



Submersible Pumps

Series BERS



www.flofab.com

001-cat-2017-subm3

Go to www.flofab.com in Our Products Section to see the Master Spec - <http://www.arcomnet.com/masterspec/>



HISTORY

Founder 1981



MG

Flo Fab was established in 1981 by Denis Gauvreau who created and developed the products line and constantly being perfected by Marc Gauvreau, as well as by a team of professional engineers and designers. It's a combination of existing designs from several renowned products and the innovative ideas of a new generation professionals.

Through the years, Flo Fab has acquired several companies and service entities including : AQUA-PROFAB (ASME Tanks manufacturer), MÉNARD, LÉONARD ÉLECTRIQUE, PMA. , Furthermore Flo Fab purchased equipment, fabrication designs and patterns from IDEALCO, a manufacturer of shell and tube type heat exchangers.

The after sales services, sales, engineering, R&D, production, quality control, accounting and administration departments of all the above companies share the same location.

In December 2014, Marc Gauvreau, son of the founder, acquired all shares of The company. Flo Fab and is constantly investing in new state of the art innovations new product like the XRI series and Prefab Skid for Hydronic Heating & cooling system, pumping systems. This has allowed Flo Fab to retain competent and experienced staff of professionals with varied and specialized abilities that constantly work on improving our existing products and add new engineered solutions that exceeding customer's expectations .

Flo Fab has grown quite rapidly and now proudly offers of a wide range of products available directly from one manufacturer. This includes pumps & pump packages, tanks, heat exchangers & hydronic accessories. This allows each project stakeholders to enjoy economical savings, peace of mind, best value for their investment and optimized total cost of ownership.



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Determination of the required System Capacity

FIGURE 1

Description	Unit Value	Total Used
Bathroom Group, Consisting of Lavatory, Bathtub or Shower and (Direct Flush) Water Closet	10	
Bathroom Group, Consisting of Lavatory, Bathtub or Shower and (Flush Tank) Water Closet	6	
Bathtub with 1 1/2" Trap	2	
Bathtub with 2" Trap	3	
Bidet with 1 1/2" Trap	3	
Dental unit or Cuspidor	1	
Drinking Fountain	1	
Dishwasher (Domestic Type)	2	
Kitchen Sink (Domestic)	2	
Kitchen Sink (Domestic) with Waste	3	
Grinder	3	
Lavatory with 1 1/2" Trap	1	
Lavatory Barber or Beauty Shop	2	
Laundry Tray (2 compartments)	2	
Shower Stall	2	
Shower Group per head	3	
Sink (Direct Flush Valve)	7	
Sink (Service Type with Floor Drain)	3	
Sink (Scullery)	4	
Sink (Surgeons)	3	
Urinal (with Flush Valve)	8	
Urinal (with Flush Tank)	4	
Water Closet (Flush Valve)	7	
Water Closet (Flush Tank)	3	
Swimming Pools (per 1000 Gal.)	1	
Unlisted Fixture with 1 1/4" Trap	2	
Unlisted Fixture with 1 1/4" Trap	3	
Unlisted Fixture with 2" Trap	4	
Unlisted Fixture with 2 1/2" Trap	5	
Unlisted Fixture with 3" Trap	6	
Unlisted Fixture with 4" Trap	7	
Water Softener (Domestic)	4	
Washing Machine	2	
	TOTAL	

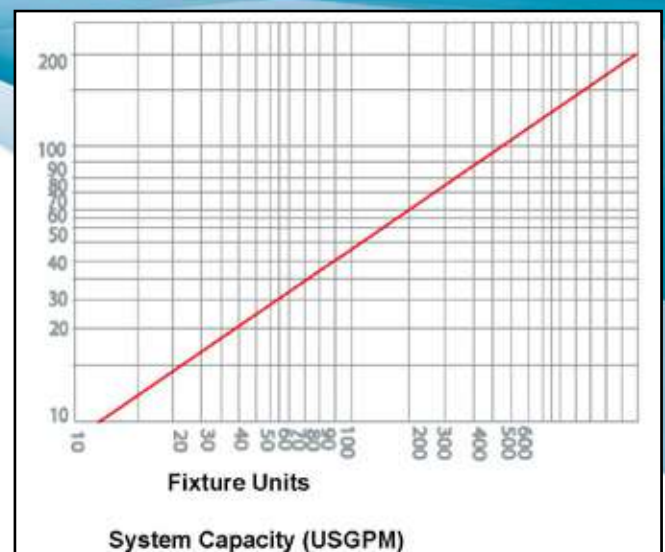
SYSTEM CAPACITY

The System Capacity refers to the rate of flow in US Gallons Per Minute (US-GPM) necessary to efficiently maintain the system. The «Fixture Unit» (figure 1) method is suggested for determining this figure. This approach assigns a relative value to each fixture or group of fixtures normally encountered. Determination of the required System Capacity is as follows:

1) List all fixtures involved in the installation and using Figure 1 assign a Fixture Unit value to each. Add to obtain the total.

2) Referring to Figure 2 locate the total Fixture Unit amount along the horizontal axis of the graph and follow vertically until intersecting the plotted line. Read the System Capacity in US-GPM along the vertical axis.

FIGURE 2



● How to Select a Pump Model

1) FROM FIGURE 1

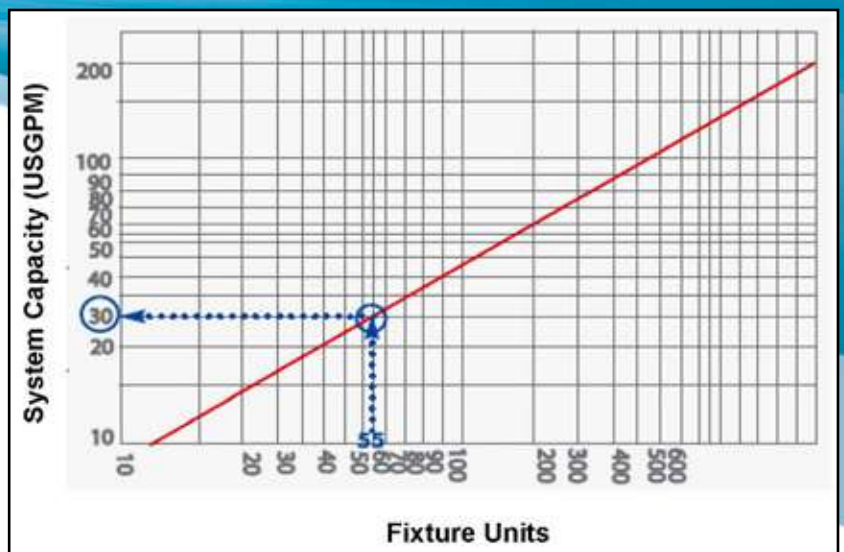
Description	Unit Value	Total Used
Bathroom Group, Consisting of Lavatory, Bathtub or Shower and(Flush Tank)	6	24
Dishwasher (Domestic Type)	2	2
Kitchen Sink (Domestic)	2	2
Laundry Tray (2 compartments)	2	2
Shower Tall	2	2
Swimming Pools (per 1000 Gal)	1	13
Bar Sink (Unlisted with 1 1/2" T)	3	3
Water Softener (Domestic)	4	4
Washing Machine	2	2
Total		55

EXAMPLE

What Pump Capacity would be required to handle the drainage from a 4 bathroom home, also including a dishwasher, a washer, a laundry tray, a kitchen sink, a water softener, a basement shower, a 13 000 gallon pool and a bar sink with a 1 1/2" Trap?

2) REFER TO FIGURE 2

Find 55 Fixture Units On the horizontal axis. Follow Vertically until intersecting the plotted line then horizontally to the left. The Pump Capacity on the vertical axis is 30 USGPM.



Basic Installation Instructions: BERS-0125 thru BERS-0300 Series

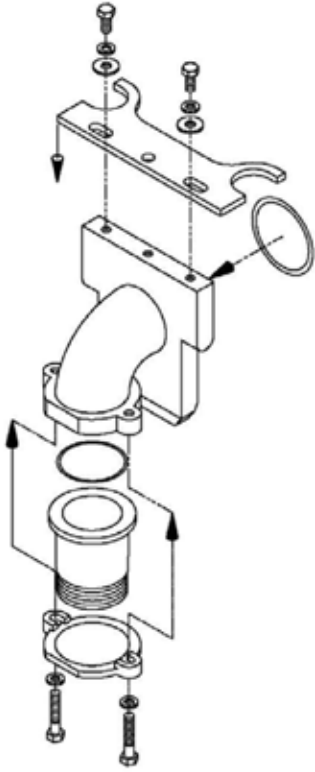


FIGURE 1

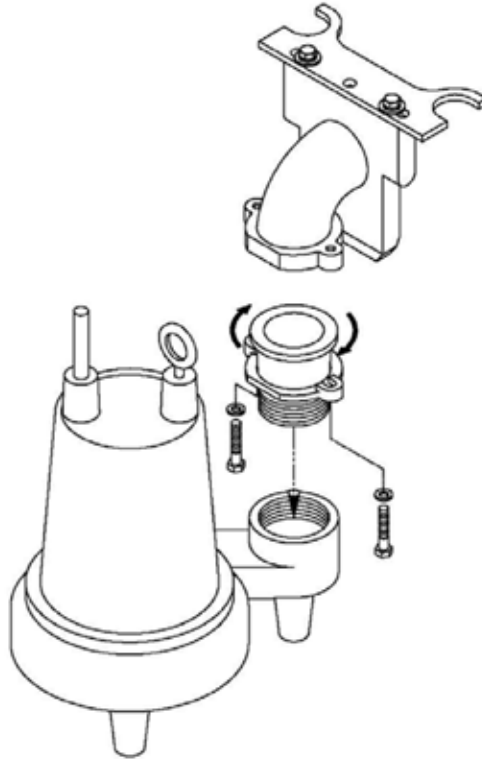


FIGURE 2

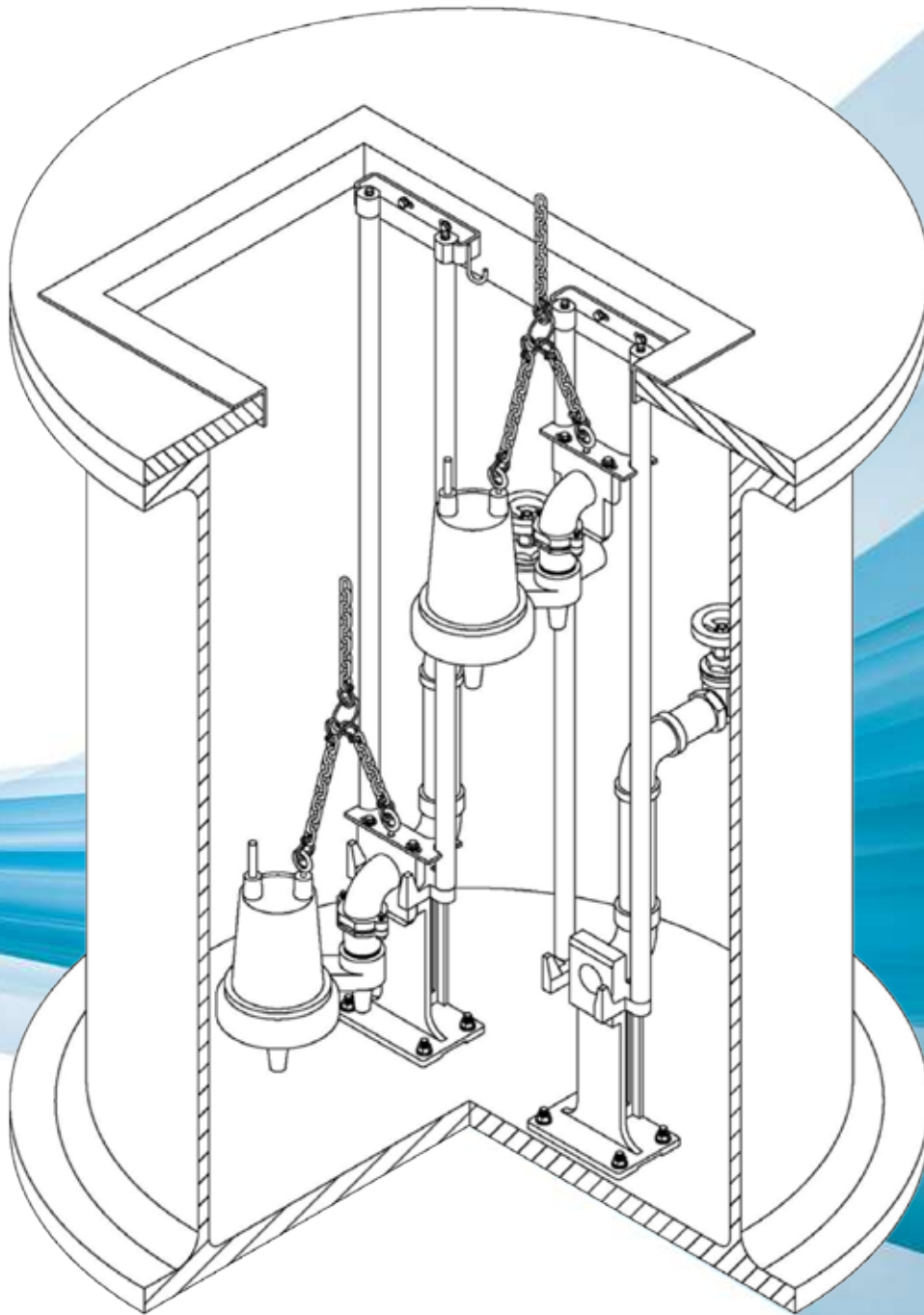


FIGURE 3

Pull Out Flange Assembly Instructions: Figure 1 shows all of the parts included with the pull-out flange assembly. This is the removable portion of the Flo Fab™ base elbow rail system assembly, and it is this assembly that will attach to the discharge of the pump (see figure 2). The threaded pump adapter flange will thread into the pump discharge as shown. The pump adapter flange is secured by tightening the two (2) long cap screws provided. This allows the pump to be oriented as necessary before lowering into the basin or collection tank. After attaching the pull out flange assembly to the pump, the lifting chain or cable assembly should be attached (see figure 3). This should be adequately sized to handle the weight of the pump and the pull out flange assembly as well as be long enough to allow for easy access for pulling the pump (continued on reverse side of this page).



Basic Installation Instructions: BERS-0125 thru BERS-0300 Series



Base Elbow Installation Instruction: There are two main components to the Freeflo™ base elbow rail system, the stationary base and the pull out flange assembly. The stationary base will be secured to the bottom of the basin or collection tank. The base elbow should be positioned per the job specifications and the pump manufacturer's recommendations to allow for proper alignment with the access hatch for removal and installation of the pump or pumps. The base elbow is designed to be secured with four (4) studs, lock-washers, and nuts. It is important to make sure the elbow is secured to the basin or collection tank bottom to prevent it from moving or vibrating. After the elbow is installed the remaining items can be installed (i.e. piping, valve, guide rails, rail supports, etc.) into the tank. After this is done simply attach the pull out flange assembly to the pump, and lower the pump into the tank as shown above.



BERS-0125

(1 1/4" Pump Base Elbow) Series



- Base Elbow is constructed of Ductile Iron
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs.
- 2.00" Discharge

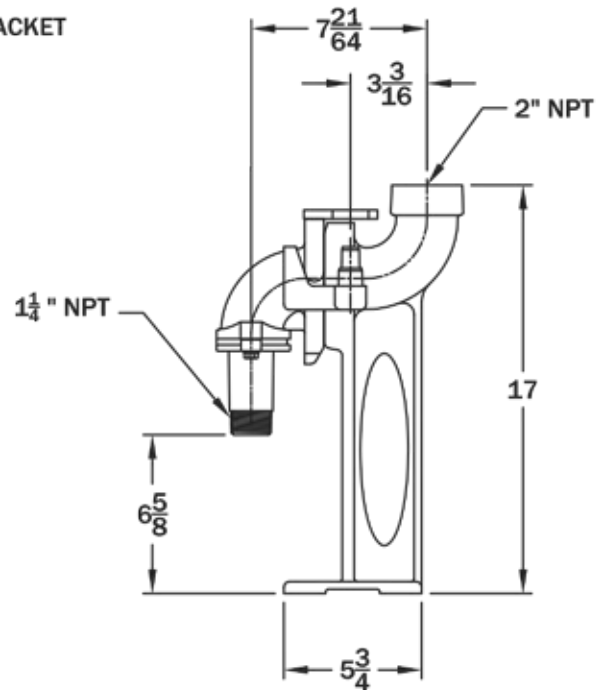
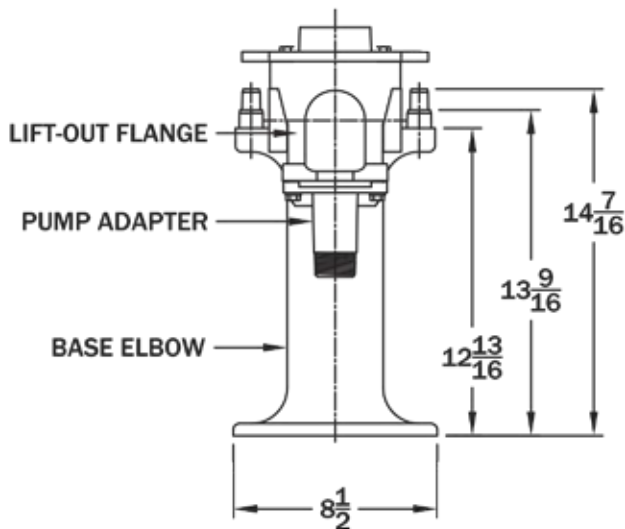
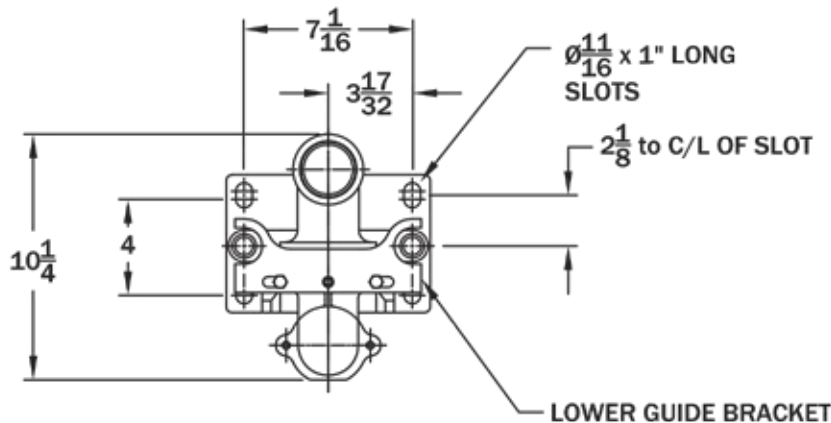
NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

- PUMP ADAPTER: 304 SST
- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- LOWER GUIDE BRACKET: 304 SST
- ALL FASTENERS ARE 304 SERIES SST
- USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"
- MAXIMUM WEIGHT ALLOWANCE: 250 lbs

BERS-0125

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ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/05/04
E	.XXX = ±.005	MATERIAL SPECIFICATION: AS NOTED	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2°		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	1 1/4" LIFT OUT DIM



BERS-0125 CV

(1 1/4" Pump Base Elbow with Check Valve)



- Includes Integral Check Valve in Pull-Out Flange
- Allows for Removal of Check Valve with Pump
- Base Elbow is constructed of Ductile Iron
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs.
- 2.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

PUMP ADAPTER: 304 SST

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST DUCTILE IRON

LOWER GUIDE BRACKET: 304 SST

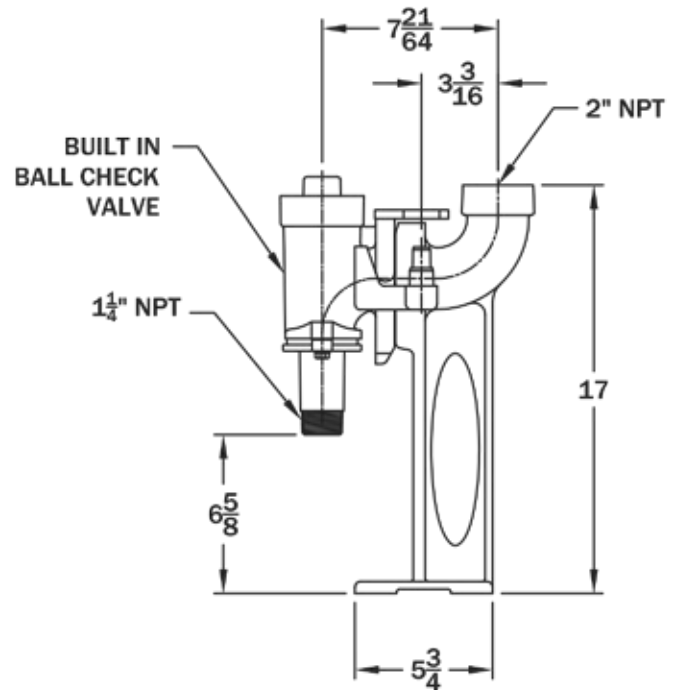
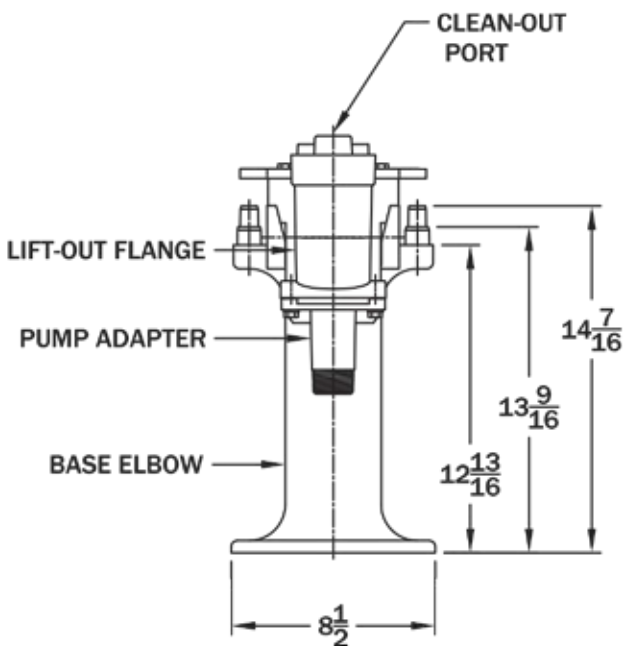
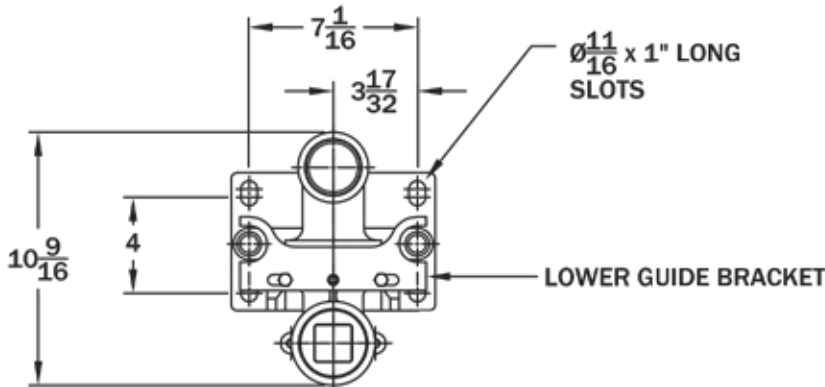
ALL FASTENERS ARE 304 SERIES SST

USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"

MAXIMUM WEIGHT ALLOWANCE: 250 lbs

BERS-0125CV

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D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2'		

SCALE:	PART NO.
1/8	1-1/4" LIFT OUT DIM



BERS-0125 EX

(1 1/4" Explosion Proof Base Elbow)



- Non-Sparking Design
- Bronze Pull-Out Flange
- Bronze Lower Guide Rail Plate
- Base Elbow is constructed of Ductile Iron
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs
- 2.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

PUMP ADAPTER: 304 SST

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST BRASS

LOWER GUIDE BRACKET: CAST BRASS

ALL FASTENERS ARE 304 SERIES SST

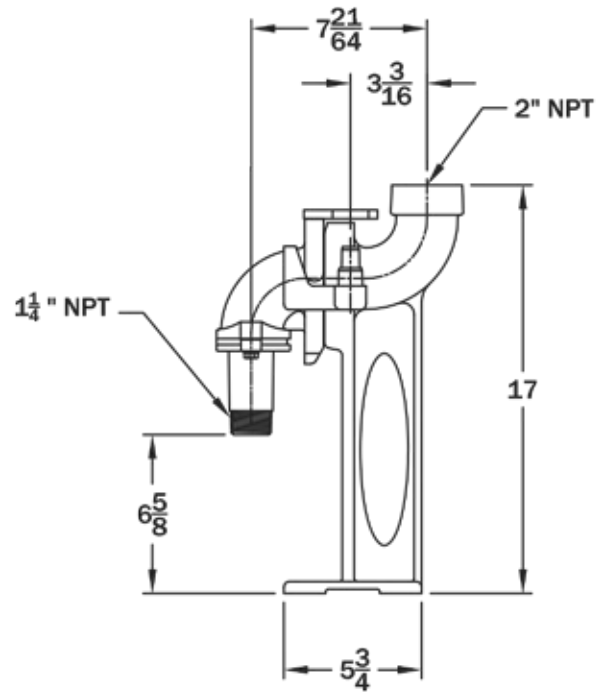
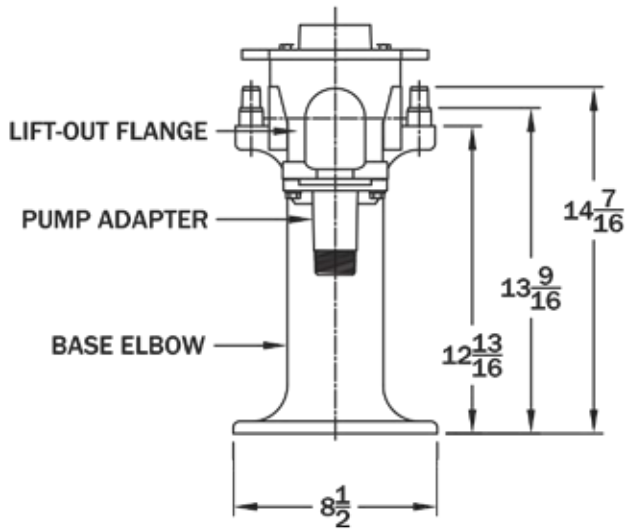
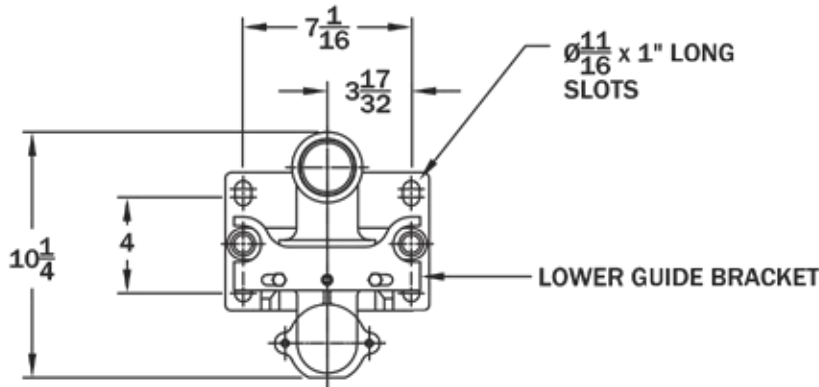
USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"

MAXIMUM WEIGHT ALLOWANCE: 250 lbs

"NON-SPARKING DESIGN FOR USE IN APPLICABLE HAZARDOUS LOCATIONS"

BERS-0125EX

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D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2'		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	1 1/4" LIFT OUT DIM



BERS-0150

(1.5" Pump Base Elbow)



- Base Elbow is constructed of Ductile Iron
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs.
- 2.00" Discharge

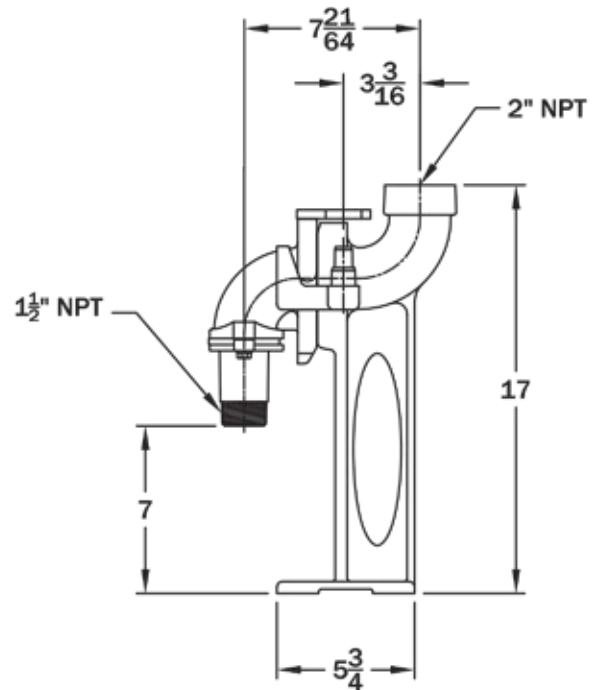
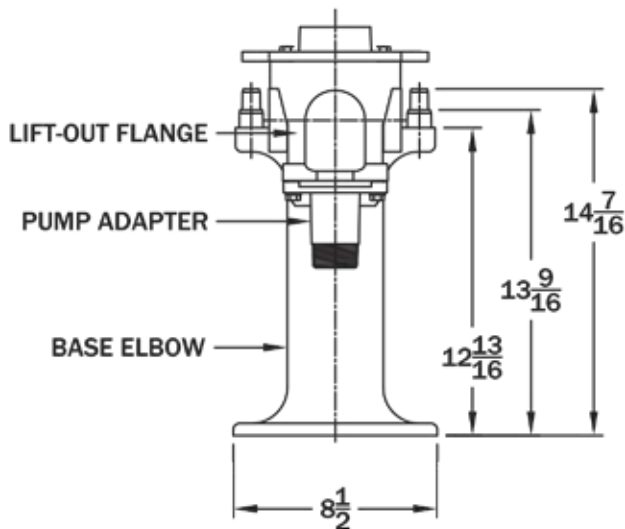
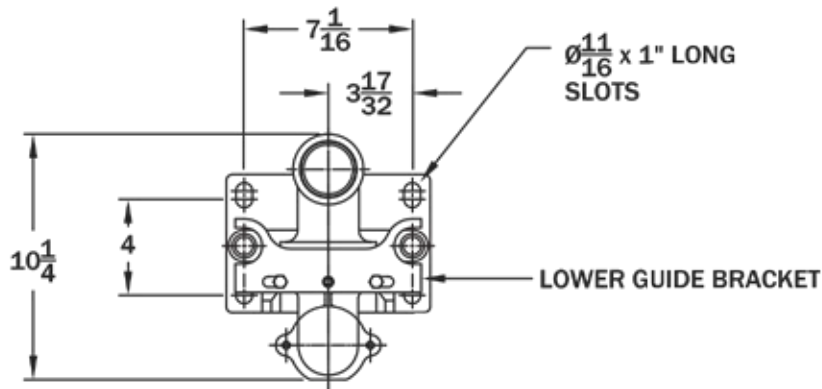
NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

- PUMP ADAPTER: 304 SST
- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- LOWER GUIDE BRACKET: 304 SST
- ALL FASTENERS ARE 304 SERIES SST
- USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"
- MAXIMUM WEIGHT ALLOWANCE: 250 lbs

BERS-0150

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C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2'		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	1 1/2" LIFT OUT DIM



BERS-0150 CV

(1.5" Pump Base Elbow with Check Valve)



- Includes Integral Check Valve in Pull-Out Flange
- Allows for Removal of Check Valve with Pump
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs
- 2.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

PUMP ADAPTER: 304 SST

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST DUCTILE IRON

LOWER GUIDE BRACKET: 304 SST

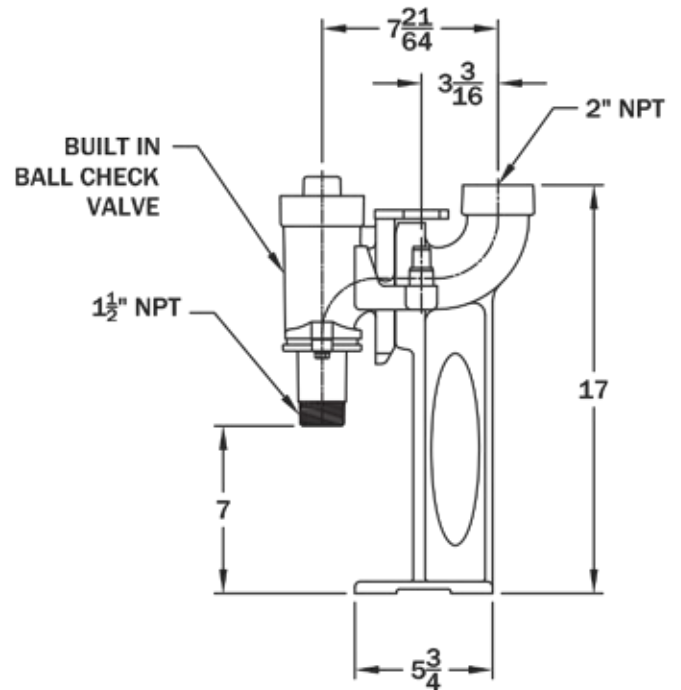
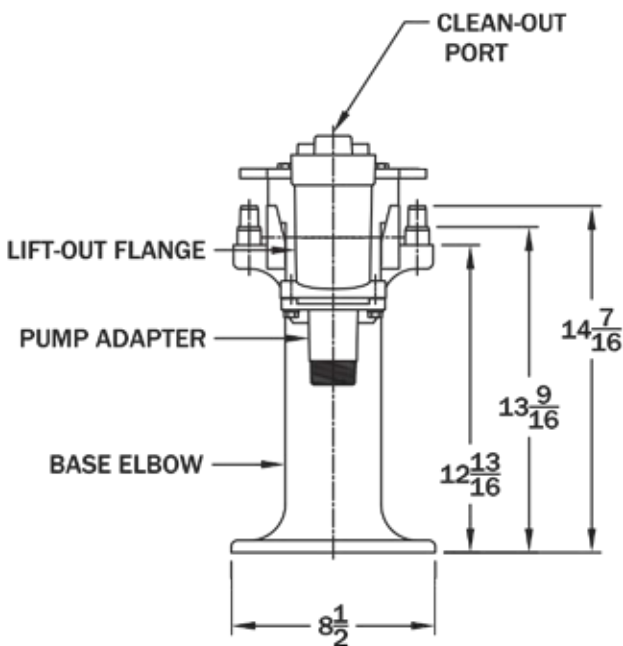
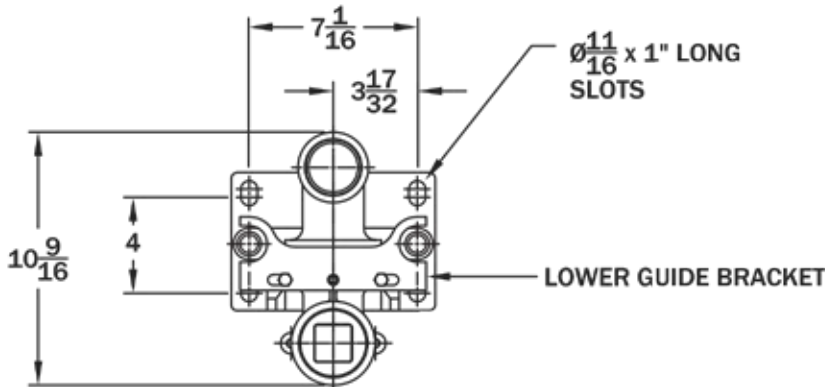
ALL FASTENERS ARE 304 SERIES SST

USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"

MAXIMUM WEIGHT ALLOWANCE: 250 lbs

BERS-0150CV

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D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2'		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	1-1/2" LIFT OUT DIM



BERS-0150 EX

(1.5" Explosion Proof Pump Base Elbow)



- Non-Sparking Design
- Bronze Pull-Out Flange
- Bronze Lower Guide Rail Plate
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs
- 2.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

PUMP ADAPTER: 304 SST

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST BRASS

LOWER GUIDE BRACKET: CAST BRASS

ALL FASTENERS ARE 304 SERIES SST

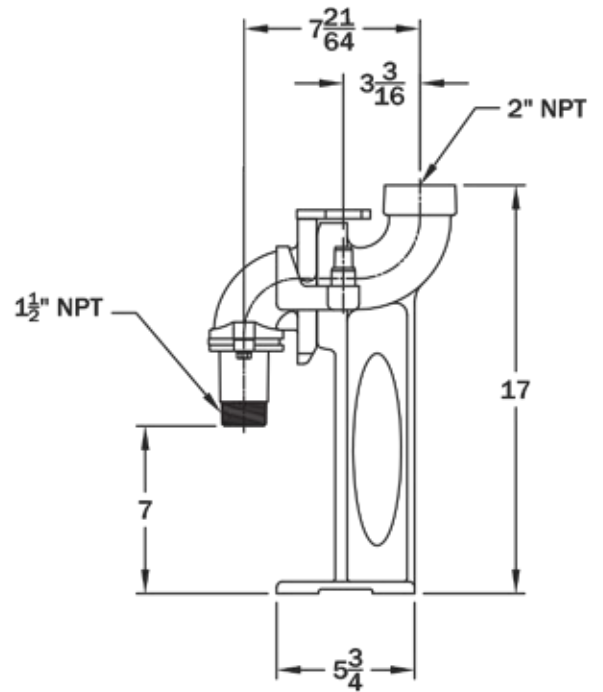
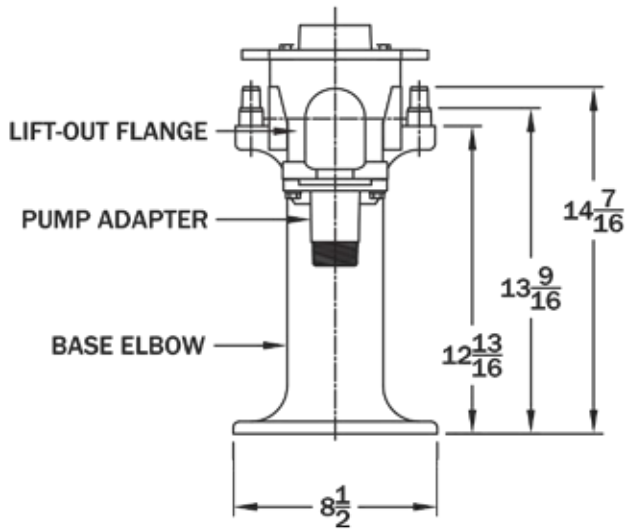
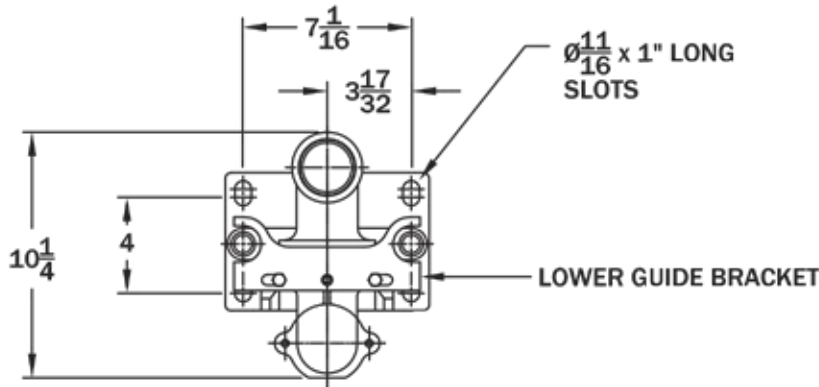
USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"

