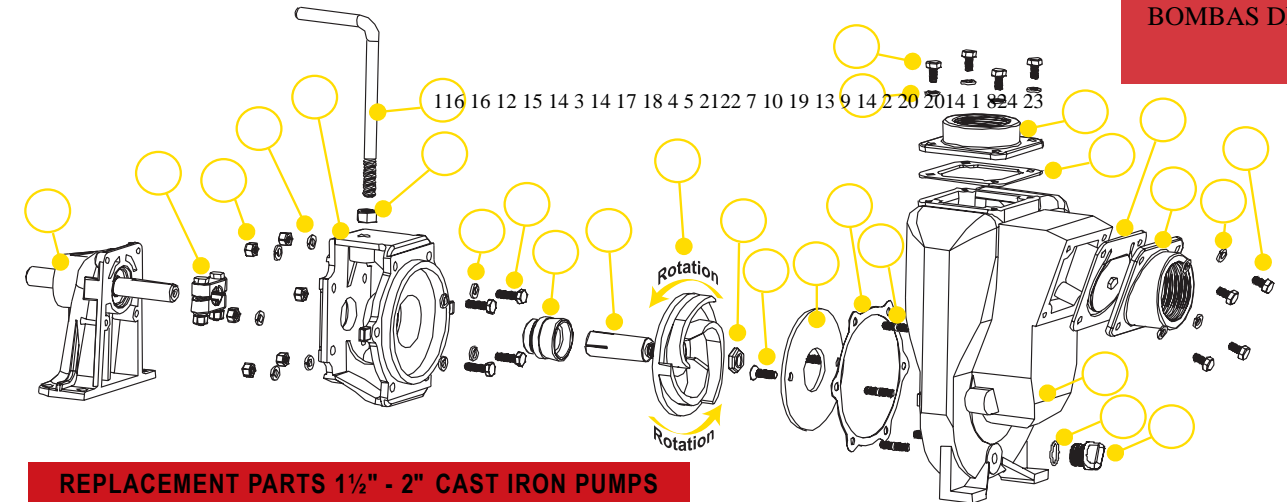
PART NO	DESCRIPTION	HP	QTY	SKID QTY
150POICF5/8-4.1	1 1/2" CAST IRON C-FLANGE PUMP W/ 5/8" SHAFT SLEEVE & 4.1 IMPELLER	N/A	1	18

2" CAST IRON C-FLANGE PUMPS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200POICF5/8	2" CAST IRON C-FLANGE PUMP W/ 5/8" SHAFT SLEEVE	N/A	1	18
200POICF7/8	2" CAST IRON C-FLANGE PUMP W/ 7/8" SHAFT SLEEVE	N/A	1	18

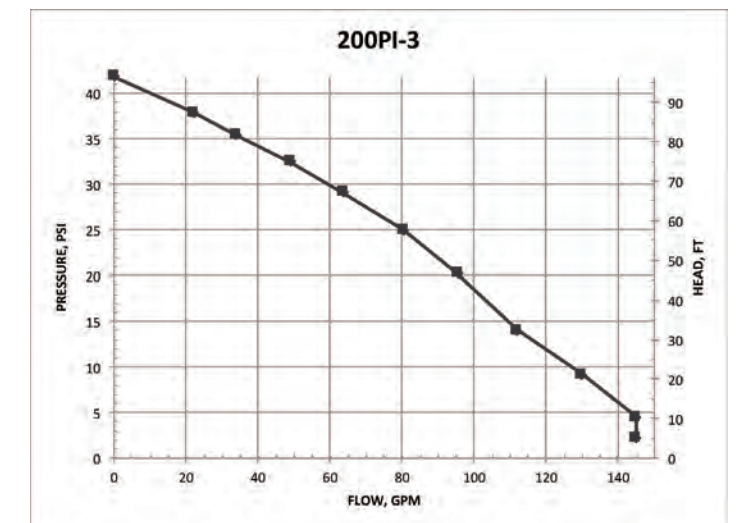
2" CAST IRON BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PBI	2" CAST IRON BEARING PEDESTAL W/ 3/4" STRAIGHT SHAFT	N/A	1	18



REPLACEMENT PARTS 1 1/2" - 2" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17001	1 1/2" NPT OUTLET FLANGE	1
1	17000	2" NPT OUTLET FLANGE	1
2	17003	1 1/2" 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	3/4" SLEEVE DRIVE	1
4	17007	7/8" SLEEVE DRIVE FOR ELECTRIC MOTOR	1
5*	17008	5" IMPELLER	1
5	17008-4.1	4.1" TRIMMED IMPELLER	1
6	17010	1/2" 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 3/4" SHAFT ASSEMBLY (OLD STYLE)	1
12	17123	5/8" CLAMP FOR 3/4" 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	12883B	BEARINGS	1
16	12882A	COMPLETE PEDESTAL ASSEMBLY	2
17	17040	5/16" -24 X 1.00" CAP SCREW	1
18	17028	EPDM SEAL ASSEMBLY	4
18*	17035	FKM SEAL ASSEMBLY	1
18	17035SD	SEVERE DUTY SEAL	1
19	17042	STUD	6
20	17019	5/16"-18 X 3/4" 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	1/2" 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



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2 "BOMBAS DE SELO DE FERRO ELENCO

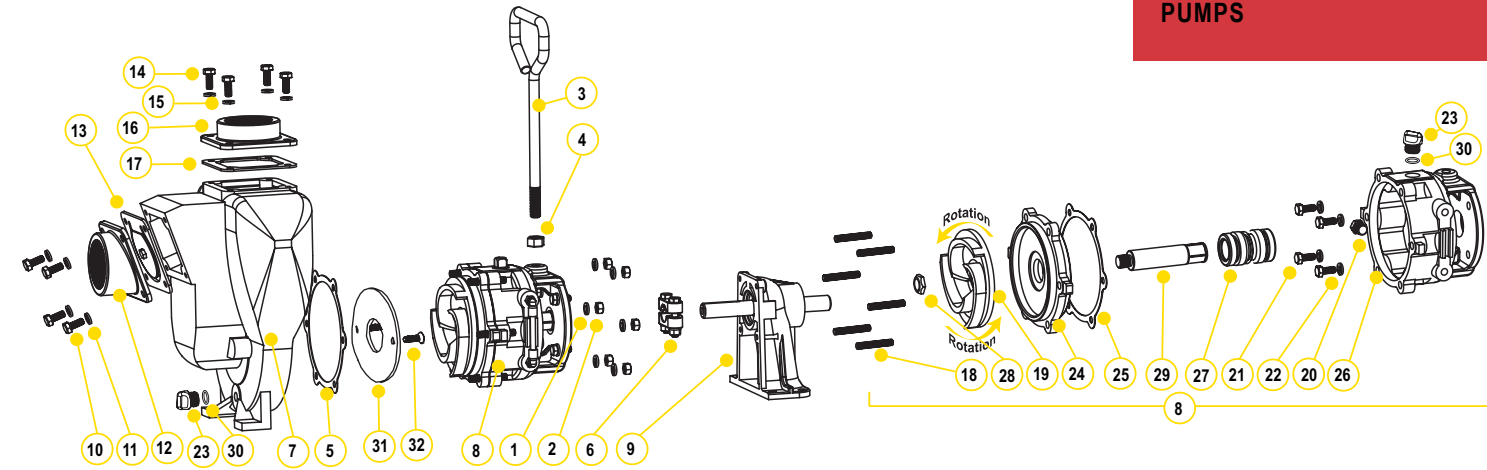
FEATURES

- • Construção em ferro fundido para serviço confiável robusto
- Hardware em aço inoxidável
- FKM vedação dupla com tida no reservatório de glicol
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Bomba apenas nas pacotes completos e pronta para fixação ao motor a gasolina
- Bomba de pedestal para acoplamento longo ao motor elétrico
- Devido ao peso e tamanho das bombas, Banjo envia estas por caminhão apenas.



2" CAST IRON WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
201PIH5W	2" CAST IRON WET SEAL PUMP W/5.5 HP HONDA® ENGINE	5.5	1	8



2" CAST IRON WET SEAL PUMPS



2" CAST IRON WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
201POIW	2" CAST IRON WET SEAL PUMP ONLY	N/A	1	18

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	N/A	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	1



AVISO! NÃO FUNÇA A BOMBA SECA, RESTRITO OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA

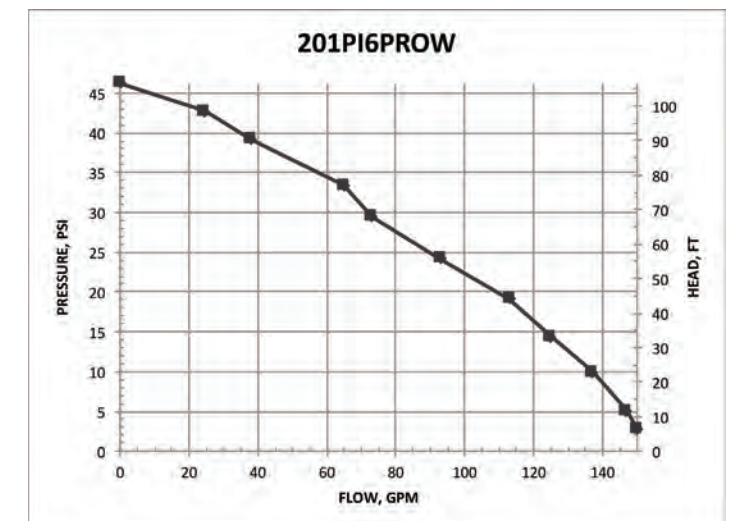


AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



2" CAST IRON WET SEAL PUMP BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY	SKID QTY
201PBIW	2" CAST IRON WET SEAL PUMP WITH BEARING PEDESTAL	N/A	1	18

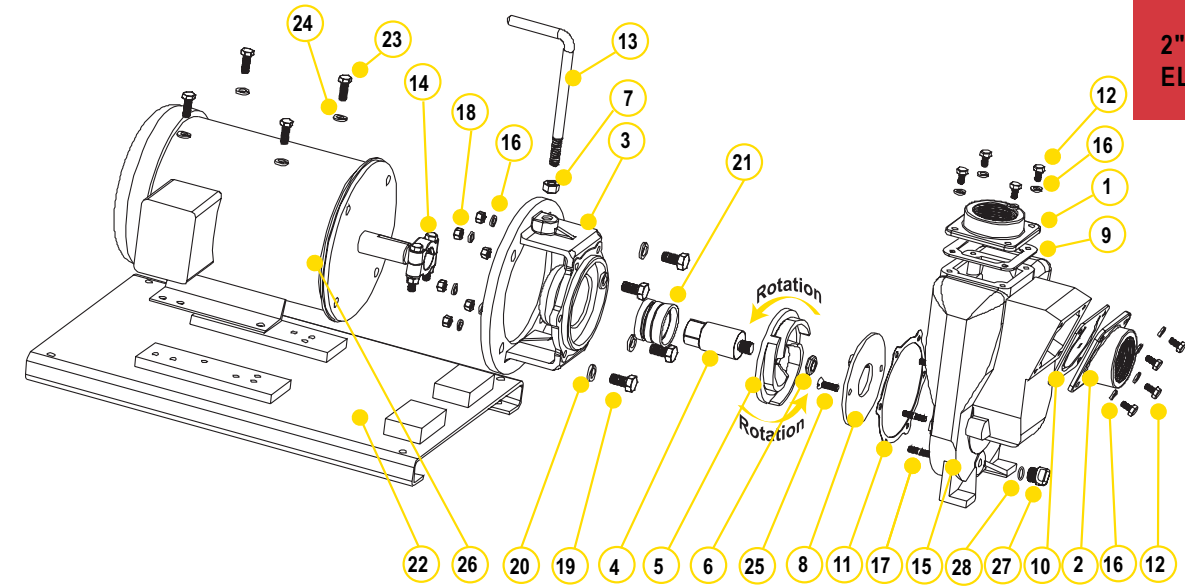


BOMBAS DE FERRO ELENCO DE 2" COM MOTORES ELÉTRICOS

2" BOMBAS DE FERRO ELENCO DE MOTORES ELÉTRICOS

FEATURES

- • Construção em ferro fundido para serviço confiável robusto
- Manga do eixo em aço inoxidável para proteger o eixo do motor
- Selo cerâmico carbono com copo de aço inoxidável e mola com borracha FKM
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Bomba apenas e embalagem completa e pronto para fixação à gasolina
- Motor • Devido ao peso e tamanho das bombas, Banjo envia estes apenas por caminhão
- Serviço de garantia do motor disponível em revendedores autorizados
- As características do motor incluem placas finais de alumínio fundido para pressão com design nervurado para rigidez, estrutura de aço calibre pesado, 230 volts, com ímã de resistência ao pico do inversor Fio



2" CAST IRON PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
234PIE5	2" CAST IRON PUMP W/5 HP THREE PHASE ELECTRIC MOTOR	5	1	3
234PIE51	2" CAST IRON PUMP W/5 HP SINGLE PHASE ELECTRIC MOTOR	5	1	3

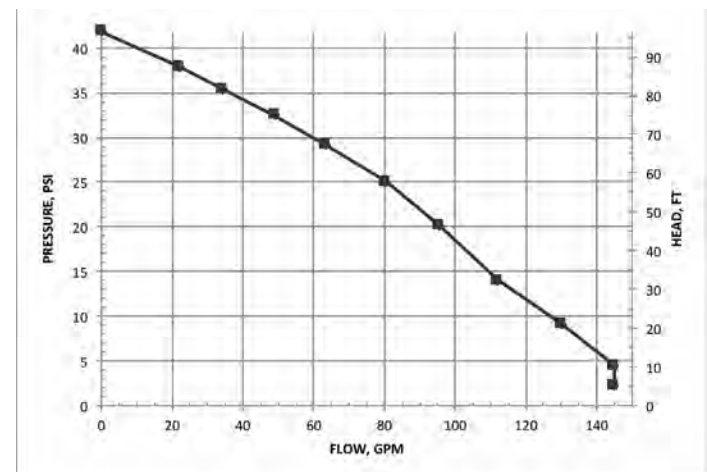
2" CAST IRON PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
234POI	2" CAST IRON PUMP ONLY W 184TC FRAME ADAPTER	N/A	1	18

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	N/A	BOLT	4
20	N/A	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	N/A	ELECTRIC MOTOR	1
27	12777	1/2" PLUG	1
28	UV15163	O-RING FOR DRAIN PLUG	1

234 SERIES PUMP



AVISO! NÃO FUNÇA A BOMBA SECA, RESTRITO OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

CENTRIFUGAL PUMPS

BOMBAS DE FERRO ELENCO DE 2" COM MOTORES HIDRÁULICOS

FEATURES

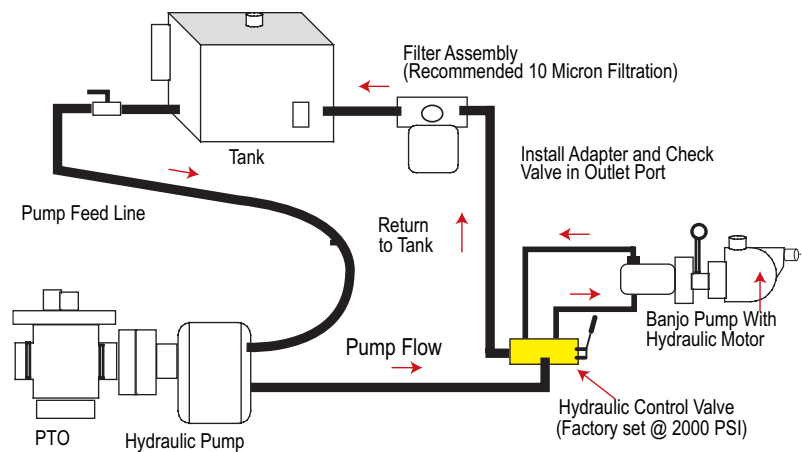
- Construção em ferro fundido para serviço confiável robusto
- Hardware em aço inoxidável
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Capacidade de fluido hidráulico é mínimo 6 galões e máximo 10 galões
- Sistema aberto ou fechado
- 12 HP motor
- Recomendação usar a válvula de controle do carretel do motor ou um equivalente apropriado. A falta de tal válvula neste circuito pode causar falha no motor hidráulico e anulará a garantia.



2" BOMBAS DE FERRO ELENCO COM MOTOR HIDRÁULICO

CO	PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PIHY		2" CAST-IRON PUMP ONLY WITH HYDRAULIC MOTOR	12	1	18

DIAGRAMA DE MONTAGEM DE VÁLVULA DE SPOOL

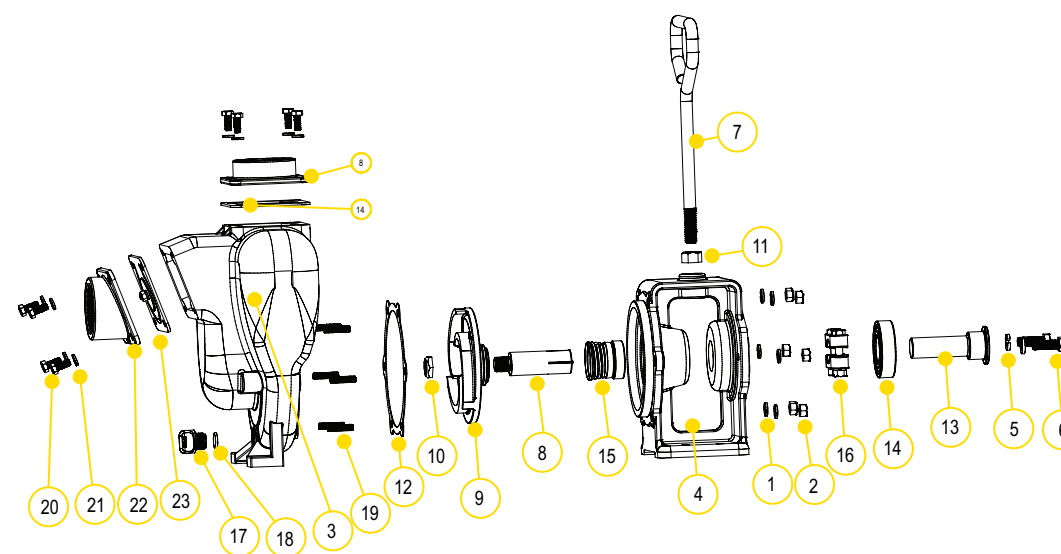


VÁLVULA DE SPOOL DE MOTOR HIDRÁULICO

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

CENTRIFUGAL PUMPS

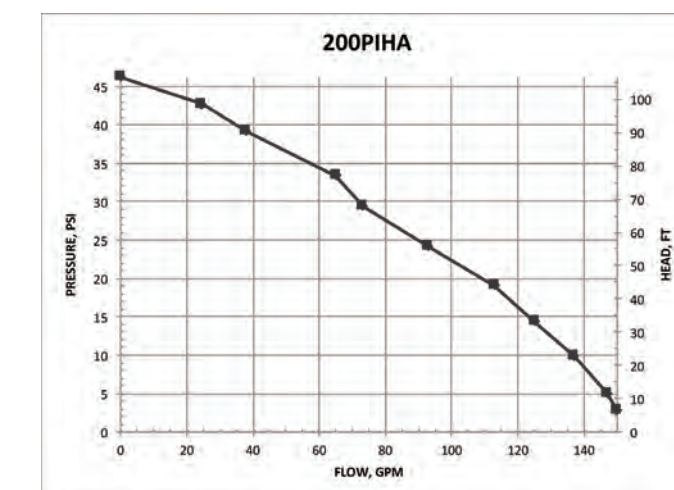
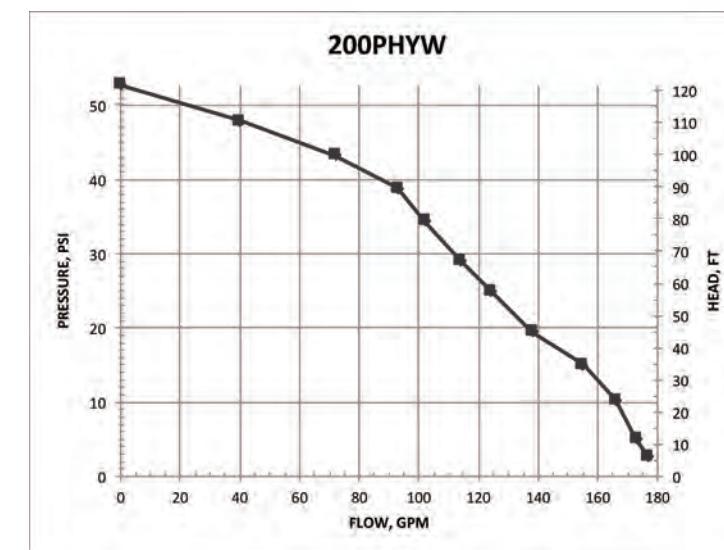
2" CAST IRON PUMPS WITH HYDRAULIC MOTORS



