

Depending on the average operating pressure desired, approximately 60 psi or 50psi) there are two booster pumps recommended :

**33GB15 – 7 Stage(+/- 60 psi)**

**33GB10 – 5 Stage (+/- 50 psi)**

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**TECHNICAL BROCHURE**  
B5-33GB R5



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**5GB, 7GB, 10GB,  
18GB, 25GB, 33GB**

HIGH PRESSURE MULTI-STAGE BOOSTER PUMP



### FEATURES

- Multi-stage Design: Provides steady, quiet, vibration free, operation.
- Optional Stainless Steel Construction: Standard cast iron for general service or stainless for filtration applications.
- O-Ring Casing Seal: Reliable high pressure sealing with easy disassembly for maintenance or repair.
- Impellers and Diffusers: Glass filled engineered composite material with a fixed impeller design. High resistance to corrosion and abrasion.
- Bowls: 300 stainless steel rabbit lock for positive alignment with no gaskets required.
- Variable Capacity: Centrifugal pump design permits selection of flow within a range for each size.
- Mechanical Seal: A variety of face materials and elastomers to match application needs.
- Motors: Close coupled NEMA 56J motors in open drip proof or totally enclosed design. Single phase and three phase available. Ball bearings carry all radial and axial thrust loads. Designed for continuous operation.

### APPLICATIONS

- Residential, commercial or agricultural pressure wash
- Reverse osmosis
- Evaporative cooling systems/misters
- Booster service
- Spray systems
- Water circulation
- Filtration
- HVAC
- General purpose pumping

### WARNINGS

- Pumps used on open spray applications must be plugged into electrical service which is protected by a Ground Fault Service Interruptor. Failure to do so may result in serious personal injury or death and property damage.
- Do not run pump dry.
- Do not run pump below minimum flow.
- If positive suction pressure is not available, be sure pump and suction line (with foot valve) are primed before starting pump.

### MATERIALS OF CONSTRUCTION

Item	Description	Material
1	Motor Adapter	Cast Iron or Cast 304 Stainless Steel
2	Mechanical Seal	0-Carbon/Ceramic/GRUNA 3-Carbon/Silicon/EPDM 4-Carbon/Silicon/Viton
3	Shaft Coupling	Stainless Steel
4	Impeller/Diffuser	Engineered Composite
5	Bowl	304 Stainless Steel
6	Discharge Hood 304 Stainless Steel	Cast Iron or Cast 304 Stainless Steel
7	Main Shaft	Stainless Steel
8	Casing	304 Stainless Steel

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### SPECIFICATIONS

#### Pump

- Maximum suction (inlet) pressure: 75 PSI.
- Maximum Liquid Temperature: 160° F (71° C).
- Rotation: Clockwise when viewed from motor end.
- Maximum lift with foot valve: 10 ft., check NPSH curve.

#### Motors

- NEMA standard 56J frame.
- Open drip proof or totally enclosed fan cooled enclosures available as standard. Consult factory for other options.
- 60 Hz, 3500 RPM. Single phase (115/230 V), three phase 208-230 (3 HP, 230 V) or three phase (208-230/460 V).
- Single phase motors have built in capacitor and overload with automatic reset.

**Note:** For three phase motors, Class 20 overload protection must be provided in starter unit. Starter with overloads must be ordered separately.

### AGENCY LISTING FOR TEFC MOTOR ENCLOSURES



Tested to UL778 CAN 22.2 by CSA International (Canadian Standards Association).



### GB NUMBERING SYSTEM

The various versions of the Series GB are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below. The following are the standard 60 Hz product numbers and are built with Single Phase ODP motors and standard staging. The cast iron version uses Seal Code 0 and the stainless version uses Seal Code 4.

Order No.		Description				
Cast Iron	Stainless	HP	Phase	Voltage	Enclosure	Stages
5GBC03	5GBS03	½ <sup>Ⓢ</sup>	1	115-230	ODP	7
5GBC05	5GBS05	½				9
5GBC07	5GBS07	¾				14
5GBC10	5GBS10	1				17
7GBC05	7GBS05	½				9
7GBC07	7GBS07	¾				13
7GBC10	7GBS10	1				16
10GBC07	10GBS07	¾				8
10GBC10	10GBS10	1				10
10GBC15	10GBS15	1½				15
10GBC20	10GBS20	2				17

<sup>Ⓢ</sup> Unit is supplied with ½ HP motor.