MAXIMUM WEIGHT ALLOWANCE: 250 lbs

"NON-SPARKING DESIGN FOR USE IN APPLICABLE HAZARDOUS LOCATIONS"

BERS-0150EX

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CHANGES	TOLERANCES	DRAWN BY	DATE
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E	.XXX = ±.005	MATERIAL SPECIFICATION: AS NOTED	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2'		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	1 1/2" LIFT OUT DIM



BERS-0200 (2.00" Pump Base Elbow)



- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs
- 2.00" Discharge

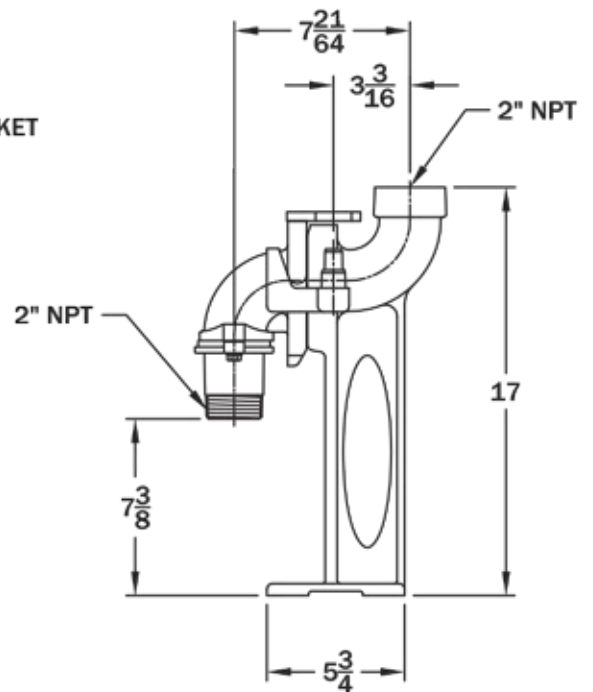
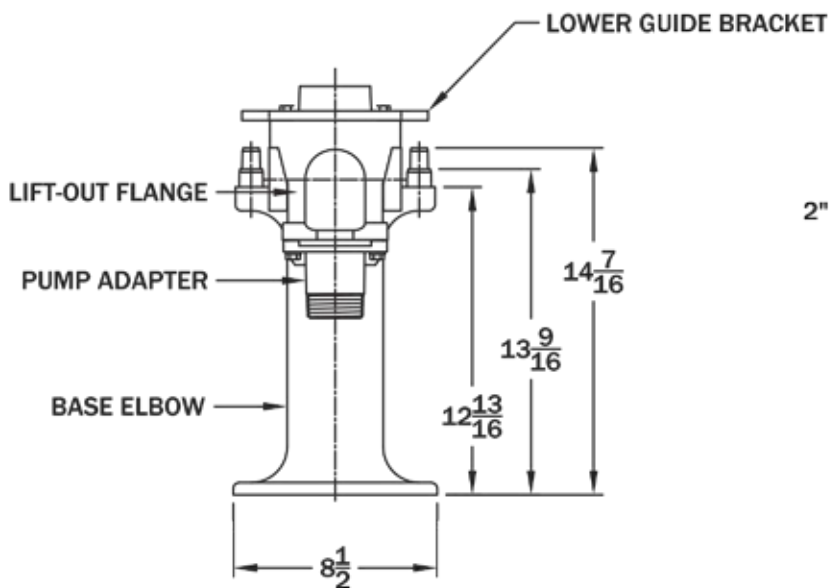
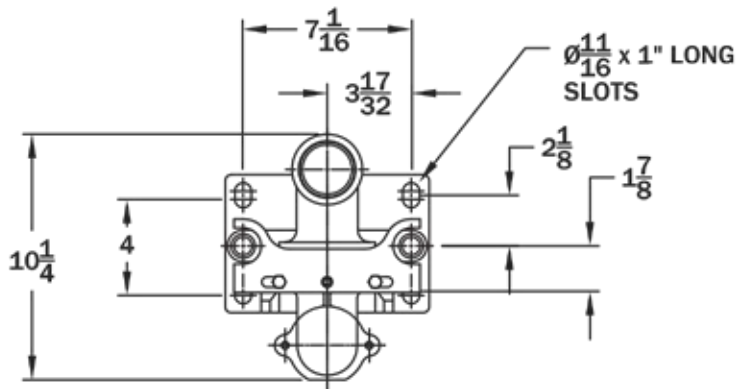
NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

- PUMP ADAPTER: 304 SST
- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- LOWER GUIDE BRACKET: 304 SST
- ALL FASTENERS ARE 304 SERIES SST
- USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"
- MAXIMUM WEIGHT ALLOWANCE: 250 lbs

BERS-0200

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1



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/05/04
E	.XXX = ±.005	MATERIAL SPECIFICATION: AS NOTED	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2'		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	2" LIFT OUT DIM



BERS-0200 CV

(2.00" Pump Base Elbow with Check Valve)



- Includes Integral Check Valve in Pull-Out Flange
- Allows for Removal of Check Valve with Pump
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs
- 2.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

PUMP ADAPTER: 304 SST

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST DUCTILE IRON

LOWER GUIDE BRACKET: 304 SST

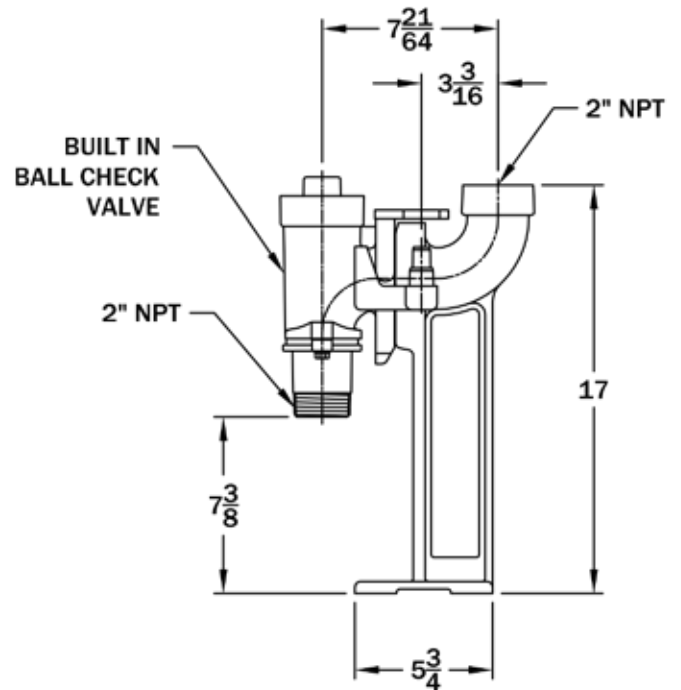
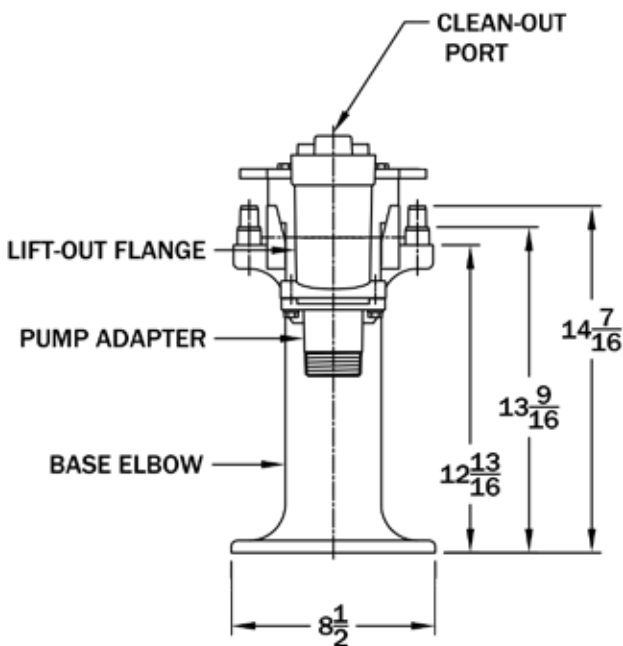
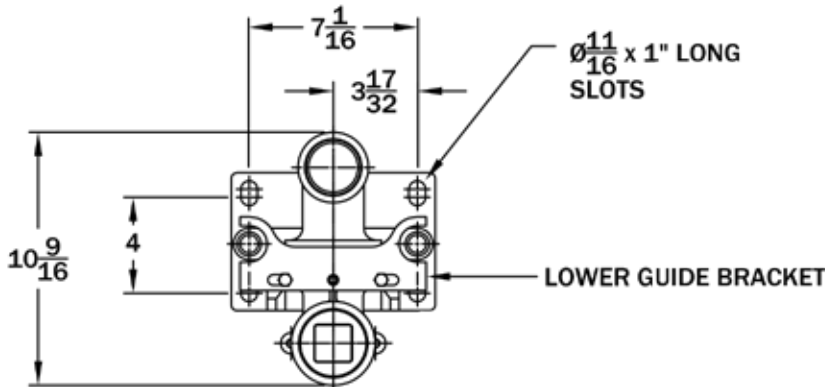
ALL FASTENERS ARE 304 SERIES SST

USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"

MAXIMUM WEIGHT ALLOWANCE: 200 lbs

BERS 200-CV

PAGE
1



ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/05/04
E	.XXX = ±.005	MATERIAL SPECIFICATION: AS NOTED	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2°		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	2" LIFT OUT DIM



BERS-0200 EX

(2.00" Explosion Proof Pump Base Elbow)



- Non-Sparking Design
- Bronze Pull-Out Flange
- Bronze Lower Guide Rail Plate
- Base Elbow is constructed with Ductile Iron
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Stainless Steel Accessories Standard
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 200 lbs
- 2.00" Discharge

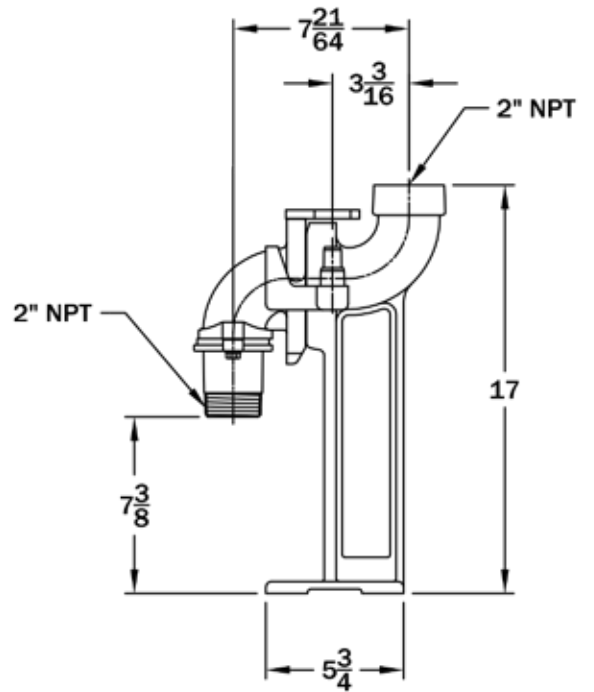
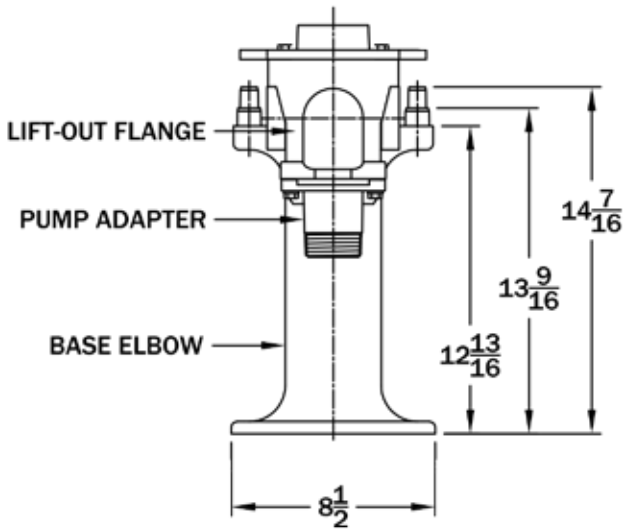
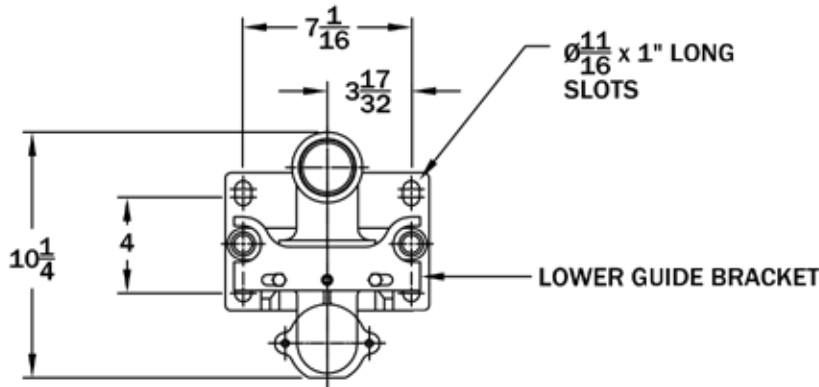
NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

- PUMP ADAPTER: 304 SST
- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST BRASS
- LOWER GUIDE BRACKET: CAST BRASS
- ALL FASTENERS ARE 304 SERIES SST
- USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"
- MAXIMUM WEIGHT ALLOWANCE: 200 lbs

BERS 200-EX

PAGE
1



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/05/04
E	.XXX = ±.005	MATERIAL SPECIFICATION: AS NOTED	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2°		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	2" LIFT OUT DIM



BERS-0200 SST

2.00" 316 Stainless Steel Base
Elbow Rail System



- 316 Stainless Steel Construction
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75" or 1.00" Rails
- Rated for Pumps Weighing Less than 250 lbs
- 2.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

PUMP ADAPTER: 304 SST

BASE ELBOW: 316SST

LIFT-OUT FLANGE: 316SST

LOWER GUIDE BRACKET: 316 SST

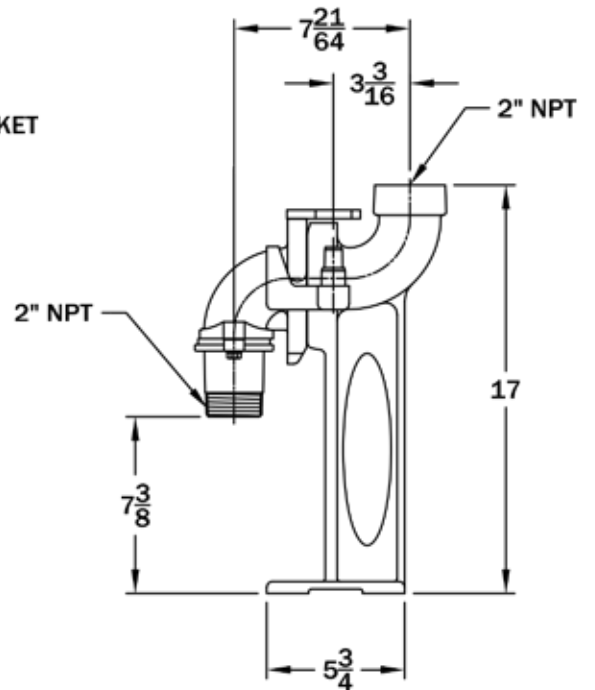
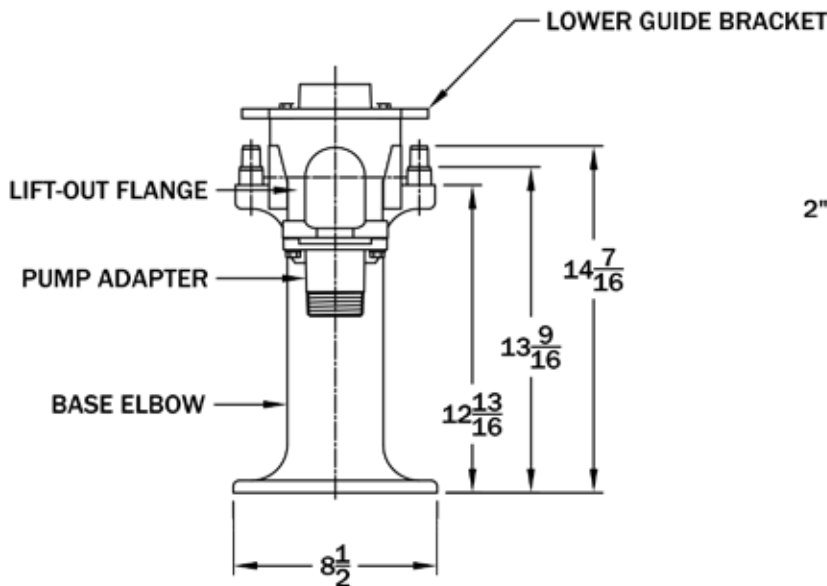
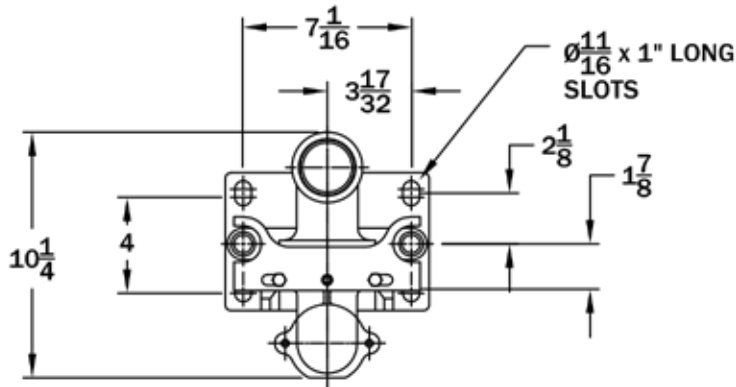
ALL FASTENERS ARE 304 SERIES SST

USABLE RAIL SIZES: $\frac{3}{4}$ " & 1"

MAXIMUM WEIGHT ALLOWANCE: 250 lbs

BERS-0200SST

PAGE
1



ALL INFORMATION CONTAINED IN THIS DRAWING IS
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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	11/17/15
E	.XXX = ±.005	MATERIAL SPECIFICATION: AS NOTED	
D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2°		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	2" LIFT OUT DIM



BERS-0300 H

(3.00" Horizontal Pump Base Elbow)



- Designed for Horizontal Discharge Pumps
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

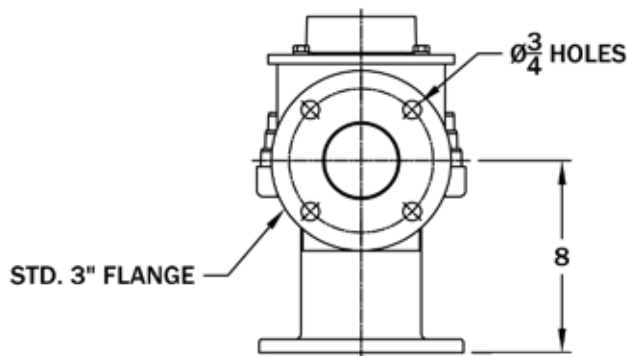
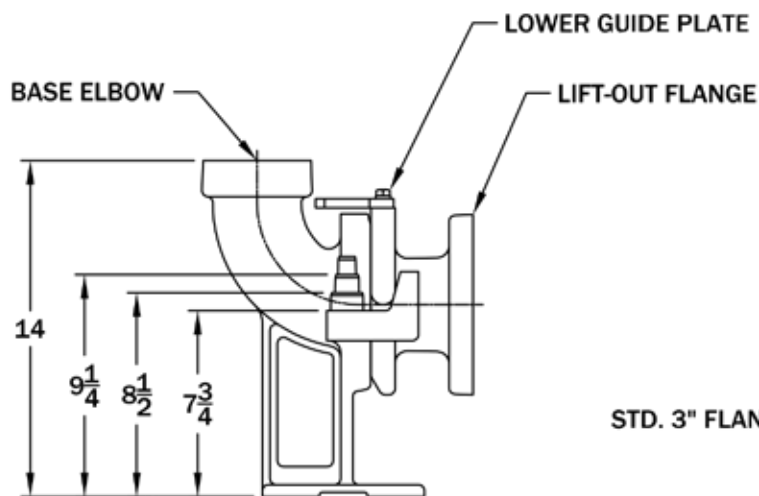
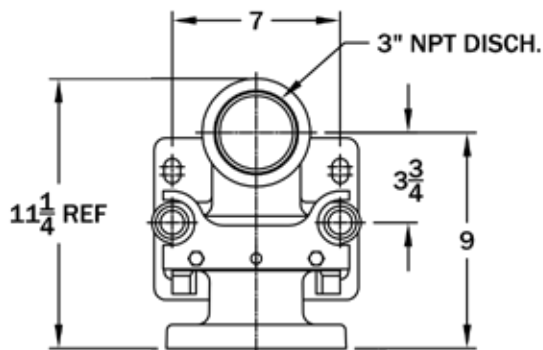
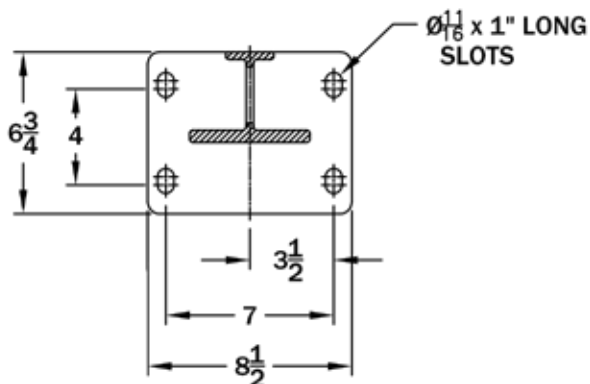
MATERIALS OF CONSTRUCTION:

- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- LOWER GUIDE BRACKET: 304 SST
- ALL FASTENERS ARE 304 SERIES SST
- USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "
- SPHERICAL SOLIDS SIZE: 3" Diameter.
- MAXIMUM WEIGHT ALLOWANCE: 400lbs.

BERS-0300H

PAGE
1

MOUNTING DIMENSIONS



ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ± 0.005	D. MIDDLETON	07/15/04
E	.XX = ± 0.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = $\pm 1/64$		
B	ANGLES		
A	X' = $\pm 1/2'$		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	3" LIFT OUT DIM



BERS-0300 H SST

3.00" 316 Stainless Steel Vertical Base
Elbow Rail System



- Designed for Horizontal Discharge Pumps
- 316 Stainless Steel Construction
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

BASE ELBOW: 316 SST

LIFT-OUT FLANGE: 316 SST

LOWER GUIDE BRACKET: 316 SST

ALL FASTENERS ARE 304 SERIES SST

USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "

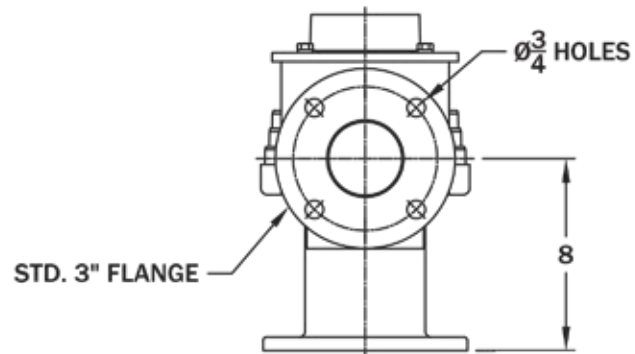
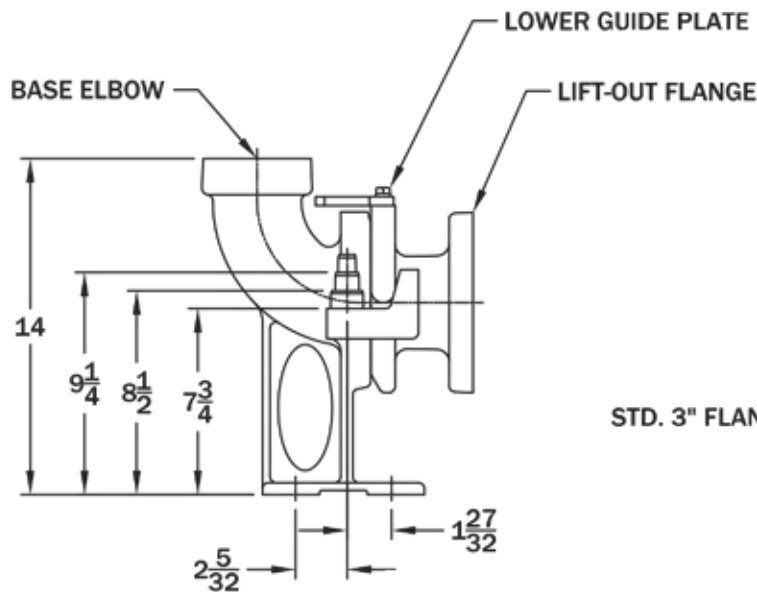
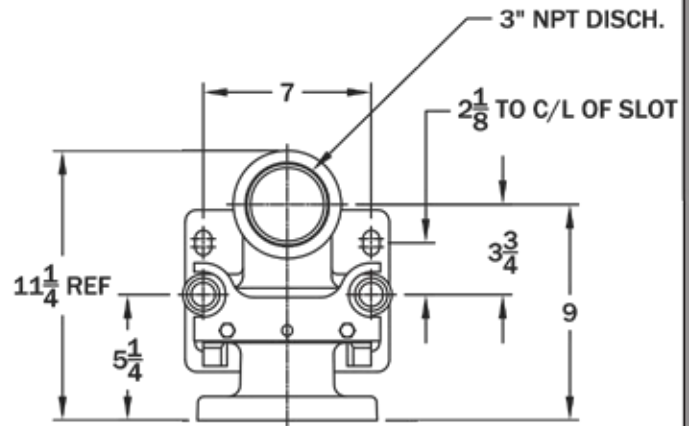
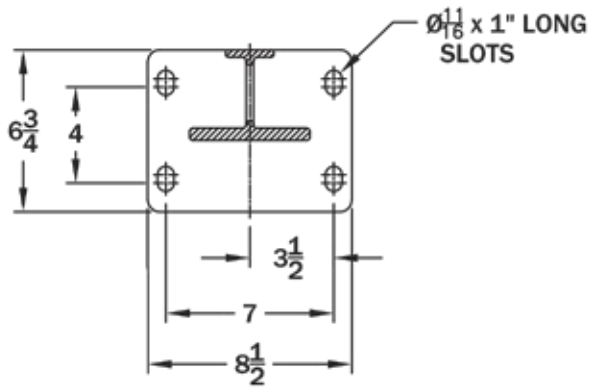
SPHERICAL SOLIDS SIZE: 3" Diameter.

MAXIMUM WEIGHT ALLOWANCE: 450lbs.

BERS-0300H-SST

PAGE
1

MOUNTING DIMENSIONS



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ± 0.005	D. MIDDLETON	11/15/15
E	.XX = ± 0.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = $\pm 1/64$		
B	ANGLES		
A	X' = $\pm 1/2'$		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
$1/8$	3" LIFT OUT DIM



BERS-0300 HEX

(3.00" Horizontal Explosion Proof
Pump Base Elbow)



- Non-Sparking Design
- Bronze Lower Guide Rail Plate
- Base Elbow is Designed for Horizontal Discharge Pumps
- Base Elbow is constructed with Ductile Iron
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST BRASS

LOWER GUIDE BRACKET: CAST BRASS

ALL FASTENERS ARE 304 SERIES SST

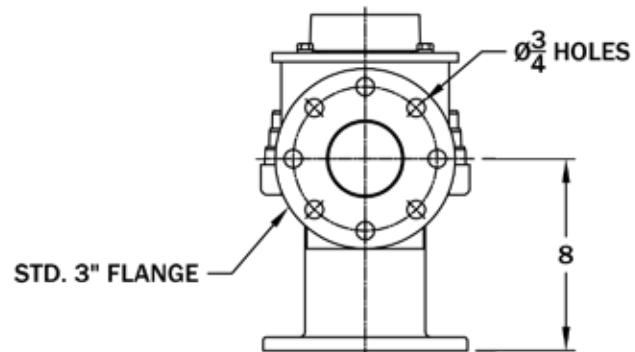
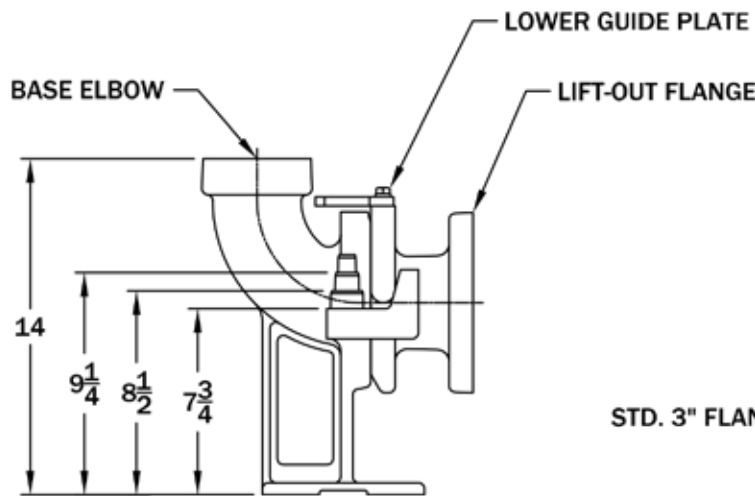
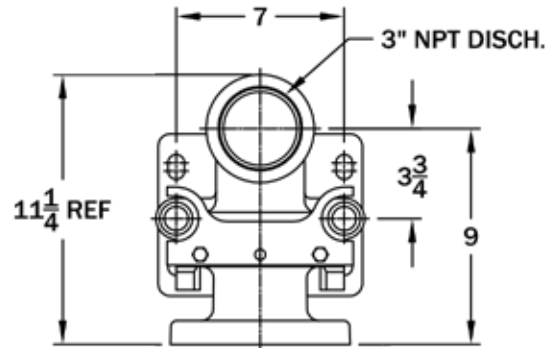
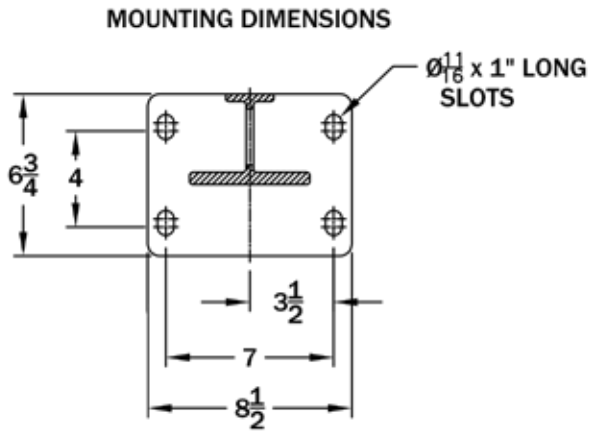
USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "

SPHERICAL SOLIDS SIZE: 3" Diameter.

MAXIMUM WEIGHT ALLOWANCE: 400lbs.

BERS 300HEX

PAGE
1



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005	D. MIDDLETON	07/15/04
E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X' = ±1/2'		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE: 1/8 PART NO. 3" LIFT OUT DIM



BERS-0300 V (3.00" Vertical Pump Base Elbow)



- Base Elbow for 3" Vertical Discharge Pumps
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

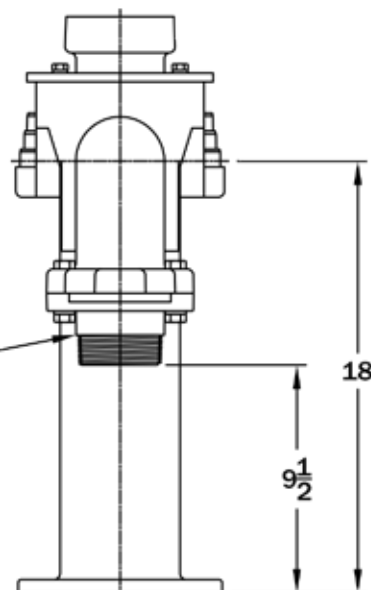
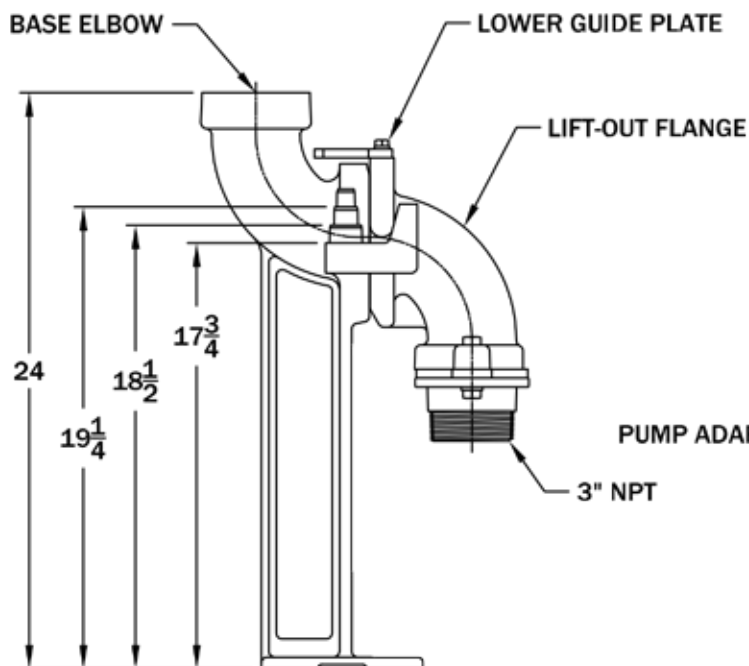
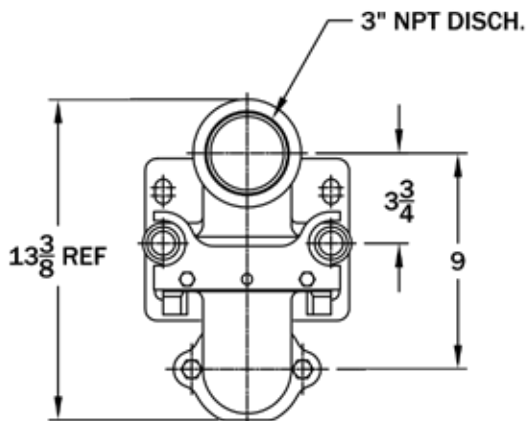
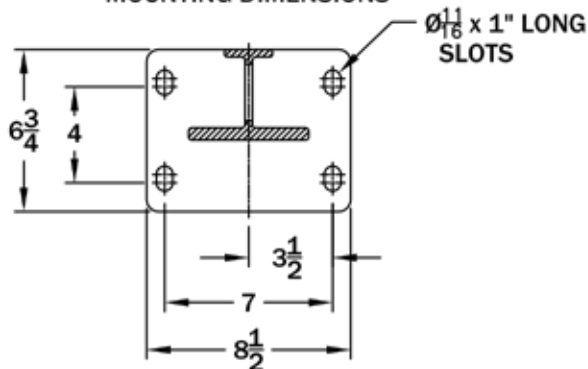
MATERIALS OF CONSTRUCTION:

- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- PUMP ADAPTER : 304 SST
- LOWER GUIDE BRACKET: 304 SST
- ALL FASTENERS ARE 304 SERIES SST
- USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "
- SPHERICAL SOLIDS SIZE: 3" Diameter.
- MAXIMUM WEIGHT ALLOWANCE: 400lbs

BERS 300V

PAGE
1

MOUNTING DIMENSIONS



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005	D. MIDDLETON	07/15/04
E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X° = ±1/2°		

**SPECIFICATION SHEET
DIMENSIONAL DATA**

SCALE:	PART NO.
1/8	3" LIFT OUT DIM



BERS-0300 V SST

3.00" 316 Stainless Steel Vertical Base
Elbow Rail System



- Base Elbow for 3" Vertical Discharge Pumps
- 316 Stainless Steel Construction
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

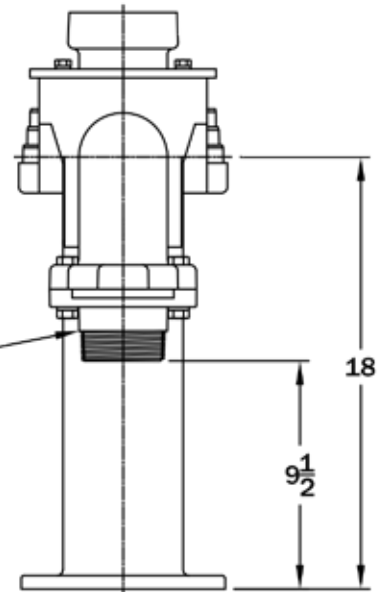
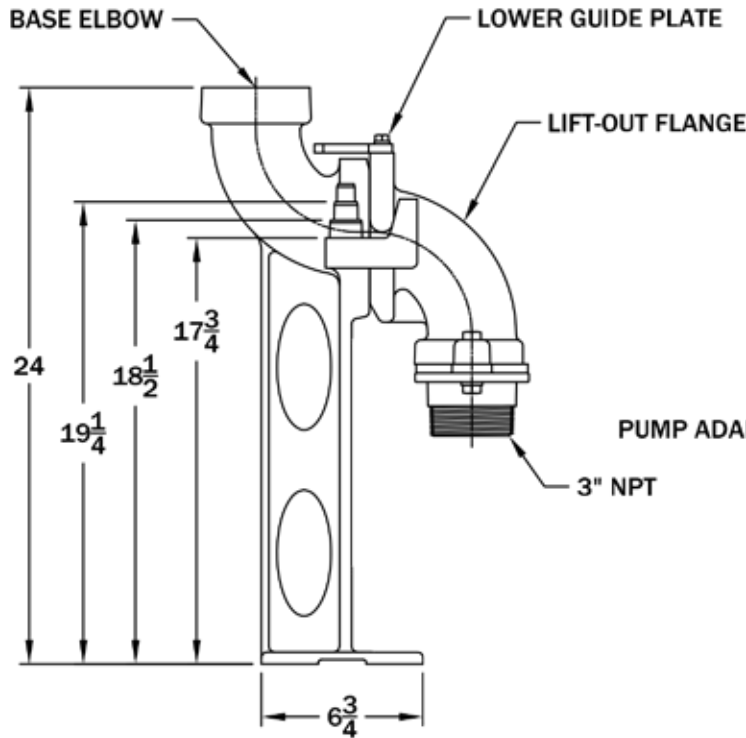
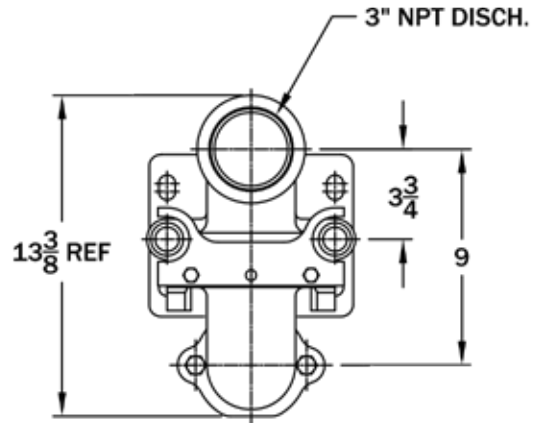
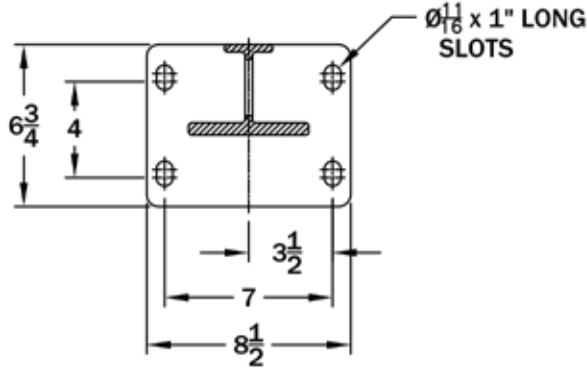
MATERIALS OF CONSTRUCTION:

- BASE ELBOW: 316 SST
- LIFT-OUT FLANGE: 316 SST
- PUMP ADAPTER : 304 SST
- LOWER GUIDE BRACKET: 316 SST
- ALL FASTENERS ARE 304 SERIES SST
- USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "
- SPHERICAL SOLIDS SIZE: 3" Diameter.
- MAXIMUM WEIGHT ALLOWANCE: 400lbs

BERS-0300V-SST

PAGE
1

MOUNTING DIMENSIONS



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005	D. MIDDLETON	11/15/15
E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = ±1/64		
B	ANGLES		
A	X° = ±1/2°		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	3" LIFT OUT DIM



BERS-0320 V

(3" Vertical Pump Base Elbow
designed for 2" Pumps)



- Base Elbow Designed for 2" Vertical Discharge Pumps
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge
- BERS-0320 V = 3.00" x 2.00" Pump Adapter Flange

NOTE: ALL DIMENSIONS ARE IN INCHES.