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

-MOTOR PY1013 SOMENTE



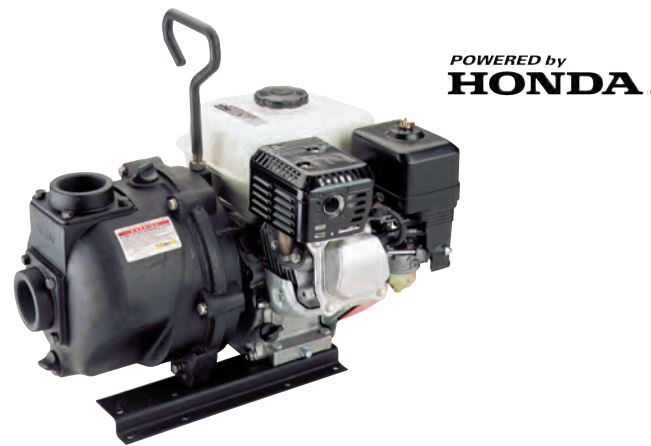
WARNING! DO NOT RUN PUMP DRY, RESTRICT OR REDUCE PORT SIZES OR DEAD HEAD PUMP



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

CENTRIFUGAL PUMPS

2" 222 SÉRIE CAST FERRO BOMBAS • Construção em ferro fundido para serviço confiável e robusto • Selo cerâmico de carbono com eixo de aço inoxidável e mola com borracha FKM • Flanges de entrada e saída substituíveis • Impulsor dinamicamente equilibrado • Pesados slingers e selo no eixo do motor • Grande choro buracos entre a bomba final e motor • Bomba só embalada completo e pronto para fixação ao motor a gasolina • Bomba de pedestal para acoplamento logo ao motor elétrico • Recomendação para 3/4" eixo: 5 HP, 3600 RPM • Devido ao peso e tamanho das bombas, Banjo navios estes apenas por caminhão. • Garantia do motor disponível em autorizado Revendedores



POWERED by HONDA

222 SERIES CAST IRON PUMPS W/GAS ENGINES				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
222PIH5	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE	5.5	1	8
222PIH6	2" CAST IRON PUMP W/6.5 HP HONDA® ENGINE	6.5	1	8
222PIH5E	2" CAST IRON PUMP W/5.5 HP HONDA® ENGINE W/ ELECTRIC START	5.5	1	8
222PI6PRO	2" CAST IRON PUMP W/6.5 HP BRIGGS & STRATTON® ENGINE PRO SERIES	6.5	1	8



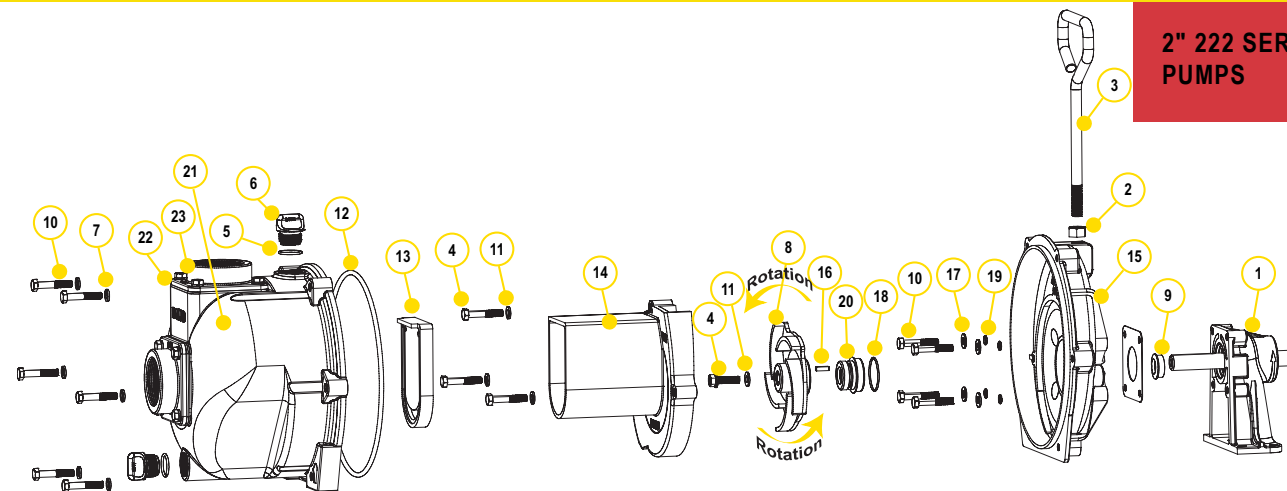
222 SERIES CAST IRON PUMP ONLYS				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
222POI	2" CAST IRON PUMP ONLY W/ FULL IMPELLER	N/A	1	18



222 SERIES CAST IRON BEARING PEDESTAL				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
222PBI	2" CAST IRON BEARING PEDESTAL W/ 3/4" STRAIGHT KEYED SHAFT	N/A	1	18

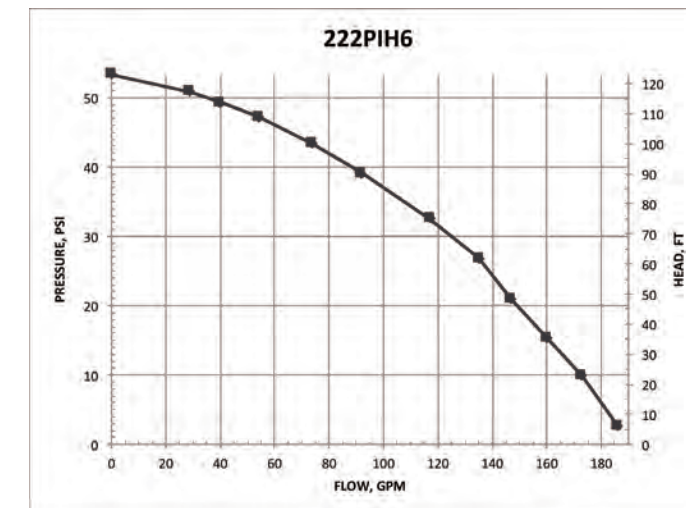
CENTRIFUGAL PUMPS

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	N/A	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	N/A	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
222PBI	15000	15000V	15999	15999V



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



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

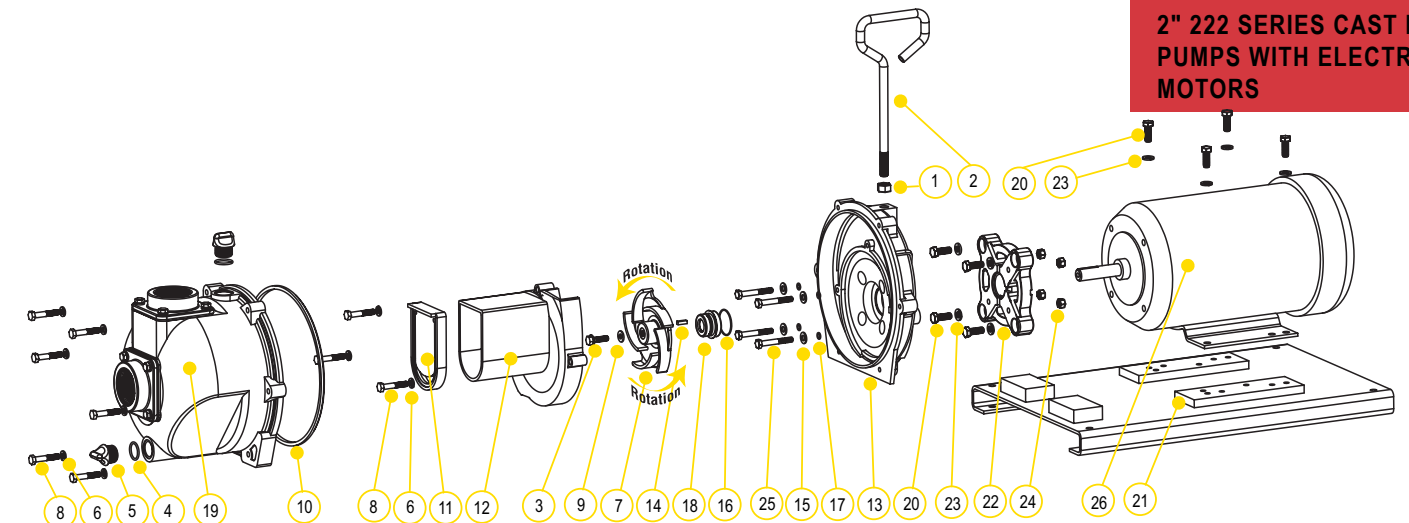
2" 222 S

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222 SERIES CAST IRON PUMPS W/ELECTRIC MOTORS				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
222PIE5	2" CAST IRON PUMP W/5 HP THREE PHASE ELECTRIC MOTOR	5	1	3
222PIE51	2" CAST IRON PUMP W/5 HP SINGLE PHASE ELECTRIC MOTOR	5	1	3



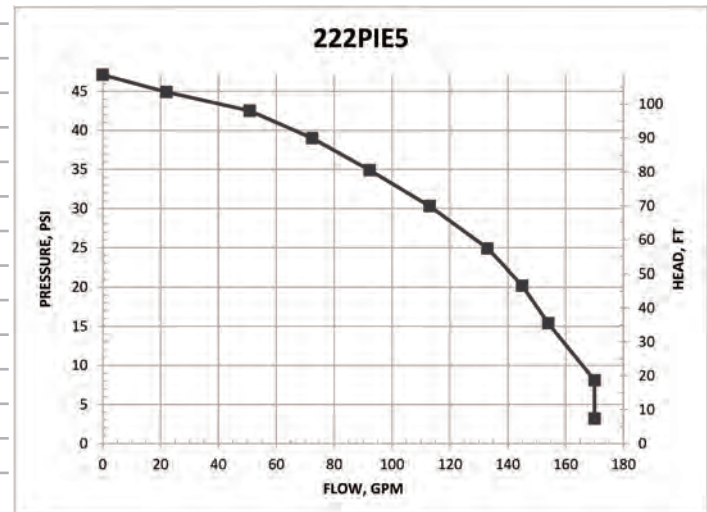
2" 222 SERIES CAST IRON PUMPS WITH ELECTRIC MOTORS

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	N/A	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	N/A	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

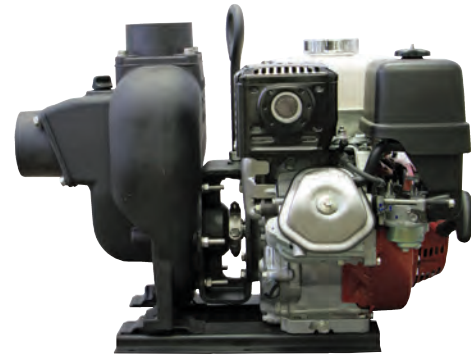


3 "BOMBAS DE FERRO ELENCO

3 "BOMBAS DE FER

FEATURES

- • Construção em ferro fundido para serviço confiável robusto
- Manga do eixo em aço inoxidável para proteger o eixo do motor
- Selo cerâmico carbono com copo de aço inoxidável e mola com borracha FKM
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Bomba apenas embala completo e pronto para fixação para motor a gasolina
- Bomba de pedestal de rolamento para acoplamento longo ao motor elétrico
- Recomendação para 1" eixo: 184TC tamanho do quadro, 7 1/2 HP, 3450 RPM para acoplamento próximo a motores elétricos
- Garantia do motor disponível em revendedores autorizados
- Devido ao peso e tamanho das bombas, banjo envia estes apenas por caminho.



3" CAST IRON PUMP W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300PIH13	3" CAST IRON PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1	6



3" CAST IRON PUMP ONLY

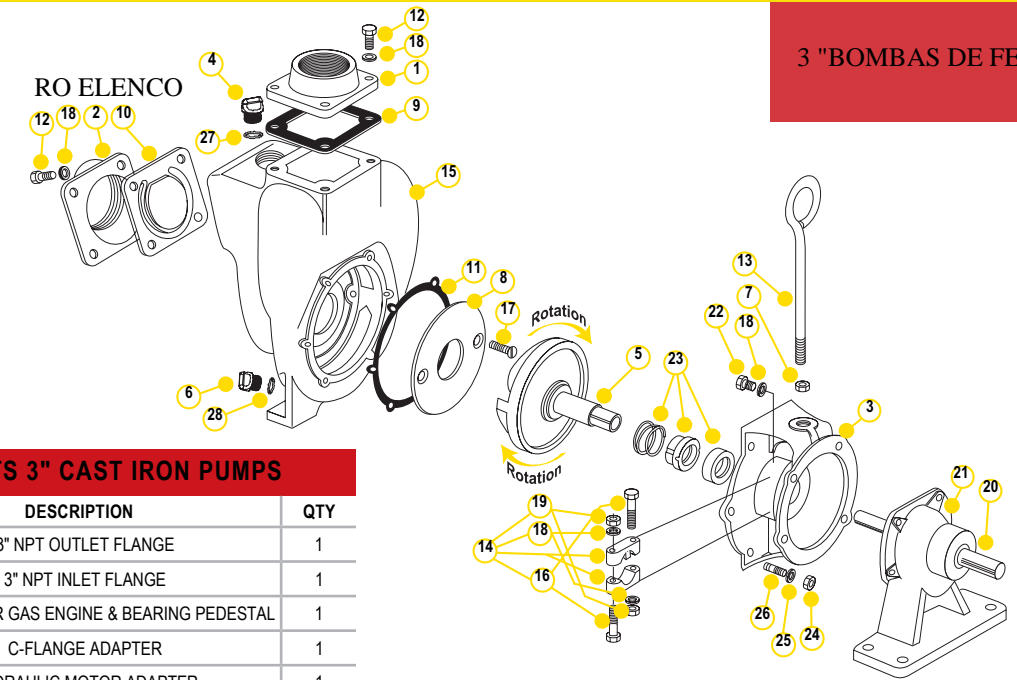
PART NO	DESCRIPTION	HP	QTY	SKID QTY
300POI	3" CAST IRON PUMP ONLY W/ 1" SHAFT SLEEVE	N/A	1	8
300POICF	3" CAST IRON PUMP WITH C-FLANGE	N/A	1	8
300POICF55	3" CAST IRON PUMP WITH C-FACE W/5 1/2" IMPELLER	N/A	1	8

VAI FIT UM TAMANHO DE QUADRO 184TC



3" CAST IRON BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300PBI	3" CAST IRON BEARING PEDESTAL W/ 1" STRAIGHT SHAFT	N/A	1	8



REPLACEMENT PARTS 3" CAST IRON PUMPS

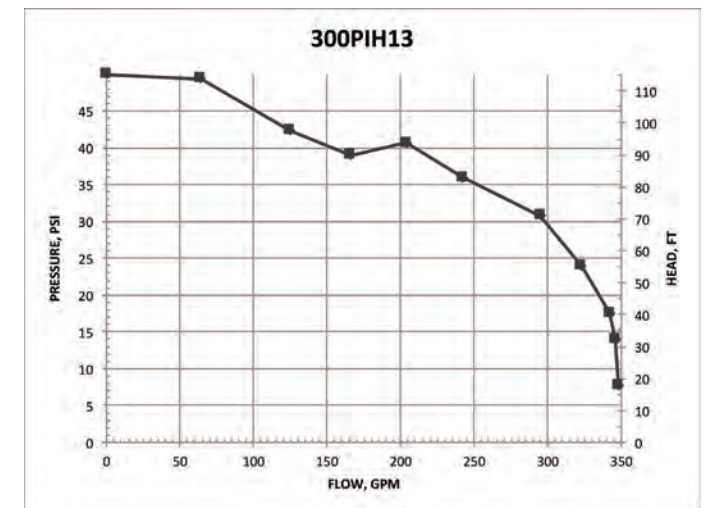
ITEM	PART NO	DESCRIPTION	QTY
1	18008	3" NPT OUTLET FLANGE	1
2	18012	3" NPT INLET FLANGE	1
3	18026	ADAPTER FOR GAS ENGINE & BEARING PEDESTAL	1
3	18048	C-FLANGE ADAPTER	1
3	18049	HYDRAULIC MOTOR ADAPTER	1
N/S	18055	HYDRAULIC ADAPTER SHAFT	1
4	13777	3/4" PLUG	1
5*	18023SS	1" IMPELLER & DRIVE SHAFT FOR GAS ENGINE	1
5	18023-1.125SS	1 1/4" 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	N/A	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	N/A	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



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRITAR OU REDUZIR TAMANHOS DE PORTO OU CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



3 "BOMBAS DE SELO DE FERRO ELENCO

3 "BOMBAS DE SELO DE FERRO ELENCO

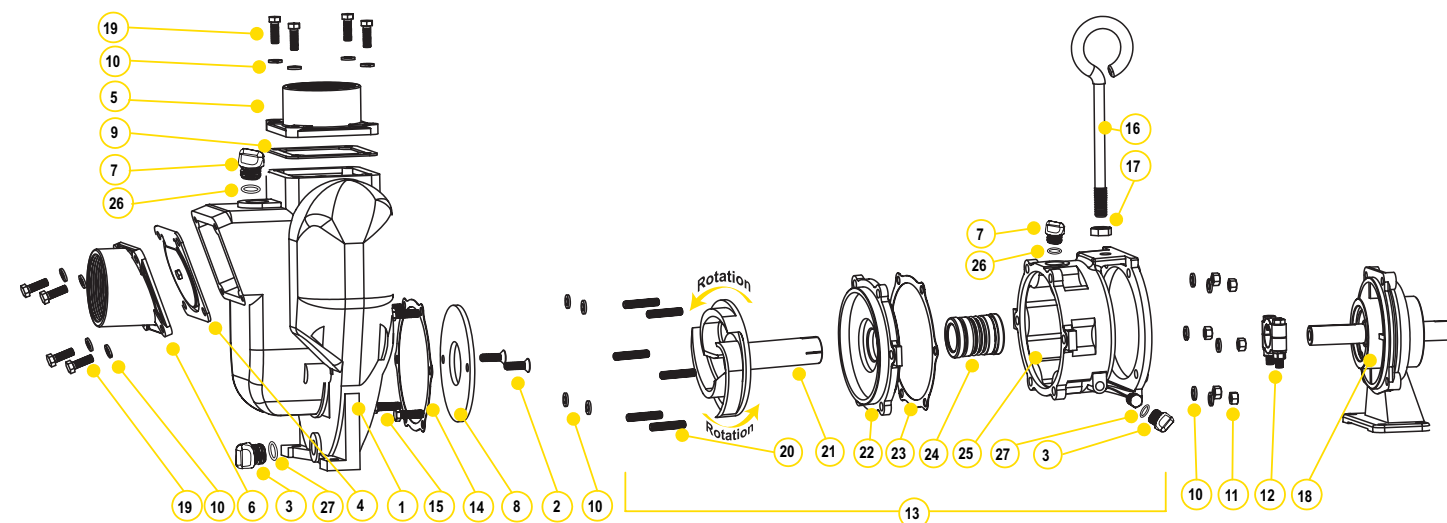
FEATURES

- • Construção em ferro fundido para serviço confiável robusto
- Executar capacidade seca
- Hardware em aço inoxidável
- Selo duplo contido no reservatório de etileno glicol
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Pump only packs completos e prontos para fixação ao motor a gasolina
- Bomba de pedestal para acoplamento longo ao motor elétrico
- Devido ao peso e tamanho das bombas, Banjo envia estes por caminhão Apenas.