\* All 3 HP motors are 230V only.

Order No.		Description				
Cast Iron	Stainless	HP	Phase	Voltage	Enclosure	Stages
18GBC07	18GBS07	¾	1	115-230*	ODP	5
18GBC10	18GBS10	1				7
18GBC15	18GBS15	1½				9
18GBC20	18GBS20	2				13
18GBC30	18GBS30	3				15
25GBC07	25GBS07	¾				5
25GBC10	25GBS10	1				7
25GBC15	25GBS15	1½				9
25GBC20	25GBS20	2				10
25GBC30	25GBS30	3				14
33GBC10	33GBS10	1				5
33GBC15	33GBS15	1½				7
33GBC20	33GBS20	2				9
33GBC30	33GBS30	3	13			

# Goulds Water Technology

Residential and Commercial Water

## GB NUMBERING SYSTEM

For optional motor enclosures, seals and three phase configurations use the following product code system.

### Example Code

S GB C 05 1 S J 0

#### MECHANICAL SEAL AND O-RING

0 = Standard on Cast Iron and 4 = Standard on Stainless Steel.  
For Optional Mechanical Seal modify catalog order no. with Seal Code listed below.

Mechanical Seal (½" seal)						
Seal Code	Rotary	Stationary	Elastomers	Metal Parts	Part No.	Casing O-Ring
0		Ceramic	BUNA	18-8SS	10K10	BUNA
3	Carbon	Sil Carbide	EPR	316SS	10K18	EPR
4			Viton		10K55	Viton

#### NUMBER OF STAGES

A = 1 D = 4 G = 7 K = 10 N = 13 R = 16 U = 19 X = 22  
B = 2 E = 5 H = 8 L = 11 P = 14 S = 17 V = 20 Y = 23  
C = 3 F = 6 J = 9 M = 12 O = 15 T = 18 W = 21 Z = 24

#### DRIVER

1 = 1 PH, ODP                      4 = 1 PH, TEFC                      7 = 3 PH, TEPE                      A = 3 PH, 575V ODP PE  
2 = 3 PH, ODP                      5 = 3 PH, TEFC                      8 = 3 PH, 575V TEPE  
3 = 3 PH, 575V ODP                      6 = 3 PH, 575V TEFC                      9 = 3 PH, ODP PE

#### DRIVER: HERTZ/POLE/RPM

1 = 60 Hz, 2 pole, 3500 RPM  
2 = 50 Hz, 2 pole, 2900 RPM

#### HP RATING

03 = ¼ HP<sup>A</sup>                      10 = 1 HP                      30 = 3 HP                      \*Note: ¼ HP Single Phase unit is supplied with ½ HP motor.  
05 = ½ HP                      15 = 1½ HP                      50 = 5 HP  
07 = ¾ HP                      20 = 2 HP

