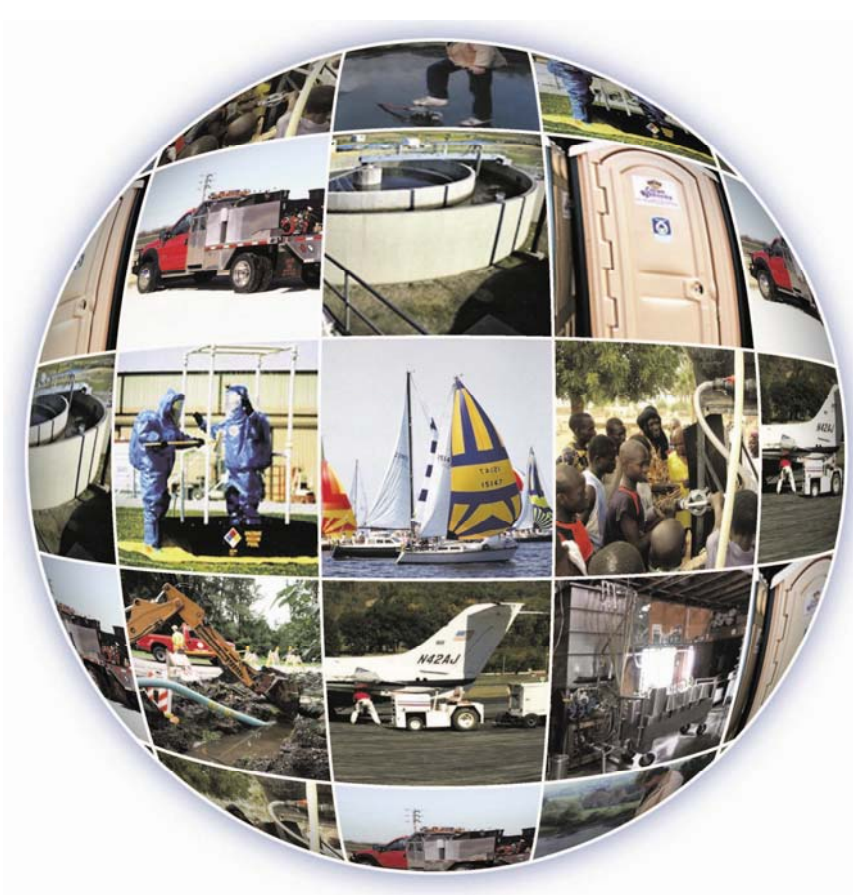




GUZZLER[®] DIAPHRAGM PUMPS

FOR THE **PORTABLE SANITATION** INDUSTRY



Reliable Products for a World of Industries

OEM CATALOG

Guzzler Pumps for the Portable Sanitation Industry

QUALITY GUZZLER PUMPS

Bosworth’s line of hand and foot-operated Guzzler diaphragm pumps are at work in portable sanitation systems around the world. Designed for reliability and manufactured from quality components under an ISO-certified quality control system, Guzzler pumps provide reliable service even in the toughest environments for portable restroom and handwashing station use.

Guzzler pumps are made from a rugged Acetal resin polymer that resists aging and cracking. Diaphragms and valves are made of mechanically-tough Buna-Nitrile elastomers, and the spring components of Guzzler foot pumps are manufactured from 302 grade stainless steel.



Quality design, quality components, quality manufacturing, all backed by Bosworth’s quality customer support. That’s why you’ll often hear our customers say, *“If you haven’t got a Guzzler, you still need a pump.”*

PRODUCT OPTIONS TO MEET YOUR REQUIREMENTS



Guzzler pumps are available with a variety of styles and configurations, and these options give product designers a wide range of possibilities to accommodate unique engineering and product design requirements. Guzzler foot pumps are available with three different body styles, eleven different inlet and outlet port sizes that can be separately specified, along with three different spring strengths, three different valve types and over six different diaphragm materials to choose from. Both foot and hand-operated pumps are available as well. Additionally, CAD models are available for all pump models.

Designing your product around a Guzzler has never been easier.



The Bosworth Company has been designing, manufacturing and selling its trademark line of Guzzler pumps since 1982. We are family-owned business that values and supports its customers. You can depend on us and our products. Our portable sanitation pumps are backed by a 5-year warranty. Our customer service is second to none. When you choose Bosworth pumps for your products, your customers will know you’ve chosen the best.