3" CAST IRON WET SEAL PUMPS W/GAS ENGINES

PART NO	DESCRIPTION	HP	QTY	SKID QTY
301PIH13W	3" CAST IRON WET SEAL PUMP W/13 HP HONDA® ENGINE W/ ELECTRIC START & PULL ROPE	13	1	6



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



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



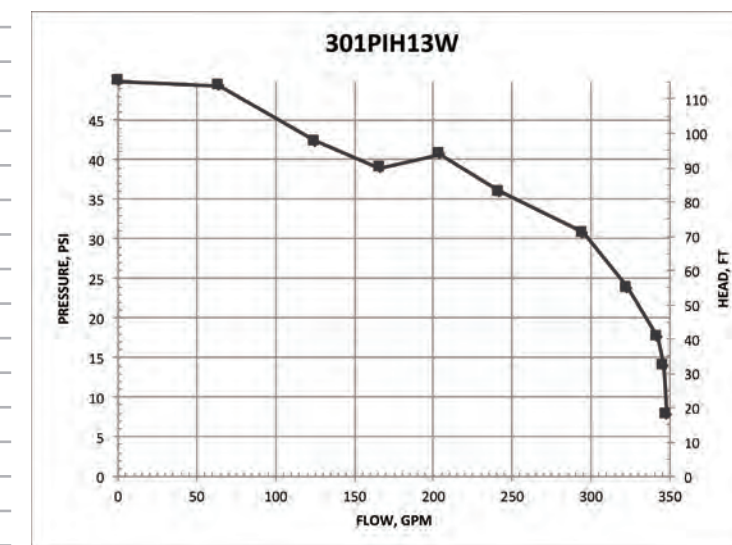
3" CAST IRON WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
301POIW	3" CAST IRON WET SEAL PUMP ONLY	N/A	1	8



3" CAST IRON WET SEAL PUMP BEARING PEDESTAL

PART NO	DESCRIPTION	HP	QTY	SKID QTY
301PBIW	3" CAST IRON WET SEAL PUMP WITH BEARING PEDESTAL	N/A	1	8



CENTRIFUGAL PUMPS

BOMBAS DE FERRO ELEN CO DE 3 "COM MOTORES HIDRÁULICOS

FEATURES

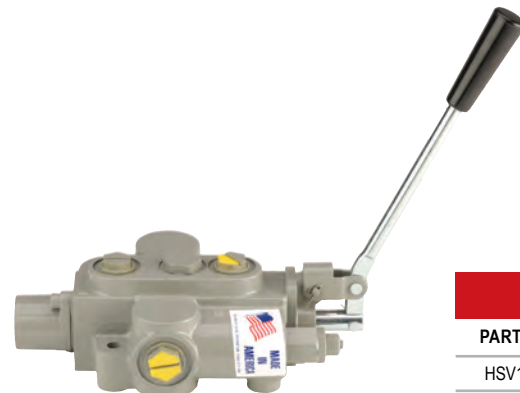
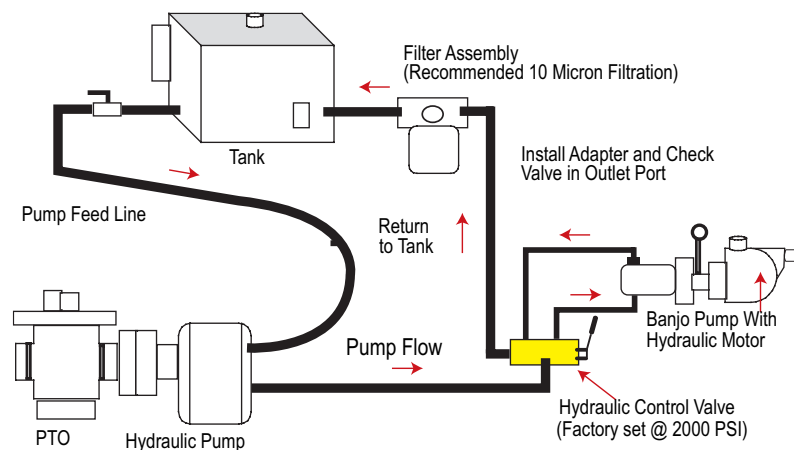
- • Construção em ferro fundido para serviço confiável robusto
- Hardware em aço inoxidável
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Capacidade de fluido hidráulico é mínimo 9 galões e máximo 13 galões
- Sistema aberto ou fechado
- 21 HP motor
- Recomendação usar a válvula de controle do carretel do motor ou um equivalente apropriado. A falta de tal válvula neste circuito pode causar falha no motor hidráulico e anulará a garantia.



3" CAST IRON PUMPS W/ HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
300PIHY	3" CAST IRON PUMP W/ 21 HP HYDRAULIC MOTOR	21	1	8

DIAGRAMA DE MONTAGEM DE VÁLVULA DE SPOOL

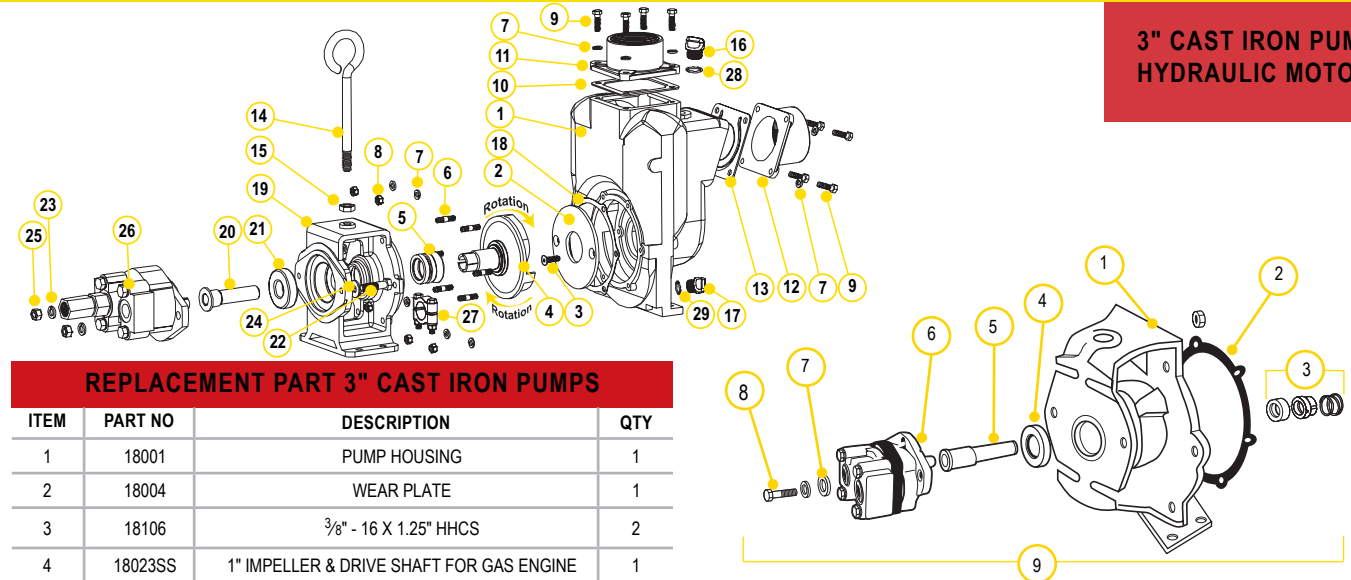


HYDRAULIC MOTOR SPOOL VALVE

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	18023SS	1" IMPELLER & DRIVE SHAFT FOR GAS ENGINE	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	N/A	1/2" SPLIT WASHER	2
24	N/A	1/2" FLAT WASHER	2
25	17010	1/2" - 13 HEX NUT	2
26	HY1012	UM16-45A-HX HYDRAULIC MOTOR ASSEMBLY	1
27	18029	CLAMP ASSEMBLY UNKEYED	1
28	13778	O-RING	1
29	UV15163	O-RING	1
KIT	18100	REPAIR KIT (CONSIST OF 2, 3, 4, 5, 18)	1

REPLACEMENT PARTS 3" HYDRAULIC ADAPTER

ITEM	PART NO	DESCRIPTION	QTY
1	18049	C-FACE HYDRAULIC MOTOR ADAPTER	1
2	18021	GASKET ADAPTER	1
3	18025	SEAL ASSEMBLY	1
4	18502	SKF 63306-2RS1/C3 BEARING	1
5	18055	HYDRAULIC ADAPTER SHAFT SLEEVE	1
6	HY1012	TYRONE® UM16 HYDRAULIC MOTOR	1
7	N/A	1/2" FLAT WASHER	2
8	N/A	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

DADOS DE MOTOR HIDRÁULICO

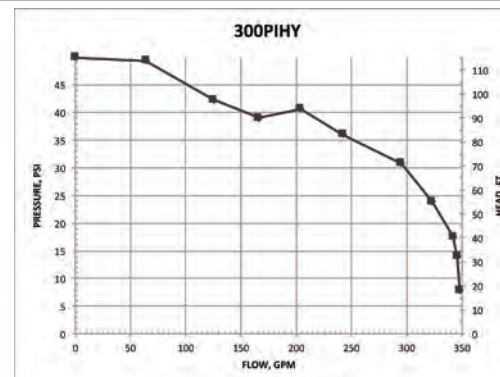
U.S. GALLONS/REV.	0.0038
CUBIC INCHES/REV.	0.878
LITERS/REV.	0.0144
MAX HYDRAULIC PRESSURE	3000 PSI
MIN HYDRAULIC PRESSURE	600 PSI
INLET PORT	1-1/16-12UN-2B
OUTLET PORT	1-5/16-12UN-2B
MINIMUM GPM REQUIRED	9 GPM 2370 RPM
MAXIMUM GPM REQUIRED	13 GPM 3450 RPM
IDEAL GPM REQUIRED	9 GPM 3600 RPM

INFORMAÇÕES DE LIGAÇÃO

INLET " A " OUTLET PORT " B " PORT FORNECIDO VÁLVULA DE VERIFICAÇÃO É PARA GARANTIR ROTAÇÃO ADEQUADA DA BOMBA DE BANJO. VÁLVULA DE VERIFICAÇÃO DO LUGAR NO PORTO OUTLET (MARCADO "B") PARA ROTAÇÃO DE MÃO DIREITA. É RECOMENDADO QUE UMA LINHA MÍNIMA 3/4" INLET & UMA LINHA MÍNIMA 1" OUTLET SEJA USADA. O PORTO OUTLET DEVE SER CONECTADO DIRETAMENTE DE VOLTA À RESERVAÇÃO DE FLUIDOS HIDRÁULICOS E NÃO A QUALQUER VALVAGEM, REGULADORES OU DIVERTERS DE FLUXO. A PRESSÃO DE VOLTA PORTA/RETURN LINE DE VOLTA NÃO DEVE EXCEDER 250 PSI.

SPOOL VALVE INFORMATION

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



3" 333 SÉRIE CAST FERRO BOMBAS • Construção em ferro fundido para serviço confiável e robusto • Selo cerâmico de carb

FEATURES
 • Impulsor dinamicamente equilibrado • Pesados sling er selo ligado Eixo do motor • Grandes furos entre a extremidade da bomba e o motor • Bomba de pedestal para acoplamento longo ao motor elétrico • Devido ao peso e tamanho das bombas, Banjo envia estas apenas por caminhão. • Serviço de garantia do motor disponível no autoriza do Revendedores

POWERED by **HONDA**



333 SERIES CAST IRON PUMPS W/GAS ENGINES

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



333 SERIES CAST IRON PUMP ONLYS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
333POI	3" CAST IRON PUMP ONLY W/1" SHAFT & 5 VANE IMPELLER UNASSEMBLED	N/A	1	6
333POICF	3" CAST IRON PUMP ONLY W/ ELECTRIC MOTOR ADAPTER	N/A	1	6



333 SERIES CAST IRON BEARING PEDESTAL

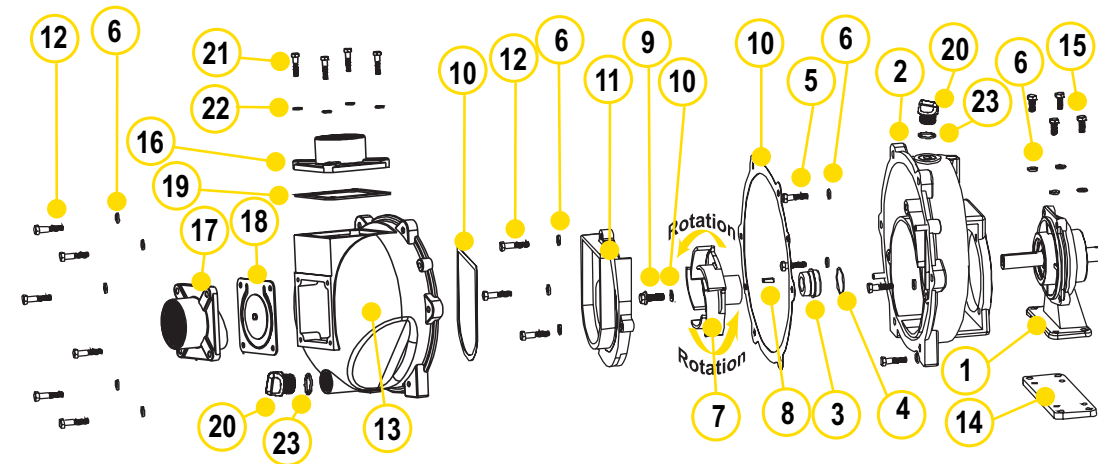
PART NO	DESCRIPTION	HP	QTY	SKID QTY
333PBI	3" CAST IRON BEARING PEDESTAL W/ 1" SHAFT	N/A	1	6



333 SERIES CAST IRON HYDRAULIC PUMPS

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

BOMBAS DE FERRO DE LENCO 3 "333 SÉRIE

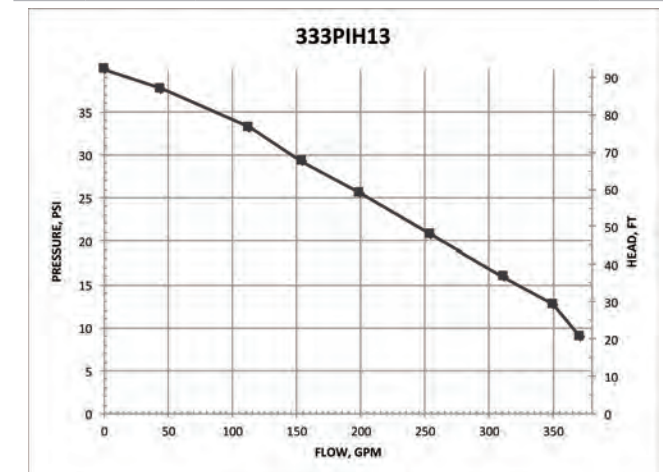


REPLACEMENT PARTS 3" CAST IRON PUMPS

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
7	16774A	3" IMPELLER (333PIE15)	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	N/A	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
NS	16100	REPAIR KIT (CONSIST OF ITEMS 3, 4, 8, 10, 16751, 16752, 16099, 23)	1

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	N/A	3" IMPELLER - 5 VANE	1
8	N/A	1/4" SQ. 3/4" KEY STOCK	1
9	16765	7/16-20 1/4" HFS	1
10	16019	GASKET SET	1
11	16702	VOLUTE	1
12	N/A	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



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

3" M332

FEATURES
 SÉRIE C
 CAST FE
 RRO M
 ANIFOL
 D WET
 SEAL B
 OMBAS

Executa
 r  capacidade
 seca
 NÃO INFLAMÁVEL
 LÍQUIDOS INFLAMÁVEIS

Constru
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SÉRIE M332 BOMBAS DE SELO DE FERRO WET CAST W/MOTORES DE GÁS SE
 LO DE FERRO NÃO DESCRIÇÃO HP QTY SKID QTY M332PIH13W 3" MANIFOLD
 CAST SEAL DE FERRO W/13 HP HONDA® ENGLTRICO

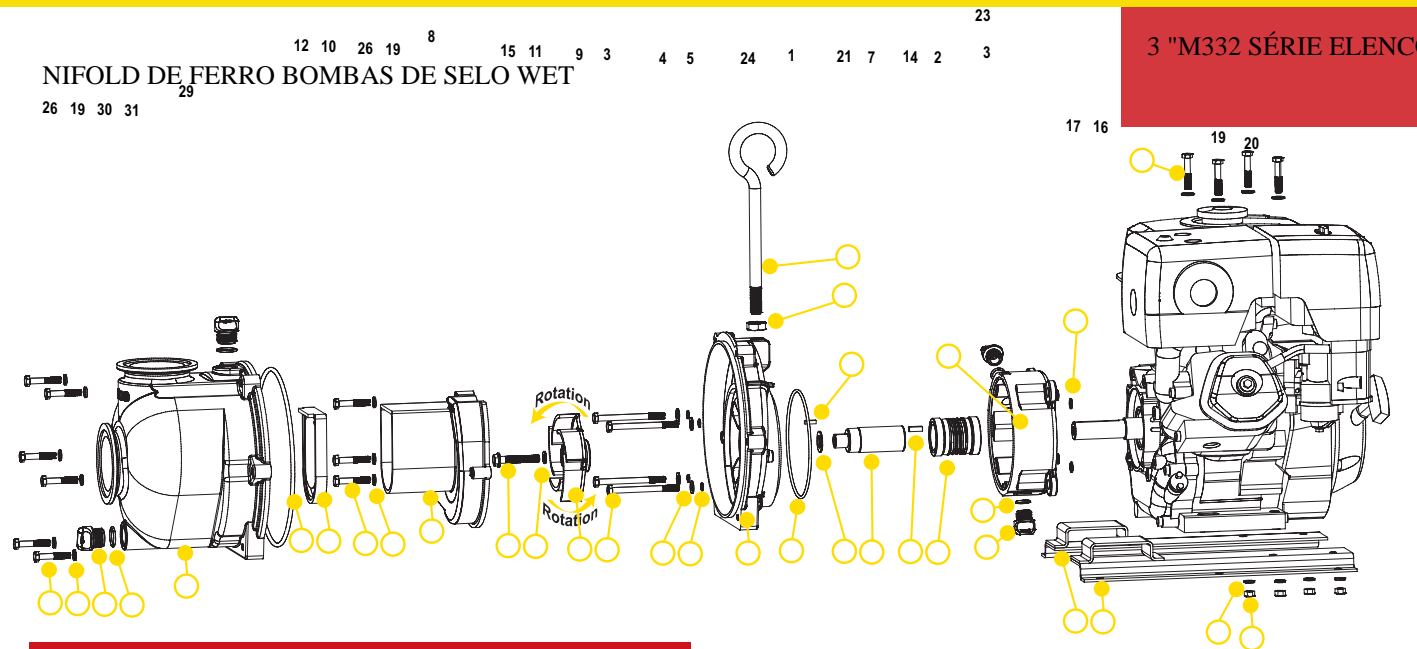


M332 SERIES CAST IRON WET SEAL PUMPS W/ELECTRIC MOTORS

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

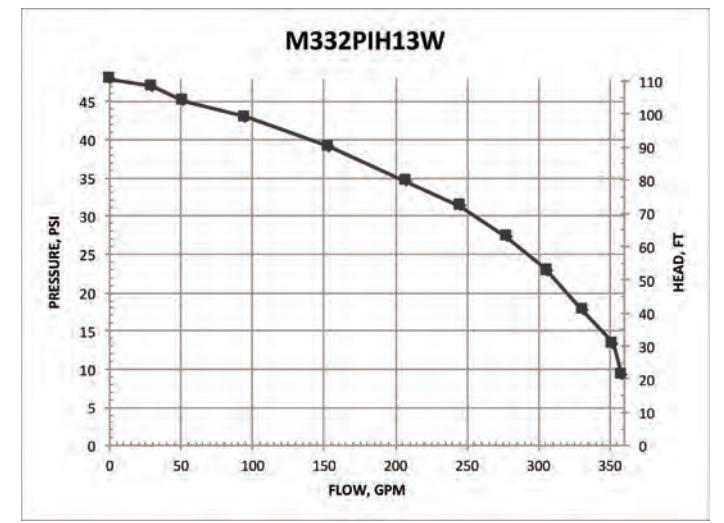
M332 SERIES CAST IRON WET SEAL PUMP ONLY