#### MATERIAL - DISCHARGE, HEAD AND SUCTION HOUSING

C = Cast Iron  
S = Stainless Steel

#### PUMP MODEL

GB

#### GALLONS PER MINUTE

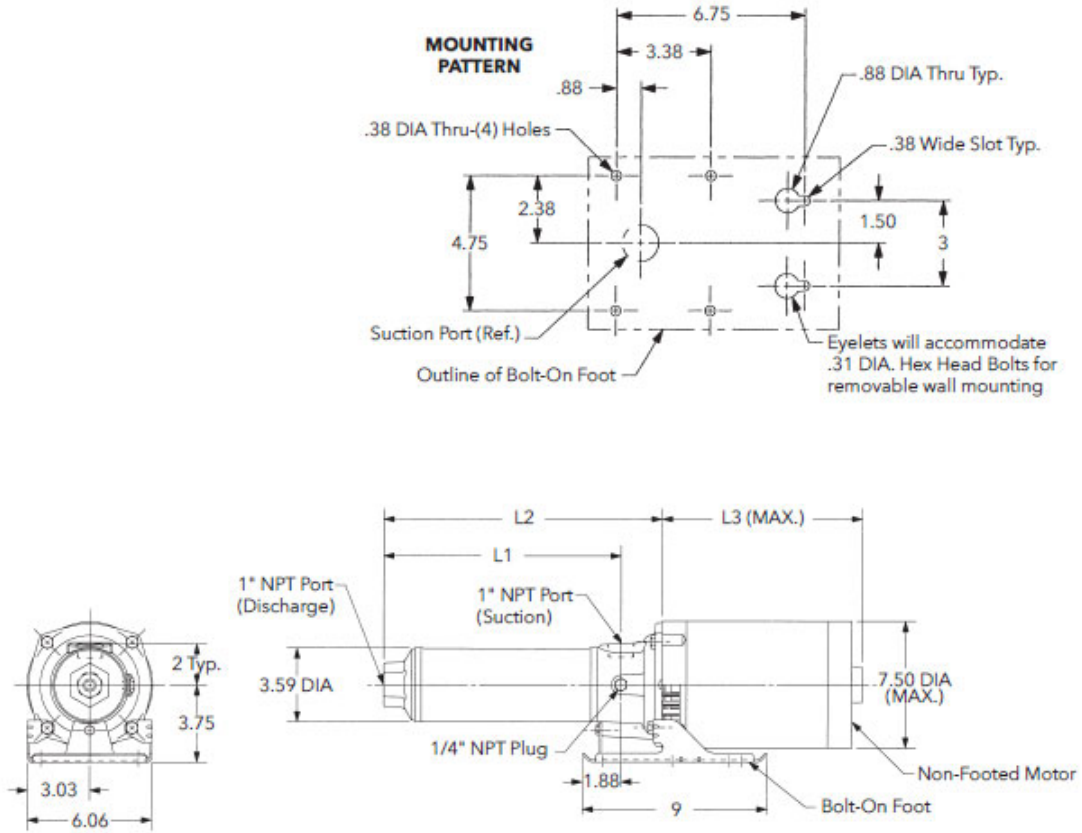
5 7 10 18 25 33

**Notes:** Not recommended for operation beyond recommended range specified on H-Q curve.

For critical application conditions consult factory.

**Notes:** Not all combinations of motor, impeller and seal options are available for every pump model. Please check with Goulds Water Technology on non-cataloged numbers.

## DIMENSIONS AND WEIGHTS FOR 60 HZ AND 50 HZ PUMPS



# Goulds Water Technology

Residential and Commercial Water

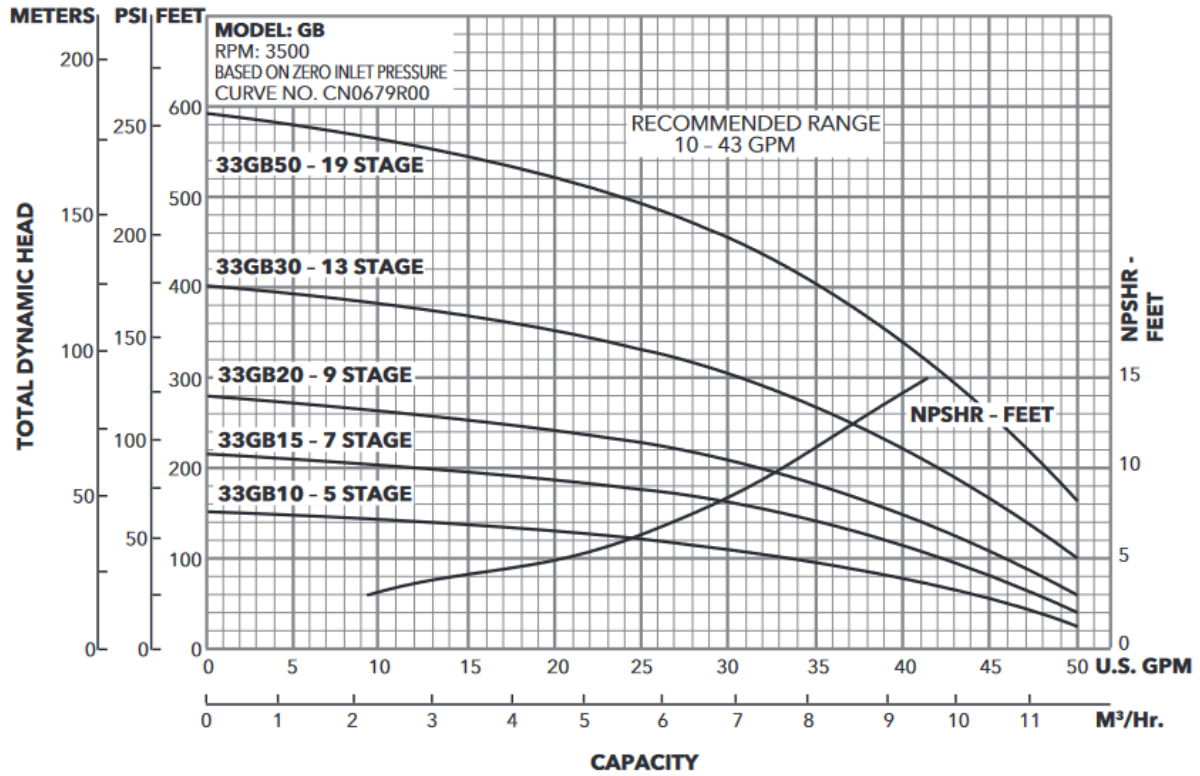
**DIMENSIONS AND WEIGHTS FOR 60 HZ PUMPS**