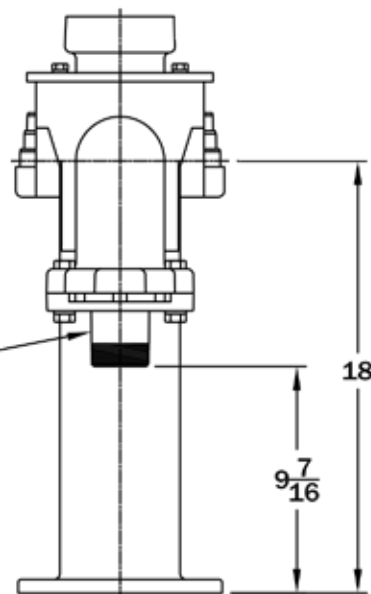
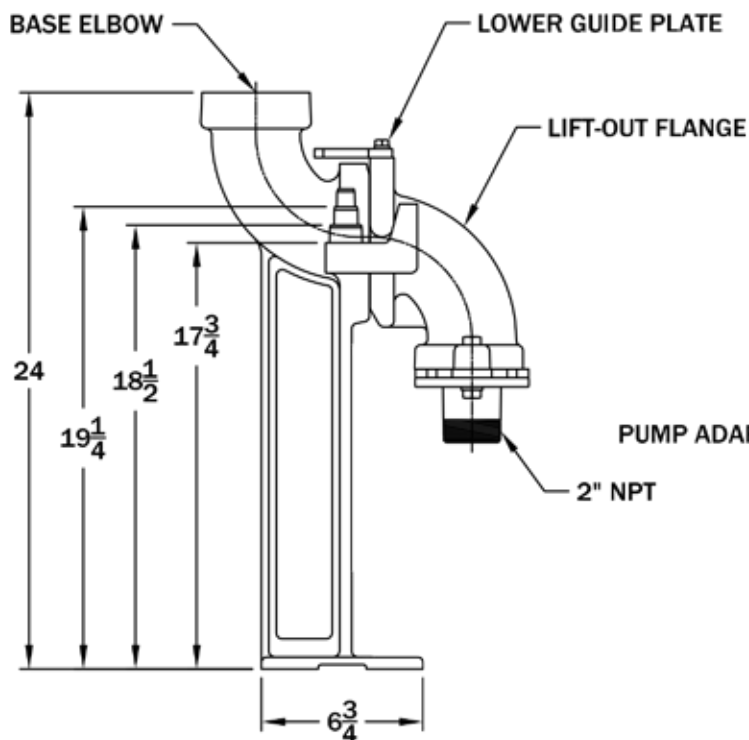
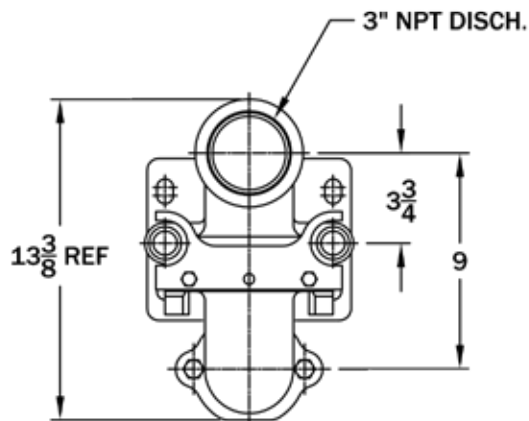
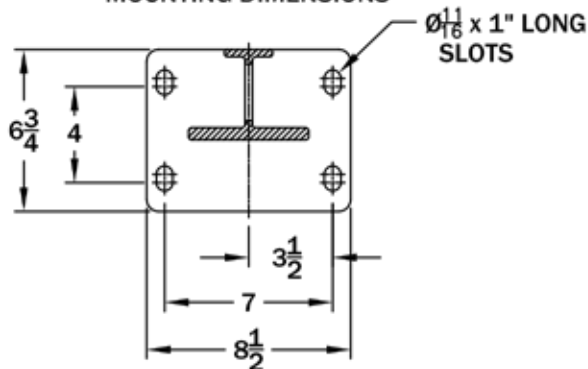
MATERIALS OF CONSTRUCTION:

- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- PUMP ADAPTER : 304 SST
- LOWER GUIDE BRACKET: 304 SST
- ALL FASTENERS ARE 304 SERIES SST
- USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "
- SPHERICAL SOLIDS SIZE: 2" Diameter.
- MAXIMUM WEIGHT ALLOWANCE: 400lbs

BERS-0320V

PAGE
1

MOUNTING DIMENSIONS



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005	D. MIDDLETON	07/15/04
E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = ±1/64		
B	ANGLES		
A	X° = ±1/2'		

**SPECIFICATION SHEET
DIMENSIONAL DATA**

SCALE:	PART NO.
1/8	3" LIFT OUT DIM



BERS-0325 H (3" Horizontal Pump Base Elbow for 2.5" Pumps)



- Base Elbows designed for 2.5" Horizontal Discharge Pumps
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge
- BERS-0325 = 3.00" x 2.50" Pull-Out Flange

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST DUCTILE IRON

LOWER GUIDE BRACKET: 304 SST

ALL FASTENERS ARE 304 SERIES SST

USEABLE GUIDE RAIL SIZES: $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ "

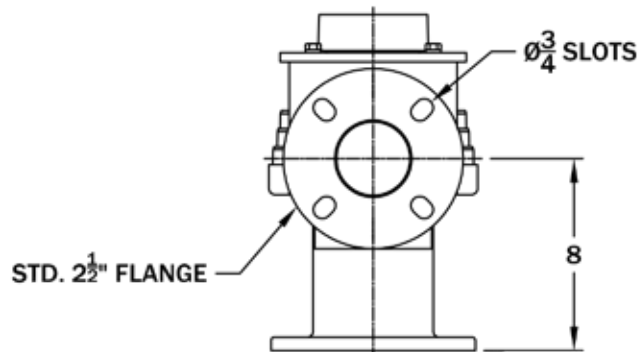
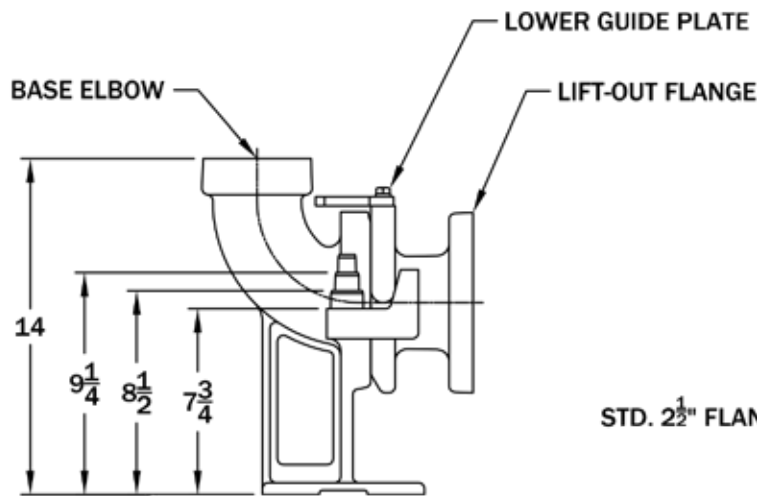
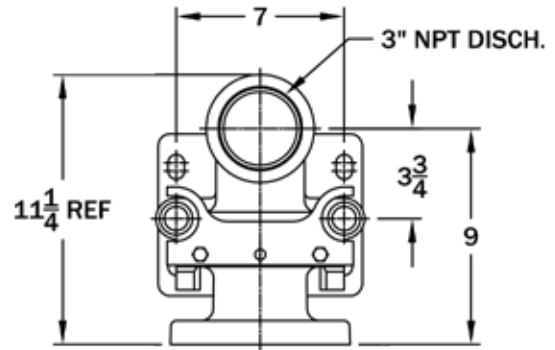
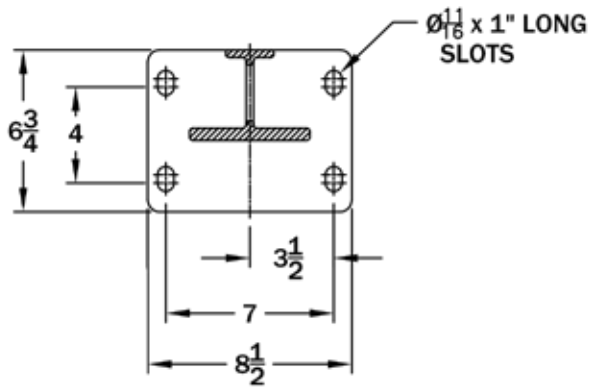
SPHERICAL SOLIDS SIZE: 3" Diameter.

MAXIMUM WEIGHT ALLOWANCE: 400lbs.

BERS-0325H

PAGE
1

MOUNTING DIMENSIONS



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ± 0.005	D. MIDDLETON	07/15/04
E	.XX = ± 0.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = $\pm 1/64$		
B	ANGLES		
A	X' = $\pm 1/2'$		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	3" LIFT OUT DIM



BERS-0325 HEX

(3.00" Explosion Proof Vertical Pump Base
Elbow for 2.5" Pumps)

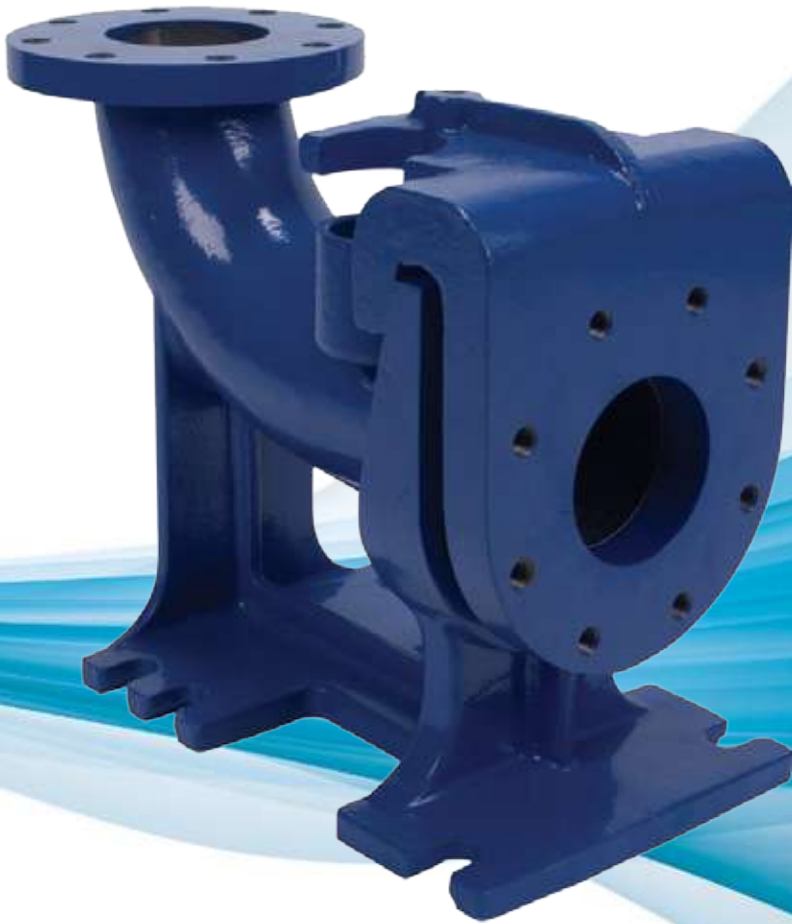


- Non-Sparking Design
- Bronze Lower Guide Rail Plate
- Base Elbow Designed for Horizontal Discharge Pumps
- Ductile Iron Construction
- Powder Coated for Corrosion Resistance
- Compact Design for Easy Installation
- Guide Rail Pins Designed to Accept 0.75", 1.00", or 1.25" Rails
- Rated for Pumps Weighing Less than 400 lbs
- 3.00" Discharge
- BERS-0325 HEX = 3.00" x 2.50" Non-Sparking Pull-Out Flange



BERS-0400

(4.00" Pump Base Elbow, Flygt Compatible)



- Base Elbow is constructed with Ductile Iron
- Flygt Compatible
- Powder coated for corrosion resistance
- Guide rail pins designed to accept 1.50" or 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 4.00" flanged discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST DUCTILE IRON

W/SST SEALING RING

LOWER GUIDE BRACKET: CAST DUCTILE IRON

ALL FASTENERS ARE 304 SERIES SST

USEABLE GUIDE RAIL SIZES: 1½" & 2"

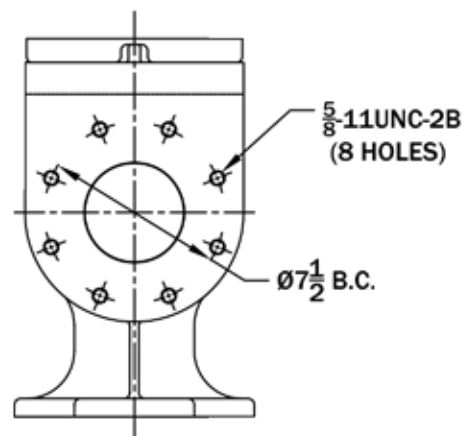
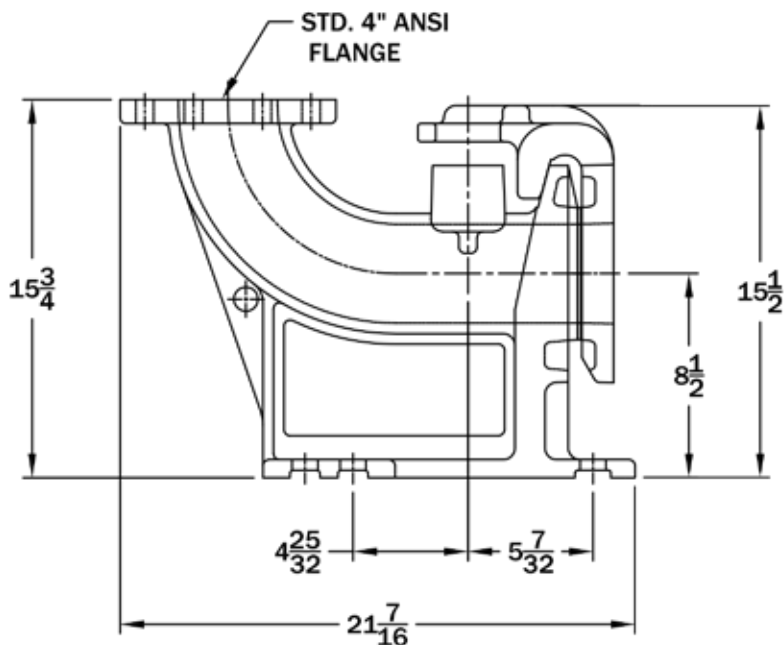
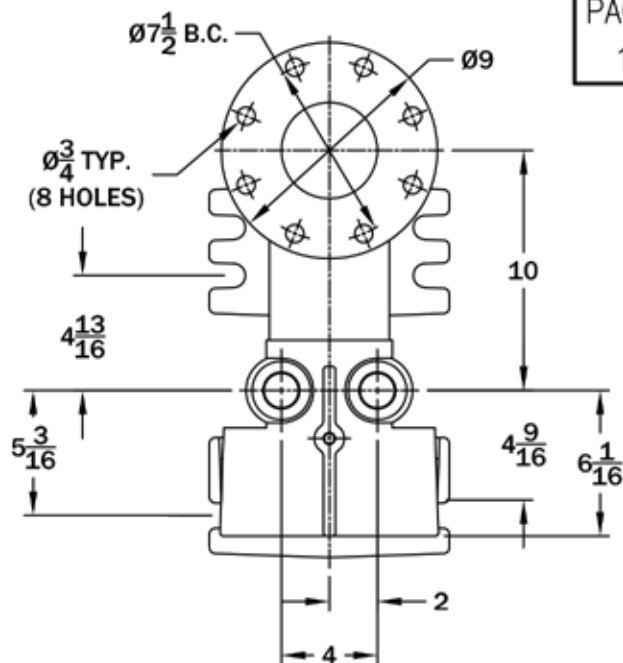
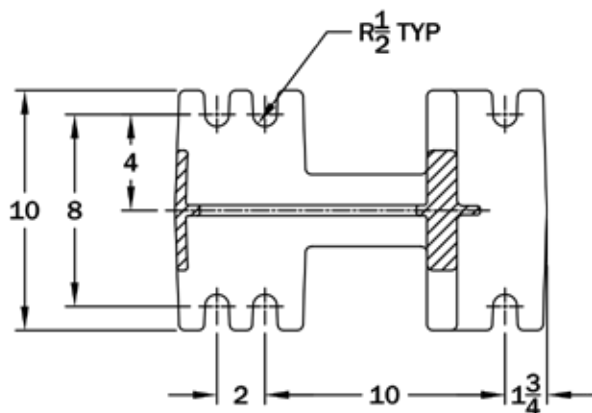
SPHERICAL SOLIDS SIZE: 4" Diameter.

MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

BERS-0400

PAGE
1

MOUNTING DIMENSIONS



ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



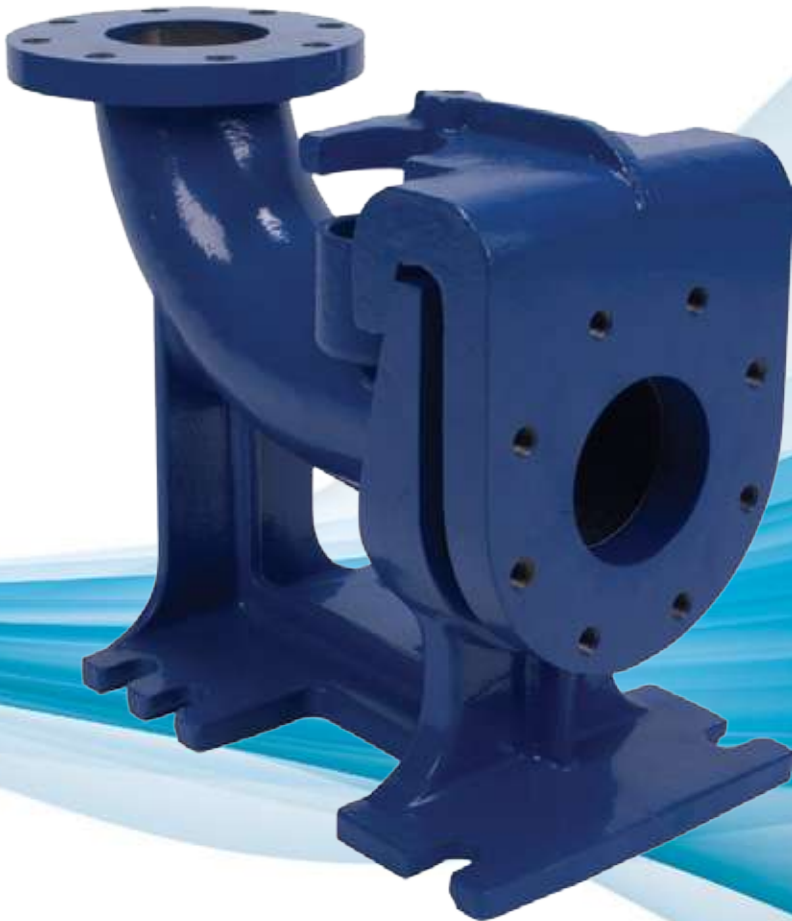
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D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES		
	X° = ±1/2°		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	4" LIFT OUT DIM



BERS-0400 HEX

(4.00" Explosion Proof Pump Base Elbow,
Flygt Compatible)



- Non-Sparking Design
- Base Elbow is constructed of Ductile Iron
- Flygt Compatible
- Powder coated for corrosion resistance
- Guide rail pins designed to accept 1.50" or 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 4.00" flanged discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

BASE ELBOW: CAST DUCTILE IRON

LIFT-OUT FLANGE: CAST DUCTILE IRON

W/BRONZE SEALING RING

LOWER GUIDE BRACKET: BRONZE

ALL FASTENERS ARE 304 SERIES SST

USEABLE GUIDE RAIL SIZES: 1½" & 2"

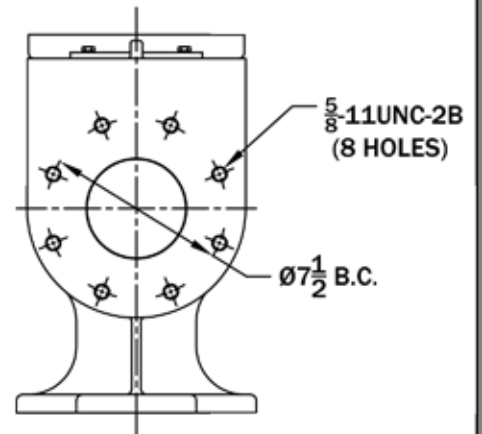
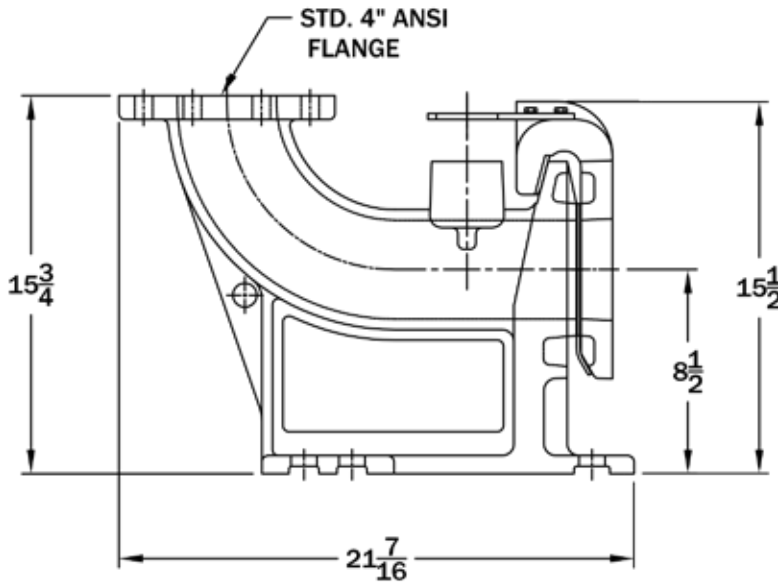
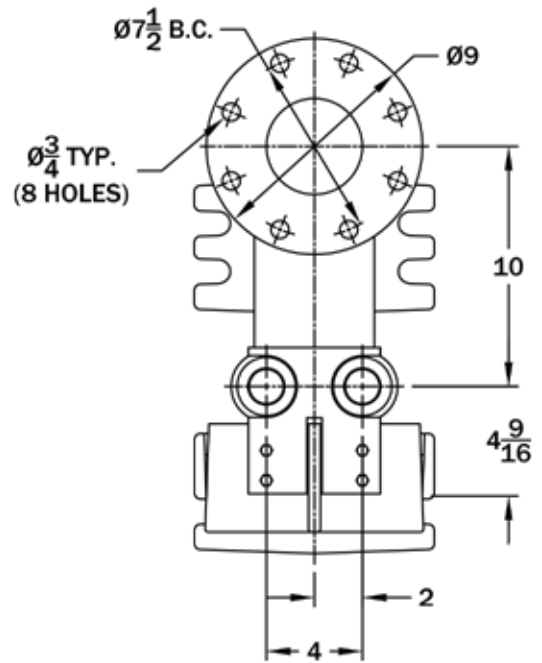
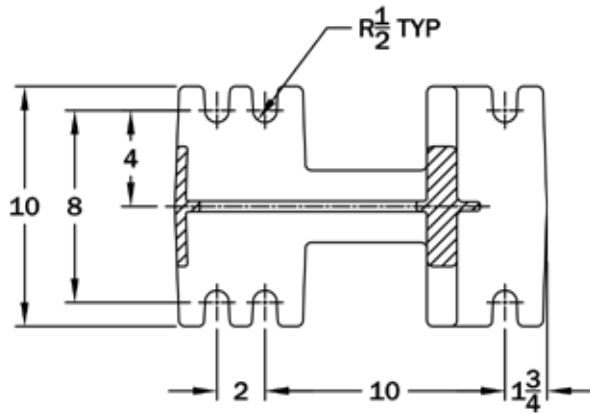
SPHERICAL SOLIDS SIZE: 4" Diameter.

MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

BERS-0400HEX

PAGE
1

MOUNTING DIMENSIONS



ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



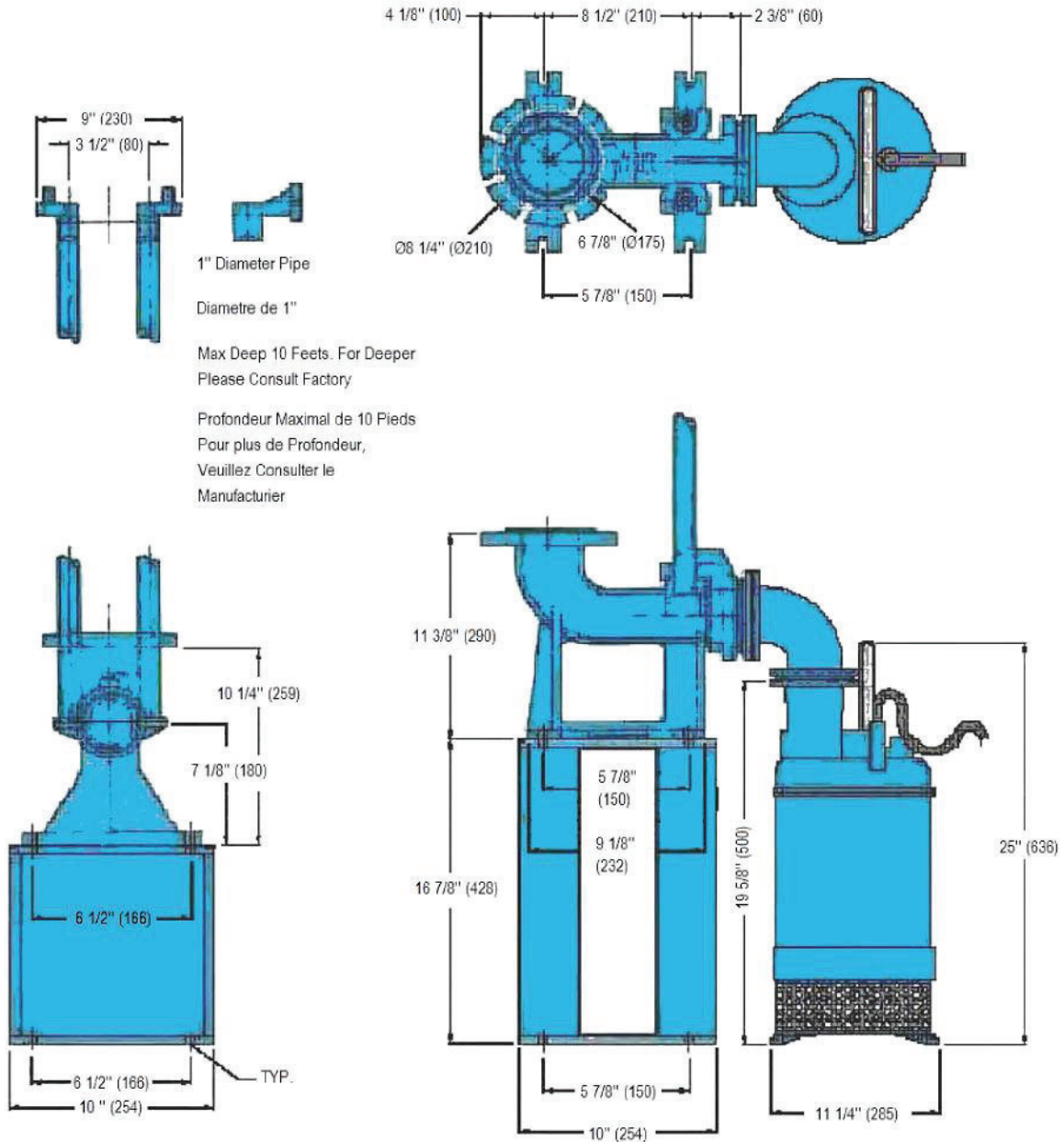
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DIMENSIONAL DATA**

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E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X° = ±1/2°		

SCALE:	PART NO.
1/8	4" LIFT OUT DIM

● Slide Away Coupling :

Dimension may vary depending on the size of pump



- FS - 3" Model BAFFS0300
- FS - 4" Model BAFFS0400
- FS - 6" Model BAFFS0600



BERS-0400 SST

4.00" 316 Stainless Steel Horizontal Base
Elbow Rail System



- Base Elbow is constructed with 316 Stainless Steel
- Flygt Compatible
- Guide rail pins designed to accept 1.50" or 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Rated for pumps weighing less than 2,000 lbs
- 4.00" flanged discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

BASE ELBOW: 316 SST

LIFT-OUT FLANGE: 316 SST

W/SST SEALING RING

LOWER GUIDE BRACKET: 316 SST

ALL FASTENERS ARE 304 SERIES SST

USEABLE GUIDE RAIL SIZES: 1½" & 2"

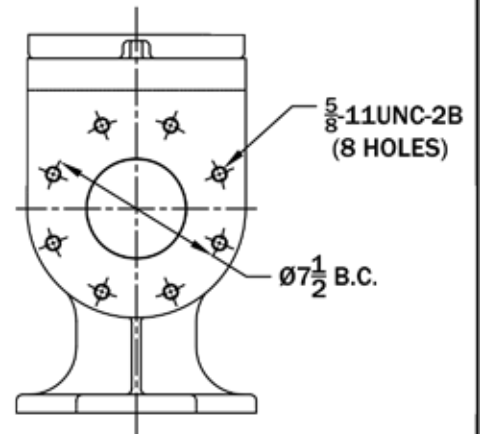
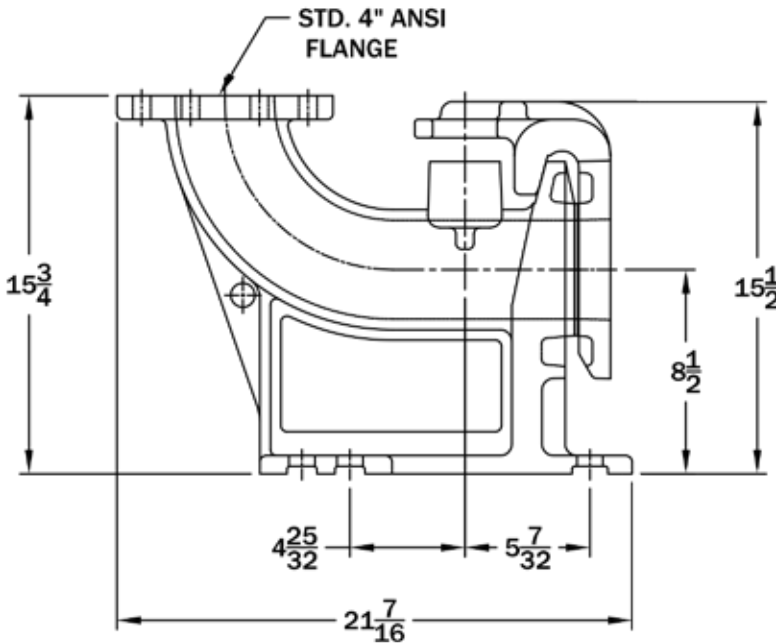
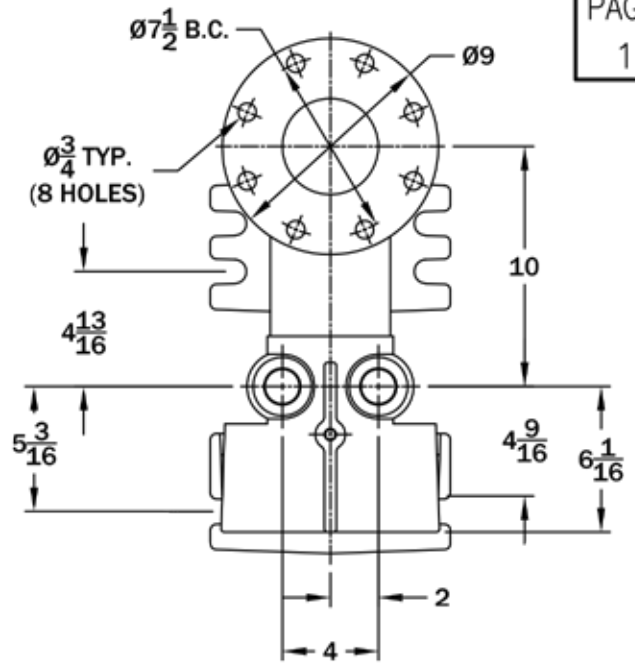
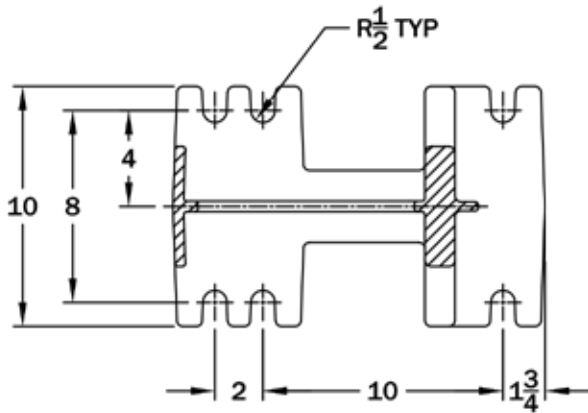
SPHERICAL SOLIDS SIZE: 4" Diameter.

MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

BERS-0400-SST

PAGE
1

MOUNTING DIMENSIONS



ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



SPECIFICATION SHEET
DIMENSIONAL DATA

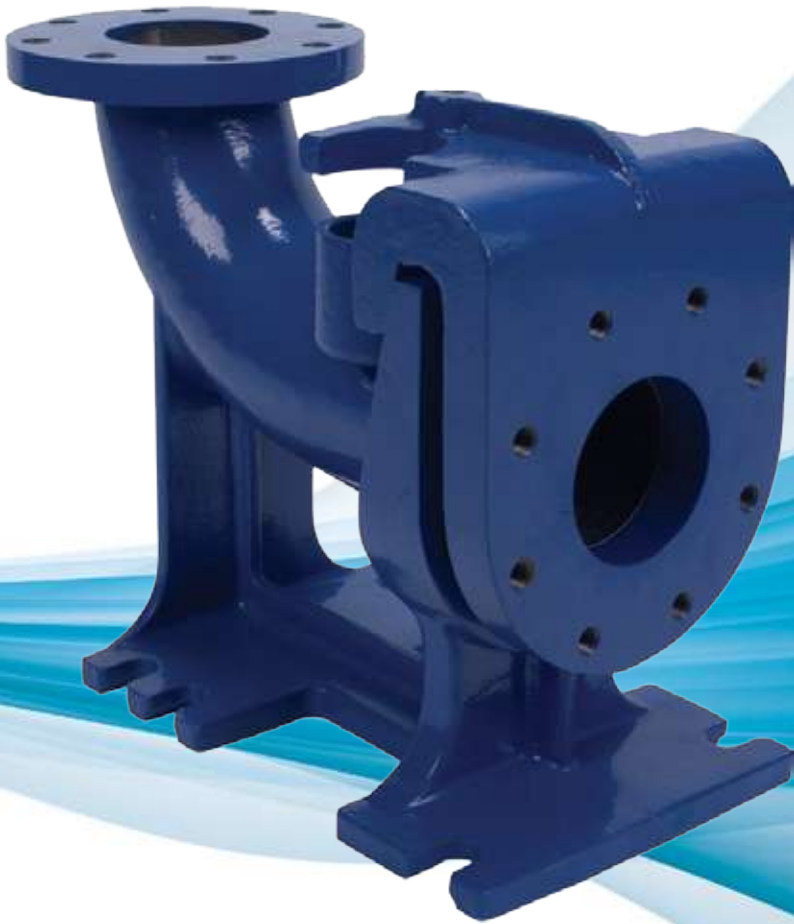
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D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X° = ±1/2°		

SCALE:	PART NO.
1/8	4" LIFT OUT DIM



BERS-0430

(4.00" Pump Base Elbow
designed for 3" Pumps)



- Ductile iron construction of Base Elbow
- Powder coated for corrosion resistance
- Guide rail pins designed to accept 1.50" or 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 4.00" flanged discharge
- BERS-0430 = 4.00" x 3.00" Pull-Out Flange

NOTE: ALL DIMENSIONS ARE IN INCHES.