PART NO	DESCRIPTION	HP	QTY	SKID QTY
M332POIW	3" MANIFOLD CAST IRON WET SEAL PUMP ONLY	N/A	1	6



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	N/A	Z-RAIL	1
17	N/A	Z-RAIL	1
18	N/A	5/16" - 18 X 1 1/4" 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
NS	BEM10-100	10 HP, 215TC, 3 PH, 1" SHAFT	1
NS	BEM101-100	10HP, 215TC, 1 PH, 1" SHAFT	1



3 "M332 SÉRIE ELENCO MA

CENTRIFUGAL PUMPS

3 "M332 SÉRIE CAST FERRO
MANIFOLD MOEDA BOMBA
S DE SELO COM MOTORES
HIDRÁULICOS

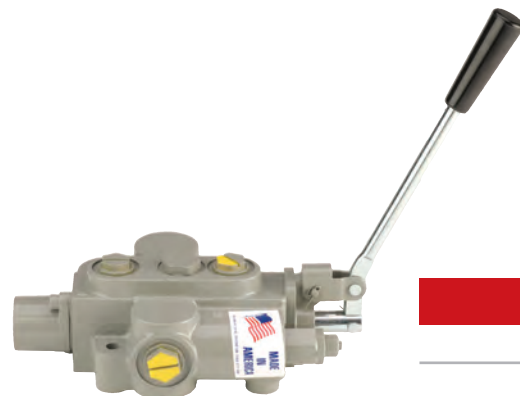
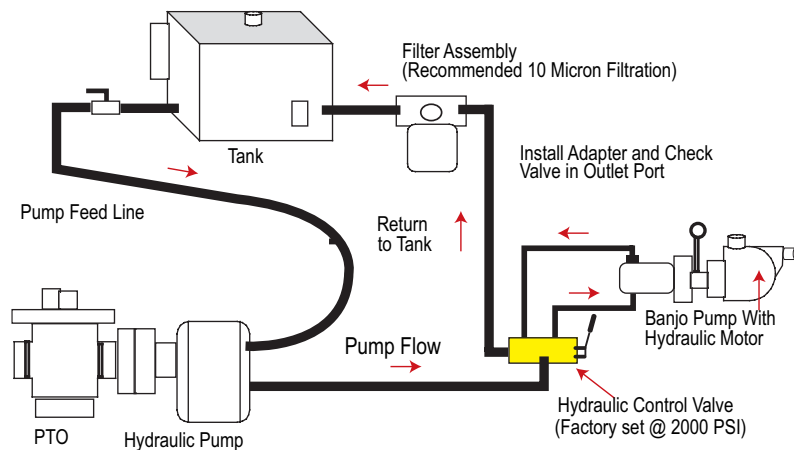
FEATURES

- Executar capacidade seca
- Construção em ferro fundido para serviço confiável robusto
- Selo cerâmico de carbono com co po de aço inoxidável e mola com borracha EPDM
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Pesado Selo slinger dever no eixo do motor
- Capacidade de fluido hidráulico é mínimo 9 galões e máximo 13 galões
- Sistema aberto ou fechado
- 3600 RPM
- Recomendação para usar a válvula de controle do carretel do motor ou um adequado Equiva lente. A falta de tal válvula neste circuito pode causar falha no motor hidráulico e anulará a garanti a.
- Veja as páginas 43-49 em acessórios colectores para encanamento fácil.



M332 SERIES CAST IRON MANIFOLD WET SEAL PUMPS W/O HYDRAULIC MOTOR				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
M332PIHW	3" MANIFOLD CAST IRON WET SEAL PUMP W/ HYDRAULIC MOTOR	21	1	8
M332PIHAW	3" MANIFOLD CI WET SEAL PUMP WITHOUT HYDRAULIC MOTOR	N/A	1	1

DIAGRAMA DE MONTAGEM DE VÁLVULA DE SPOOL

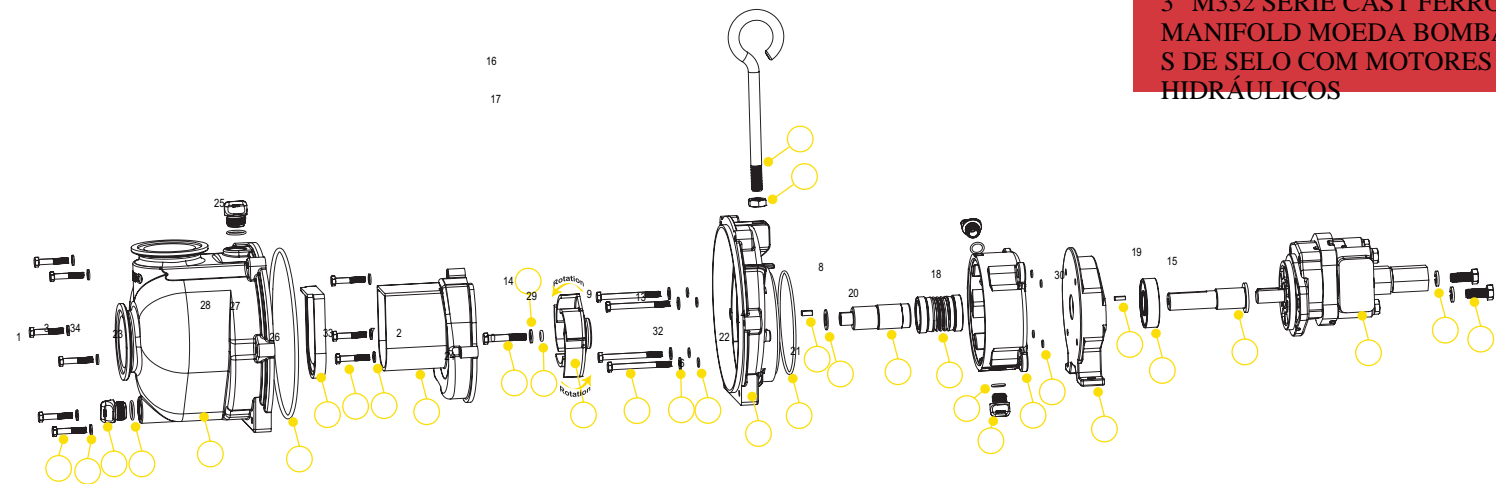


VÁLVULA DE SPOOL DE MOTOR HIDRÁULICO PART NO

HSV1000

CENTRIFUGAL PUMPS

3 "M332 SÉRIE CAST FERRO
MANIFOLD MOEDA BOMBA
S DE SELO COM MOTORES
HIDRÁULICOS



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	1/2" SQ. 3/4" KEY STOCK	1
15	N/A	BOLT	2
16	18033	HANDLE	1
17	18034	5/8" SS JAM NUT	1
18	18055H	HYDRAULIC MOTOR ADAPTER SHAFT	1
19	N/A	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	N/A	3/8" FLAT WASHER	1
26	19772SS	5 VANE IMPELLER	1
27	A204	O-RING	1
28	BF311	3/8" - 16 X 3" 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 SPOOL VALVE

N/A

1

HYDRAULIC MOTOR DATA

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

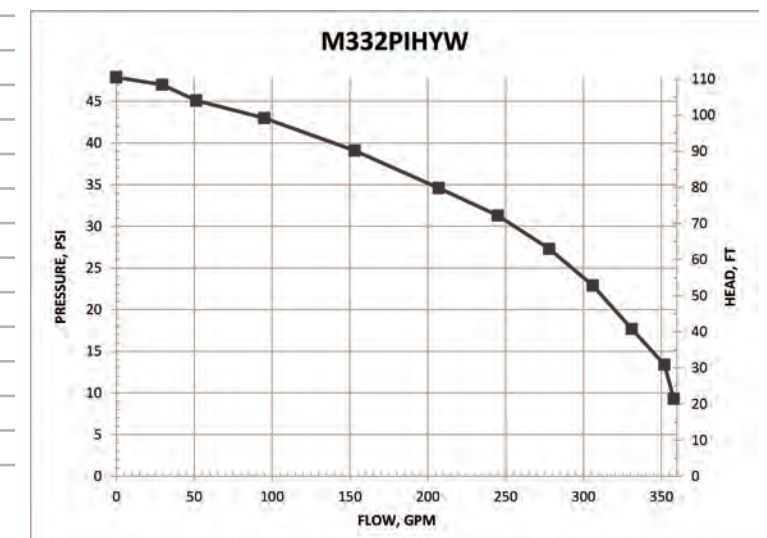
CONNECTION INFORMATION

INLET	"A" PORT
OUTLET	"B" PORT

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

SPOOL VALVE INFORMATION

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



AVISO! NÃO USE COM
LÍQUIDOS INFLAMÁVEIS

4 "SÉRIE 444 ELENCO BO MBAS DE FERRO

FEATURES

- • Construção em ferro fundido para serviço confiável robusto
- Selo cerâmico de carbono com copo de aço inoxidável e mola com borracha FKM
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Heavy duty slinger selo no eixo do motor
- Grandes furos de choro entre a extremidade da bomba e motor
- Recomendação para 444POI: Usar com 10 libras por galão de material ou mais
- Devido ao peso e tamanho das bombas, Banjo envia estas apenas por caminhão
- Serviço de garantia do motor disponível em revendedores autorizados



444 SERIES CAST IRON PUMPS W/GAS ENGINES

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



444 SERIES CAST IRON PUMP BEARING PEDESTAL

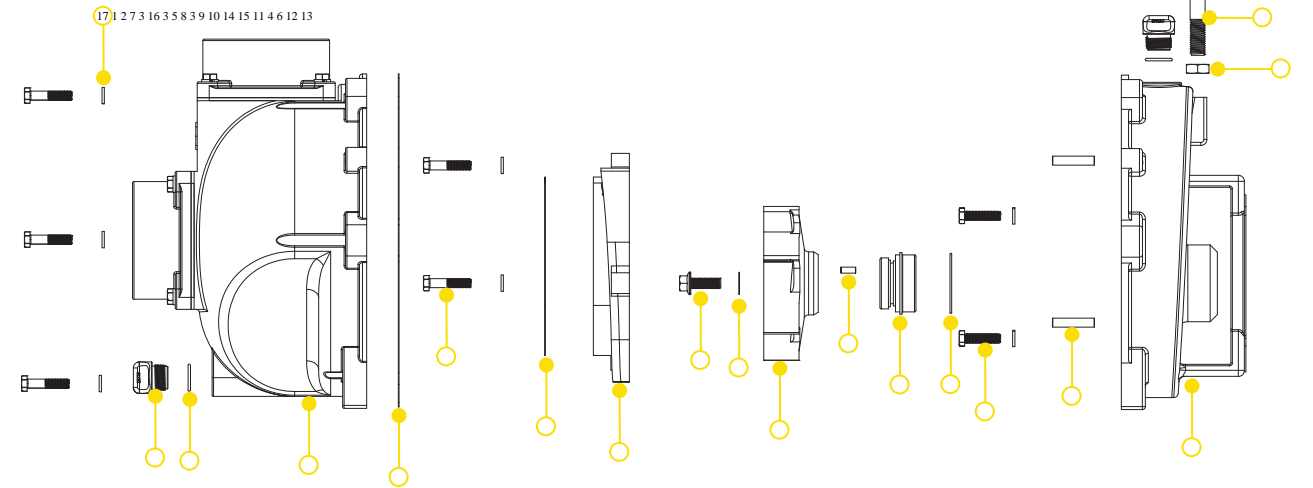
PART NO	DESCRIPTION	HP	QTY	SKID QTY
444PBI	4" CAST IRON PUMP W/BEARING PEDESTAL W/ 1" SHAFT & 5 VANE IMPELLER	N/A	1	6



444 SERIES CAST IRON PUMP ONLYS

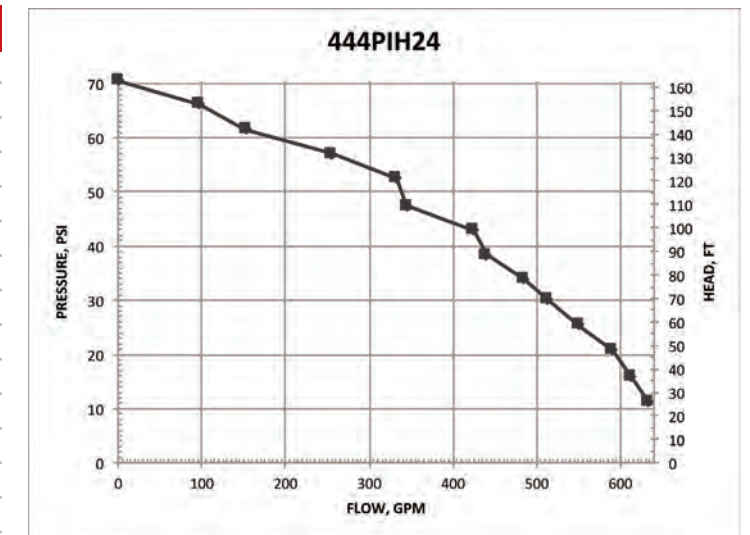
PART NO	DESCRIPTION	HP	QTY	SKID QTY
444POI	4" CAST IRON PUMP ONLY W/ 1 1/2" X 3 1/2" SHAFT & 6 VANE IMPELLER UNASSEMBLED	N/A	1	6

4" 444 SERIES CAST IRON PUMPS



REPLACEMENT PARTS 4" CAST IRON PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	13777	3/4" PLUG	2
2	13778	O-RING	2
3	16019	GASKET	1
4	N/A	3/8" X 1 1/4" DOWELL PIN	2
5	16702	VOLUTE	1
6	16707	REAR BRACKET	1
7	16712	BODY	1
8	16765	IMPELLER BOLT	1
9	16775	4" IMPELLER	1
10	16901	1/4" SQ. 3/4" KEY STOCK	1
11	18027	3/8" - 16 X 1.50" HHCS	4
12	18033	HANDLE	1
13	18034	5/8" SS JAM NUT	1
14	18435	MECHANICAL SEAL	1
15	V10264	O-RING	1
16	N/A	3/8"-16 X 1 1/4" HHCS	9
17	V20018	3/8" SS LOCK WASHER	13



Note: Please see repair parts list for 444PBI on our website.



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRITAR OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

CENTRIFUGAL PUMPS

CENTRIFUGAL PUMPS

2 "BOMBAS DE AÇO INOXIDÁVEL

2" STAINLESS STEEL PUMPS

FEATURES

- ALL FKM SEALS • 316 stainless steel pump housing and internal components
- Impeller, sleeve, wear plate, inlet and outlet flanges and fasteners • Carbon ceramic seal with 316 stainless steel cap and FKM elastomer spring
- Dynamic balanced impeller • Pump comes in complete packages and ready for mounting to motor or gasoline engine
- Pedestal pump for long life motor • Recommendation for shaft size: 3/4" for 56C, 3 HP, 3450 RPM & 5" impeller for electric motor • Recommendation for shaft size: 1/2" for 145TC, 3 HP, 3450 RPM & 5" impeller for electric motor • Service guarantee of motor is available at authorized dealers • Due to weight and size of pumps, Banjo ships these pumps by freight.



2" STAINLESS STEEL PUMPS W/GAS ENGINES				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PH5-SS	2" SS PUMP W/5.5 HP HONDA® ENGINE W/ PULL ROPE ONLY	5.5	1	8



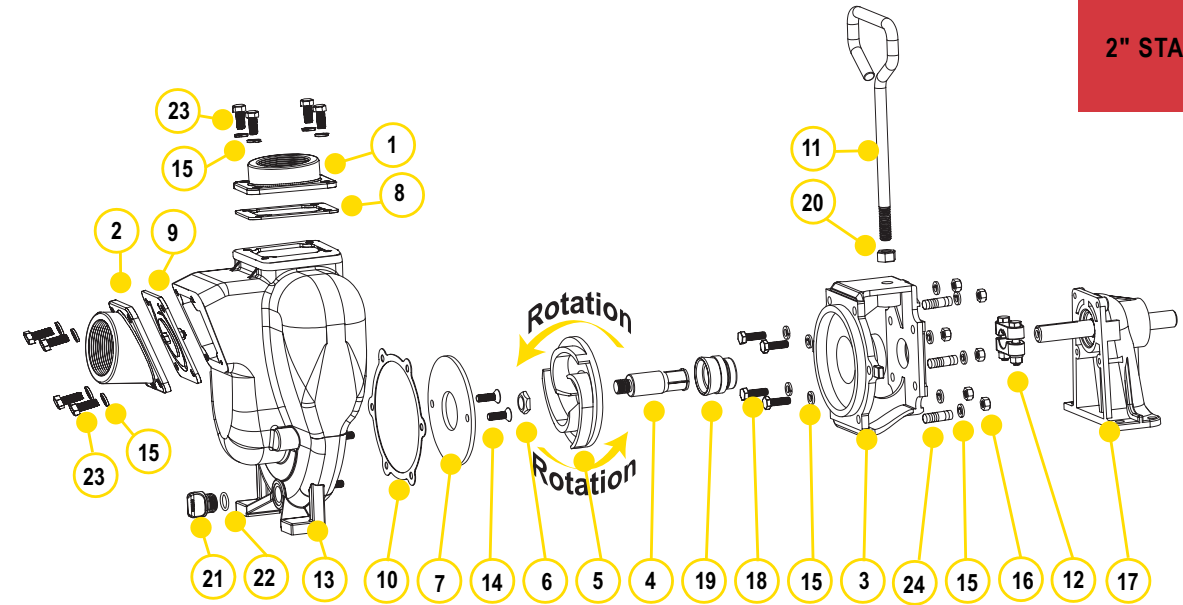
2" STAINLESS STEEL PUMP ONLY				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PO-SS	2" SS PUMP ONLY W/ 3/4" SHAFT SLEEVE	N/A	1	27



2" STAINLESS STEEL C-FACE PUMPS				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
200POSSCF5/8	2" SS C-FACE PUMP W/ 5/8" SHAFT SLEEVE	N/A	1	18



2" STAINLESS STEEL BEARING PEDESTAL				
PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PB-SS	2" SS BEARING PEDESTAL W/ 3/4" STRAIGHT SHAFT*	N/A	1	18



REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	17000SS	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	N/A	4.1" SS IMPELLER	1
5	N/A	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

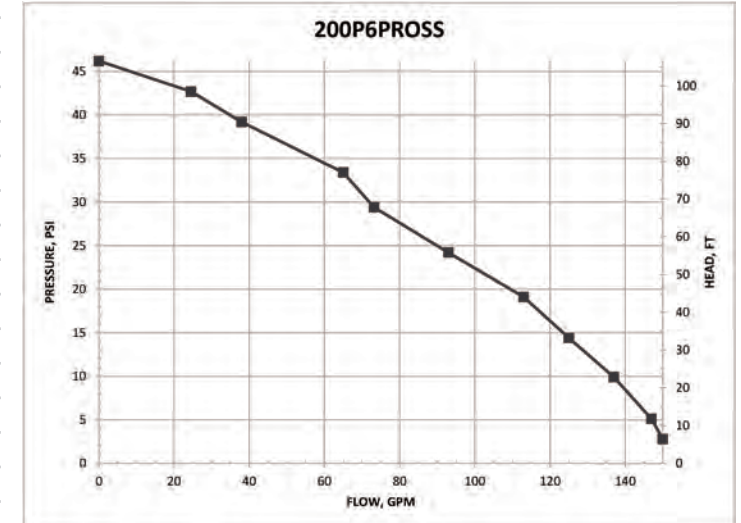
KITS 2" SS PUMPS

PART NO	FKM REPAIR KIT NO
200PH5-SS	17100SS
200PB-SS	17100SS
200PO-SS	17100SS

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



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

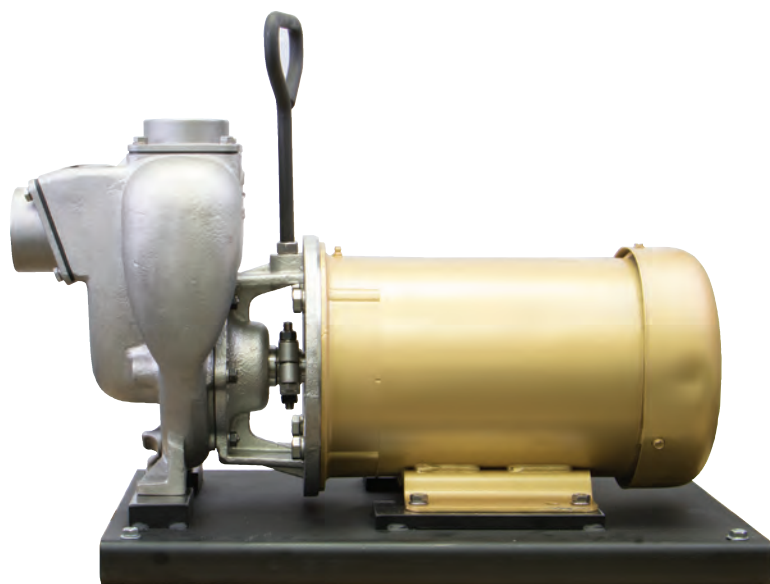


CENTRIFUGAL PUMPS

BOMBAS DE AÇO INOXIDÁVEL DE 2" COM MOTORES ELÉTRICOS

FEATURES

- Construção em aço inoxidável para serviço confiável robusto
- Manga do eixo em aço inoxidável para proteger o eixo do motor
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Devido ao peso e tamanho das bombas, Banjo envia estes apenas por caminhão
- Motor warranty service available at authorized dealers
- As características do motor incluem placas finais de alumínio fundido sob pressão com design nervurado para rigidez, estrutura de aço de calibre pesado, 230 volts, com fio magnético resistência ao pico do inversor