GH-M400D FLUSH-MOUNT GUZZLER HAND PUMP



- Easy back-and-forth pumping action
- Mounts below floor or behind wall; only attractive cover plate and handle are visible.
 - * Maximum deck/wall thickness: 3/4 in (1.9 cm)
- Rugged, aluminum handle



Performance

Flow Rate	Per minute ¹ : 10 Gal (37.9L)
	Per stroke: 0.44 Qt (0.42L)
Max Lift	12 ft (3.7 m)
	22 ft (6.7 m) with check valve
Max Head	30 ft (9.1 m)
Max Pressure	15 psi (1.0 kg/cm ²)
Max Service Temp	212°F (100°C)

¹: at 90 strokes/min

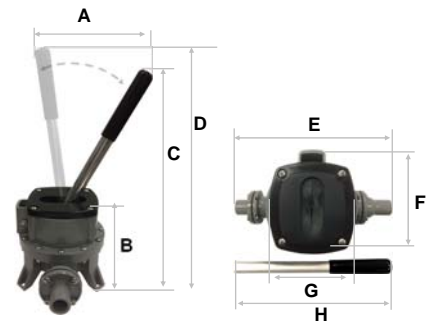
Valve Options



Flapper — General purpose liquid transfer.



Duckbill — For dirty liquid and sewage. Permits pump mounting in any position.



	in	cm
A	9-1/2	24.1
B	4-1/2	11.4
C	12	30.5
D	13-7/8	35.2
E	10-1/4	26.0
F	5	12.7
G	4-1/2	11.4
H	10-1/4	26.0
J	3-1/4	8.3
K	2-7/8	7.3
Mounting Holes	1/4	0.64
Weight	2.45 lb	1.11 kg

Guzzler Foot Pumps

GF-0400D GUZZLER FOOT PUMP



- Durable, lightweight acetal plastic
- Internal stainless steel spring activates suction stroke
- * Available with different strength internal stainless steel springs
- Optional rubber boot cover

Performance

Flow Rate	Per minute ¹ : 2.7 Gal (10.3L)
	Per stroke: 0.18 Qt (0.17L)
Max Head	15 ft (4.6 m)
Max Lift	3 ft (0.9 m) (LW spring) 6 ft (1.8 m) (STD spring) 10 ft (3.1 m) (HD spring)
Max Pressure	6.5 psi (0.4 kg/cm ²) ¹
Max. Service Temp	212°F (100°C)

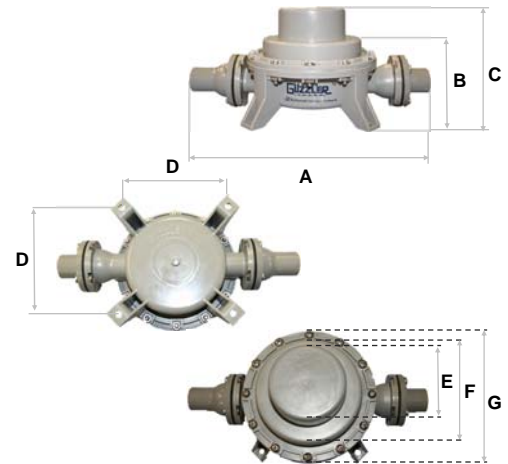
¹: with STD spring; 0 Lift

Stainless Steel Spring Options

	Lightweight (LW)	— 20 lb/in
	Standard (STD)	— 35 lb/in
	Heavy Duty (HD)	— 55 lb/in



Shown with optional rubber boot



	in	cm
A	10-1/4	26.0
B	3-1/4	8.3
C	4-7/16	11.3
D	4 5/16	11.0
E	2-13/16	7.1
F	4-1/8	10.5
G	5-1/2	14.0
Mounting Holes	1/4	0.64
Bolt Circle Diam.	6-1/8	15.6
Weight	1.75 lb	0.79 kg

GF-0450D GUZZLER FOOT PUMP

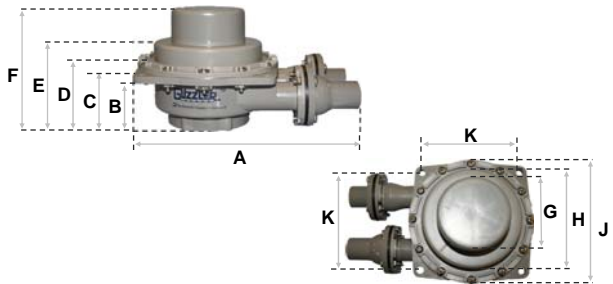


- Durable, lightweight acetal plastic
- Space-saving same-side ports for close-fitting installations
- Internal stainless steel spring activates suction stroke
- * Available with different strength internal stainless steel springs
- Optional rubber boot


