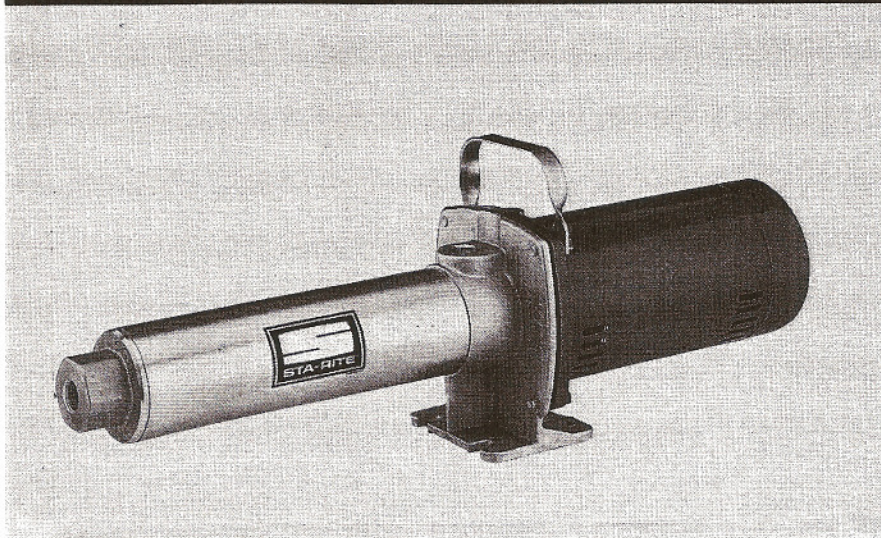


## high-pressure booster pumps



## HIGH PRESSURE BOOSTER PUMPS

\*HPS Series is UL 778 Listed for Indoor/Outdoor Use.



*The HP/HPS Booster Pumps are the most durable booster pump available. The patented SignaSeal™ floating impeller design minimizes thrust loads allowing for continuous operation without damage to motor bearings, mechanical seal or pump hydraulic components.*

### APPLICATIONS

- Car wash
- Filtration and reverse osmosis
- Residential, commercial or agricultural pressure washing
- Booster and spray systems
- HVAC
- General purpose pumping

### SPECIFICATIONS

**Max. Inlet Pressure** – 80 PSI  
**Max. Working Pressure** – 315 PSI

**Maximum Limits** – Prolonged use with liquids above 140° F is not recommended.

#### Discharge –

HP Series: cast iron

HPS Series: stainless steel

#### Motor Adapter and Base –

HP Series: cast iron

HPS Series: stainless steel

**Shell** – Stainless steel 304 grade

**Impeller** – Acetal

**Diffuser** – Polycarbonate

**Shaft** – Stainless steel 304 grade

**O-Rings** – Buna-N

**Mechanical Seal** – Carbon/ceramic, Buna-N

*Signature* 2000

## HP/HPS SERIES

### FEATURES

**Patented Stage System** – The proven SignaSeal™ staging system utilizes a patented ceramic wear surface that, when incorporated with Sta-Rite's "true" independent floating impellers, dominates with 1<sup>st</sup>-in-class performance, superior sand handling and thrust management staging system.

**Acetal Impellers** – Precision-molded for perfect balance... ultra-smooth for highest performance and efficiency.

**Precision Molded Diffusers** – Superior performance with high resistance to corrosion and abrasion

**Mechanical Shaft Seal** – Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication.

**Motor Windings** – Superior insulation materials protect against excessive moisture and contaminants... assure prolonged motor life

**Balanced Rotor** – Die cast under high pressures for uniform performance and greater efficiency; dynamically balanced

**Heavy-duty Ball Bearings** – Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

**Pump and Motor Shaft** – Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive

**Dustproof Cover** – All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate.



GULF SOUTH SUPPLY INC.