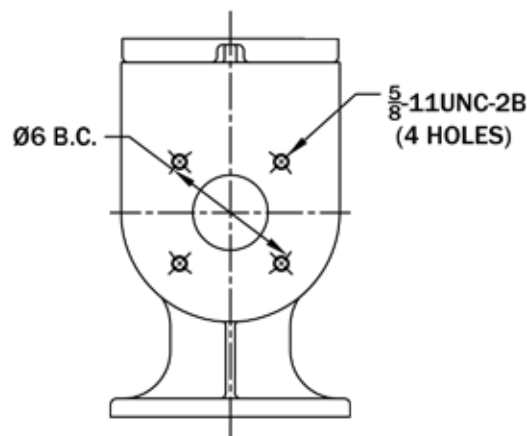
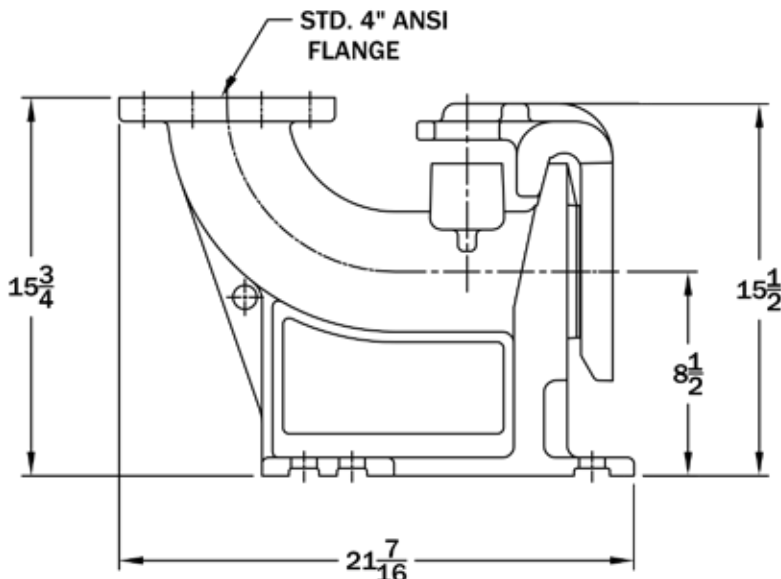
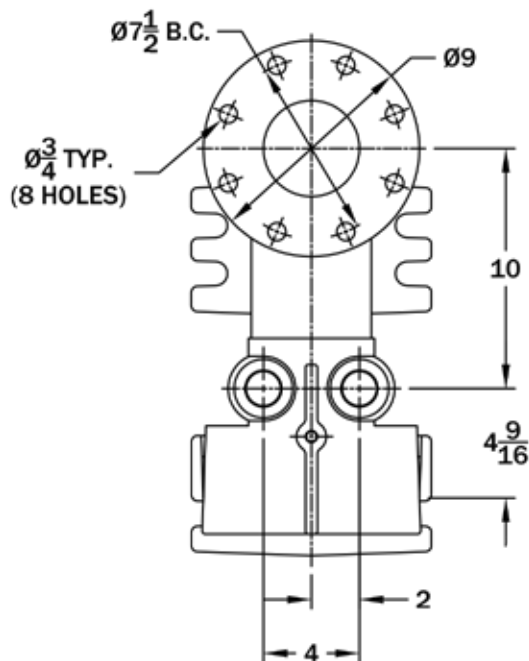
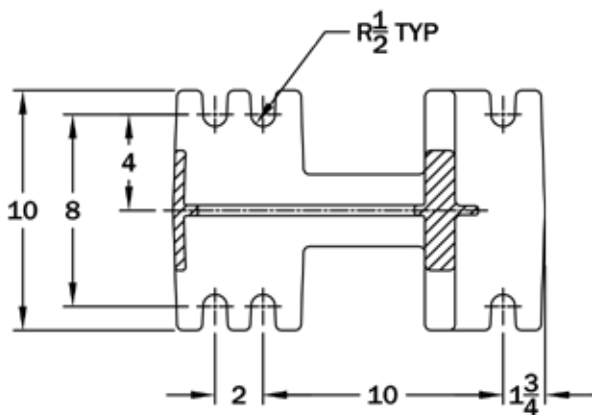
MATERIALS OF CONSTRUCTION:

- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- W/SST SEALING RING
- LOWER GUIDE BRACKET: CAST DUCTILE IRON
- ALL FASTENERS ARE 304 SERIES SST
- USEABLE GUIDE RAIL SIZES: 1½" & 2"
- SPHERICAL SOLIDS SIZE: 3" Diameter.
- MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

BERS-0430

PAGE
1

MOUNTING DIMENSIONS



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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005	D. MIDDLETON	07/15/04
E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL		
C	X/X = ±.1/64		
B	ANGLES		
A	X° = ±1/2°		

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	4" LIFT OUT DIM



BERS-0430 HEX

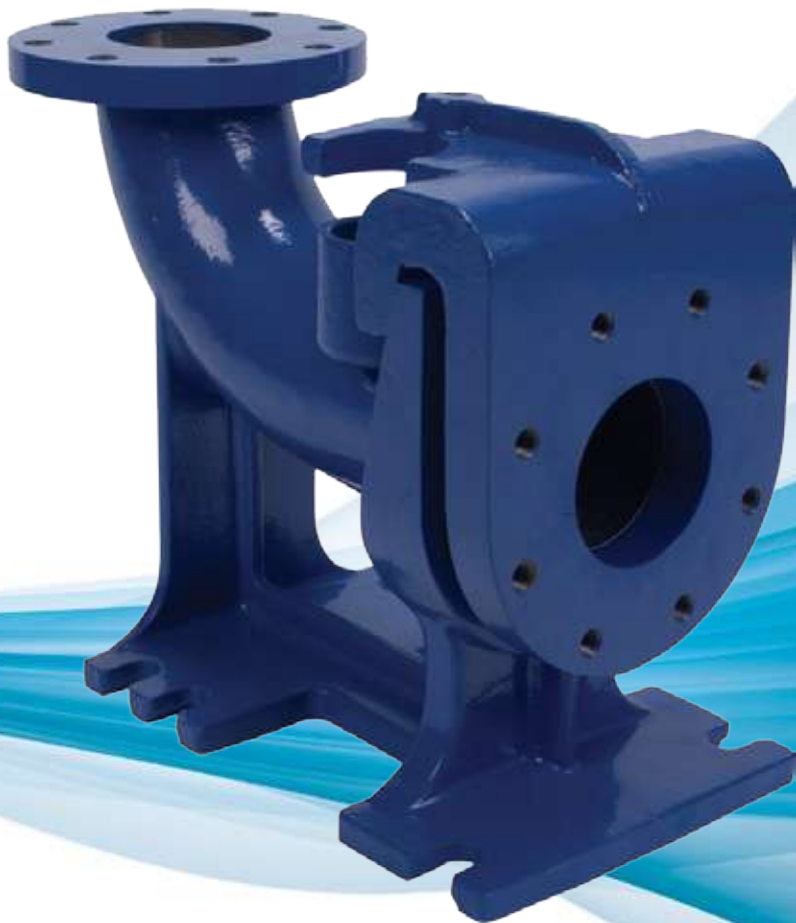
**(4.00" Explosion Proof Pump Base Elbow
Designed To Fit a 3.00") Pump**



- Non-Sparking Design
- Ductile iron construction of Base Elbow
- Powder coated for corrosion resistance
- Guide rail pins designed to accept 1.50" or 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 4.00" flanged discharge
- BERS-0430 = 4.00" x 3.00" Pull-Out Flange



BERS-0600 (6.00" Pump Base Elbow)



- Ductile iron construction
- Base Elbow is Powder coated for corrosion resistance
- Guide rail pins designed to accept 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 6.00" flanged discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.

MATERIALS OF CONSTRUCTION:

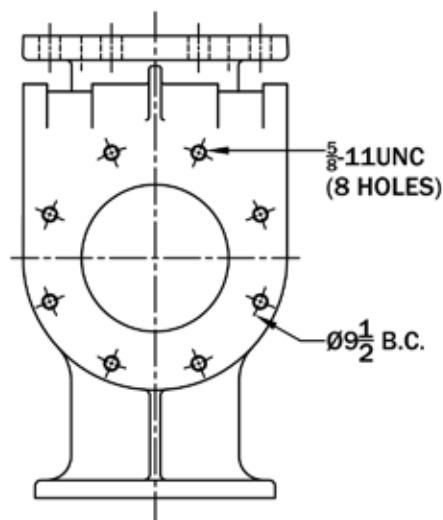
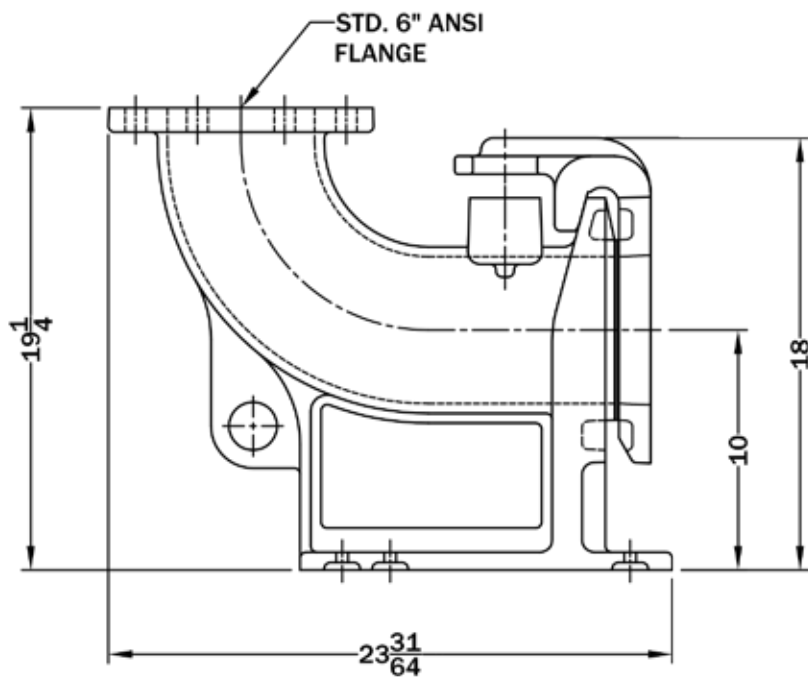
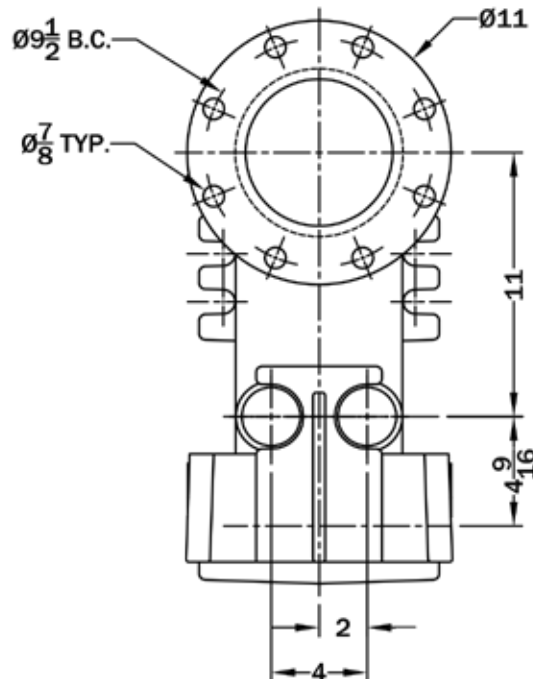
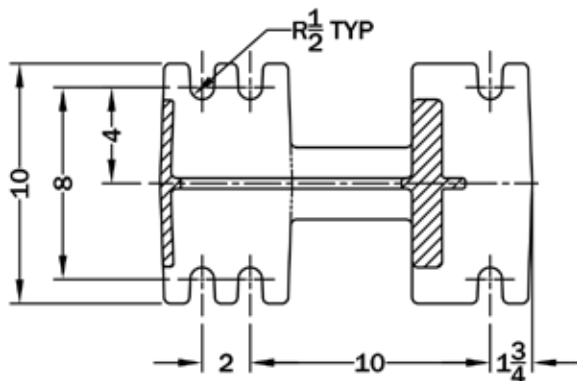
BASE ELBOW: CAST DUCTILE IRON
 LIFT-OUT FLANGE: CAST DUCTILE IRON
 W/SST SEALING RING

LOWER GUIDE BRACKET: CAST DUCTILE IRON
 ALL FASTENERS ARE 304 SERIES SST
 USEABLE GUIDE RAIL SIZES: 2"
 SPHERICAL SOLIDS SIZE: 6" Diameter.
 MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

BERS-0600

PAGE
1

MOUNTING DIMENSIONS



ALL INFORMATION CONTAINED IN THIS DRAWING IS
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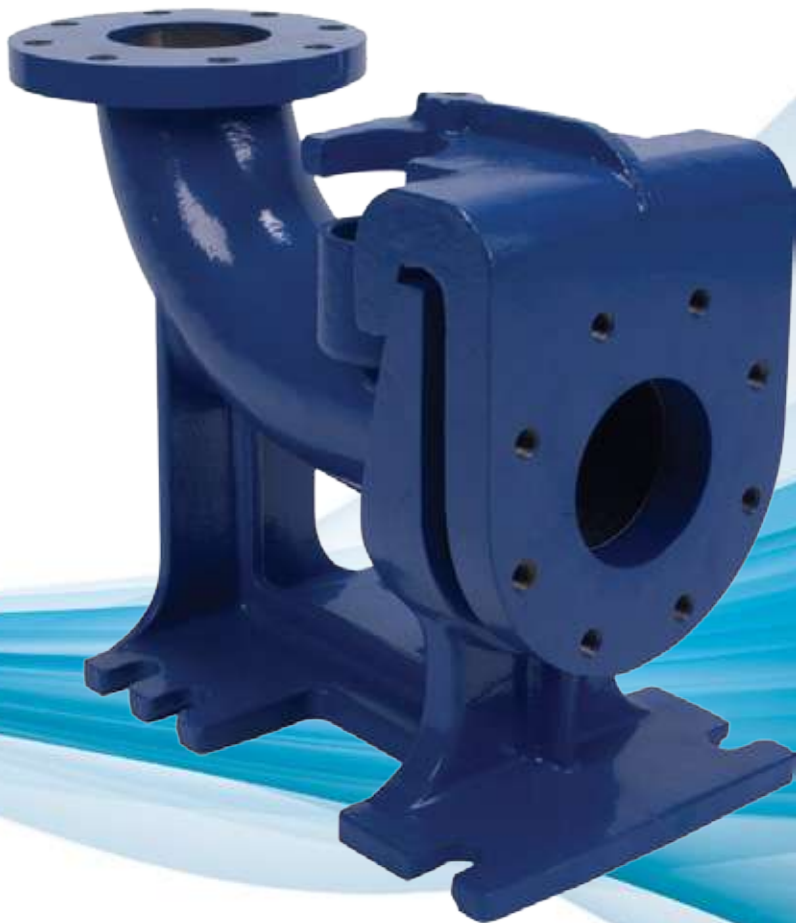
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E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL X/X = ±.1/64		
C	ANGLES X° = ±1/2°		
B			
A			

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	6" LIFT-OUT DIM.



BERS-0600 HEX

(6.00" Explosion Proof Pump Base Elbow)



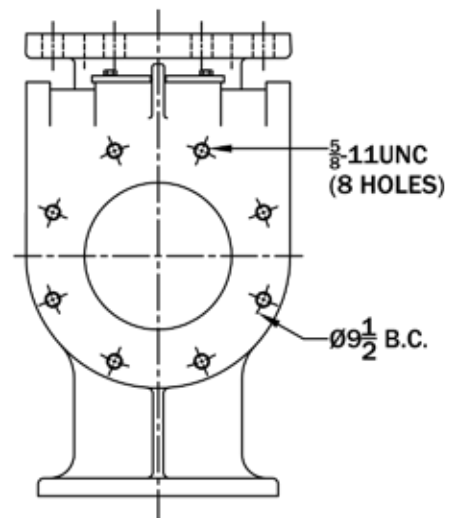
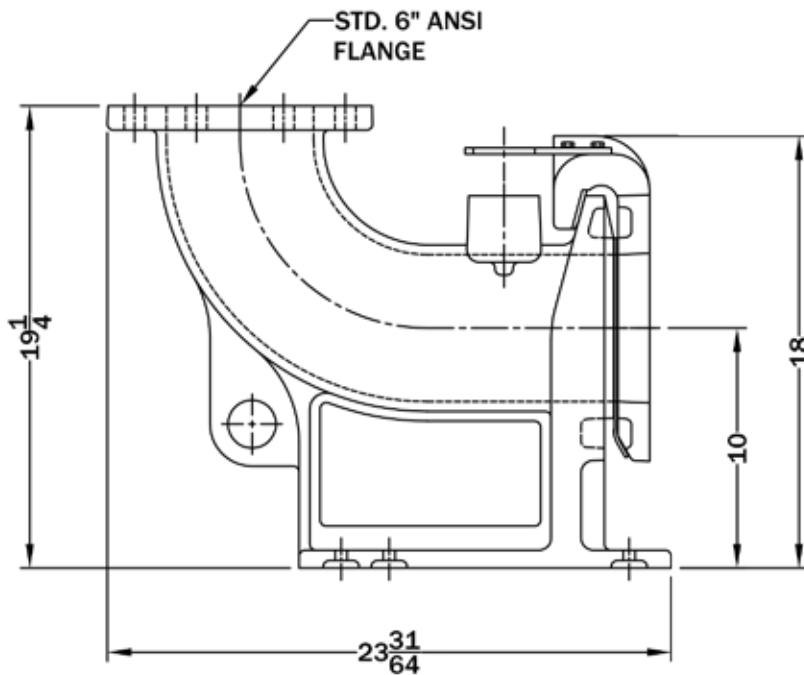
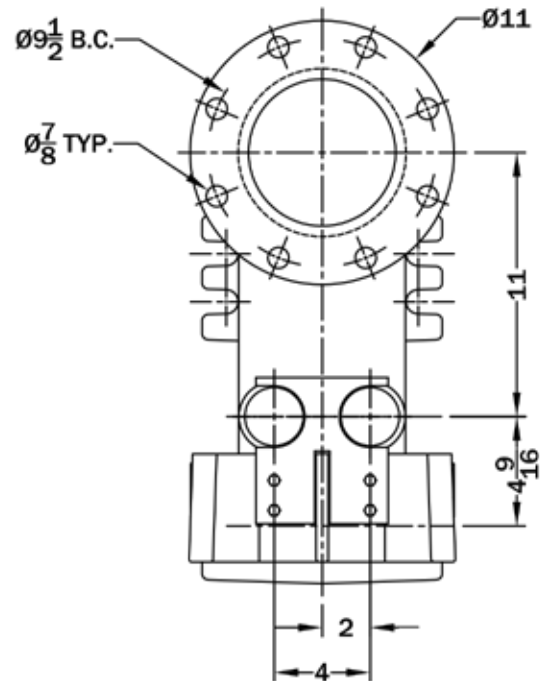
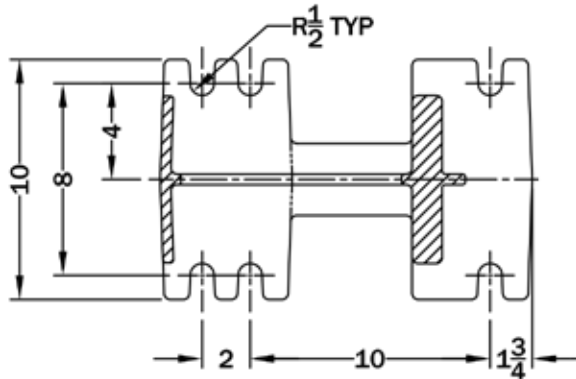
- Non-Sparking Design
- Ductile iron construction
- Base Elbow is Powder coated for corrosion resistance
- Guide rail pins designed to accept 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 6.00" flanged discharge

BERS-0600HEX

PAGE
1

NOTE: ALL DIMENSIONS ARE IN INCHES.
 MATERIALS OF CONSTRUCTION:
 BASE ELBOW: CAST DUCTILE IRON
 LIFT-OUT FLANGE: CAST DUCTILE IRON
 W/BRONZE SEALING RING
 LOWER GUIDE BRACKET: BRONZE
 ALL FASTENERS ARE 304 SERIES SST
 USEABLE GUIDE RAIL SIZES: 2"
 SPHERICAL SOLIDS SIZE: 6" Diameter.
 MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

MOUNTING DIMENSIONS



ALL INFORMATION CONTAINED IN THIS DRAWING IS
 CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



SPECIFICATION SHEET DIMENSIONAL DATA

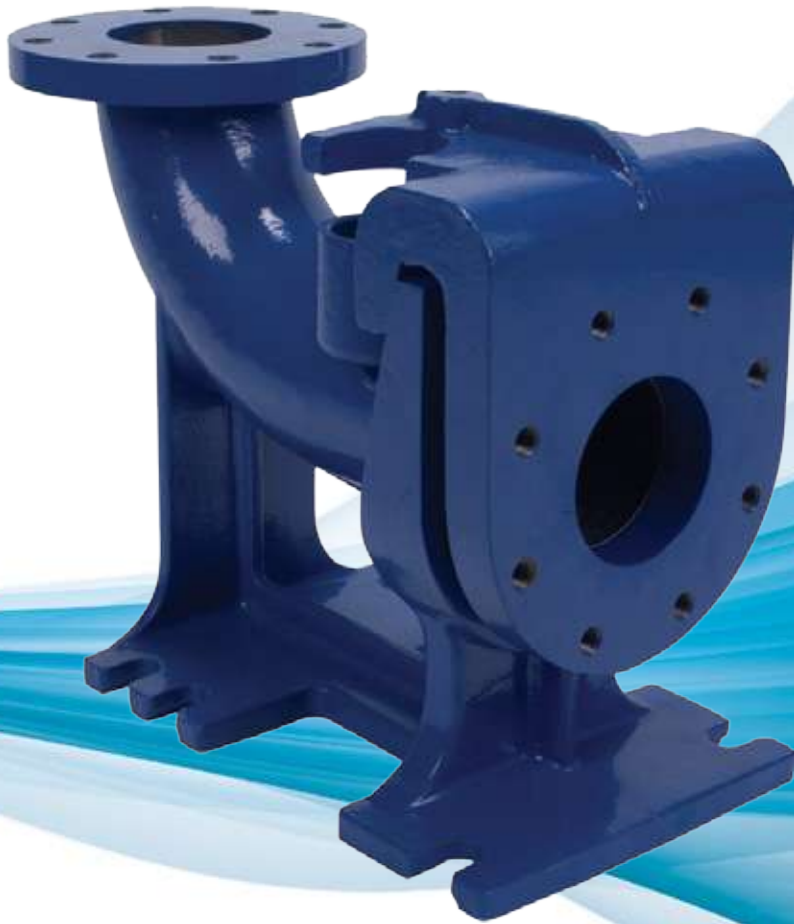
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D	.XX = ±.010		
C	FRACTIONAL		
B	X/X = ±.1/64		
A	ANGLES		
	X' = ±1/2'		

SCALE:	PART NO.
1/8	6" LIFT-OUT DIM.



BERS-0640

(6.00" Pump Base Elbow for 4.00" Pumps)



- Ductile iron construction
- Base Elbow is Powder coated for corrosion resistance
- Guide rail pins designed to accept 2.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Heavy duty rubber gasket available (alternate seal)
- Rated for pumps weighing less than 2,000 lbs
- 6.00" flanged discharge
- BERS-0640 = 6.00" X 4.00" Pull-Out Flange

NOTE: ALL DIMENSIONS ARE IN INCHES.

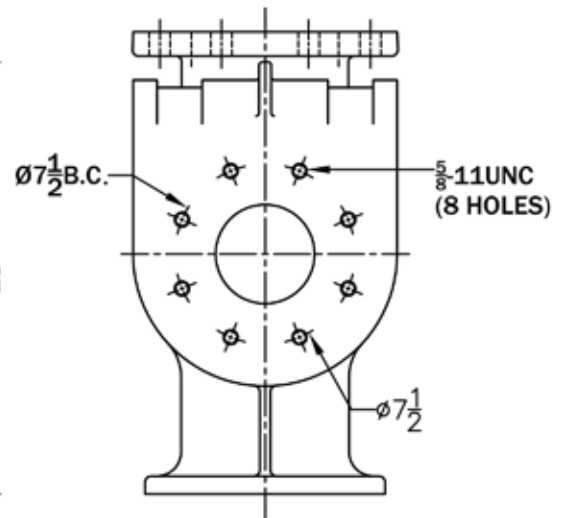
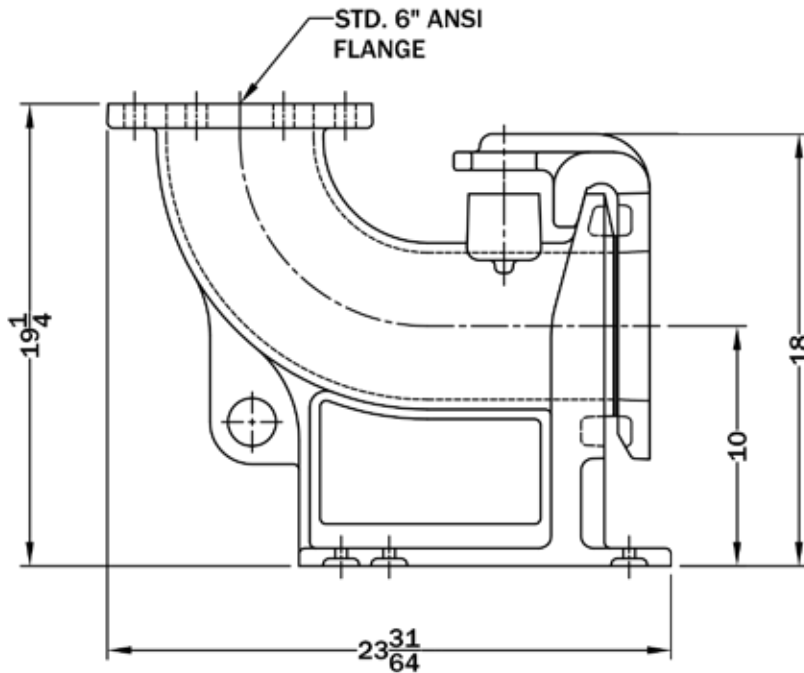
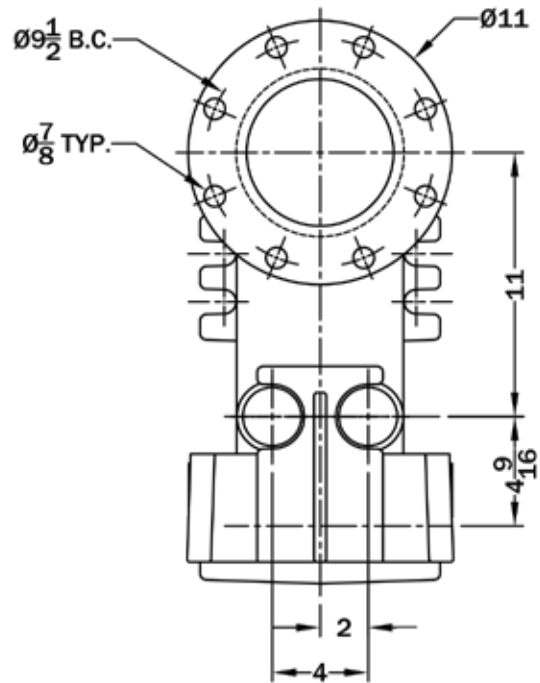
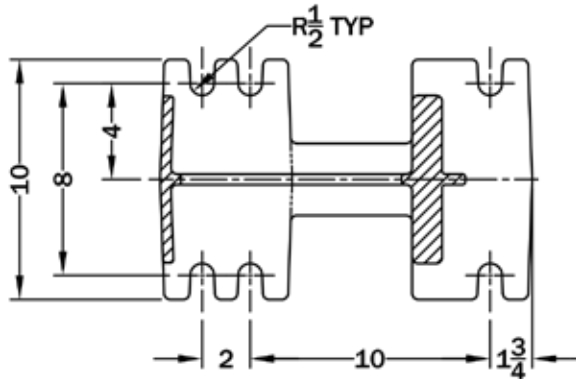
MATERIALS OF CONSTRUCTION:

- BASE ELBOW: CAST DUCTILE IRON
- LIFT-OUT FLANGE: CAST DUCTILE IRON
- W/SST SEALING RING
- LOWER GUIDE BRACKET: CAST DUCTILE IRON
- ALL FASTENERS ARE 304 SERIES SST
- USEABLE GUIDE RAIL SIZES: 2"
- SPHERICAL SOLIDS SIZE: 4" Diameter.
- MAXIMUM WEIGHT ALLOWANCE: 2000lbs.

BERS-0640

PAGE
1

MOUNTING DIMENSIONS



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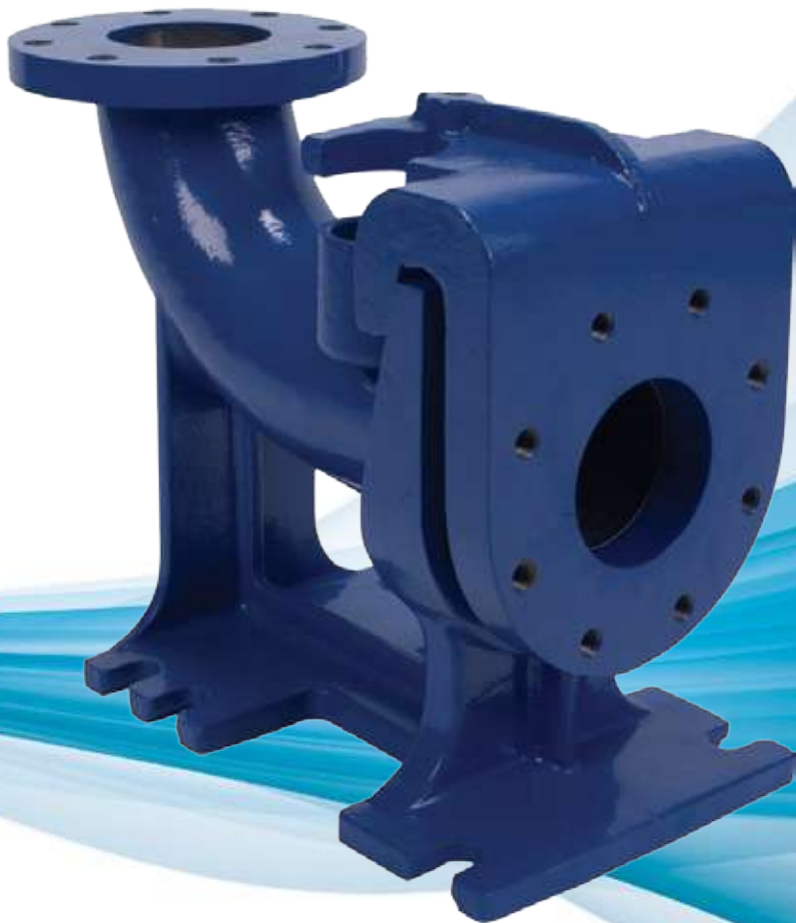
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E	.XX = ±.010	MATERIAL SPECIFICATION: AS NOTED	
D	FRACTIONAL X/X = ±.1/64		
C	ANGLES X° = ±1/2°		
B			
A			

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE:	PART NO.
1/8	6" LIFT-OUT DIM.



BERS-0800

(8.00" Pump Base Elbow)

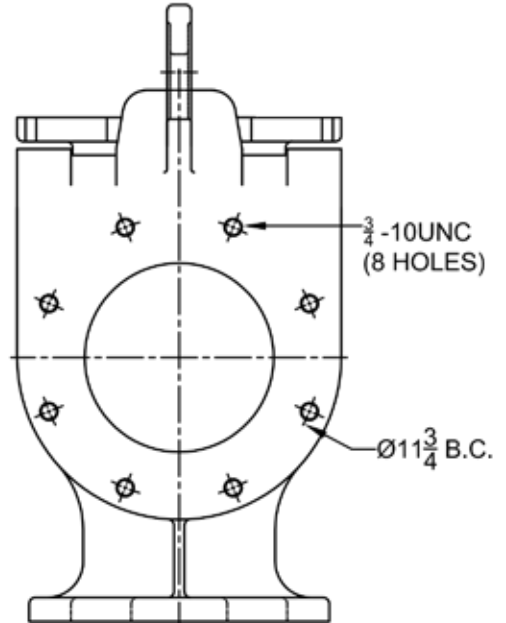
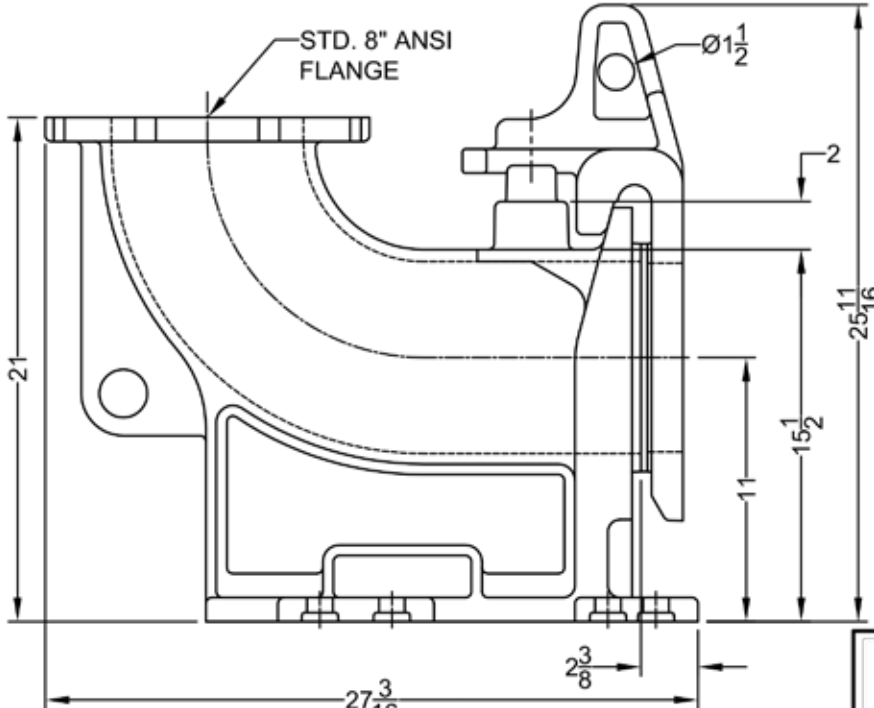
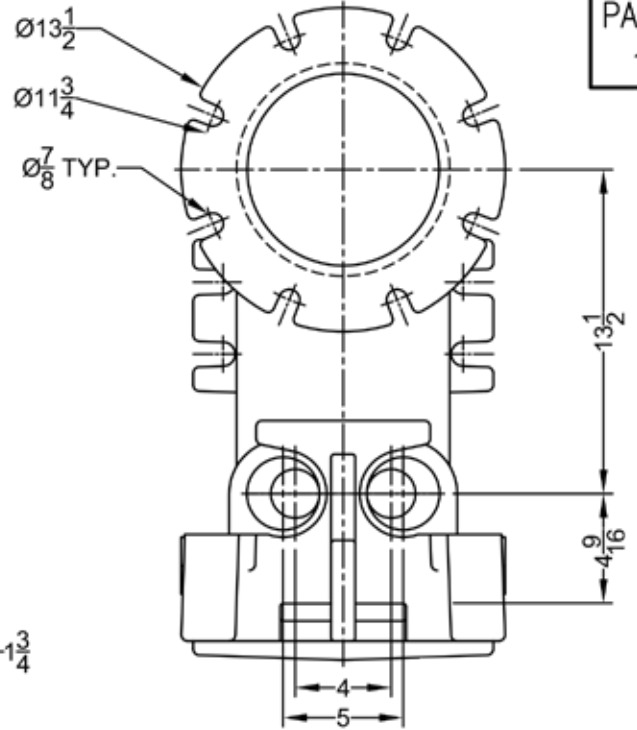
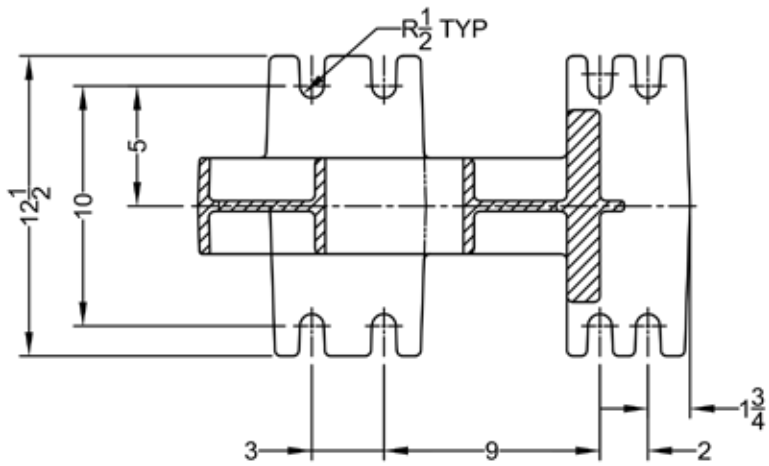


- Ductile iron construction
- Base Elbow is Powder coated for corrosion resistance
- Guide rail pins designed to accept 2.00" or 3.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Rated for pumps weighing less than 4,000 lbs
- 8.00" flanged discharge

NOTE: ALL DIMENSIONS ARE IN INCHES.
 MATERIALS OF CONSTRUCTION:
 BASE ELBOW: CAST DUCTILE IRON
 LIFT-OUT FLANGE: CAST DUCTILE IRON
 W/SST SEALING RING
 LOWER GUIDE BRACKET: CAST DUCTILE IRON
 ALL FASTENERS ARE 304 SERIES SST
 USEABLE GUIDE RAIL SIZES: 2" & 3"
 SPHERICAL SOLIDS SIZE: 7-7/8" Diameter.
 MAXIMUM WEIGHT ALLOWANCE: 4000lbs.

BERS-0800

PAGE
1



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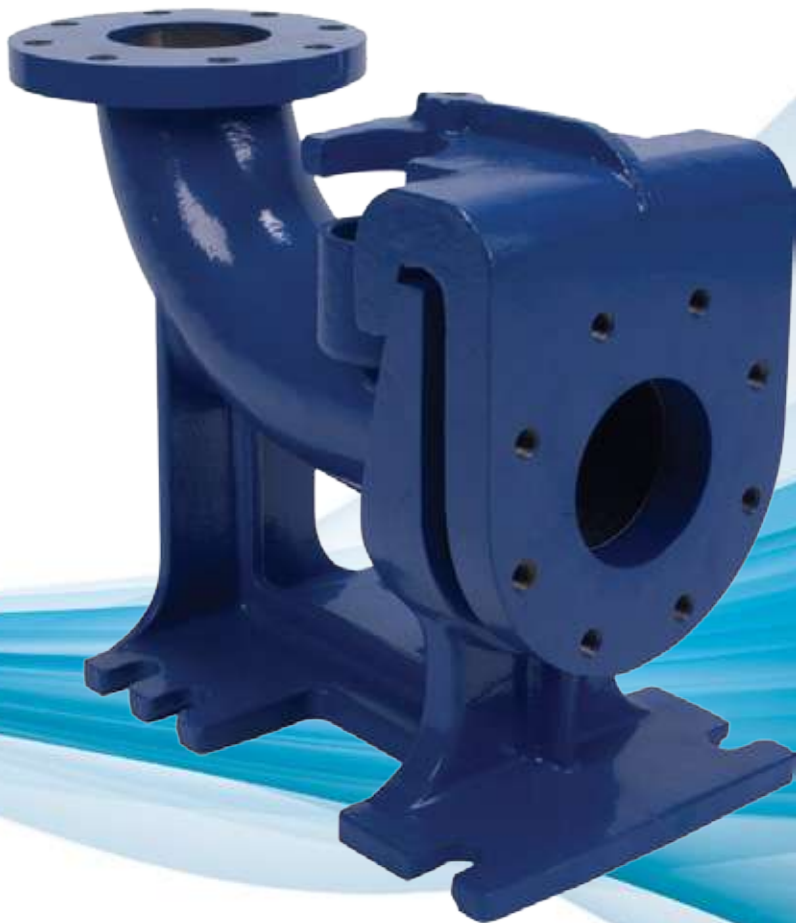
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D	FRACTIONAL X/X = ±1/64		
C	ANGLES X° = ±1/2°		
B			
A			

SPECIFICATION SHEET DIMENSIONAL DATA	
SCALE: 1/8	PART NO. 8" LIFT-OUT DIM.