Performance

Flow Rate	Per minute ¹ : 2.7 Gal (10.3L)
	Per stroke: 0.18 Qt (0.17L)
Max Head	15 ft (4.6 m)
Max Lift	3 ft (0.9 m) (LW spring)
	6 ft (1.8 m) (STD spring)
	10 ft (3.1 m) (HD spring)
Max Pressure	6.5 psi (0.4 kg/cm ²) ¹
Max. Service Temp	212°F (100°C)

¹: with STD spring; 0 Lift



Stainless Steel Spring Options

	Lightweight (LW)	— 20 lb/in
	Standard (STD)	— 35 lb/in
	Heavy Duty (HD)	— 55 lb/in

Valves



Duckbill — For dirty liquid and sewage. Permits pump mounting in any position.

	in	cm
A	8-1/2	21.6
B	2	5.1
C	2-1/4	5.7
D	2-1/2	6.4
E	3-1/8	7.9
F	4-7/16	11.3
G	2-13/16	7.1
H	4-1/8	10.5
J	5-1/2	14.0
K	4-5/16	11.0
Mounting Holes	1/4	0.64
Bolt Circle Diam.	6-1/8	15.6
Weight	1.85 lb	0.84 kg

Guzzler Foot Pumps

GF-1400D GUZZLER FOOT PUMP



- Durable, lightweight acetal plastic
- Compact design: 5.5 in (13 cm) tall
- Ports exit from bottom of pump body
- Available with barbed 90° elbow or straight smooth wall flanges
- Available with different strength internal stainless steel springs to actuate intake stroke
- Optional rubber boot

Performance

Flow Rate	Per minute ¹ : 2.7 Gal (10.3L)
	Per stroke: 0.18 Qt (0.17L)
Max Head	15 ft (4.6 m)
Max Lift	3 ft (0.9 m) (LW spring)
	6 ft (1.8 m) (STD spring)
	10 ft (3.1 m) (HD spring)
Max Pressure	6.5 psi (0.4 kg/cm ²) ¹
Max. Service Temp	212°F (100°C)

¹: with STD spring; 0 Lift



Shown with optional straight smooth-wall flanges



Shown with optional rubber boot

Valves



Umbrella — Most efficient for pumping clean liquid. Also used for air and vacuum service.

Stainless Steel Spring Options

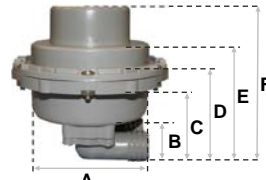


Lightweight (LW)	— 20 lb/in
Standard (STD)	— 35 lb/in
Heavy Duty (HD)	— 55 lb/in

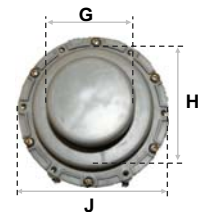
Optional Base Port Configurations



Bottom view showing different possible configurations of 90° barbed elbow ports



Equipped with elbow flanges



	in	cm
A	4-1/8	15.6
B	1-3/8	3.5
C	2-9/16	6.5
D	3-3/8	8.6
E	4	10.2
F	5-1/4	13.3
G	2-13/16	7.1
H	4-1/8	10.5
J	5-1/2	14.0
Mounting Holes	1/4	0.64
Bolt Circle Diam.	5-1/8	13.0
Weight (elbow flanges)	1.55 lb	0.70 kg
Weight (straight flang-	1.50 lb	0.68 kg

GF-0250D “GUZZLER JR” FOOT PUMP FOR HANDWASH STATIONS



- For use in portable handwash stations
- Available with standard or heavy-duty stainless steel spring to activate suction stroke
- Optional barbed end adapters or Quick-connect TrueSeal fittings for ease of installation
- Angled pump face for ease of operation from standing position



Performance

Flow Rate	Per minute ¹ : 1.3 Gal (5.8L)
	Per stroke: 2.8 oz (83 mL)
Max Head	12 ft (3.6 m)
Max Lift	2.5 ft (0.76 m) (Std spring)
	4.2 ft (1.3 m) (HD spring)
Max Pressure	7 psi (0.4 kg/cm ²)
Max. Service Temp	140°F (60°C)