2" STAINLESS STEEL PUMPS W/ELECTRIC MOTORS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
234PE5SS	2" STAINLESS STEEL PUMP W/5 HP THREE PHASE ELECTRIC MOTOR	5	1	3



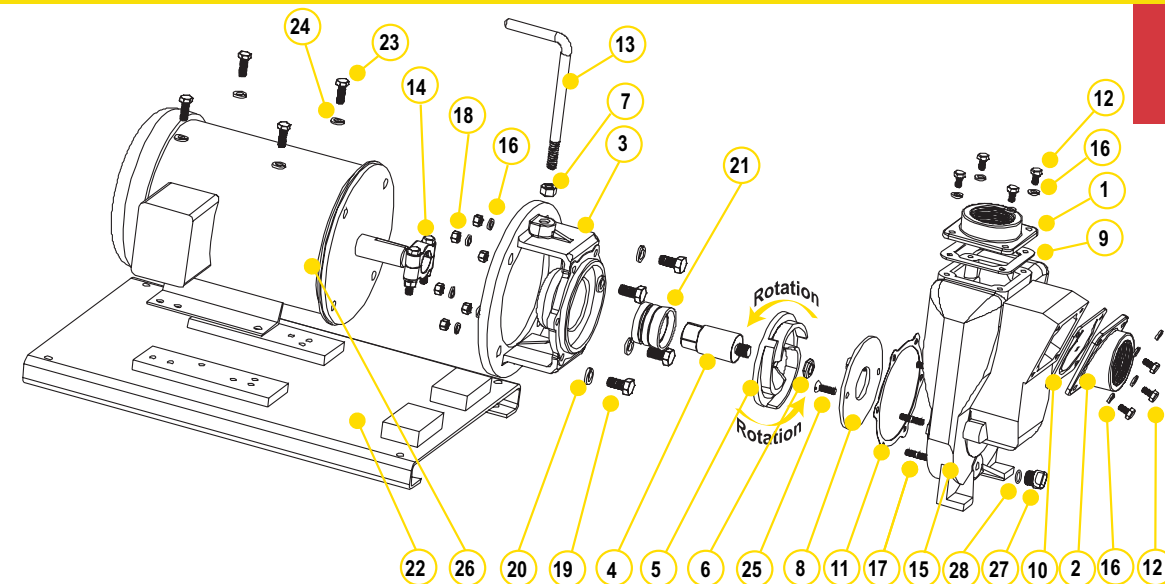
AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRIITAR OU REDUZIR TAMAHHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

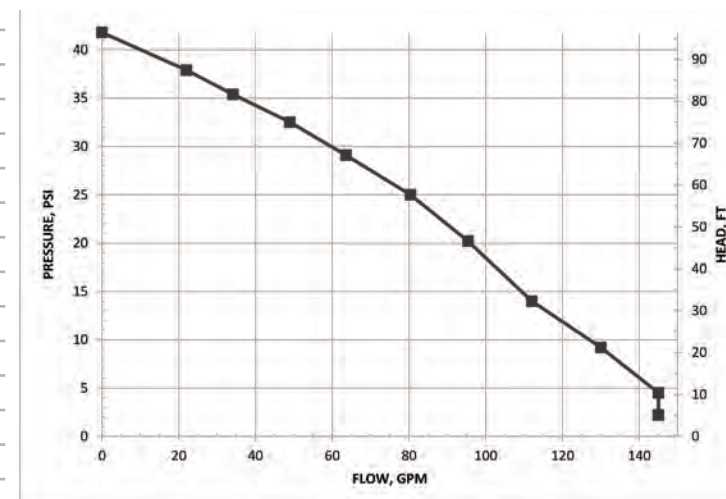
CENTRIFUGAL PUMPS

2" BOMBAS DE AÇO INOXIDÁVEL COM MOTORES ELÉTRICOS DE 5 HP



REPLACEMENT PARTS 2" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	1700SS	2" NPT OUTLET FLANGE	1
2	1702SS	2" NPT INLET FLANGE	1
3	17446SS	C-FACE ADAPTER	1
4	17406	IMPELLER SHAFT	1
5	17408SS	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	18129	CLAMP ASSEMBLY	1
15	17026SS	PUMP HOUSING	1
16	V10118	5/16" LOCK WASHER	20
17	17042	HOUSING STUD	6
18	V10119	HEX NUT	8
19	N/A	BOLT	4
20	N/A	WASHER	4
21	18025SS	SEAL ASSEMBLY	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	N/A	ELECTRIC MOTOR	1
27	12777SS	1/2" STAINLESS STEEL PLUG	1
28	UV15163V	FKM O-RING	1



CENTRIFUGAL PUMPS

2 "BOMBAS DE AÇO INOXI DÁVEL COM MOTORES HIDRÁULICOS

FEATURES

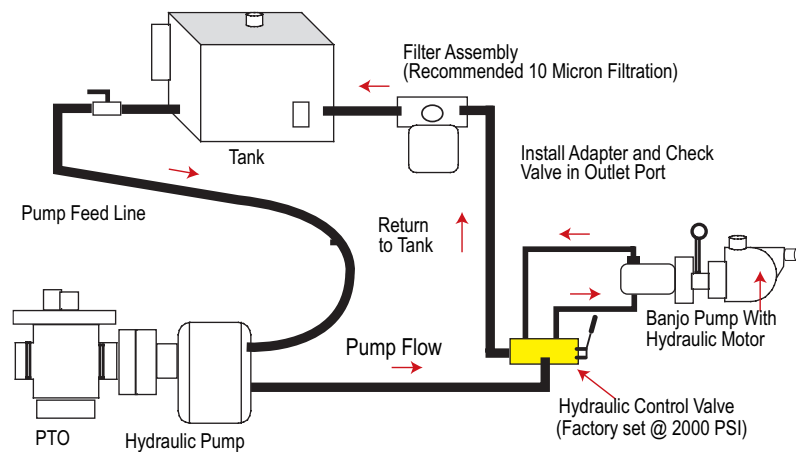
- Construção em ferro fundido para serviço confiável robusto
- Hardware em aço inoxidável
- Flanges de entrada e saída substituíveis
- Impulsor dinamicamente equilibrado
- Capacidade de fluido hidráulico é mínimo 6 galões e máximo 10 galões
- Sistema aberto ou fechado
- 12 HP motor
- Recomendação usar a válvula de controle do motor ou um equivalente apropriado. A falta de tal válvula neste circuito pode causar falha no motor hidráulico e anulará a garantia.



2" STAINLESS STEEL PUMPS W/ HYDRAULIC MOTORS

PART NO	DESCRIPTION	HP	QTY	SKID QTY
200PHYSS	2" STAINLESS STEEL PUMP W/ 12 HP HYDRAULIC MOTOR	12	1	18

DIAGRAMA DE MONTAGEM DE VÁLVULA DE SPOOL



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRIAR OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS

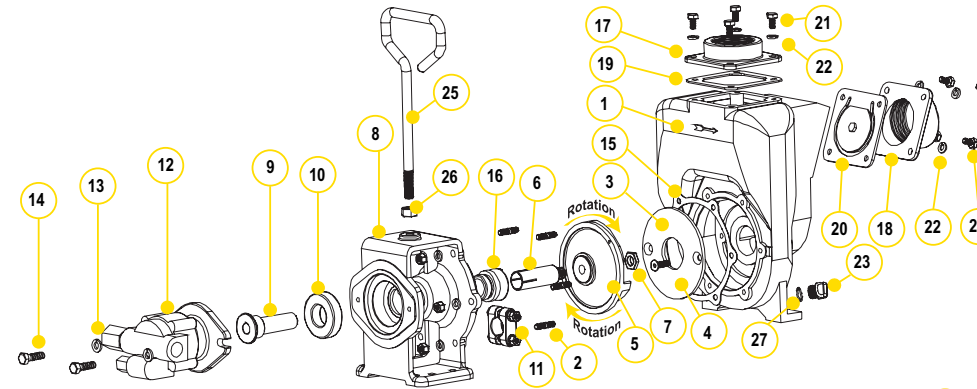


VÁLVULA DE SPOOL DE MOTOR HIDRÁULICO

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

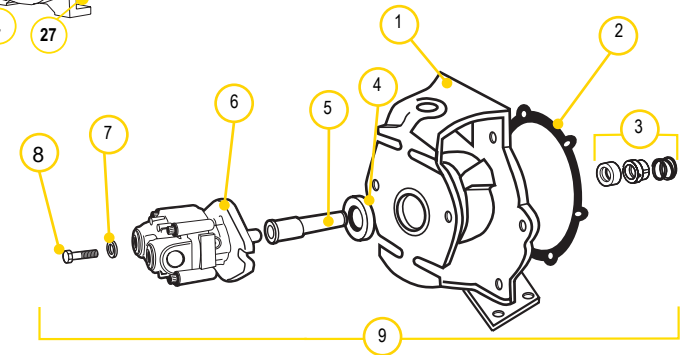
CENTRIFUGAL PUMPS

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" HHC	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



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

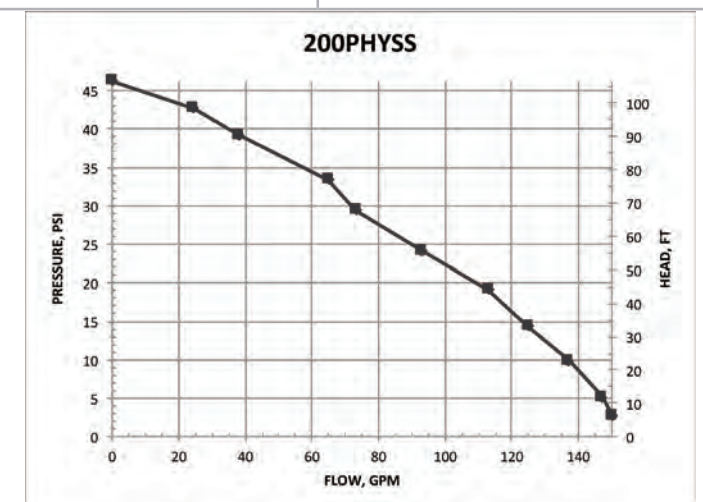
A VÁLVULA DE VERIFICAÇÃO FORNECIDA É GARANTIR A ROTAÇÃO ADEQUADA DA BOMBA. VERIFIQUE A VÁLVULA NO PORTO OUTLET (MARCADO " B ") PARA ROTAÇÃO DE MÃO.

INFORMAÇÕES DE VÁLVULA DE SPOOL NECESSÁRIO

FLOW MIN 6 GPM / MAX 10 GPM PRESSÃO DE SISTEMA NECESSÁRIO MIN 500 PSI / MAX 2000 PSI

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

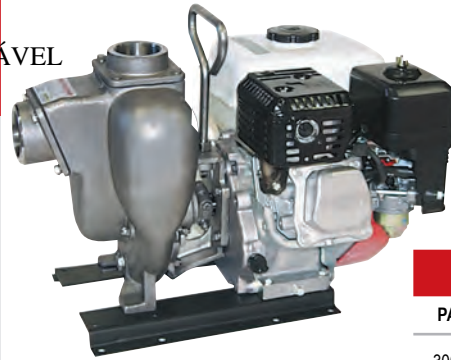


CENTRIFUGAL PUMPS

3 "BOMBAS DE AÇO INOXIDÁVEL

FEATURES

- 316 carcaça de aço inoxidável e componentes internos molháveis incluindo impulsor, luva, D esgaste placa e fixadores • Selo cerâmico carbono com copo de aço inoxidável 316 e mola com elastômero FKM • Flanges de entrada e saída substituíveis • Impulsor dinamicamente balanceado • Bomba apenas pacotes completos e prontos para fixação ao motor a gasolina • Bomba de pedestal para acoplamento longo ao motor elétrico • Recomendação para o eixo "": tamanho do quadro 56C, 3 HP, 3450 RPM & 5" impulsor máximo para acoplamento próximo aos motores elétricos • Recomendação para o eixo: 145TC tamanho do quadro, 3 HP, 3450 RPM & 5" impulsor máximo para acoplamento próximo a motores elétricos • Serviço de garantia do motor disponível em revendedores autorizados • Devido ao peso e tamanho das bombas, Banjo em via estes apenas por caminhão.



3" STAINLESS STEEL PUMPS W/GAS ENGINES					
PART NO	DESCRIPTION	HP	QTY	SKID QTY	
300PH13SS	3" SS PUMP W/13 HP HONDA® ENGINE W/ELECTRIC START & PULL ROPE	13	1	6	



3" STAINLESS STEEL PUMP ONLY					
PART NO	DESCRIPTION	HP	QTY	SKID QTY	
300PO-SS	3" SS PUMP ONLY W/ 1" SHAFT SLEEVE	N/A	1	8	



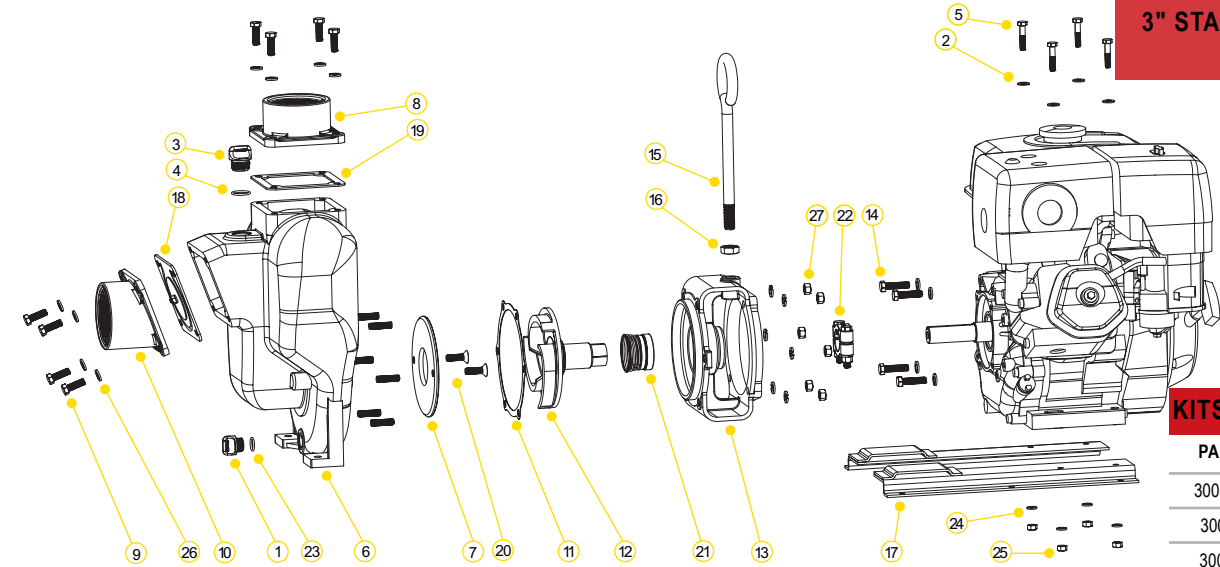
3" STAINLESS STEEL BEARING PEDESTAL					
PART NO	DESCRIPTION	HP	QTY	SKID QTY	
300PB-SS	3" SS BEARING PEDESTAL W/ 1" STRAIGHT SHAFT	N/A	1	8	



3" STAINLESS STEEL PUMPS W/ HYDRAULIC MOTOR					
PART NO	DESCRIPTION	HP	QTY	SKID QTY	
300PHYSS	3" STAINLESS STEEL PUMP W/ 21 HP HYDRAULIC MOTOR	12	1	8	

CENTRIFUGAL PUMPS

3" STAINLESS STEEL PUMPS



KITS 3" SS STEEL PUMPS

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

REPLACEMENT PARTS 3" STAINLESS STEEL PUMPS

ITEM	PART NO	DESCRIPTION	QTY
1	12777SS	½" STAINLESS STEEL PLUG	1
2	12901	SS REAR BRACKET WASHER	4
3	13777SS	¾" STAINLESS STEEL PLUG	1
4	13778V	O-RING FKM	1
5	N/A	5/16" - 18 X 1 3/4" ZINC PLATED	4
6	18001SS	SS PUMP HOUSING	1
7	18004SS	SS WEAR PLATE	1
8	N/A	3" NPT OUTLET FLANGE	1
9	18010SS	¾" - 16 X 1 1/8" SS CAP SCREW HXHD	8
10	N/A	3" NPT INLET FLANGE	1
11	18021	ADAPTER GASKET	1
12	18023SS	1" SS IMPELLER & DRIVE SHAFT FOR GAS ENGINE	1
12	18023-1.125SS	1 1/8" SS IMPELLER & DRIVE SHAFT FOR ELECTRIC MOTOR (300PO-SSCF)	1
13	18026SS	ADAPTER FOR GAS ENGINE	1
13	18049SS	ADAPTER FOR HYDRAULIC MOTOR (300PHYSS)	1
14	18027	¾" - 16 X 1 1/2" HHCS	4
15	18033	HANDLE	1
16	18034	¾" SS JAM NUT	1
17	18035	Z RAILS	1
18	18042	FKM GASKET CHECKVALVE ASSEMBLY	1
19	18044	FKM OUTLET GASKET	1
20	18106SS	WEAR PLATE FLAT HEAD SCREW	2
21	18025SS	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	¾" SS LOCK WASHER	18
27	V20019	¾" 16 SS HEX NUT	6
KIT	18100SS	REPAIR KIT(CONSIST OF ITEMS 7,11,12, 20 & 21)	1

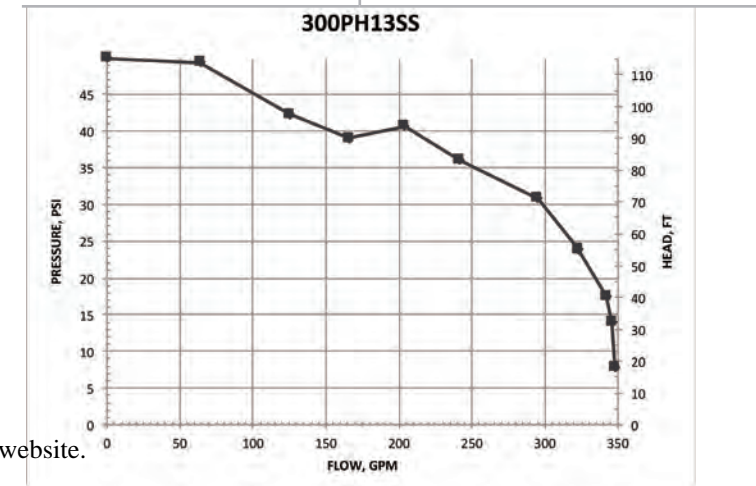
DADOS DE MOTOR HIDRÁULICO

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

INFORMAÇÕES DE CONEXÃO INLET " A " OUTLET PORT " B " PORT FORNECIDO VÁLVULA DE VERIFICAÇÃO É PARA GARANTIR A ROTAÇÃO ADEQUADA DA BOMBA DE BANJO. VÁLVULA DE VERIFICAÇÃO DO LUGAR NO PORTO OUTLET (MARCADO "B") PARA ROTAÇÃO DE MÃO DIREITA. É RECOMENDADO QUE UMA LINHA MÍNIMA ¾" INLET & UMA LINHA MÍNIMA 1" OUTLET SEJA USADA. O PORTO OUTLET DEVE SER CONECTADO DIRETAMENTE DE VOLTA À RESERVAÇÃO DE FLUIDOS HIDRÁULICOS E NÃO A QUALQUER VALVAGEM, REGULADORES OU DIVERTERS DE FLUXO. A PRESSÃO DE VOLTA PORTA/RETURN LINE DE VOLTA NÃO DEVE EXCEDER 250 PSI.