BERS-0860

(8.00" Pump Base Elbow
Designed for 6.00" Pumps)

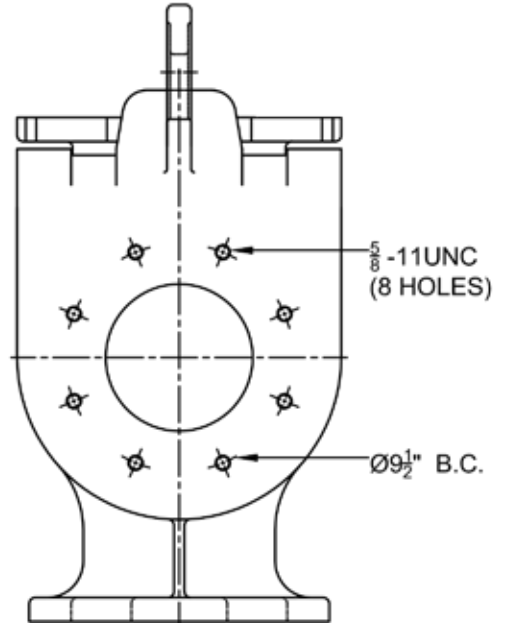
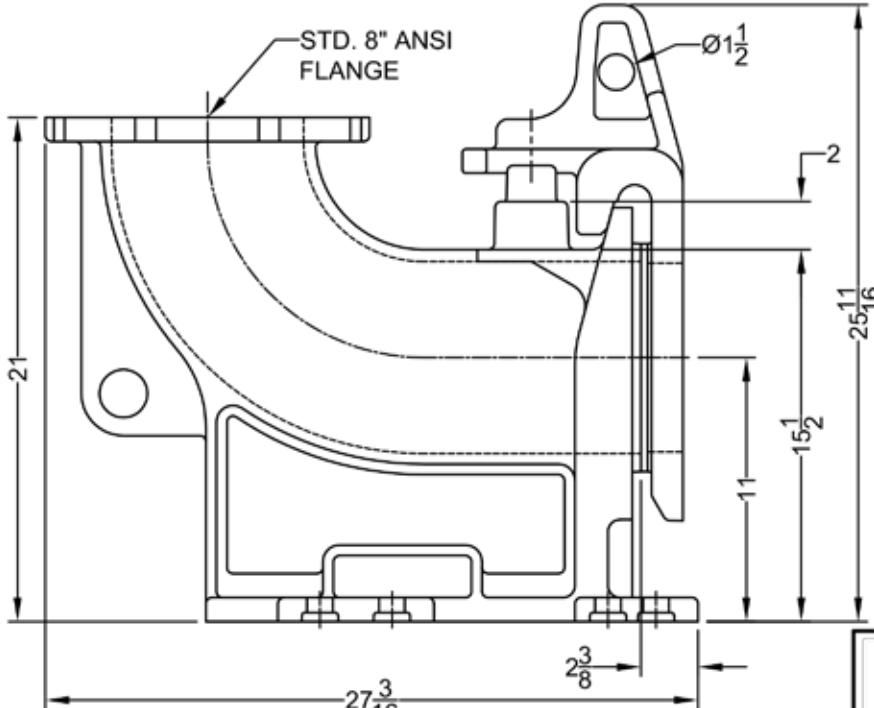
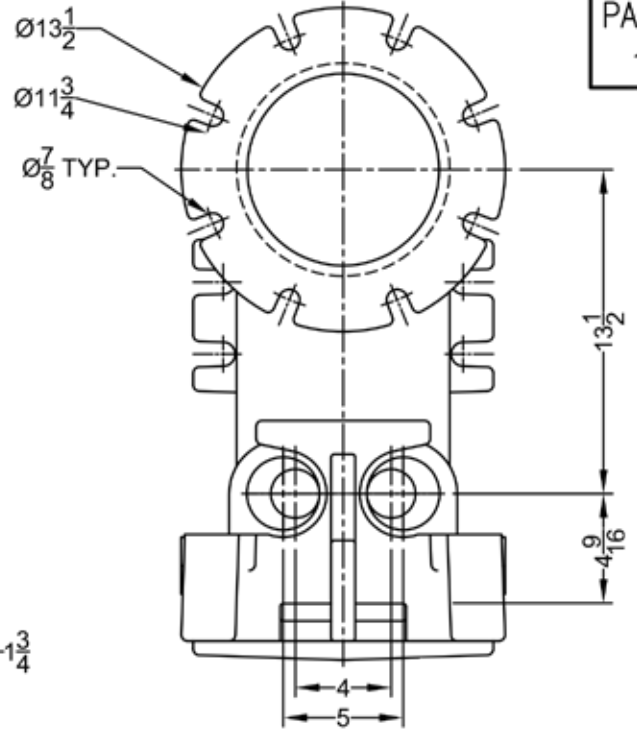
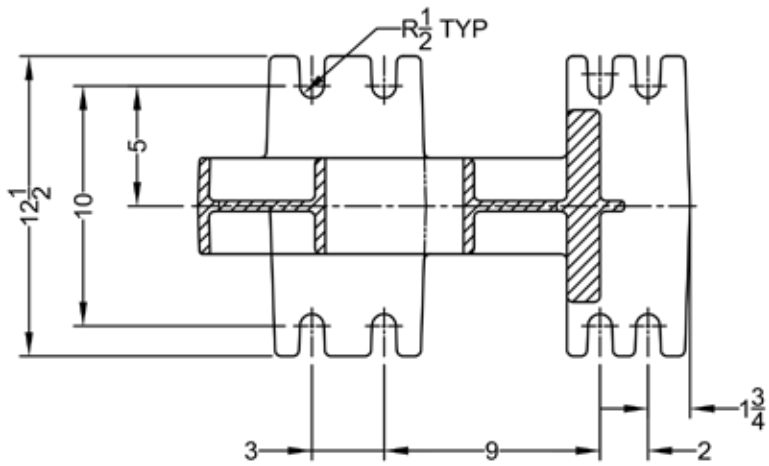


- Ductile iron construction
- Base Elbow is Powder coated for corrosion resistance
- Guide rail pins designed to accept 2.00" or 3.00" rails
- Metal-To-Metal design with stainless steel breakaway ring
- Rated for pumps weighing less than 4,000 lbs
- 8.00" flanged discharge
- BERS-0860 = 8.00" x 6.00" Pull-Out Flange

NOTE: ALL DIMENSIONS ARE IN INCHES.
 MATERIALS OF CONSTRUCTION:
 BASE ELBOW: CAST DUCTILE IRON
 LIFT-OUT FLANGE: CAST DUCTILE IRON
 W/SST SEALING RING
 LOWER GUIDE BRACKET: CAST DUCTILE IRON
 ALL FASTENERS ARE 304 SERIES SST
 USEABLE GUIDE RAIL SIZES: 2" & 3"
 SPHERICAL SOLIDS SIZE: 6-1/8" Diameter.
 MAXIMUM WEIGHT ALLOWANCE: 4000lbs.

BERS-0860

PAGE
1



ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO FLO FAB INC.



CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005	D. MIDDLETON	10/03/09
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C	ANGLES X° = ±1/2°		
B			
A			

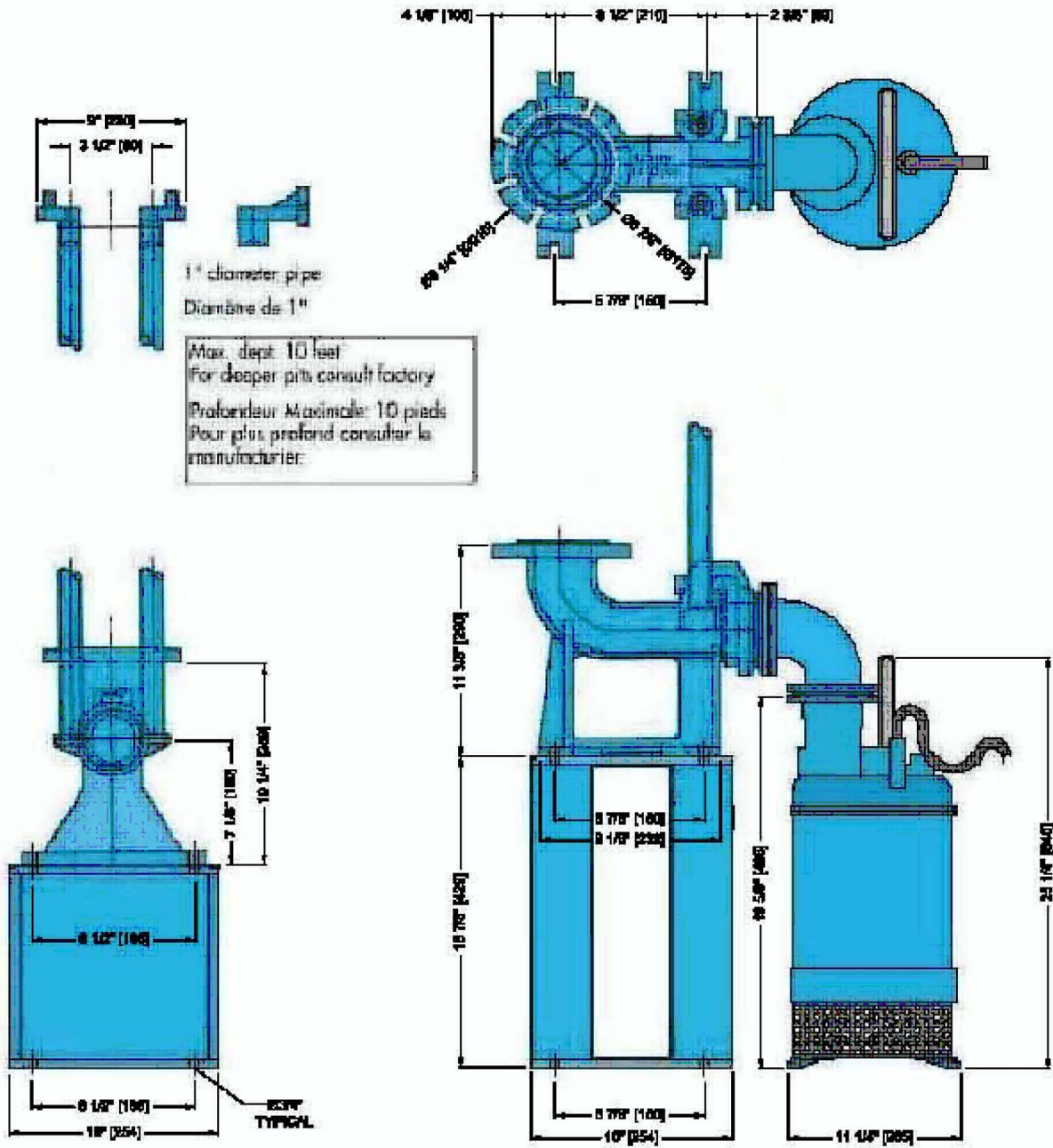
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SCALE: 1/8	PART NO. 8" LIFT-OUT DIM.

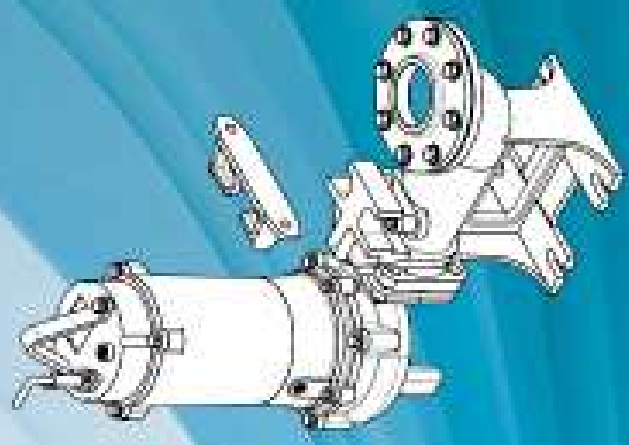
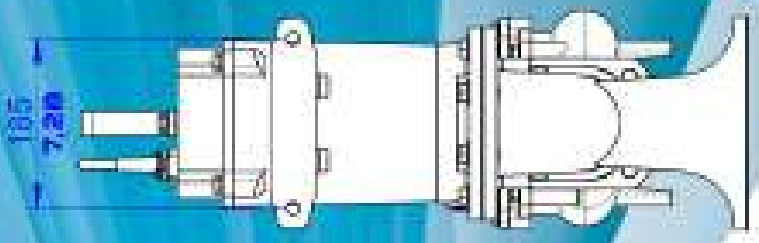
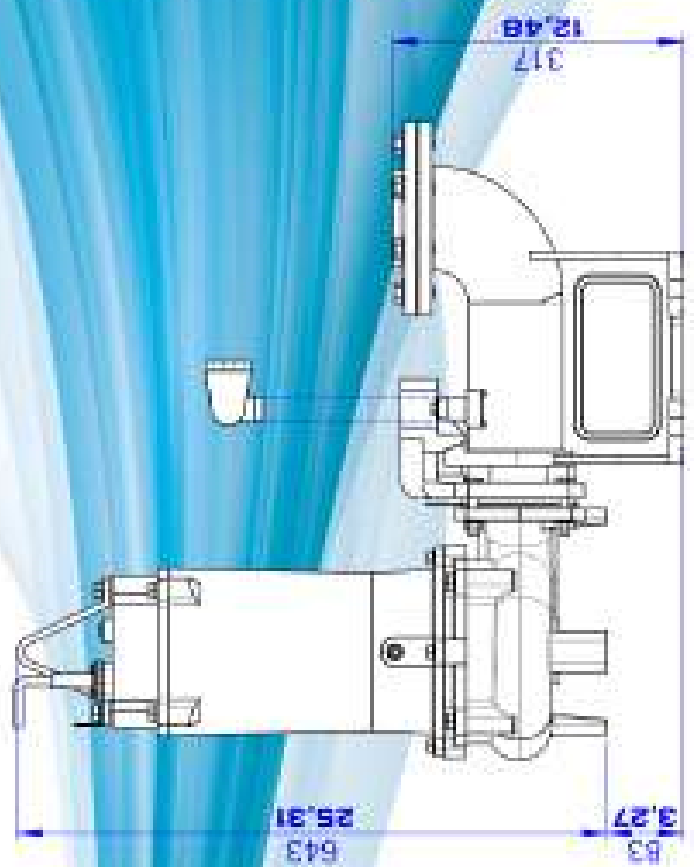
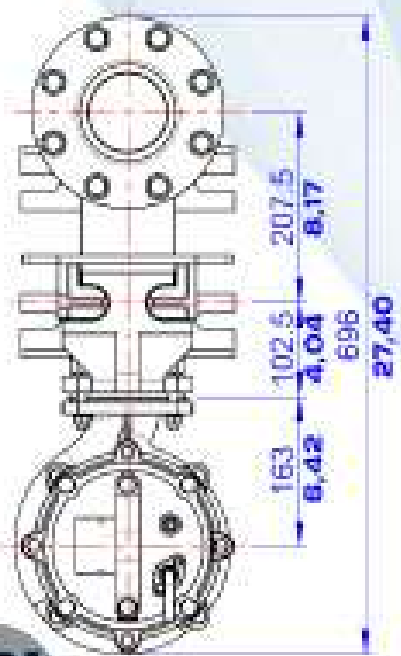


Slide Away Coupling : FS 3" & 4"

SUBMITTAL DATA SHEET
ISSUE DATE: MAY 2008
REVISION DATE: MAY 2008

- FS - 3" Model BAFFS0300
- FS - 4" Model BAFFS0400



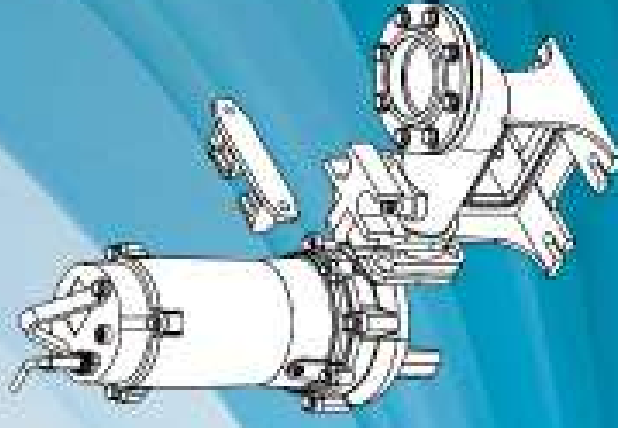
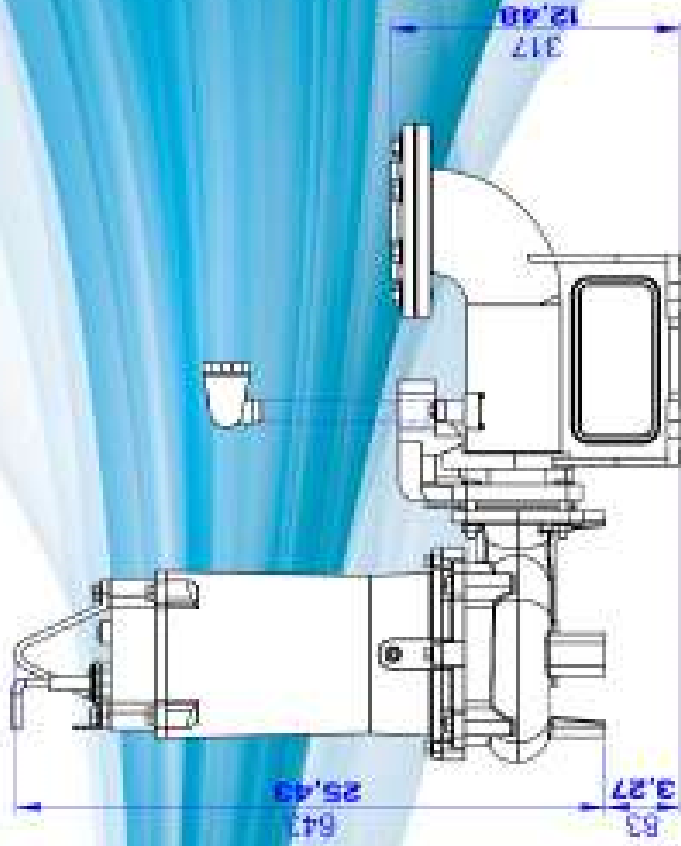
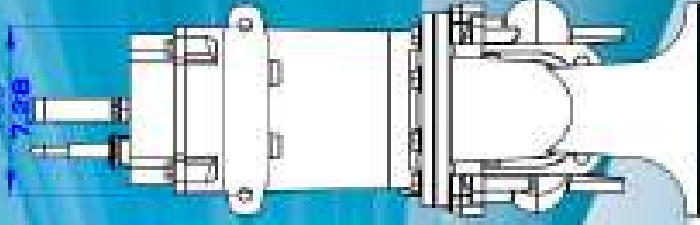
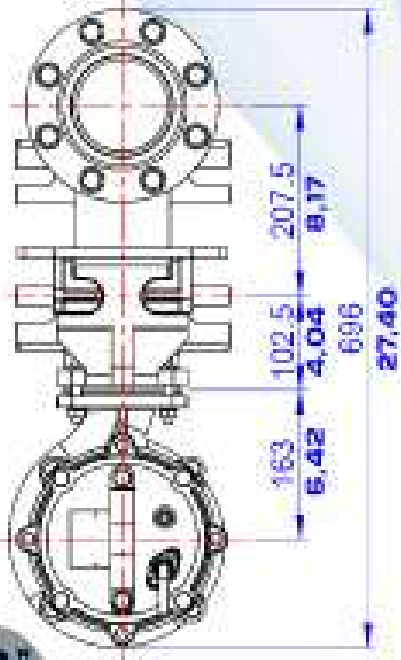


Unit:mm
Unit:in

Item	Dimensional	Model	82GRF03+02.05
Drawn	QMS	Scale	1:1
Date	2017/10/25		
Rev.	A		



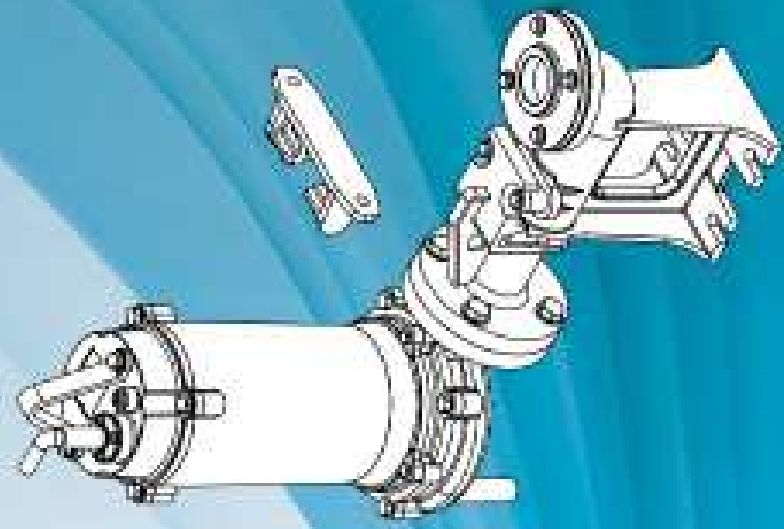
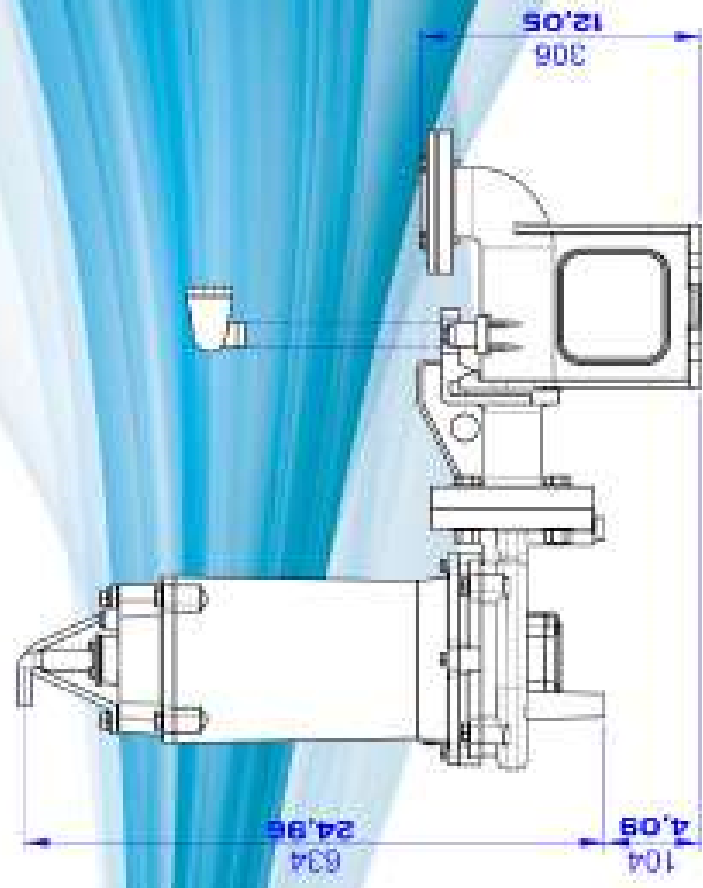
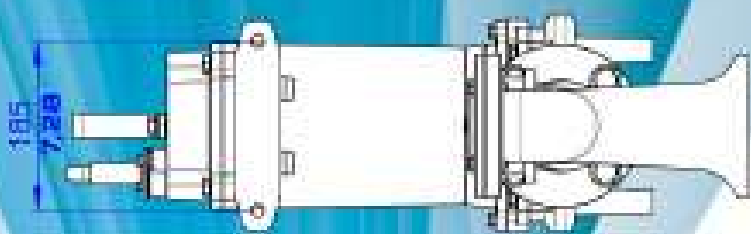
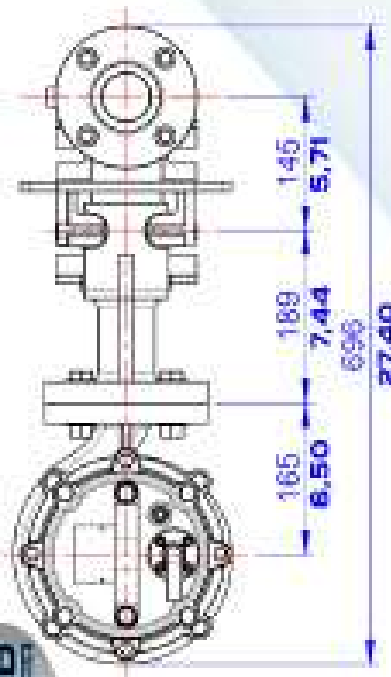
For
FBC/FBK/FKO/FBV-322/337



Unit:mm
Unit:in

Item	Dimensional	Model	82GRF04-1601
Drawn	QWS	Scale	1:3
Date	20171025		
Rev.	A		

For FBC/FBK/FK/FBV-437/455/457

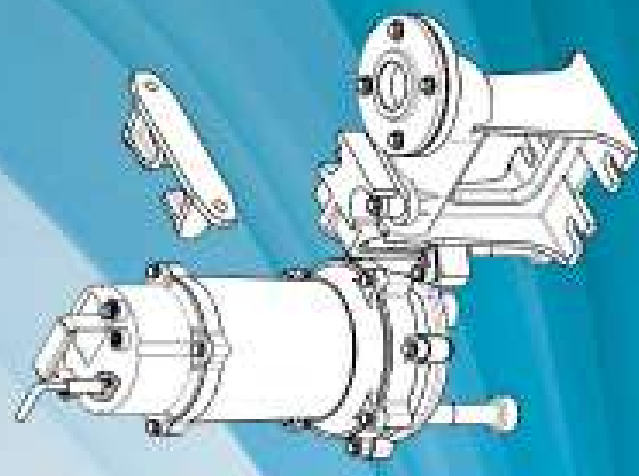
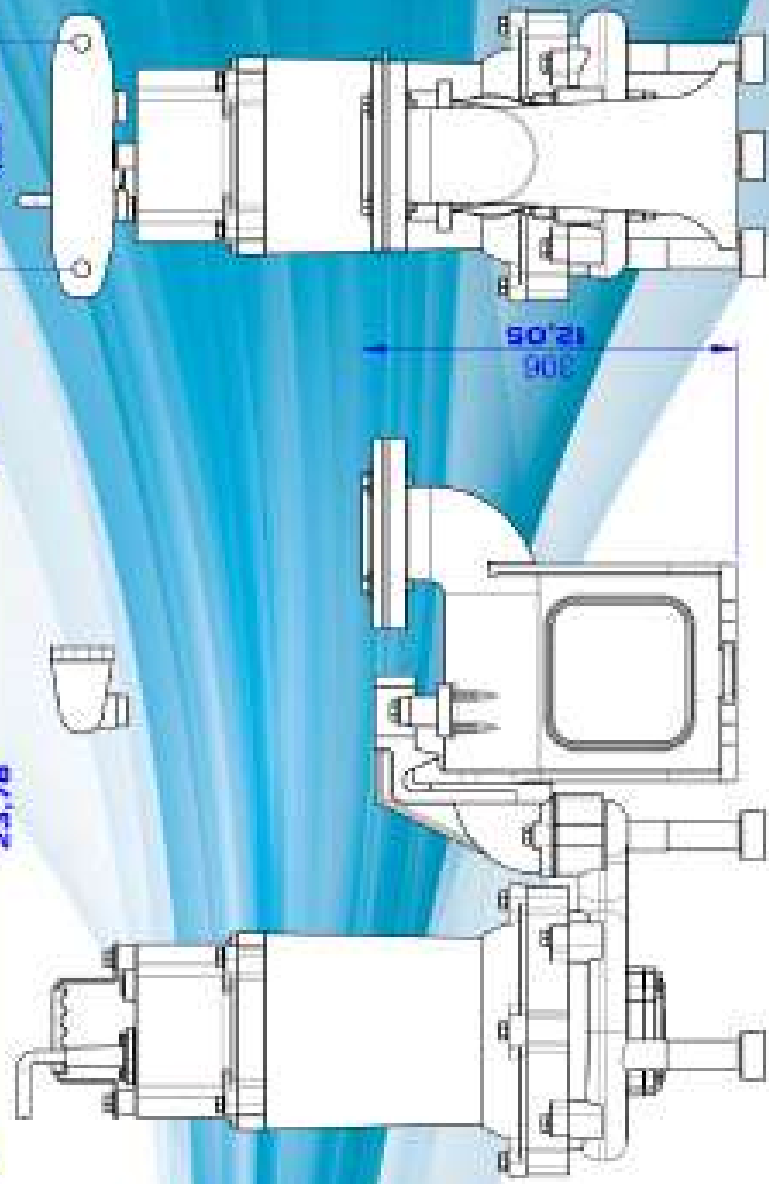
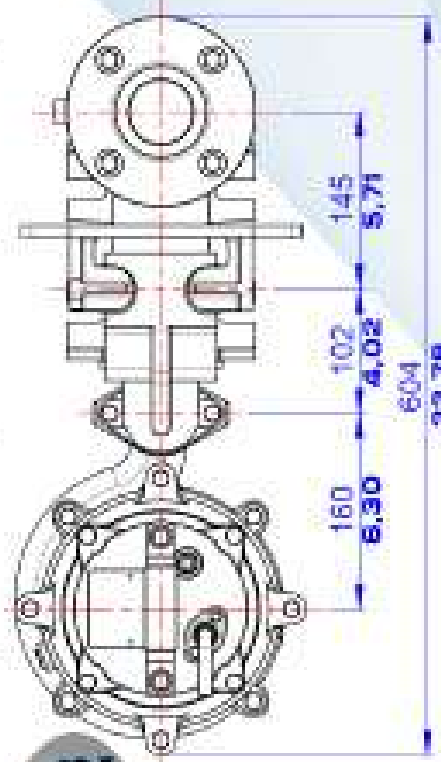


Unit:mm
Unit:in

Item	Dimensional	Model	82GRG02+02.5
Drawn	QMS	Scale	1:1
Date	2017-10-25		
Rev.	A		



For
FGC-37/55

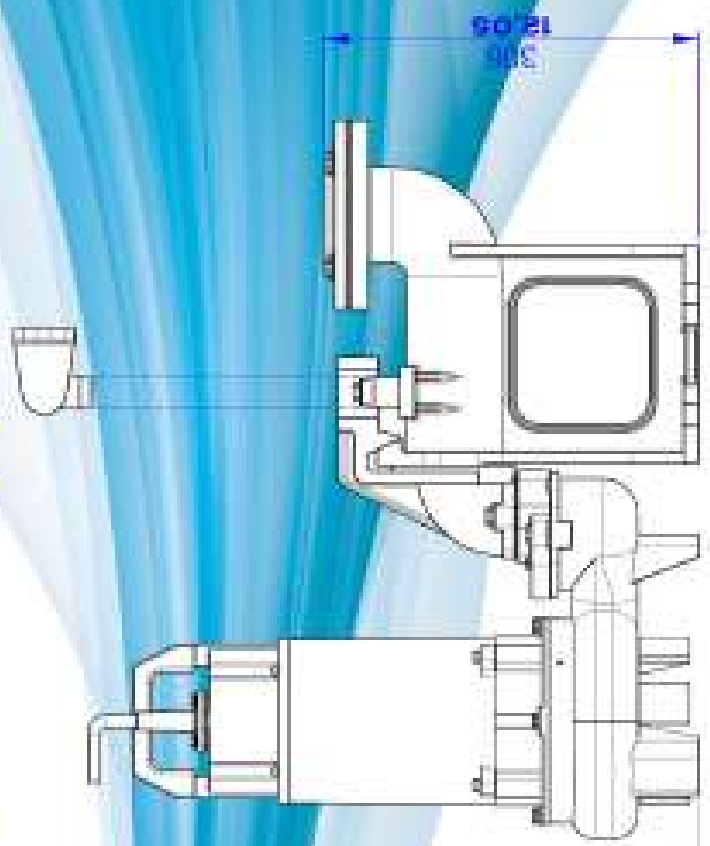
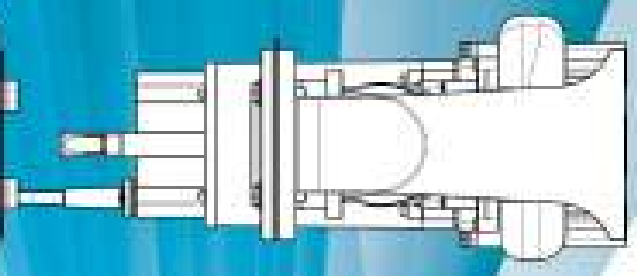
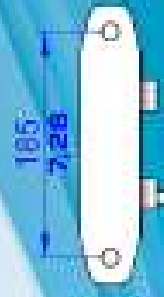
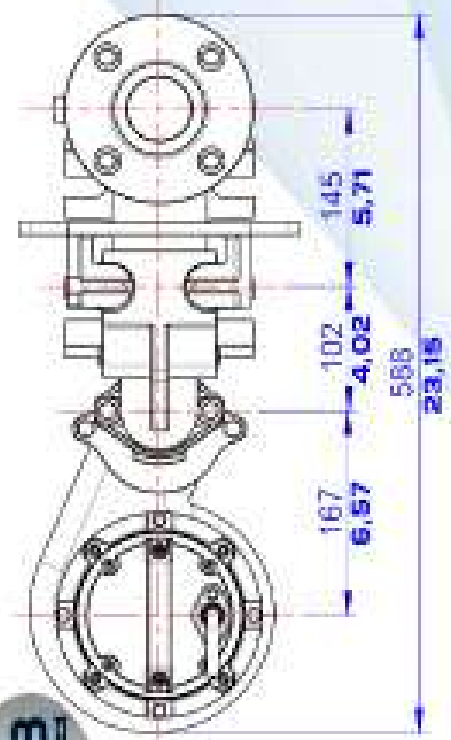
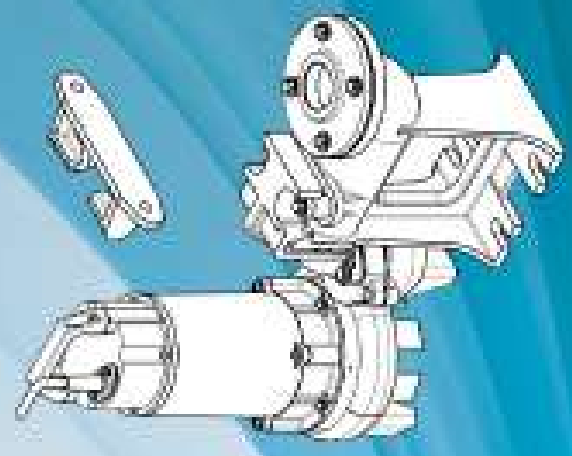


Unit:mm
Unit:in

For
LB/LBV-40/75 · LBV-215H
KO/BV-204/208 · AS-208/215
FGC-11/15/22

Item	Dimensional	Model	82GRLO2+RCU
Drawn	QW/S	Scale	1:6
Date	2017/10/25		
Rev.	A		



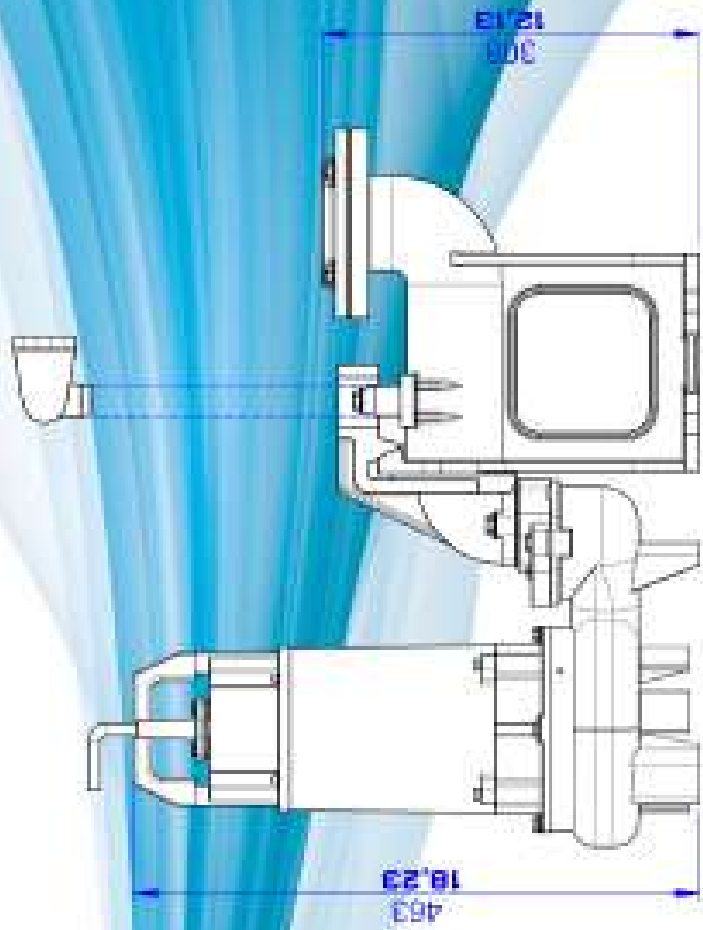
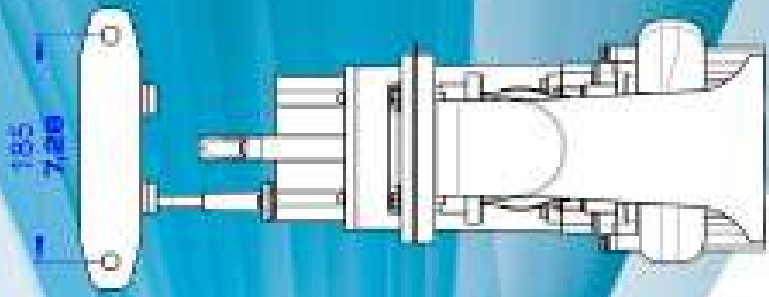
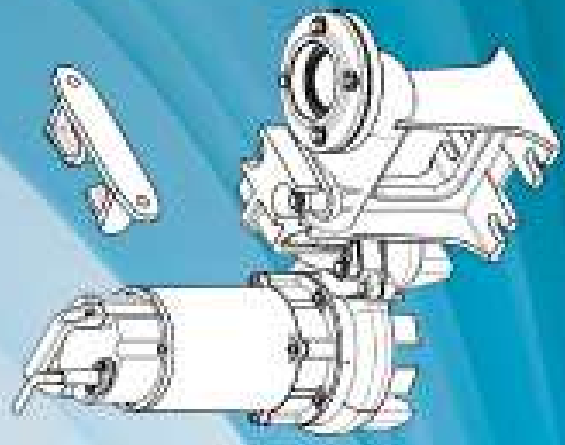
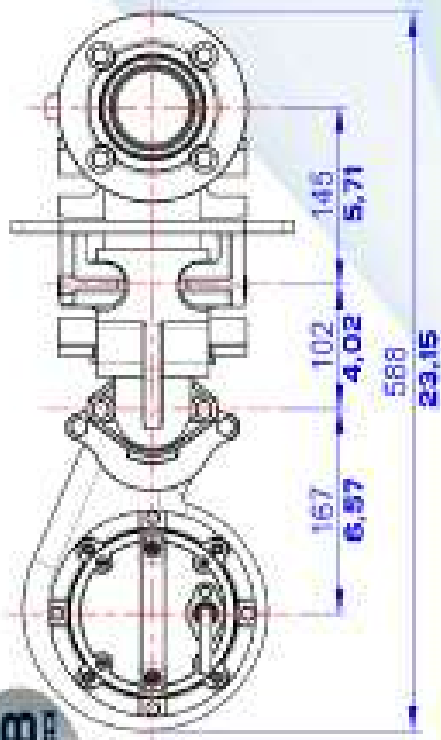


Unit:mm
Unit:in

Item	Dimensional	Model	82GRLO2F+03.03
Drawn	QMS	Scale	1:6
Date	2017-10-25		
Rev.	A		