¹: with std spring

Stainless Steel Spring Options

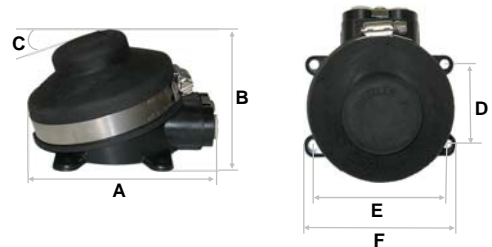


- Standard (Std) — 18 lb/in
- Heavy Duty — 25 lb/in

Valves



Umbrella — Most efficient for pumping clean liquid. Also used for air and vacuum service.



	in	cm
A	4-3/8	11.1
B	2-3/4	7.0
C	15°	
D	2-1/8	5.4
E	3-1/2	8.9
F	4	10.2
Mounting Holes	1/4	0.64
Weight	0.55 lb	0.25 kg

End Connectors



Front view of pump with Quick Connect TrueSeal fittings for ease of use with 3/8" hose



Top view of pump with barbed end fittings available for a range of hose sizes

Guzzler Foot Lever Pumps

GL-0400D GUZZLER FOOT LEVER PUMP



- Rugged, aluminum foot lever for either hand or foot operation
- Tough, lightweight acetal plastic body and flanges
- Available with standard or heavy-duty stainless steel spring to activate intake stroke


Performance

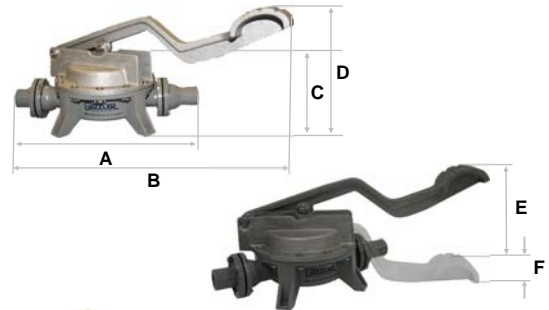
Flow Rate	Per minute ¹ : 2.7 Gal (10.3L)
	Per stroke: 0.18 Qt (0.17L)
Max Head	30 ft (9.1 m)
Max Lift	3 ft (0.9 m) (LW spring)
	6 ft (1.8 m) (STD spring)
	10 ft (3.1 m) (HD spring)
	21 ft (6.4 m) (XHD spring)
Max Pressure	15 psi (1.0 kg/cm ²)
Max. Service Temp	212°F (100°C)

¹: with STD spring; 0 Lift



Stainless Steel Spring Options

	Lightweight (LW)	— 20 lb/in
	Standard (STD)	— 35 lb/in
	Heavy Duty (HD)	— 55 lb/in



Valve Options

Flapper — General purpose liquid transfer



Duckbill — For dirty liquid and sewage. Permits mounting in any position.



	in	cm
A	10-1/4	26.0
B	14-1/2	36.8
C	4	10.2
D	6-1/4	15.9
E	5	12.7
F	1-1/4	3.2
G	4-5/16	11.0
Mounting Holes	1/4	0.64
Bolt Circle Diam.	6-1/8	15.6
Weight	2.85 lb	1.29 kg

Guzzler Pump Service Kits

Pump **Service Kits** help keep your Guzzler pumping like new.

Includes replacement diaphragm and valves

Service Kit	Model #	Description	Compatible with
<p data-bbox="250 512 581 541">Flapper Valve Service Kit</p> 	SK-N4N0X-11	Service Kit for '400 Series "D" pumps. Contains Buna-N diaphragm and two flapper valves.	GF-0400D, GH-M400D, GL-0400D
<p data-bbox="250 819 581 848">Duckbill Valve Service Kit</p> 	SK-N4N0X-61	Service Kit for '400 Series pumps. Contains Buna-N diaphragm and two duckbill valves.	GF-0400D, GH-M400D, GL-0400D
<p data-bbox="250 1205 581 1234">Umbrella Valve Service Kit</p> 	SK-1400D-71	Service Kit for '1400 Series "N" pumps. Contains Buna-N diaphragm and two silicone umbrella valves	GF-1400D

PVC VINYL WIRE-REINFORCED HOSE



- Lightweight, flexible
- Good chemical resistance
- Available in 3/4", 1", 1-1/2" and 2" ID
- Wire-reinforced to avoid kinking at bends