SPOOL VALVE INFORMATION

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



Nota: Consulte a lista de peças de reparação 300PHYSS no nosso website.



AVISO! NÃO FUNCIONE A BOMBA SECA, RESTRITAR OU REDUZIR TAMANHOS DE PORTO OU BOMBA DE CABEÇA MORTA



AVISO! NÃO USE COM LÍQUIDOS INFLAMÁVEIS



TANK WALL GUIDE FOR BANJO TANK FITTINGS		
PART NO	DESCRIPTION	MAX TANK WALL THICKNESS
BF075	¾" BLIND HOLE TANK FLANGE	.250
BF075D	¾" X 1" BOTTOM DRAIN FLANGE EPDM THREAD	.250
BF100	1" BLIND HOLE BOLTED TANK FLANGE	.250
BF100BD	1" X 1" BOTTOM DRAIN FLANGE EPDM THREAD	.250
BF150	1½" BOLTED TANK FLANGE	.280
BF150BD	1½" X 2" BOTTOM DRAIN FLANGE EPDM THREAD	.220
BF200	2" BLIND HOLE BOLTED TANK FLANGE	.280
BF200BD	2" X 2" BOTTOM DRAIN FLANGE EPDM THREAD	.220
BF200V	2" X 2" THREADED FLANGE W/FKM GASKET	.280
BF220	2" FULL PORT BOLTED TANK FLANGE	.250
BF220BD	2" X 2" FULL PORT BOTTOM DRAIN FLANGE EPDM THREAD	.250
BF300	3" X 3" BOLTED TANK FLANGE	.500
BF300BD	3" X 3" BOTTOM DRAIN FLANGE EPDM THREAD	.500
MBF100	1" BOLTED MANIFOLD TANK FLANGE WITH 2¼" BOLTS	.280
MBF100BD	1" BOTTOM DRAIN MANIFOLD BOLTED TANK FLANGE EPDM THREAD	.280
MBF200	2" BOLTED MANIFOLD TANK FLANGE WITH 2½" BOLTS	.210
MBF200BD	2" BOTTOM DRAIN MANIFOLD TANK FLANGE	.500
MBF220	2" FULL PORT MANIFOLD FLANGE WITH 2½" BOLTS	.320
MBF220BD	2" FULL PORT MANIFOLD BOTTOM DRAIN FLANGE EPDM THREAD	.550
MBF300	3" BOLTED MANIFOLD TANK FLANGE EPDM THREAD	.500
MBF300BD	3" BOTTOM DRAIN MANIFOLD TANK FLANGE EPDM THREAD	.500

BRIGGS & STRATTON ENGINES						
BANJO PART NUMBER	E3	E6.5PRO	E6.5PROE	E11PROE	E11PRO100E	E14VAN
MANUFACTURER	Briggs & Stratton	Briggs & Stratton	Briggs & Stratton	Briggs & Stratton	Briggs & Stratton	Vanguard
MODEL NUMBER	083132-1110-F1	130G32-0122-F1	130G37-0183-F1	19N137-0076-F1	2123320140B1G1016	25V337-0012-F1
RATED HP @ 3600 RPM	3.5	6.5	6.5	11	11	14
RATED TORQUE @ 2800 RPM	4.9 ft lbs	9 ft lbs	9 ft lbs	15.5 ft lbs	15.5 ft lbs	20.8 ft lbs
SHAFT SIZE	¾"	¾"	¾"	¾"	1"	1"
KEYWAY SIZE	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"
SHAFT ID THREAD	5/16"-24 UNF 2B	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
ENGINE OIL REQUIRED	Synthetic 5W30	40F+30W, 30F-5W30	40F+30W,30F-5W30	Synthetic 10W30	Synthetic 10W30	Synthetic 5W30 suggested; see manual
ENGINE OIL CAPACITY	21 oz	20 oz	20 oz	28 oz	28 oz	32 oz
FUEL REQUIRED	87 (10% ethanol max)	87 (10% ethanol max)	87 (10% ethanol max)	87 (10% ethanol max)	87 (10% ethanol max)	87 (10% ethanol max)
FUEL TANK CAPACITY	1/2 gallon	1 gallon	.825 gallon	1 gallon	1 gallon	1 1/2 gallon
OIL ALERT	N	Y	Y	Y	Y	Y
ELECTRIC START	N	N	Y	Y	Y	Y
OVER HEAD VALVE	Y	Y	Y	Y	Y	Y

HONDA ENGINES						
BANJO PART NUMBER	E5H	E5HE	E6H	E8H	E11H	E13H
MANUFACTURER	HONDA	HONDA	HONDA	HONDA	HONDA	HONDA
MODEL NUMBER	GX160	GX160	GX200	GX240	GX340	GX390
RATED HP @ 3600 RPM	5.4 HP	5.4 HP	6.4 HP	8 HP	11 HP	13 HP
RATED TORQUE @ 2500 RPM	8 ft lbs	8 ft lbs	7.76 ft lbs	12.3 ft lbs	17.4 ft lbs	19.5 ft lbs
SHAFT SIZE	¾"	¾"	¾"	1"	1"	1"
KEYWAY SIZE	3/16"	3/16"	3/16"	1/4"	1/4"	1/4"
SHAFT ID THREAD	5/16"-24 UNF 2B	5/16"-24 UNF 2B	5/16"-24 UNF 2B	3/8"-24 UNF 2B	3/8"-24 UNF 2B	3/8"-24 UNF 2B
ENGINE OIL REQUIRED	10W30	10W30	10W30	10W30	10W30	10W30
ENGINE OIL CAPACITY	.63 QT	.63 QT	.63 QT	1.16 QT	1.16 QT	1.16 QT
FUEL REQUIRED	86 (10% ETHANOL MAX)	86 (10% ETHANOL MAX)	86 (10% ETHANOL MAX)	86 (10% ETHANOL MAX)	86 (10% ETHANOL MAX)	86 (10% ETHANOL MAX)
FUEL TANK CAPACITY	.95 GALLON	.95 GALLON	.95 GALLON	1.59 GALLON	1.72 GALLON	1.72 GALLON
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

HYDRAULIC MOTORS				
BANJO PART NUMBER	HY1012	HY1013	HY11131	HY11141A REV 01
US GALLONS / REVOLUTION	0.0038	0.0025	0.0030	0.0029
CUBIC INCHES / REVOLUTION	0.878	0.58	0.7	0.671
LITERS / REVOLUTION	0.0144	0.0097	0.0115	0.0110
MAX HYDRAULIC PRESSURE	3000 PSI	2000 PSI	1500 PSI	3045 PSI
MIN HYDRAULIC PRESSURE	600 PSI	200 PSI		10 PSIA
INLET PORT	SAE 12 (1 1/16-12 UN)	SAE 10 (7/8-14 UNF)	SAE 10 (7/8-14 UNF)	SAE 10 (7/8-14 UNF)
OUTLET PORT	SAE 16 (1 5/16-12 UN)	SAE 10 (7/8-14 UNF)	SAE 10 (7/8-14 UNF)	SAE 12 (1 1/16-12 UN)
MINIMUM GPM REQUIRED	9.1 GPM / 2400 RPM	6 GPM / 2400 RPM	7.3 GPM / 2400 RPM	7 GPM / 2400 RPM
MAXIMUM GPM REQUIRED	15.2 GPM / 4000 RPM	10 GPM / 4000 RPM	12.1 GPM / 4000 RPM	11.6 GPM / 4000 RPM
IDEAL GPM REQUIRED	13.7 GPM / 3600 RPM	9 GPM / 3600 RPM	10.9 GPM / 3600 RPM	10.5 GPM / 3600 RPM
INLET PORT	"A" PORT	"A" PORT	"A" PORT	PORTS NOT LABELED
OUTLET PORT	"B" PORT	"B" PORT	"B" PORT	PORTS NOT LABELED
DRAIN PORT	N/A	N/A	N/A	SAE 6 (9/16-18 UNF)
SHAFT SIZE	¾"	9/16"	9/16"	5/8"

SPOOL VALVE INFO		
REQUIRED OUTLET FLOW	MIN 9 GPM / MAX 13 GPM	MIN 6 GPM / MAX 10 GPM
REQUIRED SYSTEM PRESSURE	MIN 600 PSI / MAX 3000 PSI	MIN 600 PSI / MAX 3000 PSI

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
12046	105, 137	0.5	15752	105, 135, 137	0.002	17024	127, 131, 133, 153, 157	0.128
12049	5, 107, 117	1.1	15772	135, 137, 147	1.75	17026	127, 131, 133	21.23
12052	105, 137	N/A	15999	135, 137	0.282	17028	127	0.16
12099	101, 105, 107, 109, 113, 115, 117, 135, 137	0.07	16001	145	4.808	17032	129	0.036
12155	103, 111, 119, 121	1.19	16003	145	5.688	17033	127, 135	3.018
12705	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 135, 137, 147, 149	0.26	16011	145	0.098	17035	127, 131, 133	0.18
12709	103, 111, 119, 121, 147, 149	0.001	16019	145, 151	0.068	17040	127, 153	0.028
12710	101, 105, 107, 109, 113, 115, 117, 135, 137	0.01	16099	145	0.25	17042	127, 131, 153, 155, 157	0.02
12713	101, 105, 107, 109, 113, 115, 117	0.11	16702	145, 151	11	17046	127, 131	7.572
12716	101, 105, 109, 113, 115, 135	0.02	16704	145	41.5	17049A	5, 133	10.738
12717	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 135, 137, 147, 149	0.001	16706	145	0.888	17049ASS	57	10.46
12720	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121	0.03	16707	151	4	17056	133, 157	0.462
12723	923	0.01	16710	145	0.002	17100	127	4
12724	93	0.001	16712	151	58	17123	127, 129, 153	0.384
12725	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 125	0.002	16713	145	0.2	17130	127, 129, 131	0.022
12754	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121	0.002	16733	145	55	17202	129	3.738
12756	105, 137	1.44	16751	145	0.024	17208	129	1.802
12766	103, 111, 121	0.08	16752	145	0.004	17226	129	25.21
12772	101, 03, 105, 107, 109, 111	0.21	16765	145, 151	0.098	17235	129	0.35
12777	51, 89, 93, 101, 103, 105, 107, 111, 119, 121, 125, 127, 129, 131, 133, 139, 141, 143, 147, 149	0.018	16773	145	3.452	17242	129	0.032
12900	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121	0.008	16774	145	2.75	17406	131, 155	0.638
12901	101, 105, 107, 109, 113, 115, 117, 135, 137, 147, 149, 159	0.004	16775	151	4.242	17408	131	2
13034	103, 111, 119, 121, 147	N/A	16901	119, 121, 145, 147, 149, 151	0.01	17446	131	18
13055	119, 147, 149	0.674	16901SS	125	7.48	17701	105, 131, 137, 155	29.5
13702	113, 115, 117, 119, 121	1.479	17000	127, 129, 131, 135	1.528	17704	105, 131, 137, 139, 141, 145, 155	0.046
13712	113, 117, 119	4.018	17001	127	1.472	18001	139, 141, 143	65.65
13719	103, 111, 119, 121, 125, 147, 149	0.012	17002	127, 129, 131	1.888	18004	139, 141, 143	1.628
13765	113, 115, 145	0.05	17003	127	1.926	18008	139, 141, 143	3.802
13766	119, 147	0.084	17004	127	6.19	18009	139, 141, 143	0.036
13771	113, 115, 119	0.204	17005	127, 153	0.376	18012	139, 141, 143	3.906
13772	113, 115, 117, 119, 121	0.223	17006	127, 153	0.25	18013	139, 141, 143	0.53
13777	53, 97, 113, 115, 117, 135, 137, 139, 141, 143, 145, 147, 149, 151	0.025	17007	127, 131, 133, 153, 157	0.216	18021	139, 141, 143, 159	0.012
13778	53, 97, 113, 115, 117, 135, 137, 139, 141, 143, 145, 147, 149, 151	0.002	17008	127, 131, 133	2	18025	139, 141, 143	0.39
13999	113, 115, 117	0.266	17010	127, 129, 131, 133, 135, 137, 143, 153, 155, 157	0.036	18026	139	9.91
15000	135, 137	2.244	17011	127, 129, 131	0.866	18027	145, 151, 159	0.056
15022	127, 129, 131, 133, 135, 137, 153, 155, 157	1.124	17013	127, 129, 131, 135	0.034	18029	125, 139, 143	0.63
15025	145	N/A	17014	153, 155, 157	0.042	18033	139, 141, 143, 145, 147, 149, 151, 159	1.236
15035	119	0.35	17016	127, 129, 131	0.214	18034	139, 141, 143, 145, 147, 149, 151, 159	0.048
15702	135, 137	9.086	17017	127, 129, 131	0.262	18035	139, 159	2.73
15703	135, 137	14.978	17018	127, 129, 131, 133, 153, 155, 157	0.01	18042	159	0.584
15712	135, 137	26.082	17019	127, 129, 131, 133, 153, 155, 157	0.024	18044	159	0.056
15751	105, 113, 115, 135, 137	0.014	17023	127, 153	0.386	18048	139	12.788

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
18049	139, 143	20.516	125A	75, 76	0.1	150A	75, 76	0.18
18055	139, 143	0.834	125B	75, 76	0.3	150A90	79	0.307
18056	14	0.1	125C	75, 76	0.29	150B	75, 76	0.57
18100	139, 143	7.2	125D	75, 76	0.31	150C	75, 76	0.57
18106	139, 141, 143	0.04	125E	75, 76	0.11	150C90	79	0.62
18129	131, 139, 141, 155, 159	0.64	125F	75, 76	0.98	150CAP	75, 76	0.54
18206	141	4.8	12600B	107, 117, 135	14	150D	75, 76	0.59
18218	139, 141, 143	1.436	12702A	101, 103, 105, 107, 109, 111	1.21	150D90	79	0.65
18435	151	1	12703A	101, 105, 107, 109, 113, 115, 117	2.37	150E	75, 76	0.21
18500	139, 141, 143	13	12703AW	119	2.79	150F	75, 76	0.21
18502	139, 141, 143, 149	0.802	12705V	101, 105, 119	0.24	150F90	79	0.267
18504	139	1.928	12707W	103, 111, 121	2.79	150G	49, 72, 78	0.015
18511	145	3.404	12709V	119	0.001	150GV	49, 72, 78	0.3
18512	145	0.036	12710V	101, 105	0.01	150PL	75, 76	0.16
18600	143	35.02	12712A	101, 103, 105, 107	3.25	150POICF5/8-4.1	126	47
18700	99	1.728	12713V	101, 105, 135, 137	0.12	150RING	78	0.026
18702	139, 141	1.794	12715A	101, 107, 109, 113, 115, 117, 135, 137, 147, 149	0.05	15999V	135, 137	0.288
050C	75	0.14	12717V	101, 105, 119	0.01	16704A	145	41.5
050D	75	0.16	12719A	101, 103, 105, 107, 109, 111, 113, 115, 117, 121, 135, 137, 147, 149	0.05	16774A	145	2.931
050E	75	0.05	12719AV	101, 105	0.05	17000SS	153, 155, 157	1.58
050F	75	0.06	12754V	101, 105, 119	0.01	17002SS	153, 155, 157	2.038
075C	75, 76	0.15	12765A	101, 105, 107, 109, 113, 115, 117, 135, 137	0.05	17008-4.1	127	1.534
075CAP	75, 76	0.13	12771A	101, 109	0.22	17008SS	153, 157	2
075D	75, 76	0.15	12775A	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 125	0.01	17009B	127, 129, 131, 133, 153, 155, 157	0.022
075E	75, 76	0.06	12777SS	153, 155, 157, 159	0.14	17011SS	153, 155, 157	0.888
075F	75, 76	0.06	12882A	101, 113, 115, 127, 129, 135, 153	7.6	17026SS	153, 155, 157	32
100125CAP	75, 76	0.27	12883B	127	0.146	17035SD	127	0.13
100125PL	75, 76	0.06	12902A	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 135, 137, 147, 149	0.006	17035SS	153, 157	0.18
100A	75, 76	0.09	12999A	101, 105, 107, 109	0.25	17046SS	153	8.804
100B	75, 76	0.29	12999AV	101, 105, 109	0.32	17055A	133, 157	1.75
100C	75, 76	0.27	13719V	119	0.019	17056E	107, 117	2
100D	75, 76	0.31	13777SS	159	0.205	17100SS	153	3.384
100E	75, 76	0.1	13778V	159	0.002	17130SS	153, 155, 157	0.02
100F	75, 76	0.11	150(200)K	78	0.134	17201A	129	8.736
100G	72, 78	0.2	15000V	135, 137	2.364	17206A	129	0.628
100GV	72, 78	0.02	150125A	75, 76	0.197	17408SS	155	2.106
100RING	78	0.01	150125B	75, 76	0.26	17446SS	155	10.818
12000A	101, 105, 107, 109, 113, 115, 117	0.75	150125C	75, 76	0.568	18001SS	159	57.5
12000AV	101, 105, 109	0.9	150125D	75, 76	0.31	18004SS	159	1.616
12055E	107, 117	0.57	150125E	75, 76	0.16	18010SS	107, 117, 133, 139, 141, 143, 157, 159	0.044
12201W	119	1.46	150125F	75, 76	0.18	18023-1.125SS	139, 159	4.322
12202W	103, 111, 119, 121	1.46	15035E	103, 111, 119, 121, 141, 147, 149	0.386	18023SS	139, 143, 159	4.32