For
LBC/LBK-75
LB/LBV/LBC/LBK/KO/BV-215

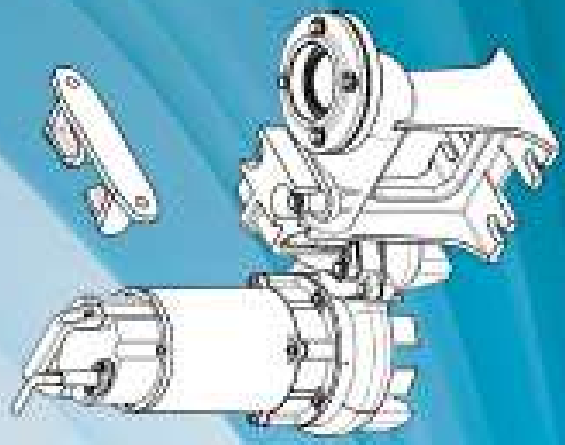
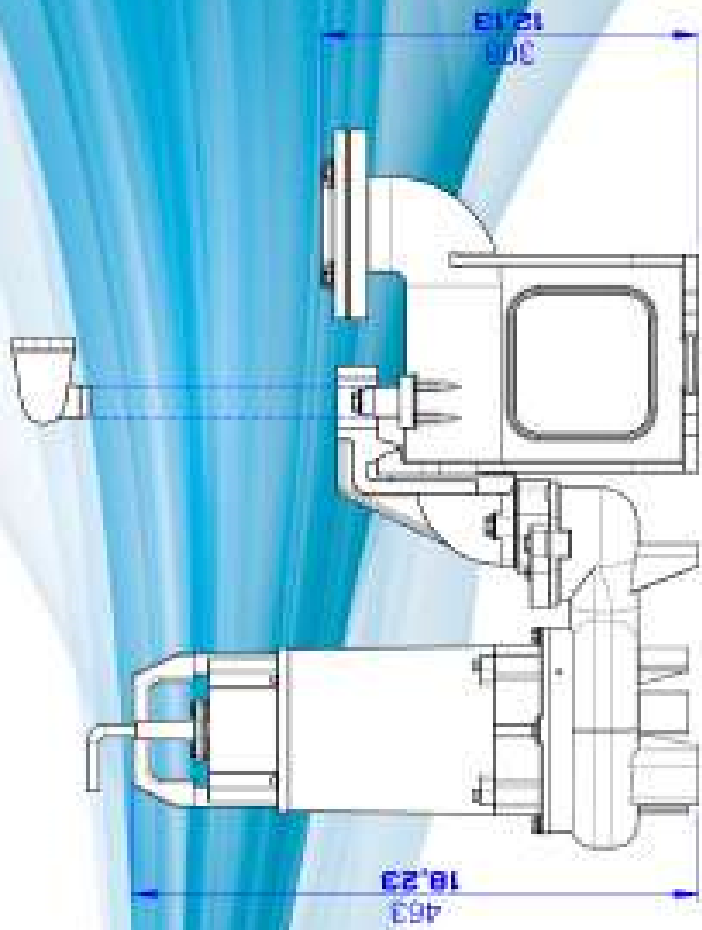
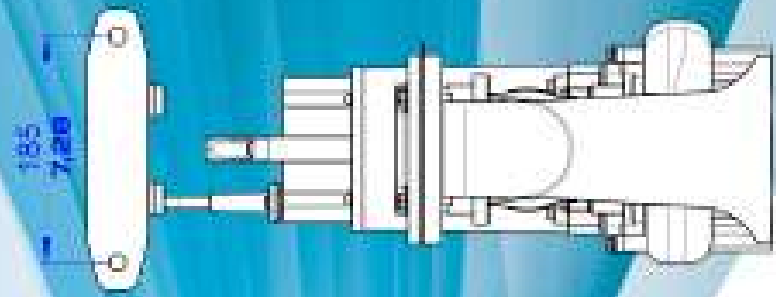
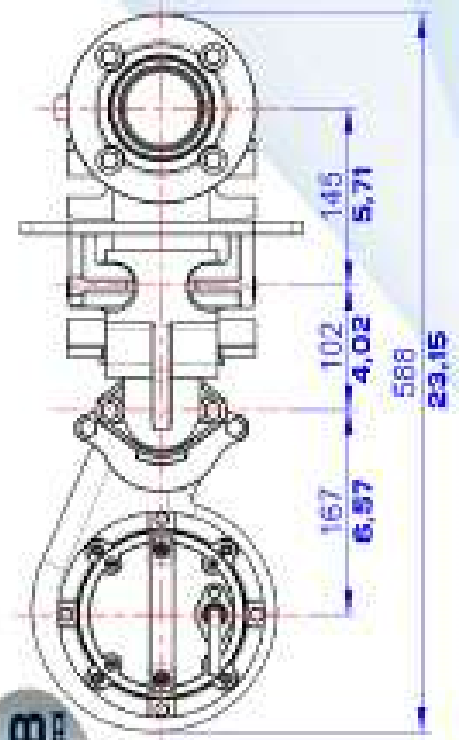


Unit:mm
Unit:in

Item	Dimensional	Model	82GRLO3F+10.05
Drawn	QWS	Scale	1:5
Date	2017/10/25		
Rev.	A		



For
LB/LBV/LBC/LBK/KO/BV-315



Unit:mm
Unit:in

Item	Dimensional	Model	82GRLO3F+R035
Drawn	QMS	Scale	1:6
Date	2017/10/25		
Rev.	A		



For
LB/LBV/LBC/LBK/KO/BV-315



18" Fiberglass Basins



√	Models	DIA X DEPTH	CAPACITY	WEIGHT
	1822FB-LC	18 X 22	24	12
	1830FB-LC	18 X 30	33	15
	1836FB-LC	18 X 36	40	18
	1842FB-LC	18 X 42	46	21
	1848FB-LC	18 X 48	53	24
	1854FB-LC	18 X 54	59	27
	1860FB-LC	18 X 60	66	30
	1866FB-LC	18 X 66	73	33
	1872FB-LC	18 X 72	79	36
	1878FB-LC	18 X 78	86	39
	1884FB-LC	18 X 84	93	42
	1890FB-LC	18 X 90	99	45
	1896FB-LC	18 X 96	106	48

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

Longer Depths Available
Basins 48" and Deeper c/w Anti-Float
If Anti-Float not required please call for P & D

Covers for 18" Dia. Basins

BLANK
Steel / S. foam



BLANK / steel
Checker Plated



SIMPLEX
Steel / SF (1pc)



SIMPLEX 2 PC
Structural foam



√	Models	MATERIAL	WEIGHT
	18B	BLANK STEEL 3/16" THICK	14
	18BCP	BLANK STEEL checker plated	14
	18BSF	BLANK STRUCTURAL FOAM	5

√	Models	MATERIAL	WEIGHT
	18SSF*	SIMPLEX SF (1pc)	7
	SF114-2PC*	SIMPLEX SPLIT 2 PC FOAM	10
	18S*	SIMPLEX STEEL 3/16" THICK	10

*c/w 2" discharge & 3" vent flanges



24" Fiberglass Basins



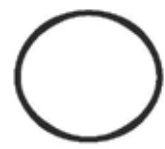
✓	Models	DIA X DEPTH	CAPACITY	WEIGHT
	2424FB-LC	24 X 24	47	30
	2430FB-LC	24 X 30	59	35
	2436FB-LC	24 X 36	70	40
	2442FB-LC	24 X 42	82	45
	2448FB-LC	24 X 48	94	50
	2454FB-LC	24 X 54	106	54
	2460FB-LC	24 X 60	117	59
	2466FB-LC	24 X 66	129	64
	2472FB-LC	24 X 72	141	69
	2478FB-LC	24 X 78	153	92
	2484FB-LC	24 X 84	164	96
	2490FB-LC	24 X 90	176	100
	2496FB-LC	24 X 96	188	105

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

Longer Depths Available
Basins 48" and Deeper c/w Anti-Float
If Anti-Float not required please call for P & D

Covers for 24" Dia. Basins

Steel / F/ S Foam



SIMPLEX SF



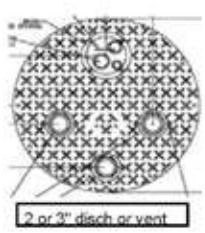
SIMPLEX / steel



BLANK / steel
Checker Plated



DUPLEX
Structural foam



2 or 3" disch or vent

✓	Models	MATERIAL	WEIGHT
	24B	BLANK STEEL 3/16" THICK	48
	24BCP	BLANK STEEL checker plated	48
	24BF	BLANK FIBERGLASS	18
	SF24B-BL	BLANK STUCTURAL FOAM	20

	SF24S-BL*	SIMPLEX STUCTURAL FOAM	22
	LB-10-S2401-1	SIMPLEX STEEL 10 gauge	
	24SI	SIMPLEX STEEL 3/16" THICK	50

	SF24D-BL*	DUPLEX STUCTURAL FOAM	24
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	JC24H	3/16" STEEL HINGED DOOR COVER	
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*c/w 2" discharge & 3" vent flanges



30" Fiberglass Basins



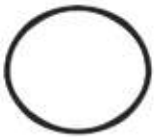
√	Models	DIA X DEPTH	CAPACITY	WEIGHT
	3030FB-LC	30 X 30	92	46
	3036FB-LC	30 X 36	110	52
	3042FB-LC	30 X 42	129	58
	3048FB-LC	30 X 48	147	64
	3054FB-LC	30 X 54	165	70
	3060FB-LC	30 X 60	184	76
	3066FB-LC	30 X 66	202	112
	3072FB-LC	30 X 72	220	118
	3078FB-LC	30 X 78	239	125
	3084FB-LC	30 X 84	257	133
	3090FB-LC	30 X 90	275	141
	3096FB-LC	30 X 96	294	148

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

Longer Depths Available
Basins 48" and Deeper c/w Anti-Float
If Anti-Float not required please call for P & D

Covers for 30" Dia. Basins

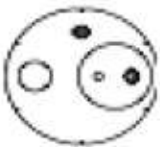
BLANK
Steel / Fiberglass



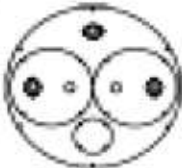
BLANK / steel
Checker Plated



SIMPLEX W/ INSP
Steel only



DUPLEX W/ INSP
Steel / Fiberglass



√	Models	MATERIAL	WEIGHT
	30B	BLANK STEEL 3/16" THICK	65
	30BCP	BLANK STEEL checker plated	65
	30BF	BLANK FIBERGLASS	20
	LB-10S3001	SIMPLEX STEEL 10 gauge	
	30SI*	SIMPLEX STEEL 3/16" THICK	69
	30DIF*	DUPLEX FIBERGLASS	30
	LB-10S3002	DUPLEX STEEL 10 gauge	
	30DI*	DUPLEX STEEL 3/16" THICK	75
	JC30H	3/16" STEEL HINGED DOOR COVER	

*c/w 2" discharge & 3" vent flanges



36" Fiberglass Basins



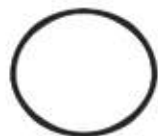
√	Models	DIA X DEPTH	CAPACITY	WEIGHT
	3636FB-LC	36 X 36	159	65
	3642FB-LC	36 X 42	185	71
	3648FB-LC	36 X 48	211	78
	3654FB-LC	36 X 54	238	86
	3660FB-LC	36 X 60	264	93
	3666FB-LC	36 X 66	291	159
	3672FB-LC	36 X 72	317	168
	3678FB-LC	36 X 78	344	177
	3684FB-LC	36 X 84	370	186
	3690FB-LC	36 X 90	397	196
	3696FB-LC	36 X 96	423	205

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

Longer Depths Available
Basins 48" and Deeper c/w Anti-Float
If Anti-Float not required please call for P & D

Covers for 36" Dia. Basins

BLANK
Steel / Fiberglass



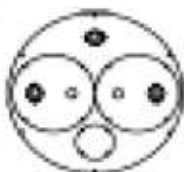
SIMPLEX W/ INSP
Steel only



BLANK / steel
Checker Plated



DUPLEX W/ INSP
Steel / Fiberglass



√	Models	MATERIAL	WEIGHT
	36B	BLANK STEEL 3/16" THICK	90
	36BCP	BLANK STEEL checker plated	90
	36BF	BLANK FIBERGLASS	30
	LB-10S3601	SIMPLEX STEEL 10 gauge	
	36SI*	SIMPLEX STEEL 3/16" THICK	95
	LB-10S3602	DUPLEX STEEL 10 gauge	
	36DI*	DUPLEX STEEL 3/16" THICK	110
	JC36H	1/4" STEEL HINGED DOOR COVER	

*c/w 2" discharge & 3" vent flanges

42" Fiberglass Basins



√	Models	DIA X DEPTH	CAPACITY	WEIGHT
	4230FB-LC	42 X 30	180	81
	4236FB-LC	42 X 36	216	94
	4242FB-LC	42 X 42	252	105
	4248FB-LC	42 X 48	288	116
	4254FB-LC	42 X 54	324	128
	4260FB-LC	42 X 60	360	139
	4266FB-LC	42 X 66	396	183
	4272FB-LC	42 X 72	432	194
	4278FB-LC	42 X 78	468	208
	4284FB-LC	42 X 84	504	221
	4290FB-LC	42 X 90	540	235
	4296FB-LC	42 X 96	576	249

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

Longer Depths Available
Basins 48" and Deeper c/w Anti-Float
If Anti-Float not required please call for P & D

Covers for 42" Dia. Basins

BLANK
Steel / Fiberglass



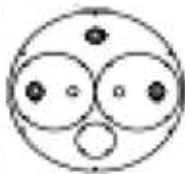
Simplex Steel



BLANK / steel
Checker Plated



Duplex Steel



√	Models	MATERIAL	WEIGHT
	42B	BLANK STEEL 3/16" THICK	128
	42BCP	BLANK STEEL checker plated	128
	42BF	BLANK FIBERGLASS	40
	42SI*	SIMPLEX STEEL 1/4" THICK	135
	42DI*	DUPLEX STEEL 1/4" THICK	140
	LB-S42HDC	1/4" STEEL HINGED DOOR COVER	

*c/w 2" discharge & 3" vent flanges



48" Fiberglass Basins



✓	Models	DIA X DEPTH	CAPACITY	WEIGHT
	4830FB-LC	48 X 30	235	97
	4836FB-LC	48 X 36	282	110
	4842FB-LC	48 X 42	329	123
	4848FB-LC	48 X 48	376	136
	4854FB-LC	48 X 54	423	148
	4860FB-LC	48 X 60	470	161
	4866FB-LC	48 X 66	517	244
	4872FB-LC	48 X 72	564	260
	4878FB-LC	48 X 78	611	280
	4884FB-LC	48 X 84	658	299
	4890FB-LC	48 X 90	705	318
	4896FB-LC	48 X 96	752	338

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

**Longer Depths Available
 Basins 48" and Deeper c/w Anti-Float
 If Anti-Float not required please call for P & D**

Covers for 48" Dia. Basins

BLANK
Steel / Fiberglass



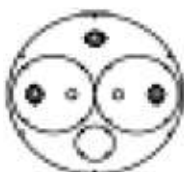
BLANK / steel
Checker Plated



SIMPLEX W/ INSP
Steel only



DUPLEX W/ INSP
Steel / Fiberglass



✓	Models	MATERIAL	WEIGHT
	48B	BLANK STEEL 1/4" THICK	165
	48BCP	BLANK STEEL checker plated	165
	48BF	BLANK FIBERGLASS	65
	48SI*	SIMPLEX STEEL 1/4" THICK	170
	48DI*	DUPLEX STEEL 1/4" THICK	180
	JC48H	1/4" STEEL HINGED DOOR COVER	

*c/w 2" discharge & 3" vent flanges



60" Fiberglass Basins



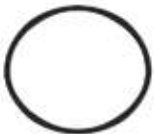
√	Models	DIA X DEPTH	CAPACITY	WEIGHT
	6036FB-LC	60 X 36	440	309
	6042FB-LC	60 X 42	514	334
	6048FB-LC	60 X 48	587	358
	6054FB-LC	60 X 54	661	382
	6060FB-LC	60 X 60	734	406
	6066FB-LC	60 X 66	808	430
	6072FB-LC	60 X 72	881	454
	6078FB-LC	60 X 78	955	483
	6084FB-LC	60 X 84	1028	512
	6090FB-LC	60 X 90	1102	540
	6096FB-LC	60 X 96	1175	569

Suitable for liquids up to 140°F
 Cover not included in basin price See below
 Adapt-a-flex and cast iron hubs sold separately

Longer Depths Available
Basins 48" and Deeper c/w Anti-Float
If Anti-Float not required please call for P & D

Covers for 60" Dia. Basins

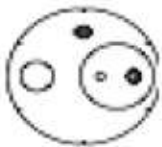
BLANK
Steel / Fiberglass



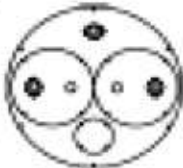
BLANK / steel
Checker Plated



SIMPLEX W/ INSP
Steel only



DUPLEX W/ INSP
Steel / Fiberglass



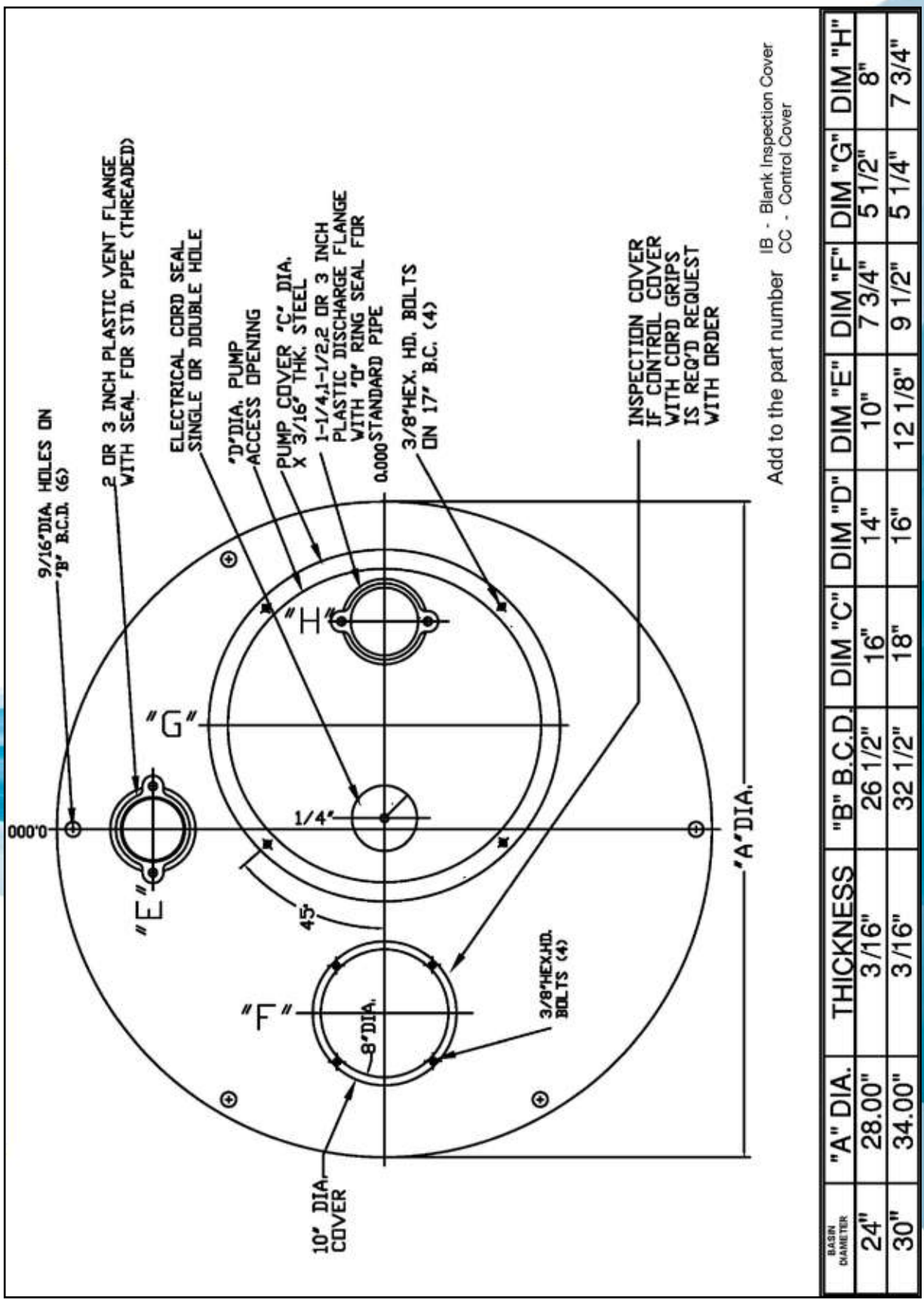
√	Models	MATERIAL	WEIGHT
	60B	BLANK STEEL 1/4" THICK	365
	60BCP	BLANK STEEL checker plated	365
	60BF	BLANK FIBERGLASS	75
	60SI*	SIMPLEX STEEL 1/4" THICK	380
	60DI*	DUPLEX STEEL 1/4" THICK	395
	LB-S60HDC	3/8" STEEL HINGED DOOR COVER	

*c/w 2" discharge & 3" vent flanges



SIMPLEX METAL COVER

Simplex Metal Covers

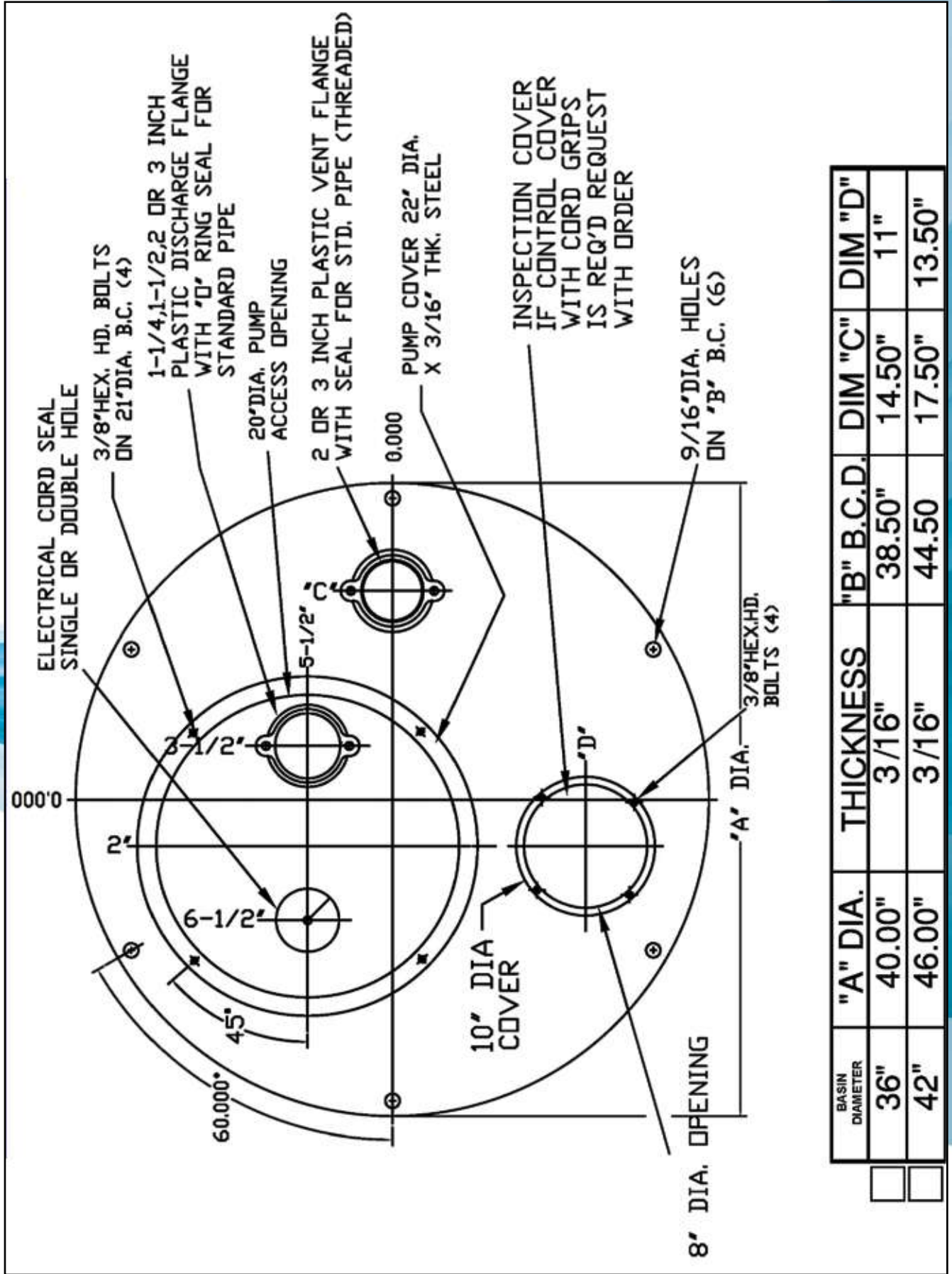


Add to the part number
 IB - Blank Inspection Cover
 CC - Control Cover

BASIN DIAMETER	"A" DIA.	THICKNESS	"B" B.C.D.	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"
24"	28.00"	3/16"	26 1/2"	16"	14"	10"	7 3/4"	5 1/2"	8"
30"	34.00"	3/16"	32 1/2"	18"	16"	12 1/8"	9 1/2"	5 1/4"	7 3/4"



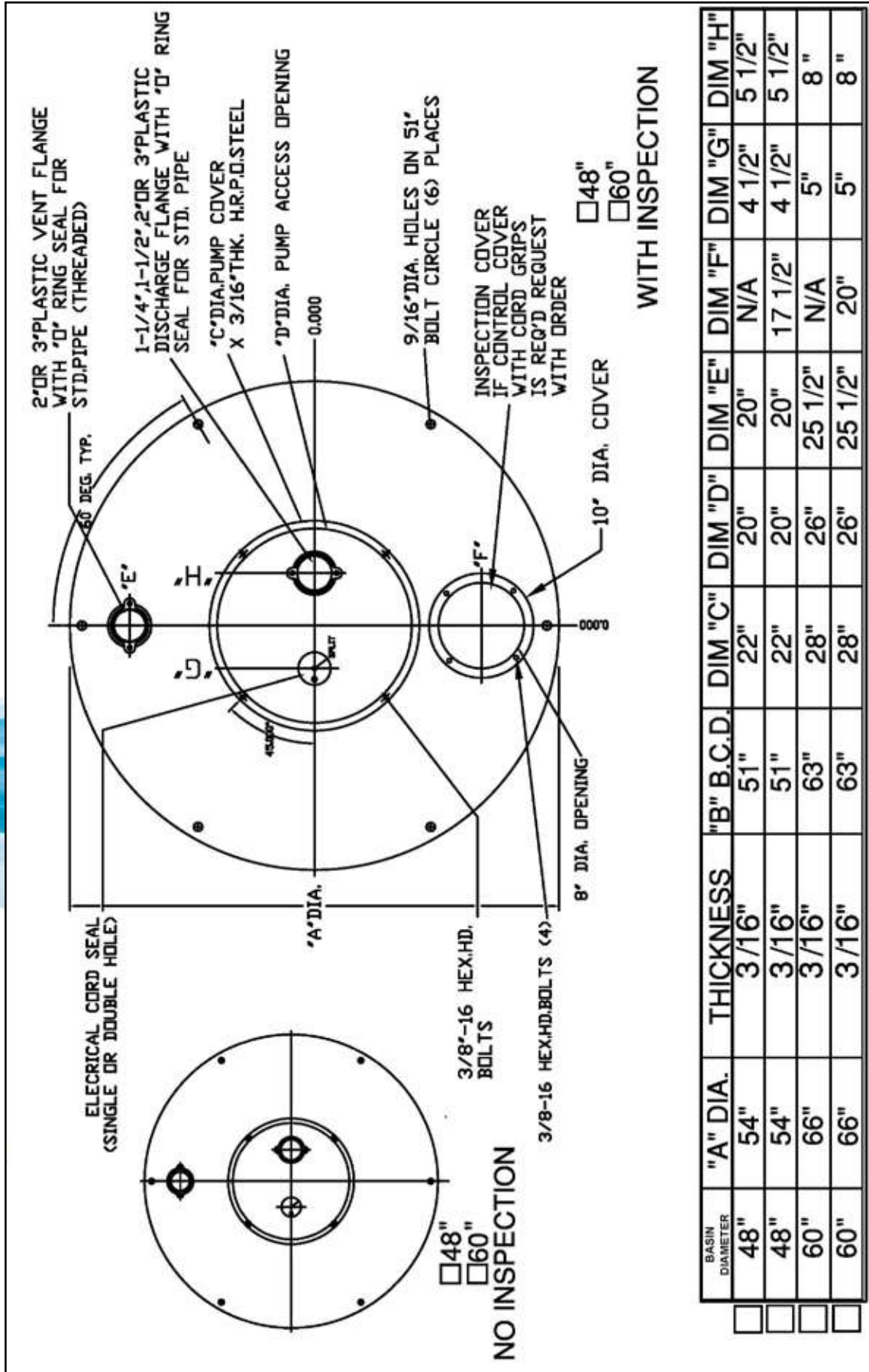
Simplex Metal Covers



BASIN DIAMETER	"A" DIA.	THICKNESS	"B" B.C.D.	DIM "C"	DIM "D"
36"	40.00"	3/16"	38.50"	14.50"	11"
42"	46.00"	3/16"	44.50"	17.50"	13.50"

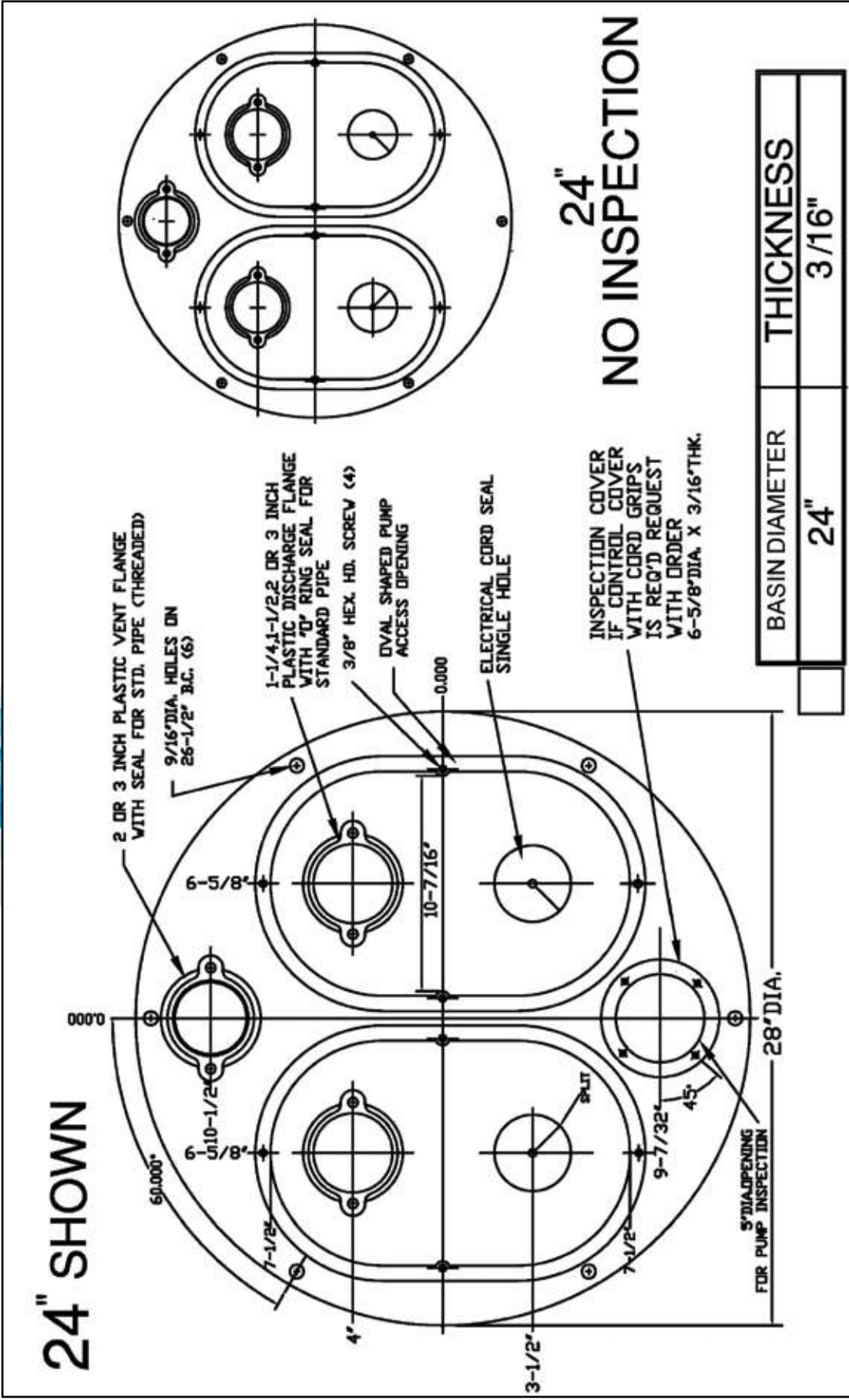


Simplex Metal Covers





24" Duplex Metal Covers

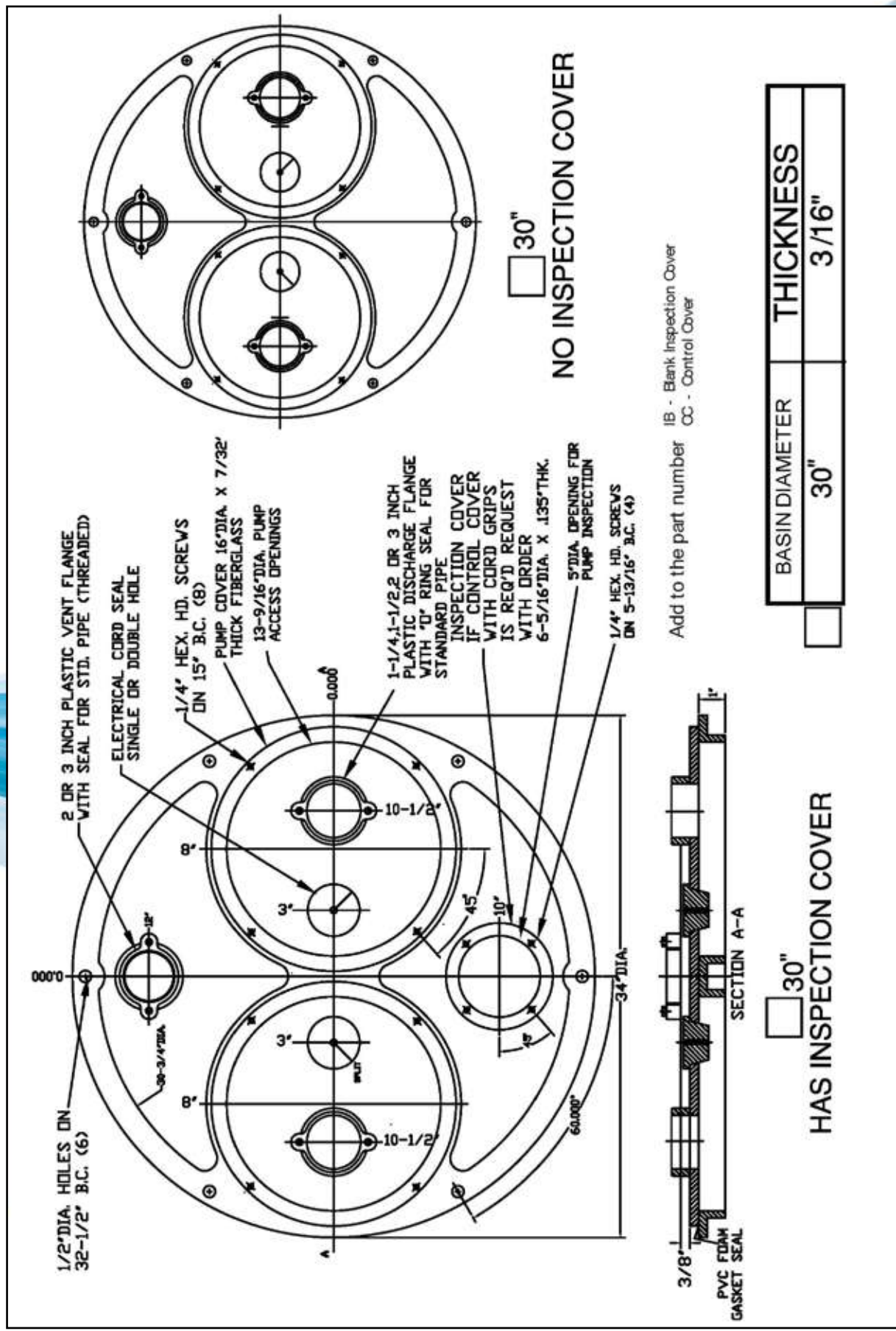


24" NO INSPECTION

BASIN DIAMETER	THICKNESS
24"	3/16"

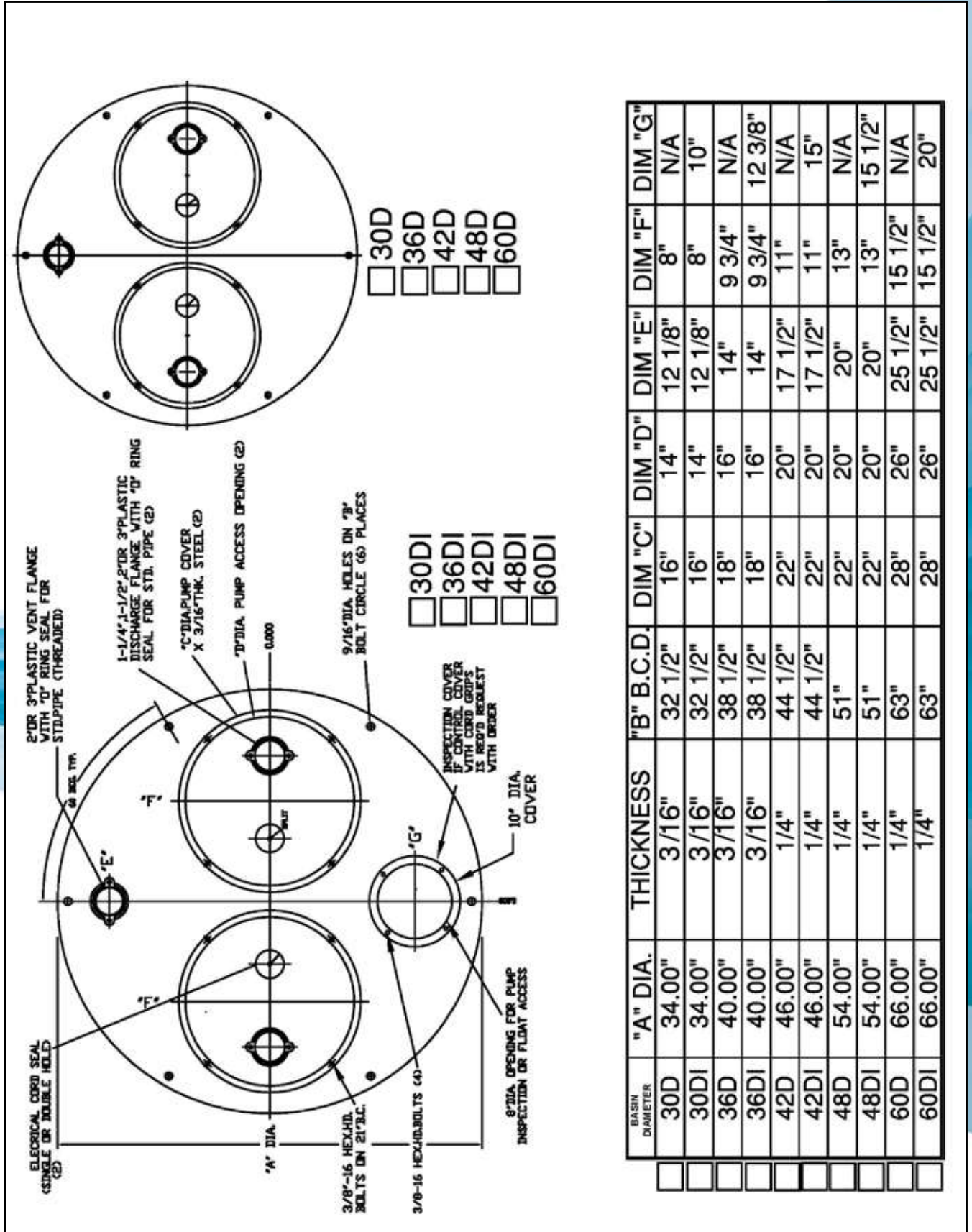


30" Fiberglass Duplex Covers



□ 30"	BASIN DIAMETER	THICKNESS
□ 30"	30"	3/16"

Duplex Metal Covers



BASIN DIAMETER	"A" DIA.	THICKNESS	"B" B.C.D.	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"
<input type="checkbox"/> 30D	34.00"	3/16"	32 1/2"	16"	14"	12 1/8"	8"	N/A
<input type="checkbox"/> 30DI	34.00"	3/16"	32 1/2"	16"	14"	12 1/8"	8"	10"
<input type="checkbox"/> 36D	40.00"	3/16"	38 1/2"	18"	16"	14"	9 3/4"	N/A
<input type="checkbox"/> 36DI	40.00"	3/16"	38 1/2"	18"	16"	14"	9 3/4"	12 3/8"
<input type="checkbox"/> 42D	46.00"	1/4"	44 1/2"	22"	20"	17 1/2"	11"	N/A
<input type="checkbox"/> 42DI	46.00"	1/4"	44 1/2"	22"	20"	17 1/2"	11"	15"
<input type="checkbox"/> 48D	54.00"	1/4"	51"	22"	20"	20"	13"	N/A
<input type="checkbox"/> 48DI	54.00"	1/4"	51"	22"	20"	20"	13"	15 1/2"
<input type="checkbox"/> 60D	66.00"	1/4"	63"	28"	26"	25 1/2"	15 1/2"	N/A
<input type="checkbox"/> 60DI	66.00"	1/4"	63"	28"	26"	25 1/2"	15 1/2"	20"



SIMPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump
 Grinder Pump
 Non-Clog Pump

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ
 Elec: _____ FL AMPS

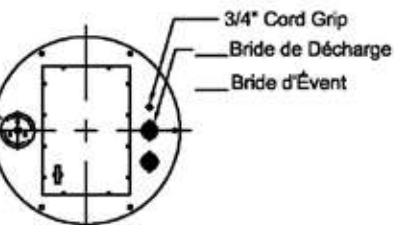
DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 1 1/4"
 1 1/2"
 2"
 3"

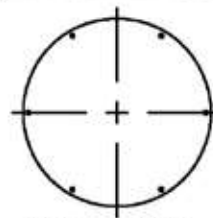
ANTI-FLOATATION FLANGE

- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

Inspection Plate With
 (3) 1/2" Cord Grips
 And 1" Coupling



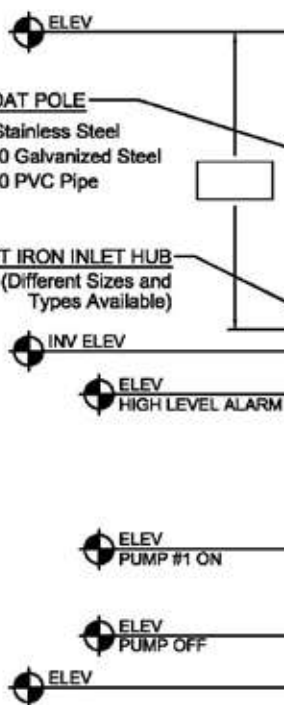
- GAS TIGHT HATCH COVER
 Fiberglass Aluminium Steel



- SOLID COVER
 Fiberglass
 Steel

- 1" FLOAT POLE**
 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

CAST IRON INLET HUB
 (Different Sizes and
 Types Available)



- 3/16" LIFTING CHAIN**
 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable
 is Available

- GATE VALVE**
 Brass
 Sch 80 PVC

UNION

- BALL CHECK VALVE**
 Cast Iron
 Sch80 PVC
 * 3" Systems are
 Provided with Brass
 Swing Check Valve

- DISCHARGE PIPE**
 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

S-SUB-_____
 S-SEB-_____

<p>TITLE / TITRE</p> <p align="center">FLO FAB SIMPLEX SUBMERSIBLE</p>			
<p>PROJECT/PROJET</p>		<p>CUSTOMER/CLIENT</p>	
<p>PARTE LISTE N° / LISTE DE MATIERES N°</p>		<p>DATE / DATE</p>	
<p>DRAWN BY / DESINATEUR</p>		<p>DRAWING N° / N° DESIN</p>	
<p>M. LYMBURNER</p>		<p>N/A</p>	
<p>SCALE / ÉCHELLE</p>		<p>AUGUST 2007</p>	
<p>REV</p>		<p>S-SUB-18737-FN</p>	

SIMPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump
 Grinder Pump
 Non-Clog Pump

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 1 1/4"
 1 1/2"
 2"
 3"
 4"

ANTI-FLOATATION FLANGE

- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

1" FLOAT POLE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

CAST IRON INLET HUB

(Different Sizes and Types Available)

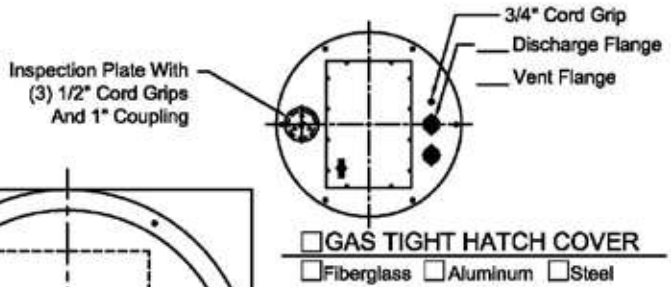
INV ELEV
 ELEV HIGH LEVEL ALARM

ELEV PUMP #1 ON

ELEV PUMP OFF

ELEV

3" ————— 3"



- 3/16" LIFTING CHAIN**
 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable is Available

- GATE VALVE**
 Brass
 Sch 80 PVC

- UNION**
- BALL CHECK VALVE**
 Cast Iron
 Sch80 PVC
 * 3" Systems are Provided with Brass Swing Check Valve

- DISCHARGE PIPE**
 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

- SLIDE RAIL COUPLING**
 BAF 2"
 BAF 3"
 BAF 4"

S-SUB-BAF-_____
 S-SEB-BAF-_____

FLO FAB			
SIMPLEX SUBMERSIBLE WITH SLIDE RAIL COUPLING			
<p>MONTREAL (QC) CANADA TORONTO (ON), CANADA LAKE WORTH (FL), USA WWW.FLOFAB.COM</p>		PROJECT/PROJECT	
		CUSTOMER/CLIENT	
DRAWN BY / DESIGNER/ISSUE	SCALE / SCALES	ISSUED BY / NO. OF ISSUES	REV
M. LYMBURNER	N/A	S-SUB-BAF-16739-FN	0



SIMPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump
 Grinder Pump
 Non-Clog Pump

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

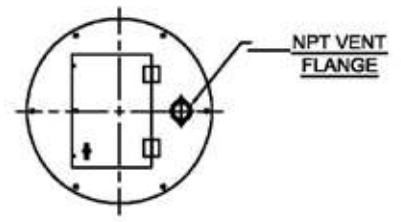
DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 1 1/4"
 1 1/2"
 2"
 3"

ANTI-FLOATATION FLANGE

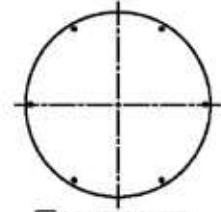
- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

**304 STAINLESS STEEL
 FLOAT BRACKET WITH
 (3) CORD GRIPS**
 Floats



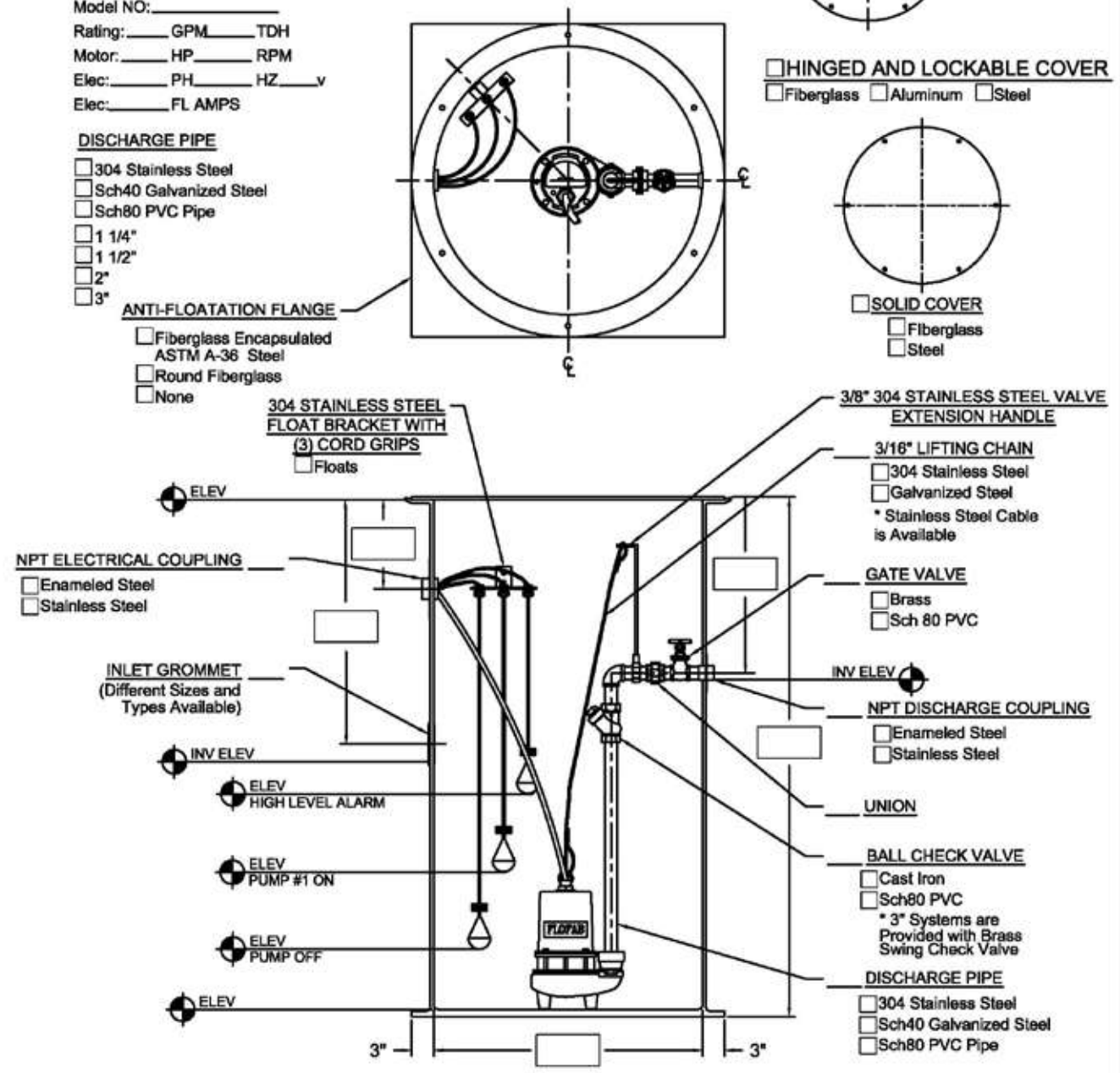
HINGED AND LOCKABLE COVER

- Fiberglass Aluminum Steel



SOLID COVER

- Fiberglass
 Steel



NPT ELECTRICAL COUPLING

- Enameled Steel
 Stainless Steel

INLET GROMMET
 (Different Sizes and
 Types Available)

- ELEV
- INV ELEV
- ELEV HIGH LEVEL ALARM
- ELEV PUMP #1 ON
- ELEV PUMP OFF
- ELEV

**3/8" 304 STAINLESS STEEL VALVE
 EXTENSION HANDLE**

3/16" LIFTING CHAIN
 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable is Available

GATE VALVE

- Brass
 Sch 80 PVC

NPT DISCHARGE COUPLING

- Enameled Steel
 Stainless Steel

UNION

BALL CHECK VALVE

- Cast Iron
 Sch80 PVC
 * 3" Systems are Provided with Brass Swing Check Valve

DISCHARGE PIPE

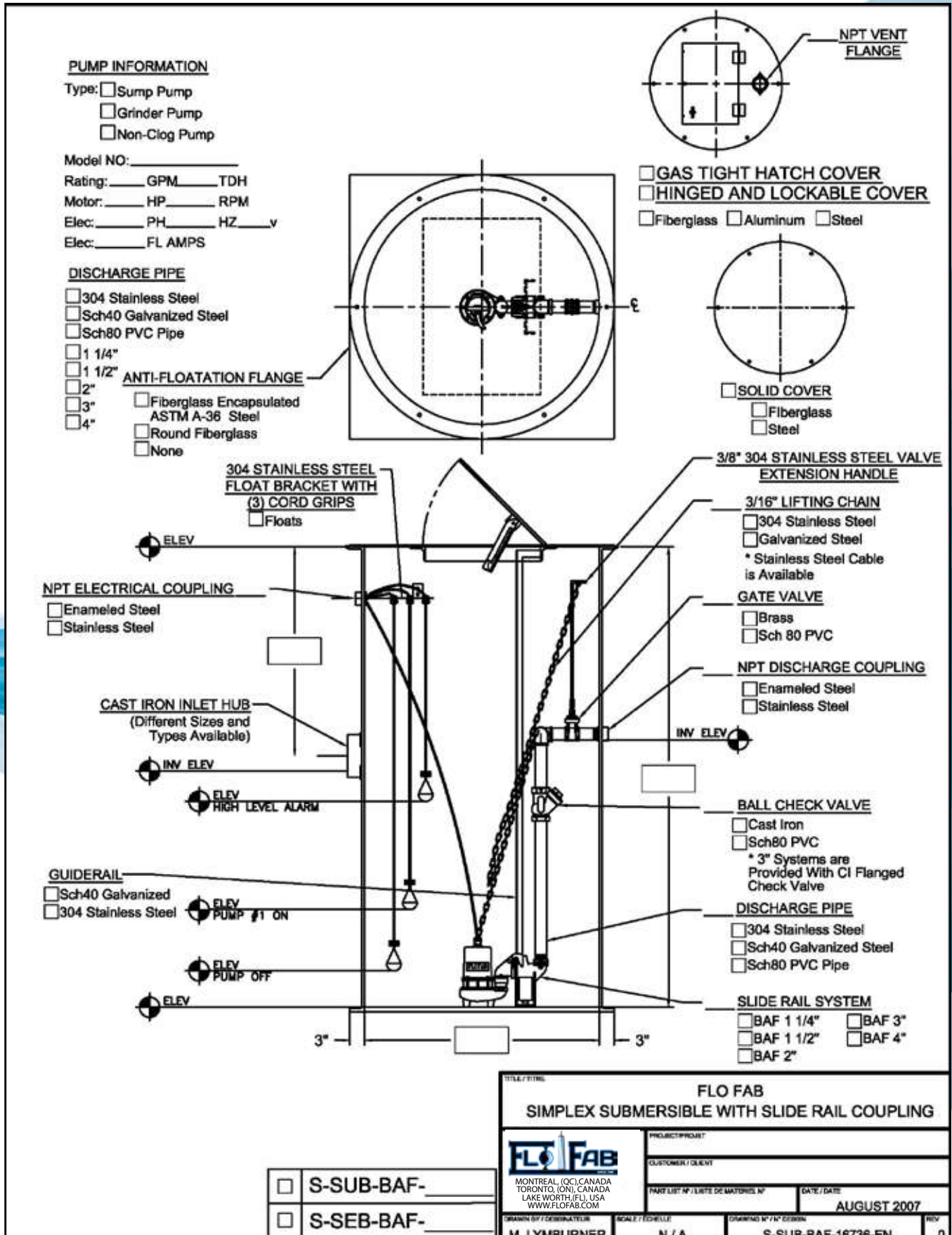
- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

- S-SUB- _____
 S-SEB- _____

<p>TITLE / DATE</p> <p align="center">FLO FAB SIMPLEX SUBMERSIBLE</p>			
<p>PROJECT/CLIENT</p>		<p>CUSTOMER/CLIENT</p>	
<p>MONTREAL, (QC), CANADA TORONTO, (ON), CANADA LAKE WORTH, (FL), USA WWW.FLOFAB.COM</p>		<p>PART LIST # / LISTE DE MATERIEL #</p>	<p>DATE / DATE</p> <p align="center">AUGUST 2007</p>
<p>DRAWN BY / DESIGNATEUR</p> <p>M. LYMBURNER</p>	<p>SCALE / ECHELLE</p> <p align="center">N/A</p>	<p>DRAWING # / N° Dessin</p> <p align="center">S-SUB-10148-EN</p>	<p>REV</p> <p align="center">0</p>



SIMPLEX SUBMERSIBLE





SIMPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump
 Grinder Pump
 Non-Clog Pump

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 1 1/4"
 1 1/2"
 2"
 3"

ANTI-FLOATATION FLANGE

- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

**304 STAINLESS STEEL
 FLOAT BRACKET WITH
 (3) CORD GRIPS**
 Floats

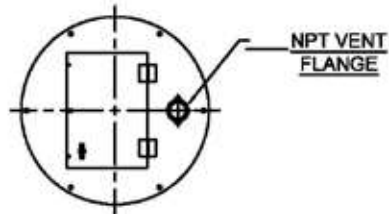
NPT ELECTRICAL COUPLING

- Enameled Steel
 Stainless Steel

INLET GROMMET
 (Different Sizes and
 Types Available)

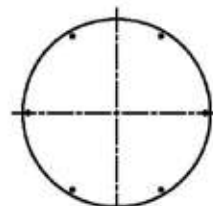
GUIDERAIL

- Sch40 Galvanized
 304 Stainless Steel



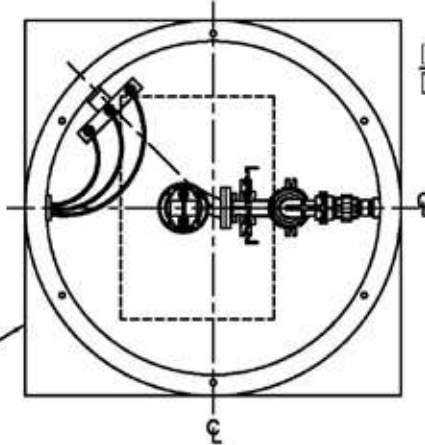
HINGED AND LOCKABLE COVER

- Fiberglass Aluminum Steel



SOLID COVER

- Fiberglass
 Steel



**3/8" 304 STAINLESS STEEL VALVE
 EXTENSION HANDLE**

3/16" LIFTING CHAIN

- 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable
 is Available

GATE VALVE

- Brass
 Sch 80 PVC

UNION

NPT DISCHARGE COUPLING

- Enameled Steel
 Stainless Steel

BALL CHECK VALVE

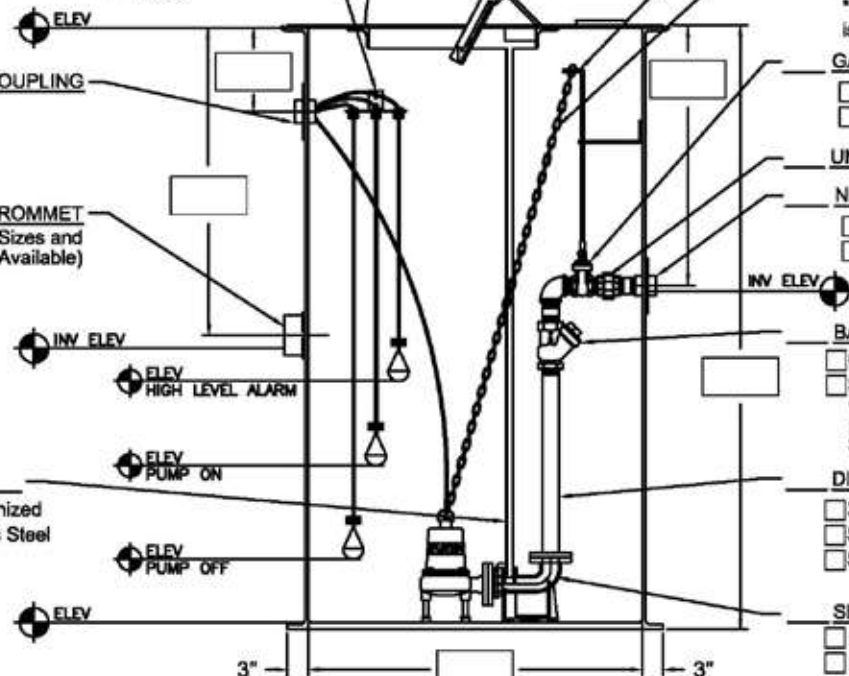
- Cast Iron
 Sch80 PVC
 * 3" Systems are
 Provided with Brass
 Swing Check Valve

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

SLIDE RAIL SYSTEM

- BAF 3"
 BAF 4"



- S-SUB-BAF-_____
 S-SEB-BAF-_____

<p>TITLE / TITRE</p> <p align="center">FLO FAB SIMPLEX SUBMERSIBLE</p>			
<p>PROJECT / PROJET</p>		<p>CUSTOMER / CLIENT</p>	
<p>PARTY LIST N° / LISTE DE MATRIEL N°</p>		<p>DATE / DATE</p>	
<p>DRAWN BY / DESIGNATEUR</p>		<p>SCALE / ECHELLE</p>	
<p>M. LYMBURNER</p>		<p>N/A</p>	
<p>DRAWING N° / N° DESSIN</p>		<p>DATE / DATE</p>	
<p>S-SUB-10144-FN</p>		<p>AUGUST 2007</p>	
<p>REV</p>		<p>REV</p>	



SIMPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump
 Grinder Pump
 Non-Clog Pump

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 3"
 4"

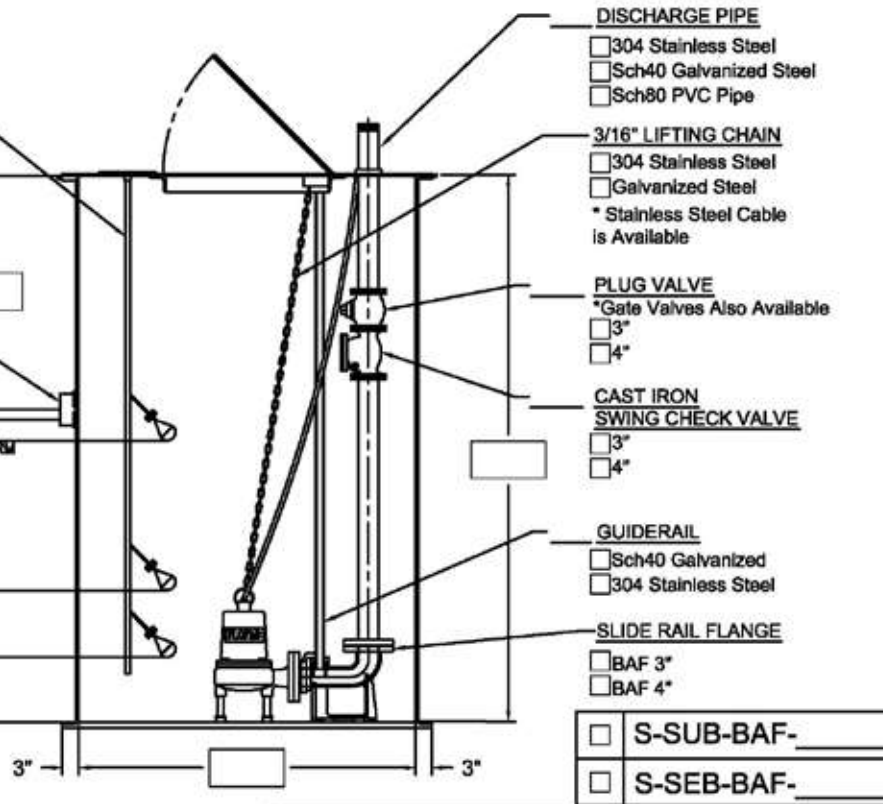
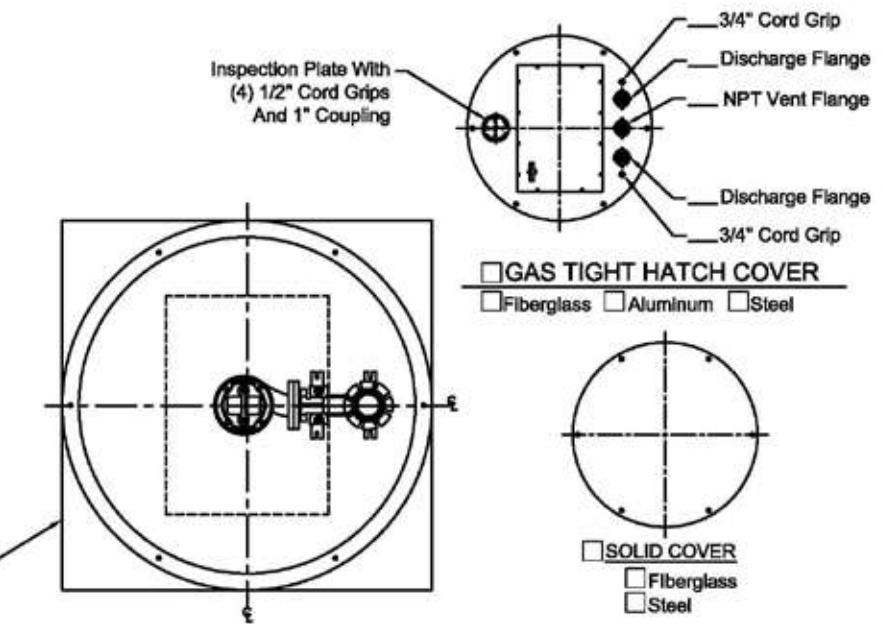
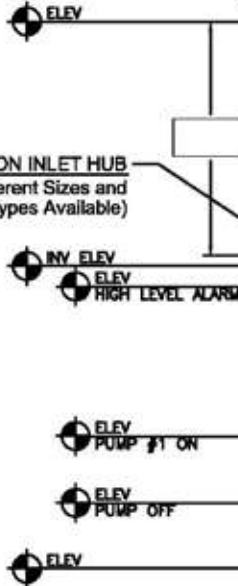
ANTI-FLOATATION FLANGE

- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

1" FLOAT POLE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

CAST IRON INLET HUB
 (Different Sizes and Types Available)



FLO FAB			
SIMPLEX SUBMERSIBLE WITH SLIDE RAIL COUPLING			
<p>MONTREAL (QC) CANADA TORONTO (ON) CANADA LAKE WORTH (FL) USA WWW.FLOFAB.COM</p>		PROJECT/PROJECT	
		CUSTOMER / CLIENT	
PART LIST # / LISTE DE MATERIEL #	DATE / DATE	AUGUST 2007	
DRAWN BY / Dessiné(eur)	SCALE / ÉCHELLE	DRAWING # / N° DESSIN	REV
M. LYMBURNER	N/A	D-SUB-BAF-16845-FN	0



DUPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump(s)
 Grinder Pump(s)
 Non-Clog Pump(s)

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

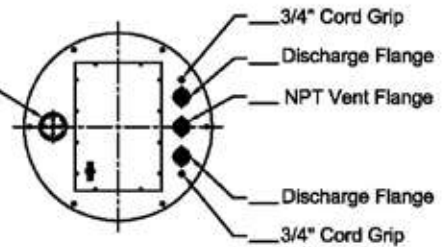
DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 1 1/4"
 1 1/2"
 2"
 3"

ANTI-FLOATATION FLANGE

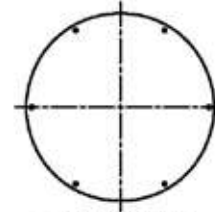
- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

Inspection Plate With
 (4) 1/2" Cord Grips
 And 1" Coupling



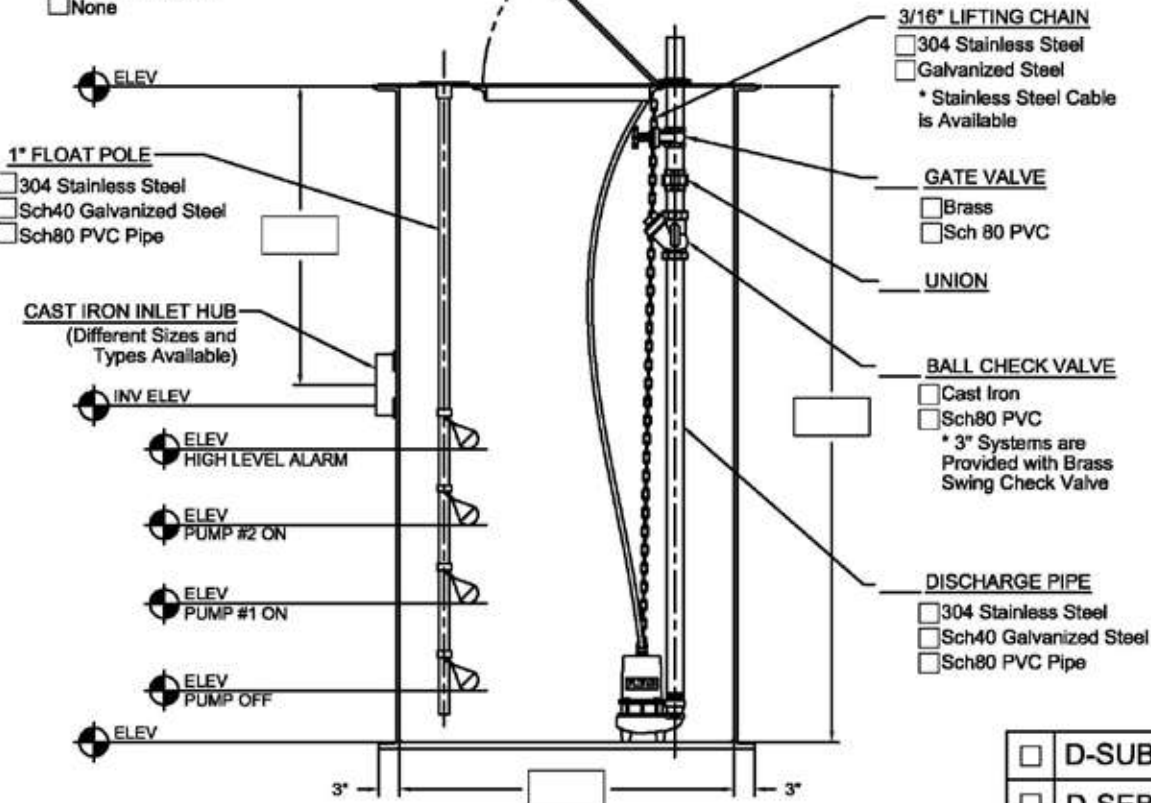
GAS TIGHT HATCH COVER

- Fiberglass Aluminum Steel



SOLID COVER

- Fiberglass
 Steel



3/16" LIFTING CHAIN

- 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable is Available

GATE VALVE

- Brass
 Sch 80 PVC

UNION

BALL CHECK VALVE

- Cast Iron
 Sch80 PVC
 * 3" Systems are Provided with Brass Swing Check Valve

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

D-SUB-_____
 D-SEB-_____

TITLE / TITRE FLO FAB DUPLEX SUBMERSIBLE	
PROJECT / PROJET _____	
CUSTOMER / CLIENT _____	
PART LIST N° / LISTE DE MATERIEL N° _____	DATE / DATE AUGUST 2007
DRAWN BY / DESIGNATEUR M. LYMBURNER	SCALE / ÉCHELLE N/A
DRAWING N° / N° Dessin D-SUB-17506-EN	REV _____



DUPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump(s)
 Grinder Pump(s)
 Non-Clog Pump(s)

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

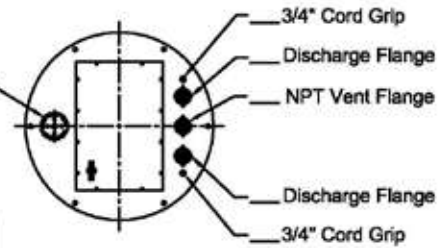
DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 1 1/4"
 1 1/2"
 2"
 3"
 4"

ANTI-FLOATATION FLANGE

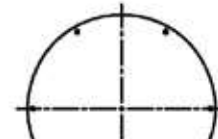
- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

Inspection Plate With
 (4) 1/2" Cord Grips
 And 1" Coupling



GAS TIGHT HATCH COVER

- Fiberglass Aluminum Steel



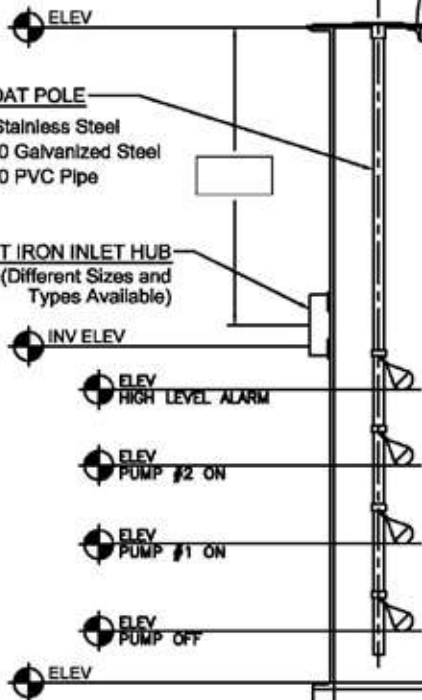
SOLID COVER

- Fiberglass
 Steel

1" FLOAT POLE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

CAST IRON INLET HUB
 (Different Sizes and
 Types Available)



3/16" LIFTING CHAIN

- 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable
 is Available

GATE VALVE

- Brass
 Sch 80 PVC

UNION

BALL CHECK VALVE

- Cast Iron
 Sch80 PVC
 * 3" Systems are
 Provided with Brass
 Swing Check Valve

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

SLIDE RAIL COUPLING

- BAF 2"
 BAF 3"
 BAF 4"

D-SUB-BAF-_____
 D-SEB-BAF-_____

TITLE / DESIG: FLO FAB DUPLEX SUBMERSIBLE WITH SLIDE AWAY COUPLING	
PROJECT / PRODUCT:	
CUSTOMER / CLIENT:	
PART LIST # / LISTE DE MATERIEL #	DATE / DATE:
AUGUST 2007	
DRAWN BY / DESIGNED:	SCALE / ECHELLE:
M. LYMBURNER	N / A
DRAWING # / #F. DESIGN:	REV
D-SUB-BAF-18735-EN	0



DUPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump(s)
 Grinder Pump(s)
 Non-Clog Pump(s)

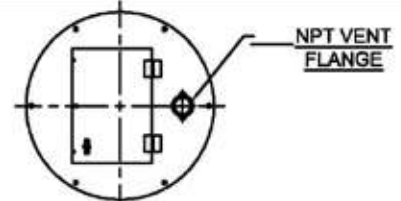
Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

DISCHARGE PIPE

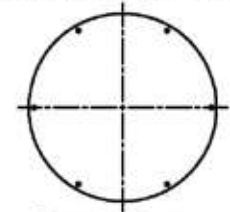
- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

- 1 1/4"
 1 1/2"
 2"
 3"
 4"

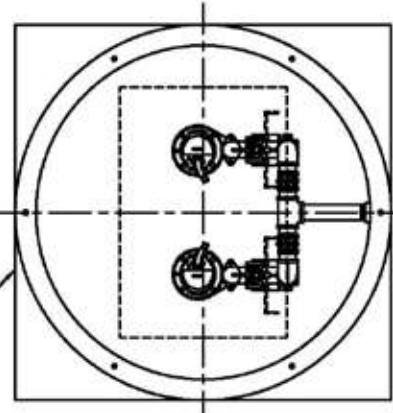
- ANTI-FLOATATION FLANGE**
 Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None



- GAS TIGHT HATCH COVER
 HINGED AND LOCKABLE COVER
 Fiberglass Aluminum Steel



- SOLID COVER
 Fiberglass
 Steel



- 304 STAINLESS STEEL
 FLOAT BRACKET WITH
 (4) CORD GRIPS**
 Floats

- 3/8" 304 STAINLESS STEEL VALVE
 EXTENSION HANDLE**

- 3/16" LIFTING CHAIN**
 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable is Available

- GATE VALVE**
 Brass
 Sch 80 PVC

- NPT DISCHARGE COUPLING**
 Enameled Steel
 Stainless Steel

- BALL CHECK VALVE**
 Cast Iron
 Sch80 PVC
 * 3" Systems are Provided With CI Flanged Check Valve

- DISCHARGE PIPE**
 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

- SLIDE RAIL SYSTEM**
 BAF 1 1/4" BAF 3"
 BAF 1 1/2" BAF 4"
 BAF 2"

- NPT ELECTRICAL COUPLING**
 Enameled Steel
 Stainless Steel

CAST IRON INLET HUB
 (Different Sizes and Types Available)

- ELEV** (with gauge icon)
INV ELEV (with gauge icon)
ELEV HIGH LEVEL ALARM (with gauge icon)
ELEV PUMP #2 ON (with gauge icon)
ELEV PUMP #1 ON (with gauge icon)
ELEV PUMP OFF (with gauge icon)
ELEV (with gauge icon)

- GUIDERAIL**
 Sch40 Galvanized
 304 Stainless Steel

3" _____ 3"

<p>TITLE / TITRE FLO FAB DUPLEX SUBMERSIBLE WITH SLIDE RAIL COUPLING</p>			
<p>PRODUCED BY FLO FAB</p>		<p>CUSTOMER / CLIENT</p>	
<p>MONTREAL (QC), CANADA TORONTO (ON), CANADA LAKE WORTH (FL), USA WWW.FLOFAB.COM</p>		<p>PART LIST N° / LISTE DE MATERIEL N°</p>	
<p>DATE / DATE AUGUST 2007</p>		<p>DATE / DATE</p>	
<p>SCALE / ÉCHELLE N / A</p>		<p>DRAWING N° / N° DE Dessin D-SUB-BAF-16734-FN</p>	
<p>DRAWN BY / DESINATÉ PAR M. LYMBURNER</p>		<p>REV</p>	

- D-SUB-BAF-_____
 D-SEB-BAF-_____



DUPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump(s)
 Grinder Pump(s)
 Non-Clog Pump(s)

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ v
 Elec: _____ FL AMPS

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 3"
 4"

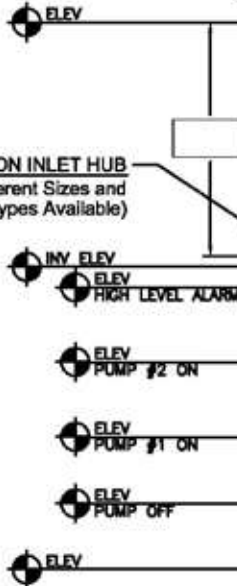
ANTI-FLOATATION FLANGE

- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

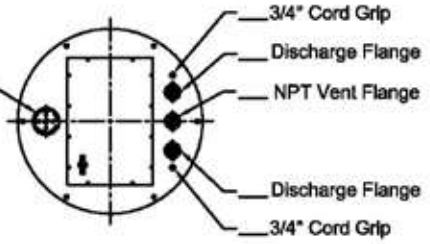
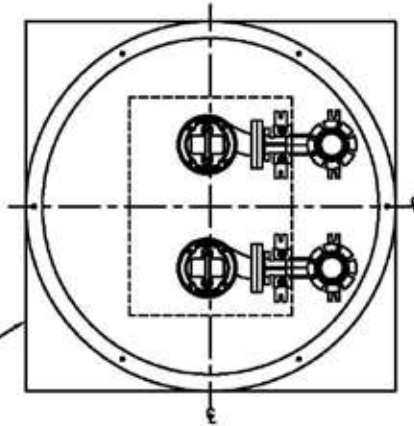
1" FLOAT POLE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

CAST IRON INLET HUB
 (Different Sizes and
 Types Available)



Inspection Plate With
 (4) 1/2" Cord Grips
 And 1" Coupling



GAS TIGHT HATCH COVER

- Fiberglass Aluminum Steel



SOLID COVER

- Fiberglass
 Steel

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

3/16" LIFTING CHAIN

- 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable
 is Available

PLUG VALVE

- *Gate Valves Also Available
 3"
 4"

CAST IRON SWING CHECK VALVE

- 3"
 4"

GUIDERAIL

- Sch40 Galvanized
 304 Stainless Steel

SLIDE RAIL FLANGE

- BAF 3"
 BAF 4"

D-SUB-BAF- _____

D-SEB-BAF- _____

<p>TITLE / TITRE FLO FAB DUPLEX SUBMERSIBLE WITH SLIDE RAIL COUPLING</p>			
<p>PROJECT / PROJET</p>		<p>CUSTOMER / CLIENT</p>	
<p>DATE / DATE</p>		<p>AUGUST 2007</p>	
<p>DRAWN BY / DESIGNATEUR M. LYMBURNER</p>		<p>SCALE / ÉCHELLE N/A</p>	
<p>DRAWING NO. / N° DESSIN D-SUB-BAF-16844-EN</p>		<p>REV</p>	



DUPLEX SUBMERSIBLE

PUMP INFORMATION

- Type: Sump Pump(s)
 Grinder Pump(s)
 Non-Clog Pump(s)

Model NO: _____
 Rating: _____ GPM _____ TDH
 Motor: _____ HP _____ RPM
 Elec: _____ PH _____ HZ _____ V
 Elec: _____ FL AMPS

DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe
 2"
 3"
 4"

ANTI-FLOTATION FLANGE

- Fiberglass Encapsulated
 ASTM A-36 Steel
 Round Fiberglass
 None

**304 STAINLESS STEEL
 FLOAT BRACKET WITH
 (4) CORD GRIPS**

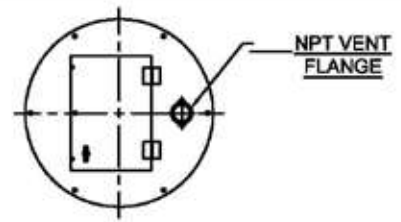
- Floats

NPT ELECTRICAL COUPLING

- Enameled Steel
 Stainless Steel

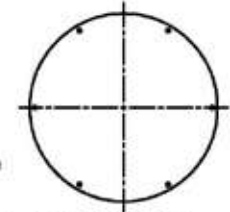
INLET GROMMET
 (Different Sizes and
 Types Available)

- INV ELEV
- ELEV HIGH LEVEL ALARM
- ELEV PUMP #2 ON
- ELEV PUMP #1 ON
- GUIDERAIL
- Sch40 Galvanized
- 304 Stainless Steel
- ELEV PUMP OFF
- ELEV



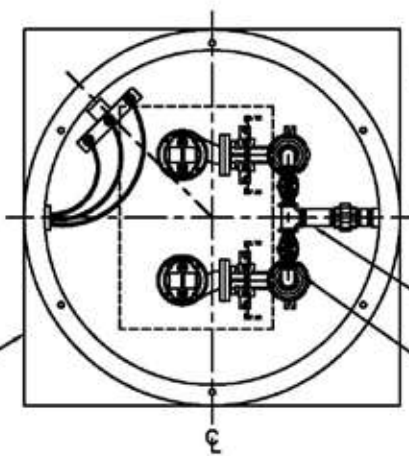
HINGED AND LOCKABLE COVER

- Fiberglass Aluminum Steel



SOLID COVER

- Fiberglass
 Steel



**3/8" 304 STAINLESS STEEL VALVE
 EXTENSION HANDLE**

- 3/16" LIFTING CHAIN**
 304 Stainless Steel
 Galvanized Steel
 * Stainless Steel Cable
 is Available

GATE VALVE

- Brass
 Sch 80 PVC

UNION

- NPT DISCHARGE COUPLING**
 Enameled Steel
 Stainless Steel

BALL CHECK VALVE

- Cast Iron
 Sch80 PVC
 * 3" Systems are
 Provided with Brass
 Swing Check Valve

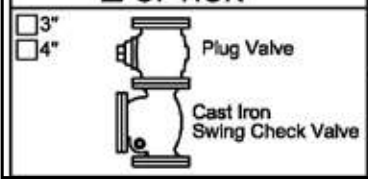
DISCHARGE PIPE

- 304 Stainless Steel
 Sch40 Galvanized Steel
 Sch80 PVC Pipe

SLIDE RAIL SYSTEM

- BAF 3"
 BAF 4"

OPTION



- D-SUB-BAF-_____
 D-SEB-BAF-_____

TITLE / TITRE		FLO FAB	
DUPLX SUBMERSIBLE WITH SLIDE RAIL COUPLING		PRODUCED BY	
FLO FAB		CUSTOMER / CLIENT	
MONTREAL (QC) CANADA TORONTO (ON), CANADA LAKE WORTH (FL), USA WWW.FLOFAB.COM		PART LIST N° / LISTE DE MATERIEL N°	
DRAWN BY / DESINATEUR		DATE / DATE	
M. LYMBURNER		AUGUST 2007	
SCALE / ECHELLE		DRAWING N° / N° DESSIN	
N/A		D-SUB-10101-EN	



Standard for Simplex Submersible Panels

A NEMA 1 enclosure, including a main disconnect switch, one set of HRC fuses for short-circuit protection, one magnetic starter, one transformer with primary and secondary fuses (for system other than 120v), 120v control circuit, provision to connect three N.O. floats (FL1: stop float, FL2: pump start, FL3: high water level), one "Hand Off Auto" selector switch, "Power on", "Pump run", "High water level" pilot lights, audible alarm with silencer and test and dry contact for remote alarm.