* Supports up to 29 in Hg vacuum

Specifications

Temperature Range	-10°F to 160° F (-23°C to 71°C)
Diameter Range	0.75 in to 2.00 in internal diameter (ID)
I.D. Tolerance	0.00 to +0.125 in
Standard Color	Gray
End Finish	Plain cut (cuffs available)

Dimensions

Size (Inside Dimension) (in)	Approximate Weight (lbs/ft)	Minimum Centerline Bend Radius (in)	Compression Ratio	Maximum Recommended Negative Pressure (in HG)	Maximum Recommended Positive Pressure (psi)
0.75	0.11	0.875	1.6:1	29	15
1.00	0.15	1.000	1.6:1	29	15
1.25	0.18	1.250	1.6:1	29	15
1.50	0.23	1.625	1.6:1	29	15
2.00	0.35	2.300	1.6:1	29	15

Note: Technical data based on testing 2 ft. straight length of hose at 72° F.

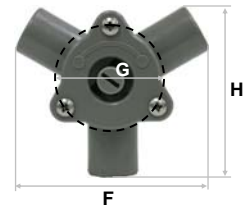
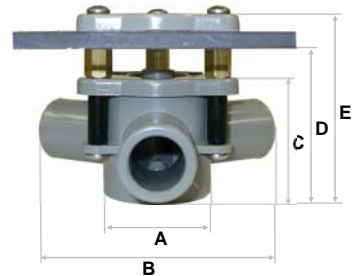
SEA-LECT YV-194D-F SLOT-ACTIVATED Y-VALVE



- 3-way valve to divert water from holding tank to recirculate
- Convenient, easy operation using standard screwdriver
- Flush-mounted for low-profile installation
- Max deck/wall thickness: 1/4 in with standard (5/8 in) mounting screws
- Full port opening
- Supports either 2 or 3 flow-path mode
- Durable, lightweight acetal plastic



Convenient and easy control using a screwdriver inserted into the valve stem to open and close the Y-valve ports.



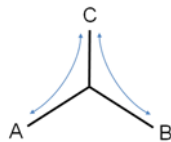
Performance

Max Pressure	40 psi (2.8 kg/cm ²)
Max Service Temp	212°F (100°C)

Optional 2-Way or 3-Way Flow Mode

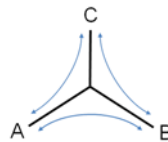


Easily removable travel stop ring converts from 2 flow-path mode to 3 flow-path mode