Size	Stages	L1 Approx.	L2 Approx.	HP	L3 Max.	Max. Wt. lbs.
5GB	7	9.19	11.19	½	10.5	41
	9	10.62	12.62	½	10.5	41
	14	15.12	17.12	¾	10.62	46
	17	17.12	19.12	1	11.25	50
7GB	9	11.88	13.88	½	10.5	41
	13	14.44	16.44	¾	10.62	46
	16	16.88	18.88	1	11.25	50
10GB	8	10.94	12.94	¾	10.62	46
	10	12.31	14.31	1	11.25	50
	15	15.81	17.81	1½	11.31	47
	17	17.19	19.19	2	12.06	67
18GB	5	9.69	11.69	¾	10.62	46
	7	11.38	13.38	1	11.25	50
	9	13.12	15.12	1½	11.31	47
	13	16.50	18.50	2	12.06	67
	15	18.25	20.25	3	13.03	69
25GB	5	10.12	12.12	¾	10.62	46
	7	12.00	14.00	1	11.25	50
	9	13.88	15.88	1½	11.31	47
	10	14.81	16.81	2	13.03	67
	14	18.56	20.56	3	13.03	69
33GB	5	11.77	13.77	1	11.25	51
	7	14.25	16.25	1½	11.31	55
	9	16.66	18.66	2	13.03	69
	13	21.47	23.47	3	13.03	70
	19	29.03	31.03	5	14.25	78

**DIMENSIONS AND WEIGHTS FOR 50 HZ PUMPS**

Size	Stages	L1 Approx.	L2 Approx.	HP	L3 Max.	Max. Wt. lbs.
5GB	7	9.19	11.19	½	10.5	41
	10	11.31	13.31	½	10.5	42
	16	16.50	18.50	¾	10.62	47
	19	18.50	20.50	1	11.25	51
7GB	10	12.60	14.60	½	10.5	42
	15	15.87	17.87	¾	10.62	47
	18	18.31	20.31	1	11.25	51
10GB	9	11.63	13.63	¾	10.62	47
	11	13.00	15.00	1	11.25	51
	17	17.19	19.19	1½	11.31	48
	23	21.32	23.32	2	12.06	68
18GB	8	12.23	14.23	1	11.25	51
	12	15.68	17.68	1½	11.31	48
	16	19.06	21.06	2	12.06	68
	23	25.07	27.07	3	13.03	70
25GB	5	10.12	12.12	¾	10.62	46
	7	12.00	14.00	1	11.25	50
	10	14.82	16.82	1½	11.31	48
	14	18.56	20.56	2	13.03	68
	21	25.13	27.13	3	13.03	70
33GB	6	13.00	15.00	1	11.25	52
	10	17.88	19.88	2	13.03	70
	14	22.69	24.69	3	13.03	71

## 33GB PERFORMANCE CURVES

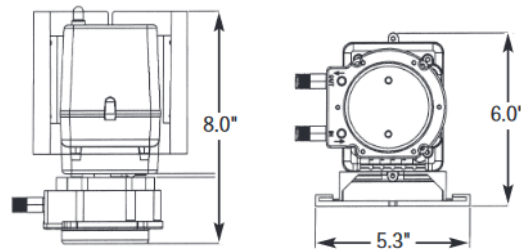
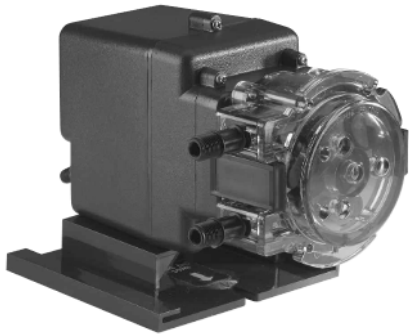