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
18025SD	139, 143	0.32	200P6PROE	100, 101	56.33	222PBI	134, 135	70
18025SS	155, 159	0.25	200P6PROV	100, 101	51	222PI6PRO	134, 135	100
18026SS	159	10.11	200PB	100, 101	15.786	222PIE5	134, 135	180
18055H	149	0.75	200PBI	126	48	222PIE51	134, 135	190
18100SS	159	7.5	200PB-SS	152, 153	52	222PIH5	134, 135	82
18106SS	159	0.04	200PH-5	100, 101	51	222PIH5E	134, 135	110
18200A	141	31.6	200PH-5E	100, 101	56.33	222PIH6	134, 135	110
18202A	141	4.918	200PH5-SS	152, 153	105	222POI	134, 135	60
18203A	141	4.92	200PH-5V	100, 101	48	231MPT	69	0.074
19001H	149	10.7	200PH5W	102	53	234PE5SS	154	168
19201W	147, 149	10	200PH6	100, 101	50.33	234PIE5	130, 131	160
19703W	147, 149	17.006	200PHA	106, 107	25	234PIE51	130	200
19772SS	147, 149	1.81	200PHY	106, 107	21.308	234POI	130	40.51
200150C	77	0.66	200PHYSS	156	52	234PPE5	104, 105	135
200A	77	0.3	200PHYW	106	28	234PPE51	104, 105	145.5
200A90	79	0.461	200PI-3	126	81	234PPE51V	104, 105	145
200B	77	0.64	200PI6PRO	126	81.5	234PPE5V	104, 105	123
200B90	79	0.948	200PIH-5	126	81.5	250CAP	75, 77	0.68
200C	77	0.69	200PIH5E	126	76.07	300A	75, 77	0.48
200C90	79\	0.78	200PIHA	5	40.76	300B	75, 77	1.17
200CAP	69, 77	0.6	200PIHY	132	48	300C	75, 77	1.4
200CAPSH	69, 77	0.52	200PKL	78	0.02	300CAP	75, 77	1.07
200D	77	0.66	200PL	75, 77	0.21	300D	75, 77	1.19
200D90	79	0.88	200PO	100, 101	7.286	300E	75, 77	0.78
200E	77	0.32	200POI	126	52.5	300F	75, 77	0.57
200F	77	0.31	200POICF5/8	126	47	300F200F	78	0.609
200F45	79	0.346	200POICF7/8	126	47	300FF	78	0.644
200F90	79	0.434	200PO-SS	152, 153	47	300G	49, 72, 78	0.04
200FF	78	0.331	200POSSCF5/8	152	47	300GV	49, 72, 78	0.06
200G	49, 72, 78	0.02	200PO-V	100, 101	10	300K	78	0.23
200GV	49, 72, 78	0.03	200SBS	99	0.25	300P	78	0.036
200KL	78	0.18	201B	77	0.71	300P11PRO	112, 113	81
200P	78	0.17	201CAPSH	69	0.566	300P11PROW	118, 119	67
200P6PRO	100, 101	50	201FPT	69	0.04	300PB	112, 113	20
			201PBIW	128	58	300PBI	138	125
			201PIH5W	128	94	300PB-SS	158, 159	99
			201POIW	128	59	300PBW	118	26
			202CAP	9*	0.34	300PH13SS	159, 159	150
			205PB	100, 101	16	300PH13W	118, 119	103
			205PB-V	100, 101	16	300PH-6	112, 113	50
			205POW	102	8.5	300PH6W	118, 119	56
			211FPT	69	0.03	300PHY	116, 117	26

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
300PHYSS	158, 159	140	75GV	49, 78	0.13	BF220BD	71, 160	1.5
300PHYW	116	N/A	75PL	75, 76	0.05	BF220GE	70, 71	0.154
300PIH13	138	176	A204	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 135, 137, 147, 149	0.001	BF220GV	70, 71	0.08
300PIHY	142	140	A204V	101, 105, 119	0.002	BF300	70, 160	2.264
300PL	75, 77	0.43	AF100	74	0.304	BF300BD	71, 160	2.42
300PO	112, 113	12.005	AF100G	74	0.06	BF300GE	70, 71	0.2
300POI	138	106	AF100GV	74	0.06	BF300GFE	71	0.02
300POICF	138	N/A	AF150	74	0.43	BF300GFV	71	0.02
300POICF55	138	N/A	AF150G	74	0.08	BF300GV	70, 71	0.1
300PO-SS	158, 159	115	AF200	74	0.657	CAP038	82	0.03
300POW	118	15.3	AF200G	74	0.17	CAP050	82	0.06
300POW6	118, 119	N/A	AF200GV	74	0.17	CAP075	82	0.052
300SBS	99	0.25	AF300	74	1.175	CAP100	82	0.09
301PBIW	140	135	AF300G	74	0.17	CAP125	82	0.13
301PIH13W	140	181.37	AF300GV	74	0.17	CAP150	82	0.12
301POIW	140	130	AF400	74	1.587	CAP200	82	0.25
303B	75, 77	1.634	AF400G	74	0.45	CAP300	82	0.59
303B200A	77	1.554	AF400GV	74	0.45	CPLG025	81	0.03
303C	75, 77	1.74	AFB200	74	0.698	CPLG038	81	0.026
305PHAW	114	27.07	AFB300	74	1.42	CPLG050	81	0.09
333PBI	144, 145	185	BEM10-100	5, 147	N/A	CPLG075	81	0.11
333PIE15	144, 145	242	BEM101-100	5, 147	145	CPLG100	81	0.13
333PIH13	144, 145	285	BEM15	5	169	CPLG125	81	0.19
333POI	144, 145	90	BEM15-100	5, 125	169	CPLG150	81	0.3
333POICF	5, 144	190	BEM5	5	140	CPLG200	81	0.34
400A	75, 77	1.27	BEM5-182CZ	105, 137	95	CPLG300	81	0.836
400B	75, 77	2.03	BF075	70, 160	0.82	CR025	5, 82	0.04
400C	75, 77	2.39	BF075BD	71	0.88	CR038	5, 82	0.05
400CAP	75, 77	1.44	BF100	70, 160	0.82	CR050	82	0.13
400D	75, 77	2.07	BF100BD	71, 160	0.9	CR075	82	0.35
400E	75, 77	1.786	BF100GE	69, 71	0.07	CR100	82	0.27
400F	75, 77	1.42	BF100GRE	71	0.01	CR125	82	0.726
400G	78	0.06	BF100GRV	71	0.01	CR150	82	0.571
400PL	75, 77	1.11	BF150	70, 160	1.26	CR200	82	0.744
444PIH24	150	345	BF150BD	71, 160	1.32	CV050	19	0.27
444POI	150	120	BF200	70, 160	1.07	CV100	19	0.222
75A1/2	75	0.07	BF200BD	71, 160	1.2	CV100MT	19	0.17
75A1/4	75	0.08	BF200GE	70, 71	0.05	CV100V	5, 19	0.217
75A3/4	75, 76	0.05	BF200GFV	69	0.05	CV10175	103, 111, 119, 121, 147, 149	0.2
75B1/2	75	0.14	BF200GV	70, 71	0.05	CV10175V	119	0.003
75B3/4	75, 76	0.14	BF200V	70, 160	1.07	CV221	19	1
75G	78	0.1	BF220	70, 160	1.45	CV300	19	1.45

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
CV301	19	1.518	DM200DCF	39	2.75	EL025-90	83	0.016
DF100A	4, 64	0.183	DM200DE	57	3	EL038-90	83	0.04
DF100D	4, 64	N/A	DM200DSS	62	6.9	EL050-90	83	0.07
DB20153M	56, 57	0.158	DM200DSST	62	6.9	EL075-90	83	0.1
DB20290	56, 57	0.004	DM200DT	5, 57	2.75	EL100-45	83	0.14
DB20295	56, 57	0.002	DM200PL	56, 57	0.49	EL100-90	83	0.15
DM100ABSS	60	3.5	DM20153F	56, 57	0.251	EL125-90	83	0.22
DM100ASS	60	3.5	DM20153M	56, 57	0.417	EL150-90	83	0.33
DM100CAP	60	0.19	DM201SS	61, 62	1.158	EL200-90	83	0.434
DM100DBSS	60	3.75	DM20200A	56, 57	0.242	EL300-90	83	1.195
DM100DSS	60	3.75	DM20200D	56, 57	0.254	EVX071	21	3.82
DM100DSSE	60	3.75	DM20294A	56, 57, 61, 62	0.016	EVX100BL	24	4.313
DM100PL	60	0.234	DM20295A	57, 61, 62	0.01	EVX100SL	24	4.313
DM101SS	60	0.346	DM20296	56, 57, 61, 62	0.125	EVX101	21	3.892
DM10294A	60	0.01	DM202SSV	61, 62	1.32	EVX121	21	3.832
DM10295A	60	0.006	DM220A	58	4.3	EVX151	21	5.103
DM10296	60	0.1	DM220ABSS	63	0.43	EVX200BL	24	4.876
DM102SSV	60	0.386	DM220ASS	63	7.8	EVX200SL	24	4.876
DM150A	56	2.64	DM220CAP	58, 63	1	EVX201	22	4.312
DM150AB	56	2.2	DM220D	58	5.482	EVX220BL	24	6.253
DM150ABSS	61	6.3	DM220DBSS	63	7	EVX220SL	24	6.253
DM150AE	56	2.75	DM220DSS	63	9.8	EVX221	22	5.052
DM150ASS	61	6.35	DM221PL	58	0.3079	EVX300	23	9.24
DM150D	56	2.64	DM221SS	63	0.206	EVXR071	21	4.411
DM150DB	56	2.2	DM222SS	63	0.216	EVXR101	21	3.96
DM150DBSS	61	6.9	DM25153M	58	0.457	EVXR151	21	4.45
DM150DE	56	2.82	DM25200	58	0.106	EVXR201	22	5.33
DM150DSS	61	6.9	DM25294	63	0.0416	EVXR221	22	5.92
DM150DSSE	61	6.9	DM25294T	63	0.048	EVXR300	23	9.24
DM200A	57	3.007	DM300ACF	39	7.72	FC100	49	0.25
DM200AB	57	2.2	DM300AFP	59	4.8	FC200	49	0.23
DM200ABSS	62	5.768	DM300CAP	59	2.82	FC220	41, 49	0.25
DM200ACAP	61, 62	1	DM300DCF	39	8.4	FC220B	49	1.364
DM200ACF	39	3.15	DM300DFP	59	8.4	FC220TB	49	0.43
DM200AE	57	2.75	DM300PL	59	0.509	FC300	41, 49	0.34
DM200APL	61, 62	0.49	DM35153F	59	0.463	FC300B	49	1.76
DM200ASS	62	6.2	DM35153M	59	0.659	FC300TB	49	0.52
DM200AT	5, 57	2.2	DM35200	59	1.23	GHFT075A	79	0.06
DM200CAP	56, 57	0.38	DMMT201A	57	2.5	GHFT075D	79	0.17
DM200D	57	2.75	DPCF100	65	0.5	GHFT075G	79	0.025
DM200DB	57	2.2	DPCM100	65	0.25	GHFT075MPT	79	0.04
DM200DBSS	62	6.9	DPCMT100	65	0.27	GHMT075B	79	0.14

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
GHMT075F	79	0.05	HB100/075-90	84	0.06	HBT050	85	0.03
GHMT075FPT	79	0.04	HB100/125-90	84	0.1	HBT050-038	5, 85	0.02
GHMT075MPT	79	0.04	HB100-075	84	0.06	HBT050-075	85	0.03
GHN075	79	0.6	HB100-075SS	84	0.3	HBT075	85	0.05
H25053	8	0.265	HB100-125	84	0.08	HBT075-050	85	0.04
HB025	84	0.01	HB100-90	84	0.07	HBT075-050SS	83	0.246
HB025/038-90	84	0.01	HB100SS	84	0.3	HBT075-100	85	0.06
HB025/050-90	84	0.022	HB125	84	0.1	HBT100	85	0.08
HB025-038	84	0.012	HB125/100-90	84	0.09	HBT100-075	85	0.06
HB025-038SS	84	0.07	HB125/150-90	84	0.09	HBT100-100	85	0.08
HB025-050	84	0.015	HB125-075	84	0.08	HBT150-100	85	0.218
HB025-050SS	84	0.07	HB125-100	84	0.09	HBT150-150	85	0.235
HB025-90	84	0.01	HB125-150	84	0.1	HBT200	85	0.388
HB025SS	84	0.04	HB125-90	84	0.11	HBT300	85	1.161
HB038	84	0.01	HB125SS	84	0.5	HM038	85	0.03
HB038-025	5, 84	0.02	HB150	84	0.13	HM050	85	0.01
HB038-050	84	0.02	HB150/125-90	84	0.16	HM075	85	0.026
HB038-050SS	84	0.1	HB150-100	84	0.09	HM100	85	0.04
HB038-90	84	0.02	HB150-125	84	0.1	HM125	85	0.07
HB038SS	84	0.09	HB150-200	84	0.19	HM150	85	0.08
HB050	84	0.03	HB150-90	84	0.23	HM200	85	0.22
HB050/038-90	84	0.024	HB150SS	84	0.68	HM300	85	0.763
HB050/075-90	84	0.04	HB200	84	0.2	HSV1000	106, 116, 132, 142, 148, 156	11
HB050-025	84	0.03	HB200/150-90	84	0.22	HV200	40	0.58
HB050-038	84	0.02	HB200-150	84	0.18	HY1001	143	1.5
HB050-058SS	84	0.128	HB200-90	84	0.33	HY1003	107, 117	1.5
HB050-075	84	0.03	HB200SS	84	1.13	HY1012	143, 149, 161	13.2
HB050-075SS	84	0.2	HB300	84	0.703	HY1013	107, 117, 157, 161	4.5
HB050-90	84	0.03	HB300-90	84	1.078	L200B	78	0.64
HB050SS	84	0.13	HB300SS	84	3.55	L200C	78	0.7
HB075	84	0.04	HB400	84	1.64	L200CAP	78	0.62
HB075/050-90	84	0.04	HBB20012590	83	0.25	L200D	78	0.736
HB075/100-90	84	0.05	HBC050075	82	0.028	LEV038	25	0.55
HB075-038	84	0.03	HBEL100-90	83	0.06	LEV038PL	25	0.08
HB075-050	84	0.03	HBEL150/100-90	83	0.197	LEV050	25	0.6
HB075-050SS	84	0.2	HBF075	84	0.06	LS050-20	92	0.35
HB075-058	84	0.038	HBF075-100	84	0.08	LS050-40	92	0.35
HB075-100	84	0.05	HBF075-90	84	0.06	LS050-80	92	0.37
HB075-100SS	84	0.25	HBF100	84	0.09	LS050B/C1	93	0.298
HB075-90	84	0.05	HB100-90	5, 84	0.07	LS075-20	92	0.3
HB075SS	84	0.2	HBT025	5, 85	0.039	LS075-40	92	0.33
HB100	84	0.06	HBT038	85	0.03	LS075-80	92	0.35

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
LS075B/C1	93	0.28	LS250	51, 91, 95	0.13	LSS330	97	0.368
LS075-G	93	0.004	LS250P	95	0.116	LSS350	97	0.366
LS100-20	92	0.91	LS280	51, 91, 95	0.1	LST075-100	88	0.83
LS100-40	92	0.9	LS300EC	53, 97	0.626	LST075-16	88	0.824
LS100-80	92	0.96	LS304	53, 97	0.598	LST075-30	88	0.84
LS100B/C1	93	0.872	LS308	53, 97	1.106	LST075-50	88	0.84
LS100-C1	93	0.232	LS312	53, 97	4.31	LST075-80	88	0.83
LS100-G	93	0.02	LS320	53, 97	1.03	LST075-H	89	0.516
LS100-GV	93	0.02	LS350	53, 97	0.92	LST075-HB	89	0.738
LS120	51, 93	0.07	LS720	93	0.04	LST100-100	88	0.76
LS125-20	92	0.86	LS740	93	0.04	LST100-16	88	0.78
LS125-40	92	0.84	LS780	93	0.04	LST100-30	88	0.79
LS125-80	92	0.9	LSM300-04	96	8	LST100-50	88	0.81
LS125B/C1	93	0.826	LSM300-08	96	8	LST100-80	88	0.78
LS140	51, 93	0.07	LSM300-12	96	8	LST100-B	51, 89	2.17
LS150-06	94	2.42	LSM300-20	96	8	LST100-G	51, 89	0.02
LS150-12	94	2.42	LSM300-50	96	8	LST100-GV	51, 89	0.02
LS150-120	94	2.5	LSQ150-B/C	5, 90, 91	3.8	LST100-H	89	0.472
LS150-20	94	2.42	LSQ200-06	90	4.17	LST100-HB	89	2.25
LS150-30	94	2.5	LSQ200-20	90	4.17	LST1100	51, 89	0.07
LS150-50	94	2.5	LSQ200-30	90	4.17	LST116	51, 89	0.084
LS150-80	94	2.5	LSQ200-50	90	4.17	LST125-16	88	2.032
LS150B/C	95	1.91	LSQ200-80	90	4.17	LST125-30	88	2.22
LS150-C	51, 95	0.576	LSQ200-B/C	91	3.63	LST125-50	88	2.24
LS150-G	51,95	0.03	LSQ200-C	91	1.74	LST125-80	88	2.18
LS150-GV	51, 95	0.03	LSQ200-G	91	0.05	LST125-HB	89	1.846
LS180	51, 93	2.12	LSQ200-GV	5, 91	0.162	LST130	51, 89	0.07
LS200-06	94	2.5	LSQ200-PL	50, 51, 53, 89, 91, 95	0.042	LST150	51, 89	0.07
LS200-100	94	2	LSQ200-R	50, 51, 53, 89	0.002	LST150-100	88	1.9
LS200-12	94	2.33	LSQ200R1	91	0.002	LST150-30	88	2.12
LS200-120	94	2	LSQ200-RV	91, 95	0.004	LST150-50	88	2.15
LS200-20	94	2.33	LSS300-BC	96, 97	23.88	LST150-80	88	2.13
LS200-30	94	2.42	LSS300-C	5, 96, 97	2.91	LST150-B	51, 89	0.22
LS200-50	94	2.42	LSS300-G	96, 97	0.1	LST150-G	51, 89	0.014
LS200-80	94	2.42	LSS300-GV	96, 97	0.044	LST150-GV	51, 89	0.024
LS200B/C	95	2	LSS300-H	97	1.724	LST150-HB	89	1.794
LS206	51, 91, 95	0.3	LSS300-S	96, 97	0.032	LST15100	51, 89	0.27
LS2100	95	0.09	LSS300-SV	96, 97	0.05	LST1516	51, 89	0.196
LS212	51, 91, 95	0.29	LSS306	97	0.198	LST1530	51, 89	0.17
LS2120	51, 91, 95	0.08	LSS308	97	0.256	LST1550	51, 89	0.15
LS220	51, 91, 95	0.2	LSS312	97	0.37	LST1580	51, 89	0.1
LS230	51, 91, 95	0.188	LSS320	97	0.4	LST180	51, 89	0.07

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
LST200-10SS	90	16	LV050100MTLV	9	0.125	M100GV	49	0.02
LST200-50SS	90	16	LV050100MTV	9	0.11	M100MPT	46	0.08
LST200-B	91	1.946	LV050MTV	9	0.096	M100MPTSS	46	0.34
LST200-GV	91	0.04	LV050SLV	9	0.12	M100PA	40	0.25
LST200-HSS	91	1.614	LV050SLV	9	0.08	M100PAC	40	0.32
LST204SS	53, 91	0.416	LV050V	9	0.084	M100PAT	40	0.65
LST206SS	53, 91	0.382	LVHB038050MTV	9	0.064	M100PLG	47	0.05
LST208SS	53, 91	0.326	LVHB038V	9	0.06	M100PLG025	6, 47	0.04
LST2100SS	53	0.45	LVHB050V	9	0.06	M100PLG050	6, 47	0.04
LST210SS	53, 91	0.48	LVH075100MTLV	9	0.135	M100SWFSS	44	0.32
LST216SS	53, 91	0.27	LVHB075100MTV	9	0.13	M100SWP90	43	0.126
LST220SS	5, 91	N/A	LVHB075MTV	9	0.13	M100SWPG90	6, 43	0.13
LST230SS	53, 91	0.49	LVHB075V	9	0.118	M100TEE	45	0.2
LST250SS	53, 91	0.49	LVPL025V	9	0.06	M101CPG	6, 44	0.001
LST280SS	53, 91	0.48	LVPL038V	9	0.06	M101G	49	0.006
LST5100	87	0.016	M100050FPT	46	0.06	M101GSA	5, 44	0.07
LST530	87	0.05	M100050HBT	48	0.086	M101TEE	45	0.23
LST550	87	0.024	M100075BRB	48	0.06	M102G	49	0.01
LST580	87	0.02	M100075BRB90	48	0.06	M12712	109, 111	3.372
LSTM050-30	86	0.76	M100075FPT	46	0.05	M13712	115, 121	4.588
LSTM050-30C	86	0.324	M100075HBT	48	0.1	M19712X	147, 149	27.046
LSTM050-50	86	0.3	M100075MPT	46	0.052	M200100BRB	48	0.15
LSTM050-50C	86	0.76	M100100HBT	48	0.09	M200100BRB90	48	0.16
LSTM050-80	86	0.76	M100125BRB	48	0.08	M200100CPG	45	0.16
LSTM050-80C	86	0.316	M100125BRB90	48	0.11	M200100TEE	45	0.525
LSTM050B	87	0.103	M100125BRB90	43	0.15	M200125BRB	48	0.16
LSTM050BC	87	0.12	M100125HBT	5, 48	0.1366	M200125BRB45	48	0.18
LSTM050G	87	0.02	M100125MPT	46	0.114	M200125BRB90	48	0.21
LSTM050H	87	0.176	M100150BRB90	48	0.17	M200125MPT	46	0.2
LSTM075-30	86	0.76	M100A	57	0.07	M200125MPTSS	46	0.2
LSTM075-30C	86	0.31	M100BRB	48	0.066	M200150BRB	48	0.17
LSTM075-50	86	0.288	M100BRB45	48	0.074	M200150BRB45	48	0.17
LSTM075-50C	86	0.308	M100BRB90	48	0.08	M200150BRB90	48	0.21
LSTM075-80	86	0.76	M100BRBSWP90	43	0.145	M200150BRBSWP90	43	0.431
LSTM075-80C	86	0.302	M100BRBSWP90	6, 43	0.15	M200150FPT	46	0.344
LSTM075H	87	0.161	M100CPG	44	0.09	M200150MPT	46	0.23
LV025MTV	9	0.06	M100CPG025G	6, 44	N/A	M200150MPTSS	46	0.23
LV025V	9	0.054	M100CPG45	44	0.09	M200300TEG075	6	0.661
LV038050MTLV	9	0.07	M100CPG90	45	0.14	M200A	57	0.24
LV038050MTV	9	0.058	M100CR	47	0.24	M200BRB	48	0.24
LV038MTV	9	0.07	M100FPT	46	0.09	M200BRB45	48	0.262
LV038V	9	0.07	M100G	49	0.02	M200BRB90	48	0.34