NEMA Type 1
General Purpose

To prevent accidental contact with enclosed apparatus. Suitable for application Indoors, where not exposed to unusual service conditions.

NEMA Type 2
Driptight

To prevent accidental contact with enclosed apparatus. Excludes falling moisture or dirt.

NEMA Type 4
Watertight

Designed to exclude water applied in form of hose stream. To protect against steam of water during cleaning operations, etc.

NEMA Type 4X
Corrosion
Resistant

Designed to exclude water supplied in form of hose stream and used in areas where serious corrosion problem exists.

NEMA Type 12
Industrial Use

Excludes dust, lint, fibers and flyings or oil or coolant seepage.

Standard for Simplex Submersible Panels

OPT#	DESCRIPTION
1	Enclosure Eemac/Nema 2 – Indoor – Falling water & light splashing
2	Inner door for tamper proofing any enclosure
3	Enclosure Eemac/Nema 12 – Dust tight
4	Enclosure Eemac/Nema 4 – Outdoor – Protection against hose directed water
4A	Enclosure Eemac/Nema 4X – Same as Item 4 but fibreglass corrosion proof
4B	Enclosure Eemac/Nema 4X – Same as item 4 but stainless steel painted corrosion proof (brushed finish available)
5	Alarm relay for remote indication
6	Alarm block (buzzer-silence selector-pilot light)
6A	Alarm block – as above but with silence push button
7	Motor overload (over current) indication per pump (pilot light)
7A	As above but with dry contact for remote indication
8	Seal leak fault per pump (conductivity relay with pilot light)
8A	As above but with dry contact for remote indication
9	Motor overheat fault indication per pump (pilot light)
9A	As above but with dry contact for remote indication
10	Pilot light for various function
11	Alarm bell
12	Elapsed time meter (Nema 1) per pump
13	Intrinsic safe relay (use when floats or electrodes are located in explosive medium)
14	Pump control using conductivity relay and electrodes
15	Loss of phase fault indication (pilot light) on incoming power (use with 3 phase supply)
17	Globe alarm (25 watt-non flashing-shatter proof)
18	Pump protection with breaker on single phase system - Max. 40 Amps - (branch circuit protection device rated – Type E rating)
19	Heater element + thermostat
22	Installation of capacitor pack in panel (for starting single phase pump)
24	Fault indication (Relay + pilot light)
31	Stop/Start with one float
32	Stop/Start with two floats
35	120V Supply for external load (Specify load)
36	Emergency stop push button
38	Low level indication (pilot light)
38A	Low level indication – shutdown with remote indication
39	Low low level indication (pilot light)
39A	Low low level indication – shut down with remote indication
40	Additional stop-start push button per pump
41	Provision for connection of solenoid
43	Remote start/stop signal
43A	24 Volt start signal
44	Lamp test push button
44A	Push to test push button
46	On delay timer (use to avoid nuisance tripping on certain faults)
47	Off delay timer

SUBMERSIBLES

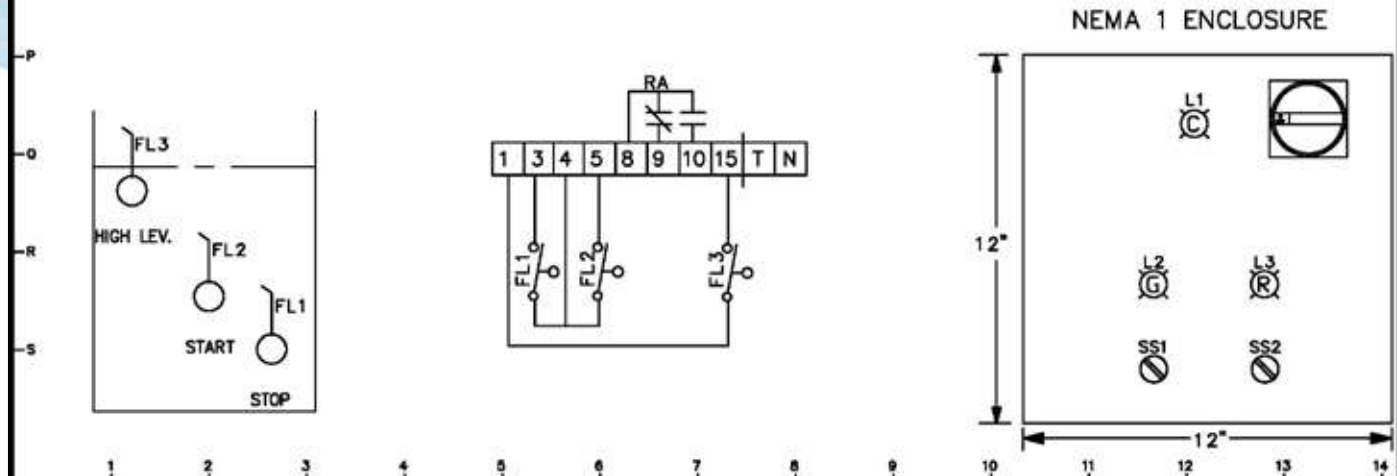
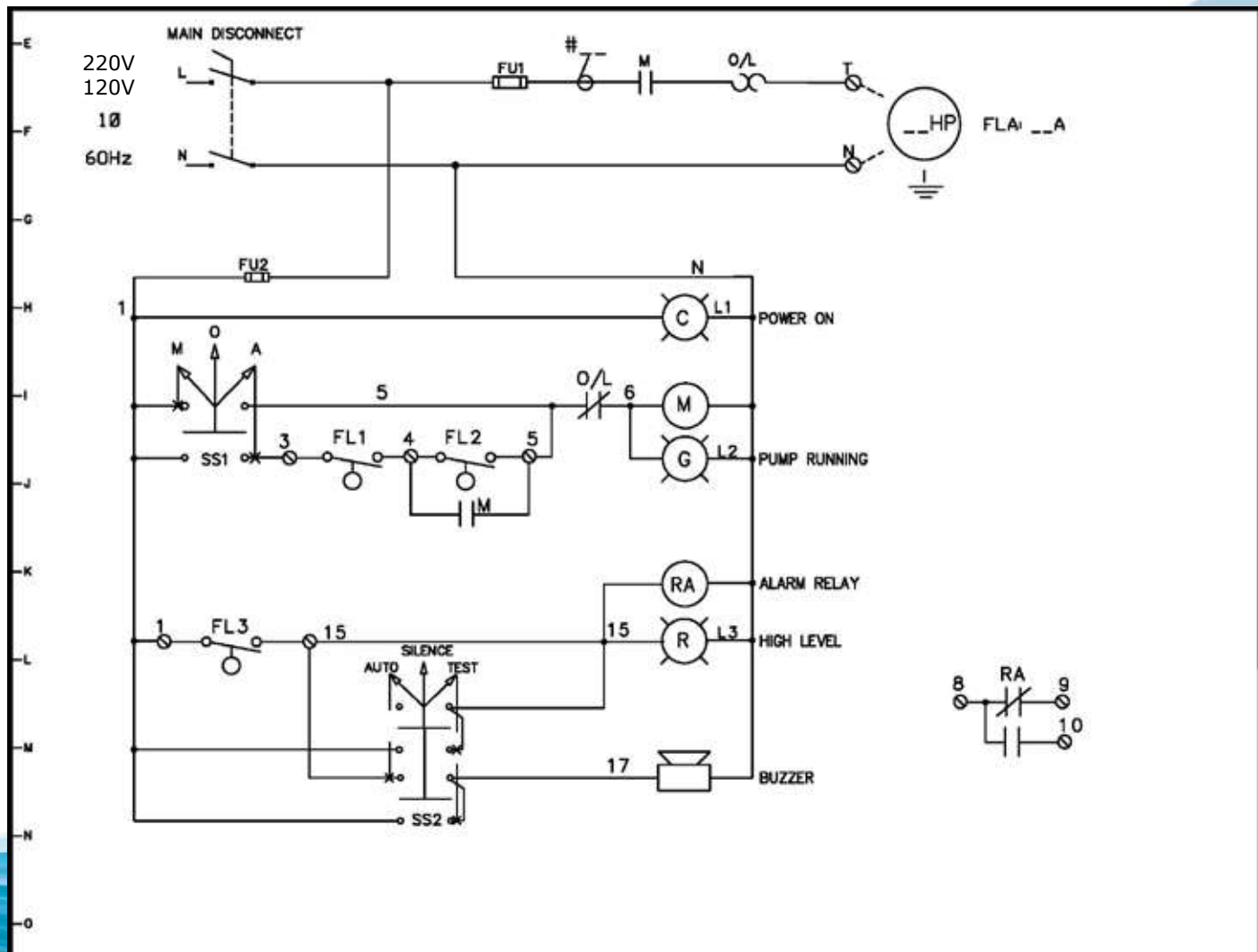
Standard for Simplex Submersible Panels



OPT#	DESCRIPTION
48	Two positions selector
55	Indication only of pump failure to start
60	Float failure alarm
63	Ammeter – CT operated – for one pump
64	Voltmeter for system voltage – Direct read
65	Pump stop indication
67	Fault with latching relay and reset button
68	Remote signal for low of power
69	Current detection relay per pump (to confirm pump running)
70	Loss of phase and phase reversal detection and indication (three phase system)
72	Timer for minimum run
73	Timer for maximum run
74	General alarm indication with relay
77	Lightning arrestor
78	Extra for flashing function on pilot light or globe
79	Ground fault indication with pilot light (no stopping of pump)
80	Duplex receptacle – 120 V – 100Watts
81	Motor circuit interrupter (instead of fuses) – Max. 40 Amps – Rated as branch circuit protection device – Type E
81A	Moulded case circuit protector (replaces fuses)
82	Repeat cycle timer
84	Telephone dialler with battery back-up
85	Push button for misc. sequence (describe sequence)
86	Alarm high level
87	Pump start counter
88	Variable freq. drive for variable speed pumps
89	Line or load reactor for above
91	Stop pump on low level in manual mode
93	Horn
95	Auto reset of latched faults on resumption of power
99	Blown fuse indication for single phase system
101A	Circuit breaker protection for primary and secondary of transformer
101B	Circuit breaker protection for secondary of transformer
103	Soft start for reduced voltage starting
105	Forced ventilation (Louvre-Fan-Thermostat)
106	Reversing starter
108	Through the door overload reset buttons
109	Tank alert
112	U/L approval of panel
113	Provision for padlock on enclosure



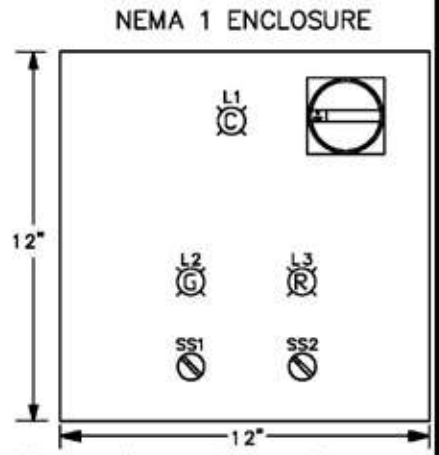
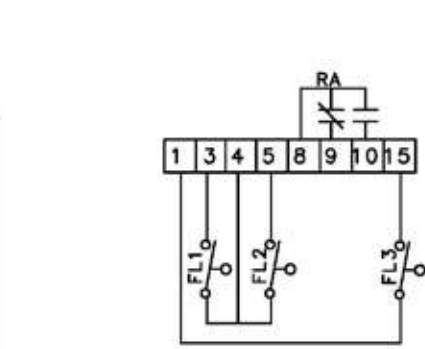
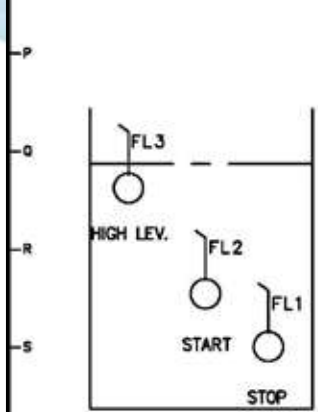
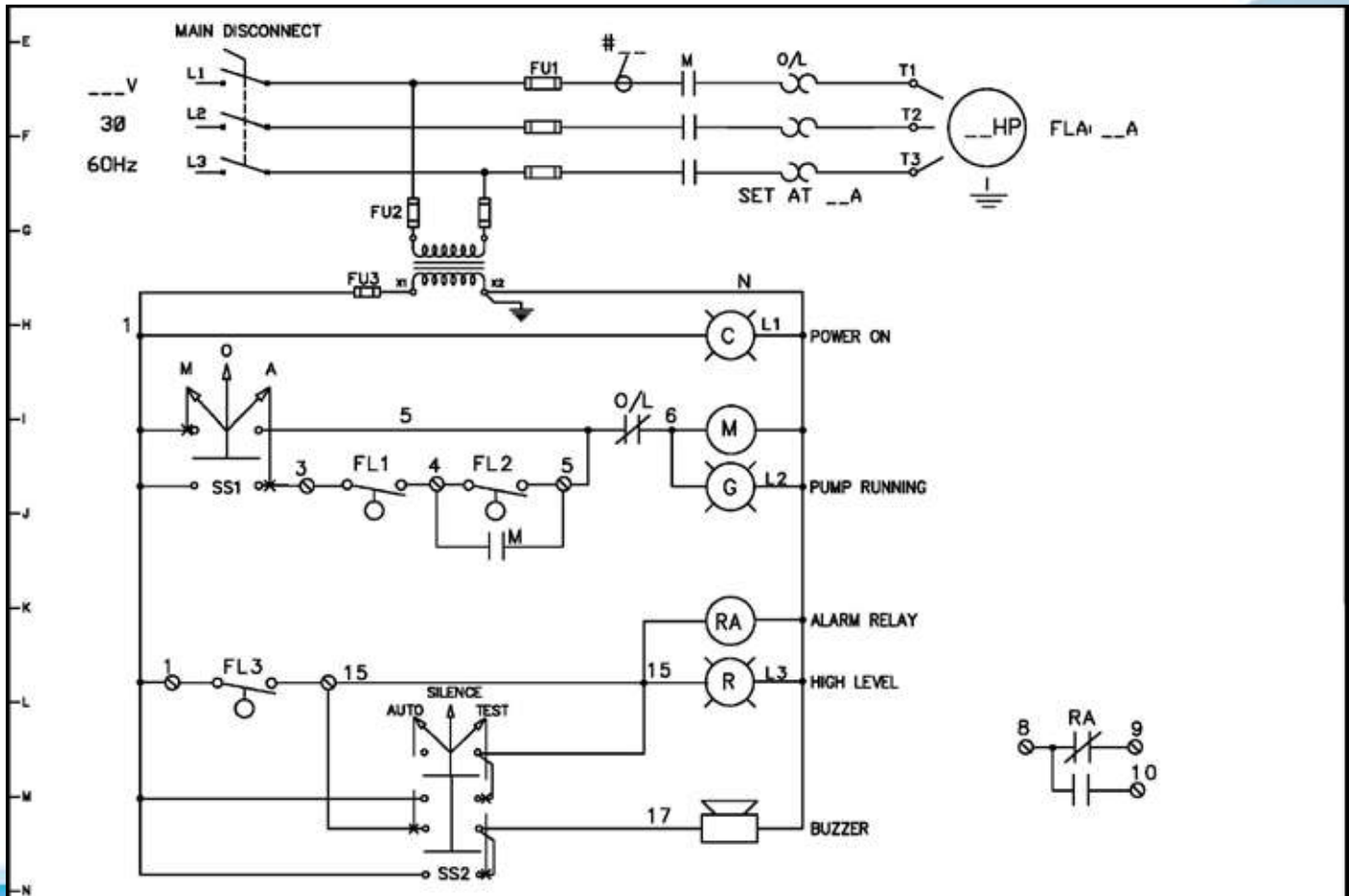
SIMPLEX SUBMERSIBLES



REMARKS: REMARQUES :			TITLE: SIMPLEX		REV.	DESCRIPTION
DRAWN BY: S. DeMONTIGNY			PROJECT:		DRAWING #: S. D. 8506-A	DPT. #: 00
CONTROLLED BY:		DATE: 12-05-2000		PAGE 1 OF 1		



SIMPLEX SUBMERSIBLES



REMARKS: REMARQUES :										REV.		DESCRIPTION	
										TITLE:		SIMPLEX	
DRAWN BY: S. DeMONTIGNY										CONTROLLED BY:		DATE: 12-05-2000	
PROJECT:										DRAWING #:		S. D. 8532-A	
										DPT.:		00	
										PAGE 1		DF 1	



Standard for Duplex Submersible Panels

A NEMA 1 enclosure, including a main disconnect switch, two sets of HRC fuses for short-circuit protection, two magnetic starters, one transformer with primary and secondary fuses (for system other than 120v), 120v control circuit, alternating circuit, provision to connect four N.O. floats (FL1: stop float, FL2: lead pump start, FL3: lag pump start, FL4: high water level), automatic transfer to lag pump in case of lead pump overload, two "Hand Off Auto" selectors switches, "Power on", "Pump 1 run", "Pump 2 run", "High water level", pilot lights, audible alarm with silencer and test and dry contact for remote alarm.

NEMA Type 1
General Purpose

To prevent accidental contact with enclosed apparatus. Suitable for application Indoors, where not exposed to unusual service conditions.

NEMA Type 2
Driptight

To prevent accidental contact with enclosed apparatus. Excludes falling moisture or dirt.

NEMA Type 4
Watertight

Designed to exclude water applied in form of hose stream. To protect against steam of water during cleaning operations, etc.

NEMA Type 4X
Corrosion
Resistant

Designed to exclude water supplied in form of hose stream and used in areas where serious corrosion problem exists.

NEMA Type 12
Industrial Use

Excludes dust, lint, fibers and flyings or oil or coolant seepage.

SUBMERSIBLES



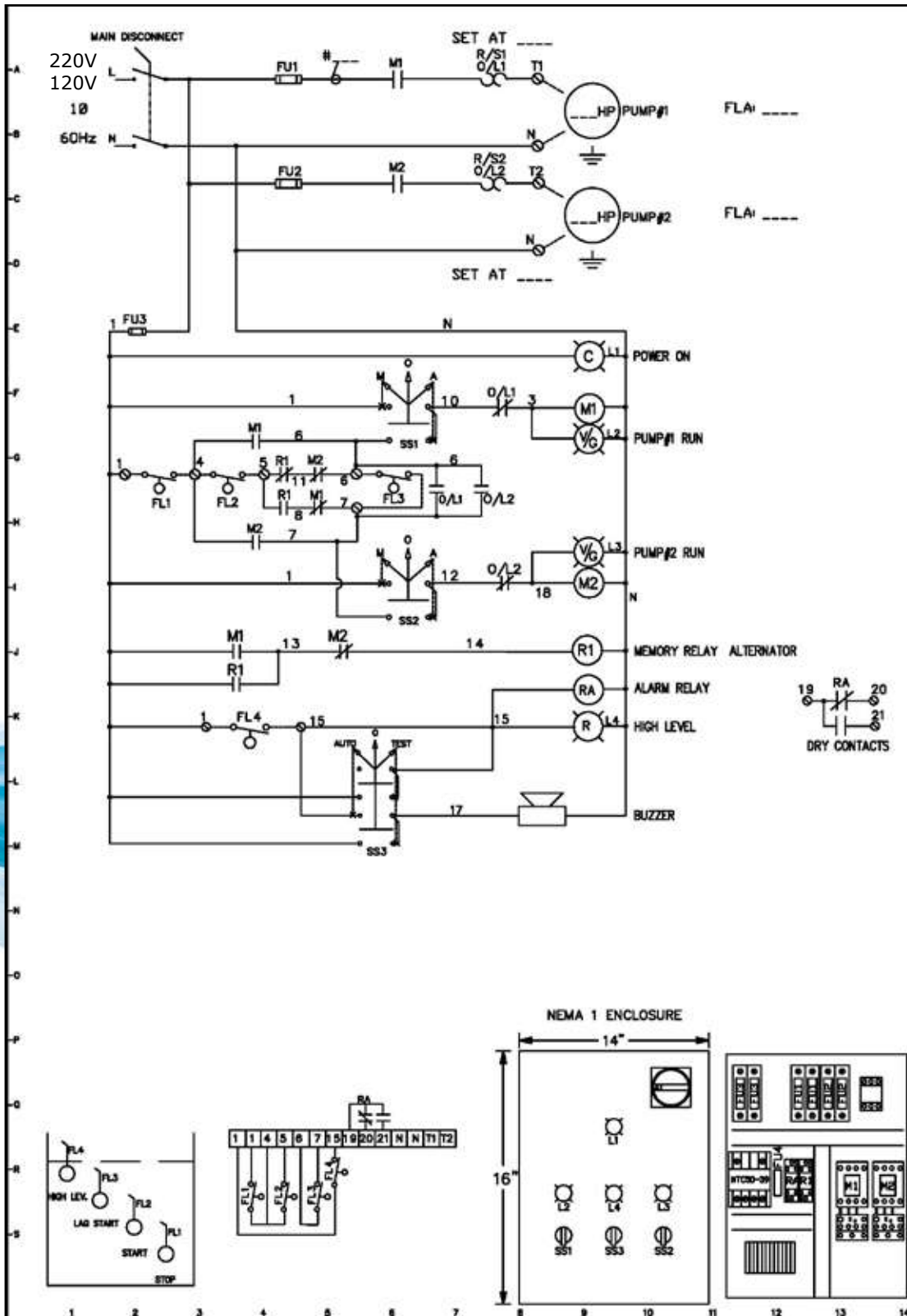
Standard for Duplex Submersible Panels

OPT#	DESCRIPTION
3	Enclosure Eemac/Nema 12 – Dust tight
4	Enclosure Eemac/Nema 4 – Outdoor – Protection against hose directed water
4A	Enclosure Eemac/Nema 4X – Same as Item 4 but fibreglass corrosion proof
4B	Enclosure Eemac/Nema 4X – Same as item 4 but stainless steel painted corrosion proof (brushed finish available)
5	Alarm relay for remote indication
6	Alarm block (buzzer-silence selector-pilot light)
6A	Alarm block – as above but with silence push button
7	Motor overload (over current) indication per pump (pilot light)
7A	As above but with dry contact for remote indication
8	Seal leak fault per pump (conductivity relay with pilot light)
8A	As above but with dry contact for remote indication
9	Motor overheat fault indication per pump (pilot light)
9A	As above but with dry contact for remote indication
10	Pilot light for various function
11	Alarm bell
12	Elapsed time meter (Nema 1) per pump
13	Intrinsic safe relay (use when floats or electrodes are located in explosive medium)
14	Pump control using conductivity relay and electrodes
15	Loss of phase fault indication (pilot light) on incoming power (use with 3 phase supply)
17	Globe alarm (25 watt-non flashing-shatter proof)
18	Pump protection with breaker on single phase system - Max. 40 Amps - (branch circuit protection device rated – Type E rating)
19	Heater element + thermostat
20	Time clock (use for alternating pumps – Specify 12 hours/24 hours/weekly)
21	Main disconnect
21A	Disconnect for each pump controlled by panel
22	Installation of capacitor pack in panel (for starting single phase pumps)
23	Alternating relay (Electro-Mech)
24	Fault indication (Relay + pilot light)
25	Alternating relay - Electronic
26	Alternator - Mechanical
27	Programmable controller
31	Stop/Start with one float
32	Stop/Start with two floats
35	120V Supply for external load (Specify load)
36	Emergency stop push button
38	Low level indication (pilot light)
38A	Low level indication – shutdown with remote indication
39	Low low level indication (pilot light)
39A	Low low level indication – shut down with remote indication
40	Additional stop-start push button per pump
41	Provision for connection of solenoid
43	Remote start/stop signal
43A	24 Volt start signal
44	Lamp test push button
44A	Push to test push button



Standard for Duplex Submersible Panels

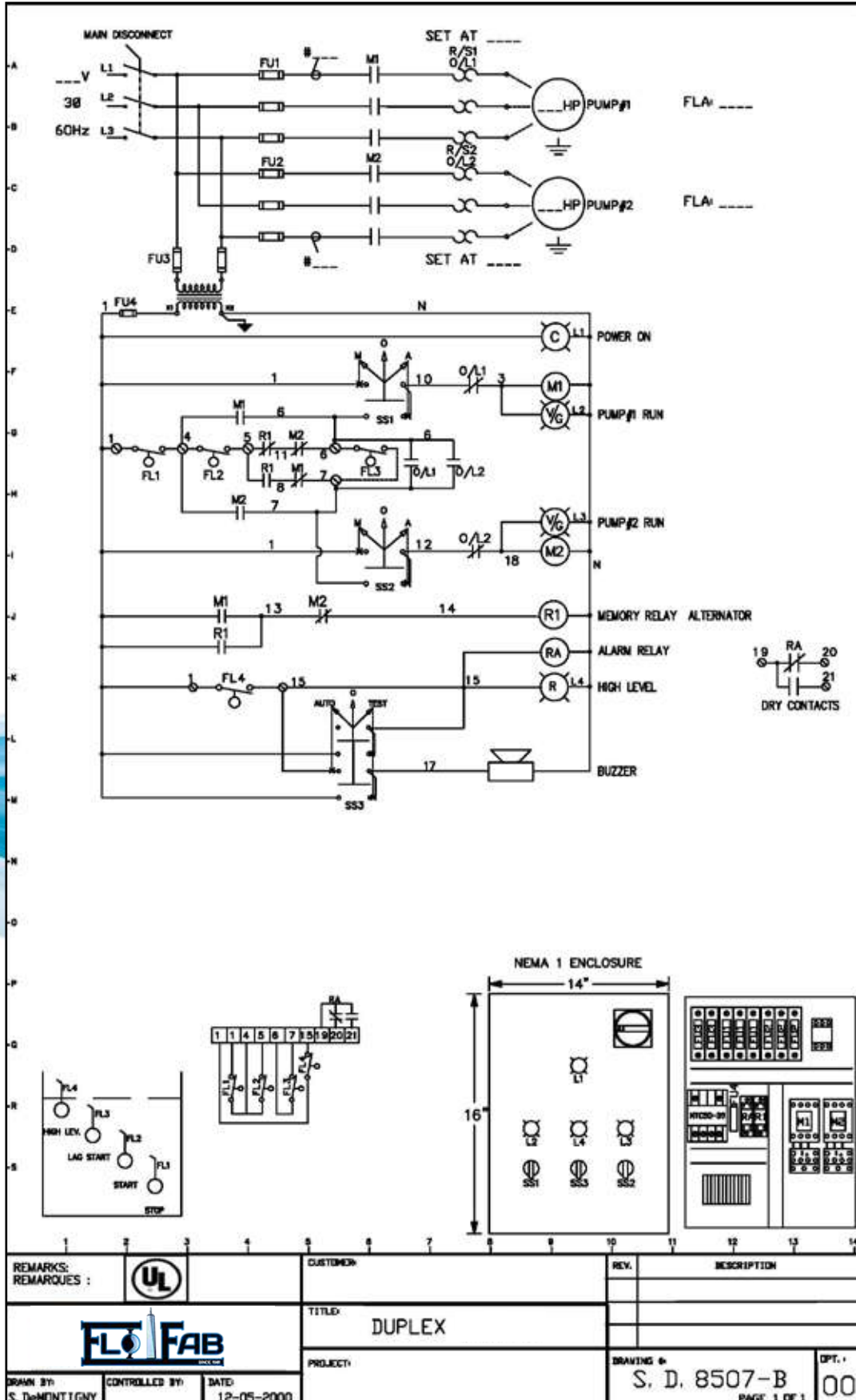
OPT#	DESCRIPTION
47	Off delay timer
48	Two positions selector
55	Indication only of pump failure to start
60	Float failure alarm
62	Lead pump selector switch
63	Ammeter – CT operated – for two pumps
64	Voltmeter for system voltage – Direct read
65	Pump stop indication
67	Fault with latching relay and reset button
68	Remote signal for low of power
69	Current detection relay per pump (to confirm pump running)
70	Loss of phase and phase reversal detection and indication (three phase system)
72	Timer for minimum run
73	Timer for maximum run
74	General alarm indication with relay
75	Lag pump demand indication (pilot light)
77	Lightning arrestor
78	Extra for flashing function on pilot light or globe
79	Ground fault indication with pilot light (no stopping of pump)
80	Duplex receptacle – 120 V – 100Watts
81	Motor circuit interruptor (instead of fuses) – Max. 40 Amps – Rated as branch circuit protection device – Type E
81A	Moulded case circuit protector (replaces fuses)
82	Repeat cycle timer
84	Telephone dialler with battery back-up
85	Push button for misc. sequence (describe sequence)
86	Alarm high level
86A	Start lag pump on high level
87	Pump start counter
88	Variable freq. drive for variable speed pumps
89	Line or load reactor for above
91	Stop pump on low level in manual mode
93	Horn
95	Auto reset of latched faults on resumption of power
99	Blown fuse indication for single phase system
100	Incoming power from two sources with one control transformer
100A	Incoming power from two sources with two control transformers
101A	Circuit breaker protection for primary and secondary of transformer
101B	Circuit breaker protection for secondary of transformer
103	Soft start for reduced voltage starting
104	Mini-Cas II for seal and temperature fault on Flyght pumps (one per pump)
105	Forced ventilation (Louvre-Fan-Thermostat)
106	Reversing starter
108	Through the door overload reset buttons
109	Tank alert
112	U/L approval of panel
113	Provision for padlock on enclosure



REMARKS: REMARQUES :		CUSTOMER		REV.	DESCRIPTION
		TITLE: DUPLEX			
DRAWN BY: S. DeMONTIGNY		CONTROLLED BY:		DATE: 12-05-2000	PROJECT:
				DRAWING #: S. D. 8506-B	OPT. #: 00
					PAGE 1 OF 1



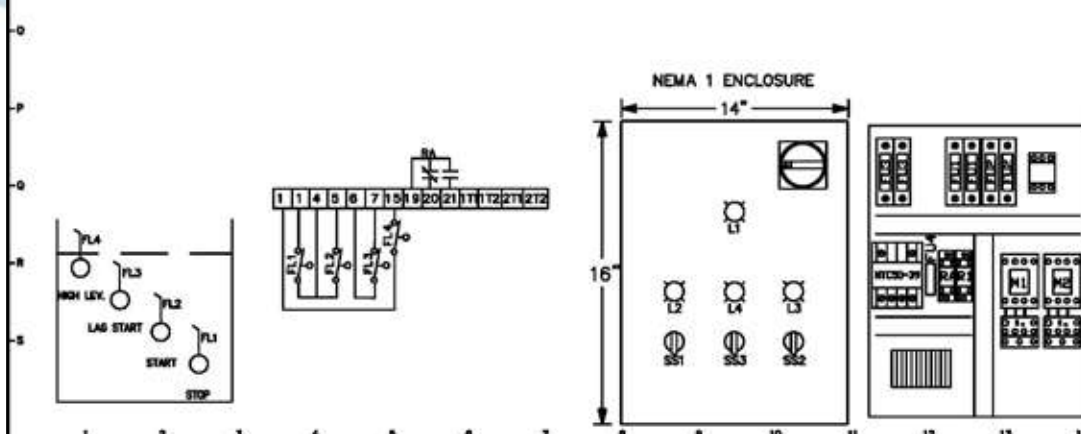
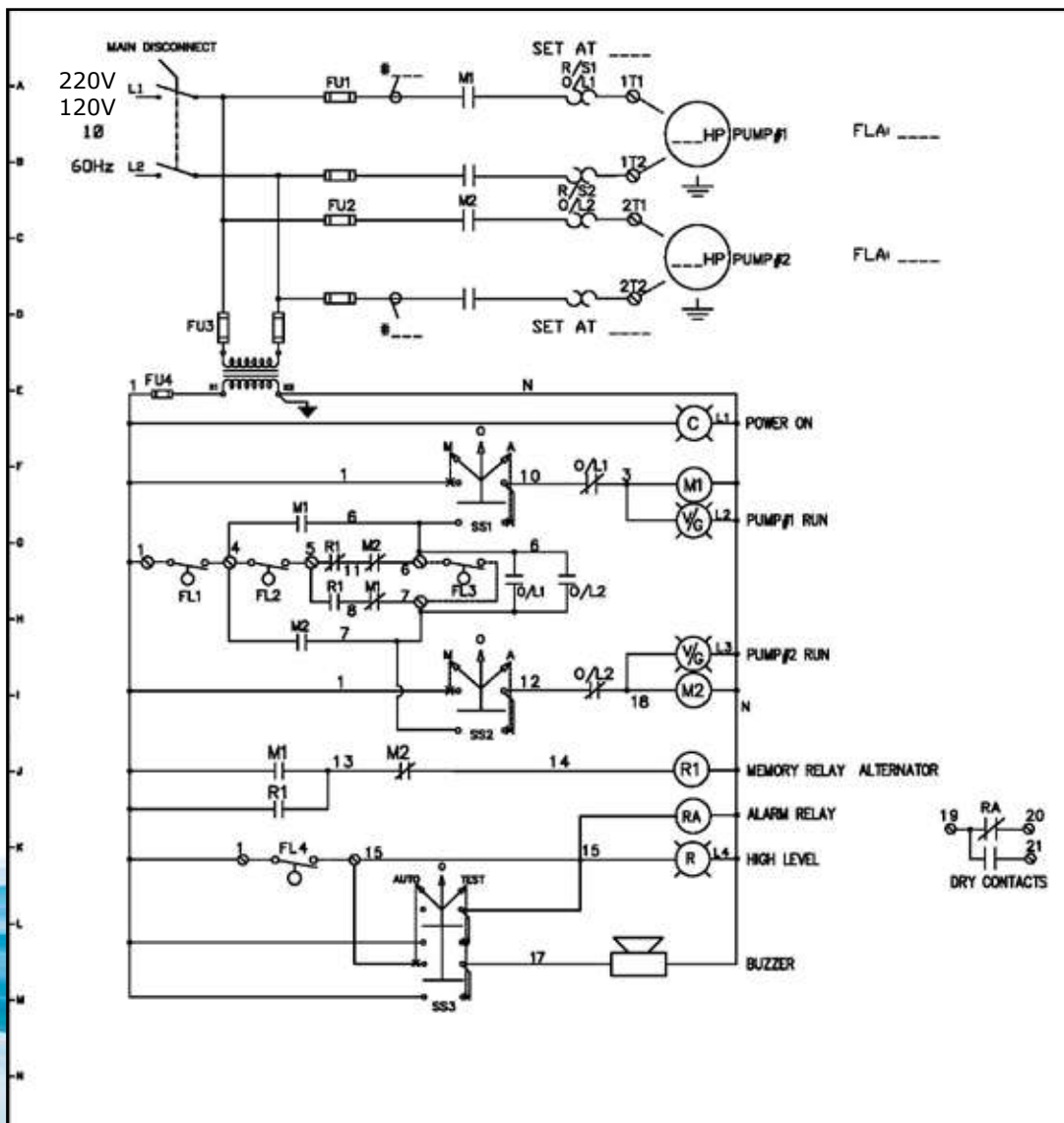
DUPLEX SUBMERSIBLE



REMARKS: REMARQUES :		CUSTOMER:		REV.	DESCRIPTION
		TITLE: DUPLEX			
		PROJECT:		DRAWING #: S. D. 8507-B	OPT.: 00
DRAWN BY: S. DeMONTIGNY	CONTROLLED BY:	DATE: 12-05-2000	PAGE 1 OF 1		



DUPLEX SUBMERSIBLE



REMARKS: REMARQUES :			CUSTOMER:	REV.	DESCRIPTION
			TITLE: DUPLEX		
DRAWN BY: S. DeMENTIGNY	CONTROLLED BY:	DATE: 12-05-2000	PROJECT:	DRAWING #: S. D. 8511-B	OPT. #: 00
				PAGE 1 OF 1	

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