# Recommended Chemical Injection unit for Disinfection

## STENNER Model #45MPHP2

### CLASSIC SERIES SINGLE HEAD FIXED SPECIFICATIONS

STENNER PUMPS®



Shipping Weight 8 lbs (3.4 kg)

### CLASSIC SERIES SINGLE HEAD FIXED SPECIFICATIONS

STENNER PUMPS®

#### SPECIFICATIONS

**Flow Rate Output Control** Fixed output  
**Maximum Working Pressure**  
 25 psi (1.7 bar), 100 psi (6.9 bar)  
**Maximum Operating Temperature**  
 125°F (52°C)  
**Maximum Suction Lift**  
 25 ft (7.6 m) vertical lift, based on water  
**Motor Type** 1/30 HP, shaded pole, class B  
**Shaft RPM (average maximum)** 26 or 44  
**Duty Cycle** Continuous  
**Motor Voltage (Amp Draw)**  
 120V 60Hz 1PH (1.7)  
 220V 60Hz 1PH (0.9)  
 230V 50Hz 1PH (0.9)  
 250V 50Hz 1PH (0.9)  
**Power Cord Type**  
 120V 60Hz, 220V 60Hz: SJTOW  
 230V 50Hz, 250V 50Hz: H05VV-F  
**Power Cord Plug End**  
 120V 60Hz NEMA 5-15P  
 220V 60Hz NEMA 6-15P  
 230V 50Hz CEE CEE7/7  
 250V 50Hz CEE CEE7/7

#### MATERIALS OF CONSTRUCTION

**All Housings** Polycarbonate  
**Pump Tube**  
 Santoprene™ (FDA approved) or Versilon™  
**Check Valve Duckbill**  
 Santoprene™ (FDA approved) or Pellethane®<sup>1</sup>  
**Pump Head Rollers** Polyethylene  
**Roller Bushings** Oil impregnated bronze  
**Suction/Discharge Tubing, Ferrules**  
 Polyethylene (FDA approved)  
**Tube and Injection Fittings**  
 PVC or Polypropylene (both NSF listed)  
**Connecting Nuts**  
 PVC or Polypropylene (both NSF listed)  
**3/8" Adapter**  
 PVC or Polypropylene (both NSF listed)  
**Suction Line Strainer and Cap**  
 PVC or Polypropylene (both NSF listed);  
 ceramic weight  
**All Fasteners** Stainless steel  
**Pump Head Latches** Polypropylene

#### ACCESSORIES

**3** Connecting nuts 1/4" or 3/8"  
**3** Ferrules 1/4" or 6 mm *Europe*  
**1** Injection check valve 100 psi (6.9 bar) max.  
 OR **1** Injection fitting 25 psi (1.7 bar) max.  
**1** Weighted suction line strainer  
 1/4", 3/8" or 6 mm *Europe*  
**1** 20' Roll suction/discharge tubing  
 1/4" or 3/8", white or UV black  
 OR 6 mm White *Europe*  
**1** Additional pump tube  
**2** Additional latches  
**1** Mounting bracket  
**1** Manual

<sup>\*</sup> Santoprene® is a registered trademark of Exxon Mobil Corporation.

<sup>\*\*</sup> Versilon® is a registered trademark of Saint-Gobain Performance Plastics.

<sup>1</sup> Pellethane® is a registered trademark of Lubrizol Advanced Materials, Inc.

**Single Head Fixed - Flow Rate Output Chart 100 psi (6.9 bar) maximum**

	Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
45 SERIES	45MPHP2	45MFH1	1	3.0	0.13	0.27	11.4	0.48	7.92	9.1	0.38	6.32
	45MPHP10	45MFH2	2	10.0	0.42	0.89	37.9	1.58	26.32	30.3	1.26	21.04
	45MPHP22	45MFH7	7	22.0	0.92	1.96	83.3	3.47	57.85	66.6	2.78	46.25
85 SERIES	85MPHP5	85MFH1	1	5.0	0.21	0.44	18.9	0.79	13.13	15.1	0.63	10.49
	85MPHP17	85MFH2	2	17.0	0.71	1.51	64.4	2.68	44.65	51.5	2.15	35.76
	85MPHP40	85MFH7	7	40.0	1.67	3.55	151.4	6.31	105.14	121.1	5.05	84.10
Approximate Output @ 60Hz										Approximate Output @ 50Hz		

\*Injection check valve included with pumps rated 100 psi (6.9 bar) maximum.