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
M200CPG	44	0.43	M220BRBWP90	43	0.399	M300220SWP90	43	0.571
M200CPG025G	6, 44	N/A	M220BWASS	46	0.5	M300220WYCG	6,45	1.050
M200CPG45	44	0.31	M220CPG	44	0.21	M300300HBT	48	1.034
M200CPG90	45	0.626	M220CPG2GISO	6, 44	0.15	M300375SWFSS	44	3.2
M200CPG90SH	45	0.423	M220CPG3G	6, 44	N/A	M300400A	47, 124	0.712
M200CR	47	0.692	M220CPG45	41, 44	0.24	M300400BRB	48, 124	0.728
M200FPT	46	0.29	M220CPG6	41, 44	0.375	M300A	47	0.35
M200MPT	46	0.26	M220CPG6025G	6, 44	N/A	M300ASWP90	43	0.897
M200MPTSS	46	0.81	M220CPG90	45	0.341	M300BRB	48	0.478
M200PLG	47	0.12	M220CR	47	0.578	M300BRB45	48	0.518
M200PLG025	6, 47	0.084	M220D	47	0.73	M300BRB90	48	0.798
M200PLG038	6, 47	0.09	M220FPT	46	0.26	M300BRBWP90	43	1.184
M200PLG050	6, 47	0.09	M220MPT	46	0.21	M300BRBWP90	6, 43	1.24
M200PLG075	6, 47	0.1	M220MPTSS	46	0.62	M300CPG	44	0.417
M200PLG100	6, 47	0.11	M220MPTSWP90	43	0.331	M300CPG12	6, 42	1.01
M200SWFSS	44	0.68	M220P6PRO	108, 109	N/A	M300CPG12G	6, 44	N/A
M200SWP90	43	0.365	M220PH5	108, 109	55	M300CPG2GISO	6, 44	0.279
M200TEE	45	0.611	M220PH5W	110	55	M300CPG45	41, 44	0.518
M200THB100	5	0.507	M220PH6	108, 109	55	M300CPG55G	6, 44	0.538
M200YG45	6, 45	1.3	M220PLG	47	0.12	M300CPG7	41, 44	0.632
M201CPG	6, 44	0.001	M220PLG038	6, 47	0.1	M300CPG7025G	6, 44	N/A
M201G	49	0.05	M220PLG075	6, 47	0.11	M300CPG90	45	0.745
M201TEEV075	5	N/A	M220PO	106, 107	8.372	M300CR	47	1.215
M202G	49	0.025	M220SWFSS	44	0.58	M300FPT	46	0.514
M220100BRB	48	0.15	M220SWP038G90	6	N/A	M300MPT	46	0.437
M220100CPG	45	0.15	M220SWP050G90	6	0.292	M300MPTSS	46	1.85
M220100TEE	45	0.403	M220SWP90	5, 43	0.286	M300MPTSWP90	43	0.833
M220125BRB	48	0.16	M220SWPG90	5, 43	N/A	M300P11PRO	114, 115	61.988
M220150BRB	48	0.16	M220TEE	45	0.522	M300PB	114, 115	21.35
M220150BRB90	48	0.211	M220Y45	41, 45	1.316	M300PH6	114, 115	45.4
M220150HBT	5, 48	0.275	M220YG45	6, 47, 45	1.34	M300PH6W	120	49
M220150MPTSS	46	0.65	M221CPG	6, 44	N/A	M300PLG	47	0.25
M220200CPG	45	0.2	M221CPG6	6, 44	N/A	M300PLG075	6, 47	0.23
M220200HBT	48	0.39	M221G	41, 49	0.03	M300PLG100	6, 47	0.248
M220200SWP90	43	0.356	M221GSA	44	0.258	M300PO	114, 115	9.792
M220200TEE	45	0.567	M221SWP90	5, 6, 43	N/A	M300POW6	120	16.24
M220375SWFSS	44	1.35	M222G	49	0.03	M300SWFSS	44	1.46
M220A	47	0.2	M300200CPG	45	0.267	M300SWP050G90	6	0.699
M220ASWP90	43	0.399	M300220BRB	48	0.284	M300SWP90	43	0.675
M220BRB	48	0.19	M300220BRB90	48	0.406	M300SWPG90	6, 43	0.75
M220BRB45	48	0.225	M300220CPG	41, 45	0.245	M300TEE	45	1.111
M220BRB90	48	0.309	M300220MPTSS	46	1.332	M300Y45	41, 45	3.32

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
M300YG45	6, 41, 45	3.258	MEVX1014	33	19.485	MLS2100SS	53	0.54
M301CPG7	6, 44	N/A	MEVX102	33	9.073	MLS220C1	53	0.82
M301G	41, 49	0.03	MEVX103	33	14.47	MLS220G1	53	0.008
M301GSA	44	0.55	MEVX200	30	4.22	MLS220R1	53	0.417
M302G	49	0.05	MEVX200BL	32	5.751	MLS222-04	52	3.82
M303D	47	1.5	MEVX200SL	32	7.018	MLS222-10	52	3.5
M305PHYW	120	26.4	MEVX201	30	4.775	MLS222-16	52	3.7
M332PIE101W	146	270	MEVX220BL	32	6.98	MLS222-30	52	3.75
M332PIE10W	146	N/A	MEVX220SL	32	N/A	MLS222-50	52	3.75
M332PIH13W	146	155	MEVX221	30	4.775	MLS222-80	52	3.7
M332PIHAW	148	68.592	MEVX300	31	8.98	MLS222B	53	2.2
M332PIHYW	148	190	MEVX300BL	32	18.28	MLS222BC	53	3.25
M332POIW	146	70.532	MEVXR100	29	2.491	MLS250SS	53	0.6
M350PBW	124	34.1	MEVXR100SL	32	4.7	MLS280SS	53	0.57
M350PE15W	123	131.3	MEVXR101	29	3.82	MLS300-12	52	8
M350PEOW	123	17.1	MEVXR200	30	2.882	MLS300-20	52	8
M350PH13W	123	88.2	MEVXR200SL	32	3.979	MLS300-20V	52	N/A
M350PHAW	124	33.5	MEVXR220	30	3.405	MLS300-50	52	8.44
M350PHYW	123	40.9	MEVXR220SL	32	6.627	MLS300B	53	5.01
M350POW	123	17.1	MEVXR300	31	8.98	MLS300B1	97	5.357
M350PVAN14W	123	102	MFM100	42	2.75	MLS300BC	53	7.48
MBF100	54,160	0.9	MFM220	42	2.75	MLS300CAP	53, 97	1.36
MBF100BD	54,160	0.948	MFM300	41	5.4	MLS300ECG	53, 97	0.024
MBF200	54,160	1.37	MHV200	40	0.57	MLS300ECGV	53, 97	0.04
MBF200BD	54,160	1.44	MHV220A	40, 41	0.8	MLS300G	53, 97	0.03
MBF220	54,160	1.62	MIS220	41	10.175	MLST100-100	50	0.75
MBF220BD	54,160	1.62	MIS300	41	23.06	MLST100-30	50	0.75
MBF300	54,160	2.34	MLEV100	33	0.65	MLST100-50	50	0.75
MBF300BD	54,160	2.5	MLEV100A	33	1.13	MLST100-80	50	0.75
MBP200	67	0.26	MLEV100C	33	1.155	MLST100-H	51	0.467
MCV100	44	0.154	MLS100-80	50	0.88	MLST100-HB	51	0.63
MCV100V	5, 44	0.153	MLS100B	51	0.646	MLST150-100	50	2
MCV200	44	0.45	MLS100BC	51	0.896	MLST150-30	50	2
MCV221	44	0.5	MLS200-06	46	2.25	MLST150-50	50	2
MCV300	44	1.224	MLS200-12	50	2.5	MLST150-80	50	2
MCV301	44	1.26	MLS200-20	50	2.15	MLST150-80V	50	2.125
MEVX100	29	3.82	MLS200-30	46	2.15	MLST150-H	51	1.292
MEVX100BL	32	4.7	MLS200-50	50	3.9	MLST150-HB	51	1.75
MEVX100SL	32	4.7	MLS200-80	50	2.15	MLSTM100-80	5, 49	0.34
MEVX101	29	4.24	MLS200B	41	1.526	MLSTM100HB	5, 49	0.34
MEVX1012	33	9.6	MLS200BC	51	2.07	MLSTM100HBC	5, 49	0.34
MEVX1013	33	14.548	MLS200BCM	50	2.315	MPRV100-050	39	1.506

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
MPRV100-075	39	1.45	NIP100-SH	81	0.038	RB100-075	81	0.04
MPRV100-100	39	1.5	NIP125-4	81	0.136	RB125-038	5, 81	0.1
MPRV100-125	39	1.54	NIP125-6	81	0.22	RB125-075	81	0.09
MSUV100FP	18	0.46	NIP125-SH	81	0.06	RB125-100	81	0.06
MSW220	44	0.4	NIP150-3	81	0.14	RB150-075	81	0.12
MTF100BD	5, 54	0.42	NIP150-4	81	0.22	RB150-100	81	0.1
MTF220BD	54	0.75	NIP150-5	81	0.26	RB150-125	81	0.1
MTF300BD	54	2.092	NIP150-6	81	0.34	RB200-075	81	0.18
MV100BL	12, 38	1.2	NIP150-SH	81	0.12	RB200-100	79	0.17
MV100CF	5, 12, 34	0.75	NIP200-4	81	0.25	RB200-125	81	0.14
MV100SL	38	1.13	NIP200-6	81	0.38	RB200-150	81	0.12
MV200BL	13, 38	2	NIP200-SH	81	0.14	RB300-150	81	0.415
MV200CF	34	2.024	NIP2101	67	0.3	RB300-200	81	0.359
MV200SL	38	2	NIP300-4	81	0.434	RB400-300	81	1.032
MV220BL	13, 38	4.63	NIP300-6	81	0.696	RC100-075	81	0.15
MV220CF	34	2.798	NIP300-SH	81	0.307	RC150-100	81	0.2
MV220SL	38	2.75	NIP400-SH	5, 81	1.558	RC150-125	81	0.206
MV225CF	34	7.3	PLUG025	82	0.03	RC200-050	81	0.28
MV300	34	3.9	PLUG038	82	0.02	RC200-100	81	0.26
MV300BL	38	6.68	PLUG050	82	0.02	RC200-125	81	0.26
MV300CF	34	5.866	PLUG075	41, 82	0.04	RC200-150	81	0.26
MV301CF	41	6	PLUG100	82	0.06	RC300-200	81	0.624
MVS220CF	35, 41	1.744	PLUG125	82	0.09	RN050-038	81	0.018
MVS220FP	35	1.804	PLUG150	82	0.1	RN075-050	81	0.03
MVS300CF	5, 36	3.046	PLUG200	82	0.152	RN100-050	81	0.06
MVS300CFPP	36	3.75	PLUG300	82	0.445	RN100-075	81	0.06
MVS300HSFP	37	6.32	PV075	19	0.53	RN125-075	81	0.086
MVSF220FP	35	1.78	PV100	19	0.52	RN125-100	81	0.08
MVSF300	36	3.29	PV100-075	19	0.64	RN150-100	81	0.122
MVSF300FP	36	4	PV100-075V	19	0.35	RN150-125	81	0.14
MVSMT220FP	35	1.75	PV10265	19	0.07	RN200-125	81	0.16
MVSMT300	36	3.192	PV10265V	19	0.2	RN200-150	81	0.17
MVSMT300HSFP	37	6.44	RB038-025	81	0.01	RN300-200	81	0.365
NIP025-SH	81	0.01	RB050-018	5, 81	0.02	RS21	85	0.756
NIP038-SH	81	0.02	RB050-025	81	0.02	RSTB	85	0.704
NIP050-3	81	0.04	RB050-038	81	0.01	SL025-90	83	0.02
NIP050-SH	81	0.02	RB075-025	81	0.04	SL038-90	83	0.03
NIP075-4	81	0.074	RB075-038	81	0.03	SL050-90	83	0.06
NIP075-6	81	0.12	RB075-050	81	0.03	SL075-45	83	0.07
NIP075-SH	81	0.03	RB100-018	5, 81	0.60	SL075-90	83	0.08
NIP100-4	81	0.09	RB100-025	81	0.07	SL100-45	83	0.1
NIP100-6	81	0.14	RB100-050	81	0.05	SL100-90	83	0.13

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
SL125-45	83	0.14	TEE075	82	0.14	TL652E	68	0.64
SL125-90	83	0.14	TEE100	82	0.21	TL652S	68	0.63
SL150-45	83	0.22	TEE125	82	0.32	TL6531	69	0.084
SL150-90	83	0.25	TEE150	83	0.445	TLVA10	68	2.25
SL200-45	83	0.34	TEE200	83	0.584	TM075/050	6, 85	0.16
SL200-90	83	0.41	TEE300	83	1.594	UB100	45	0.24
SL300-45	83	0.833	TEG075	6, 83	0.14	UB202	45	0.26
SL300-90	83	1.054	TEG100	6, 83	0.22	UB220	45	0.32
ST200	68	0.809	TF038SS	72	0.25	UV050FP	18	0.25
ST300	68	1.332	TF050	72	0.25	UV075FP	18	0.25
SUV050FP	18	0.25	TF050SS	72	0.8	UV100FP	18	0.37
SUV075FP	18	0.4	TF075	72	0.2	UV125FP	18	1
SUV100FP	18	0.4	TF075SS	72	1.15	UV150FP	18	1
SUV125FP	18	0.88	TF075V	72	0.22	UV15163	51, 89, 93, 101, 103, 105, 107, 111, 119, 121, 125, 127, 129, 131, 133, 139, 141, 143, 147, 149, 153, 155, 157, 159	0.002
SUV150FP	18	0.88	TF100	72	0.35	UV15163V	93, 101, 105, 119, 153, 155, 157, 159	0.002
SUV200FP	18	1.45	TF100AV	73	0.44	UV200FP	18	1.5
SW100	85	0.16	TF100G	5, 72	0.02	UV204FFPD	67	1.58
SW150	85	0.36	TF100GV	5, 72	0.035	V050	10	0.75
SW220	85	0.52	TF100SS	72	2.85	V07018	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 125	0.1
TA283	69	0.2	TF125	72	0.35	V07019	101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 125	0.008
TA283QD	69	0.3	TF125AV	73	0.386	V075	10	0.75
TC120	80	0.1	TF125SS	72	1.92	V075BL	16	1.35
TC130	80	0.1	TF138GV	72	0.1	V075SL	16	1.35
TC150	80	0.11	TF150	72	0.63	V100	10	0.682
TC162	80	0.12	TF150AV	73	0.68	V100BL	13, 16	1.25
TC181	80	0.14	TF150SS	72	4.88	V100FP	10	1.16
TC193	80	0.12	TF200	72	0.55	V100SL	16	1.31
TC206	80	0.14	TF200AV	73	0.596	V10117	149	0.1
TC218	80	0.13	TF200SS	72	3.6	V10118	125, 127, 129, 131, 133, 135, 137, 147, 149, 153, 155, 157, 159	0.004
TC224	80	0.14	TF200V	72	0.56	V10119	105, 125, 127, 129, 131, 133, 135, 147, 153, 155, 157, 159	0.1
TC231	80	0.15	TF220	72	0.82	V10153138	12	0.07
TC250	80	0.16	TF220G	72	0.038	V10161	17	0.176
TC287	80	0.17	TF220SS	72	5.27	V10200	5, 10, 2, 34	0.143
TC312	80	0.16	TF300	72	2	V10264	151	0.002
TC331	80	0.17	TF300G	72	0.094	V10270	12	0.138
TC343	80	0.17	TF300SS	72	7.9	V10271	12	0.14
TC425	80	0.18	TF400	72	4.5	V125	10	1.25
TC438	80	0.36	TF400G	72	0.7	V125BL	13, 16	2.126
TC456	80	0.38	TF400GV	72	0.752	V125FP	10	1.91
TEE025	82	0.02	TL600C	68	0.46	V125SL	16	2.07
TEE038	82	0.05	TL650S	68	0.5	V150	10	1.87
TEE050	82	0.1	TL651S	68	0.7	V150BL	13, 16	2

REFERENCE

PART NO	PAGE NO(S)	WEIGHT	PART NO	PAGE NO(S)	WEIGHT
V150SL	16	2	VSF200	13	1.25
V200	10	1.88	VSF200CF	35	1.49
V20018	105, 107, 117, 125, 131, 133, 137, 139, 141, 143, 145, 151, 155, 157, 159	0.004	VSF200FFAF	11	3.05
V20019	137, 139, 141, 143, 159	0.016	VSF204FP	14	1.82
V200BL	13, 16	2.8	VSF300	15	3.424
V200FP	5, 11, 12	3.25	VSFHB200	13	1.52
V200SL	16	2.75	VSFMT200	13	1.562
V20153138	12	0.176	VSFMT204FP	14	1.862
V20207	69, 78	0.006	VSFMT204HSFP	14	2.95
V204FP	10	2.74	VSFMT300	15	3.374
V20200	5, 10, 17, 34	0.206	VSFMT300FP	15	4.29
V20353TS	5, 17	0.002	VSFMT300HSFP	15	6.63
V25153138	12	0.16	VSMT200	13	1.35
V25200	5, 10, 11, 17, 34	0.577	VSMT200CF	35	1.432
V25200BL	5, 16, 38	N/A	VSMT204FP	14	1.874
V25270	12	0.194	VSMT300	15	3.27
V25271	12	0.356	VSS025	19	0.634
V300	5, 11, 12	3.75	VSS038	19	0.59
V300FP	5, 11, 12	5.67	VSS050	19	0.7
V30200	5, 11, 34	N/A	VSS075	19	1.298
V35200	5, 11, 34	1.52	VSS100	19	2.094
V400	5, 11, 12	8.5	VSS150	19	3.996
V40200	5, 11	4.2	VSS200	19	6.808
VA150	17	2.592	VSS300	19	18.43
VA200	17	2.8	W230237	66	1.07
VA200/150	5, 17	4.62	W230238	66	1.17
VA200FP	17	3.958	W230239	66	1.07
VC200	73	0.219	W230240	66	1.1
VC230	73	0.26	WSF210FSA	66	1.2
VC300	73	0.54	WSF210FSAV	66	1
VC330	73	0.68	WSMT210FSA	66	1.07
VFMT200FP	5, 11, 12	3.368	WSMT210FSAV	66	1
VFMT204FP	10	3.33			
VL20153	12	0.35			
VL25153	12	0.41			
VN100	17	0.712			
VS204FP	14	1.834			
VS30200	5, 15, 36	0.622			
VSBHB204FP	8	2.675			
VSBHB205FP	8	2.965			
VSBHB304FP	8	5.1			
VSBHB305FP	8	5.52			



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