2 Flow-Path Mode

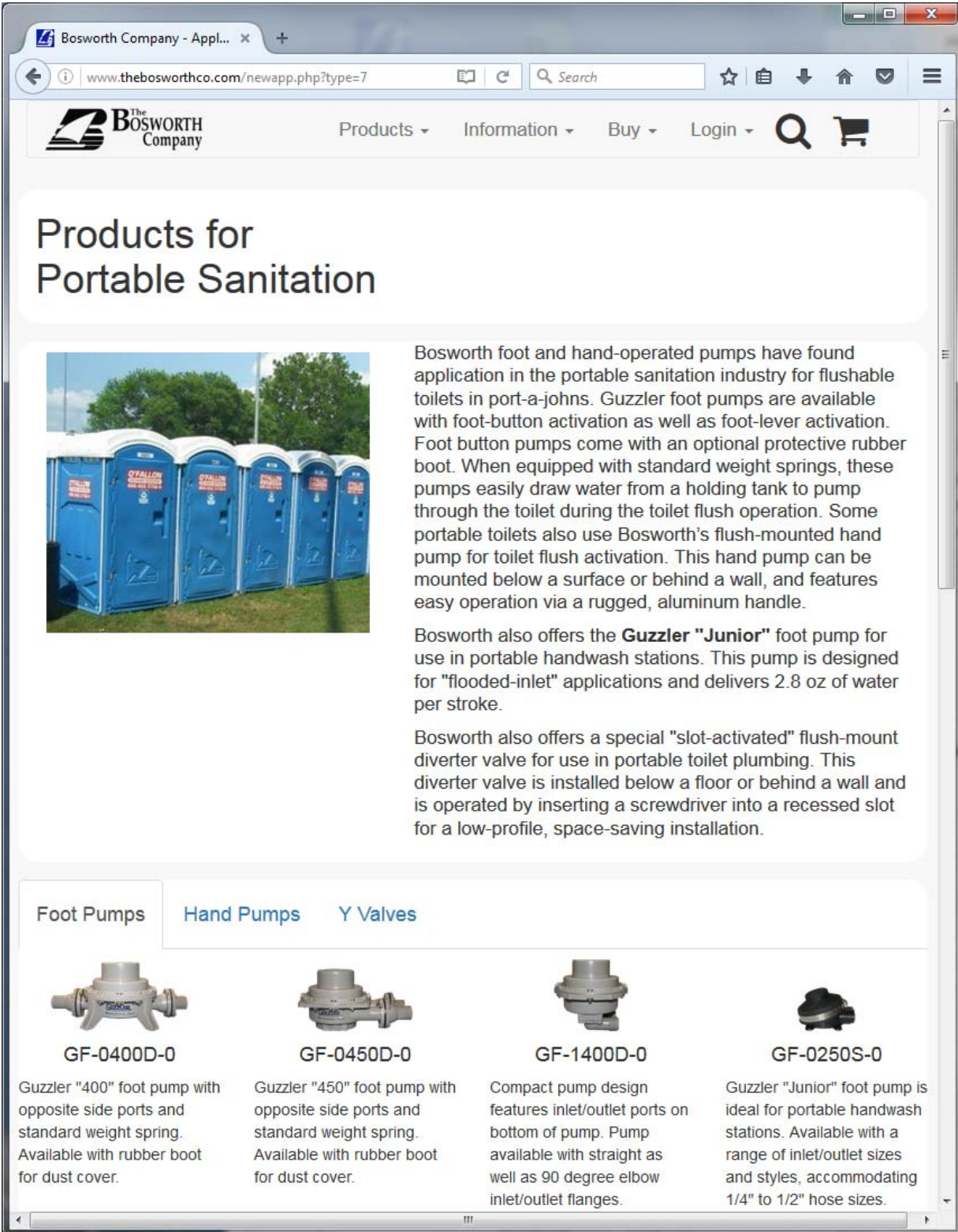
Flow path A-to-C or B-to-C



3 Flow-Path Mode

Flow path A-to-C, B-to-C or A-to-B

	in	cm
A	1-3/4	4.4
B	4	10.2
C	2-5/8	6.7
D	2-3/8	6.0
E	2-15/16	7.5
F	4	10.2
(Bolt Circle Diam.) G	1-3/4	4.4
H	3-9/16	9.0
Weight	0.45 lb	0.20 kg



The screenshot shows a web browser window displaying the Bosworth Company website. The page title is "Products for Portable Sanitation". It features a navigation menu with "Products", "Information", "Buy", and "Login" options. A search bar and a shopping cart icon are also present. The main content area includes a photograph of a row of blue portable toilets. Below the photo, there are three columns of text describing different types of pumps: foot pumps, hand pumps, and Y valves. At the bottom, there are four product images with their respective model numbers and descriptions.





Products for Portable Sanitation

Bosworth foot and hand-operated pumps have found application in the portable sanitation industry for flushable toilets in port-a-johns. Guzzler foot pumps are available with foot-button activation as well as foot-lever activation. Foot button pumps come with an optional protective rubber boot. When equipped with standard weight springs, these pumps easily draw water from a holding tank to pump through the toilet during the toilet flush operation. Some portable toilets also use Bosworth's flush-mounted hand pump for toilet flush activation. This hand pump can be mounted below a surface or behind a wall, and features easy operation via a rugged, aluminum handle.

Bosworth also offers the **Guzzler "Junior"** foot pump for use in portable handwash stations. This pump is designed for "flooded-inlet" applications and delivers 2.8 oz of water per stroke.

Bosworth also offers a special "slot-activated" flush-mount diverter valve for use in portable toilet plumbing. This diverter valve is installed below a floor or behind a wall and is operated by inserting a screwdriver into a recessed slot for a low-profile, space-saving installation.

Foot Pumps **Hand Pumps** **Y Valves**

 <p>GF-0400D-0</p> <p>Guzzler "400" foot pump with opposite side ports and standard weight spring. Available with rubber boot for dust cover.</p>	 <p>GF-0450D-0</p> <p>Guzzler "450" foot pump with opposite side ports and standard weight spring. Available with rubber boot for dust cover.</p>	 <p>GF-1400D-0</p> <p>Compact pump design features inlet/outlet ports on bottom of pump. Pump available with straight as well as 90 degree elbow inlet/outlet flanges.</p>	 <p>GF-0250S-0</p> <p>Guzzler "Junior" foot pump is ideal for portable handwash stations. Available with a range of inlet/outlet sizes and styles, accommodating 1/4" to 1/2" hose sizes.</p>
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