GSS-45

7721 AIRLINE DR.

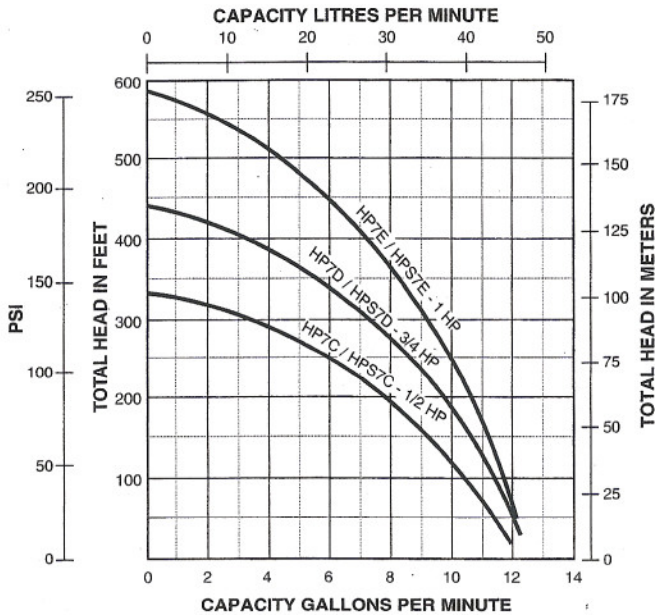
HOUSTON, TEXAS 77037

PHONE 281-445-8077

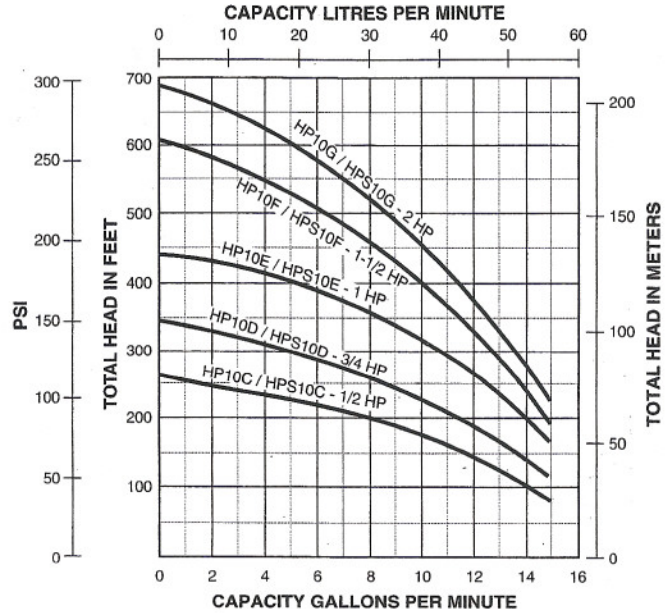
FAX 281-445-8557

## high-pressure booster pumps

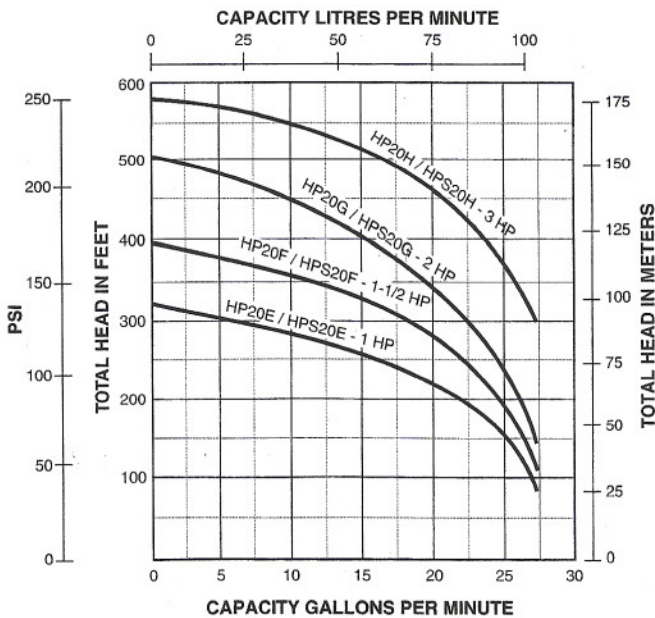
### PUMP PERFORMANCE - 7 GPM



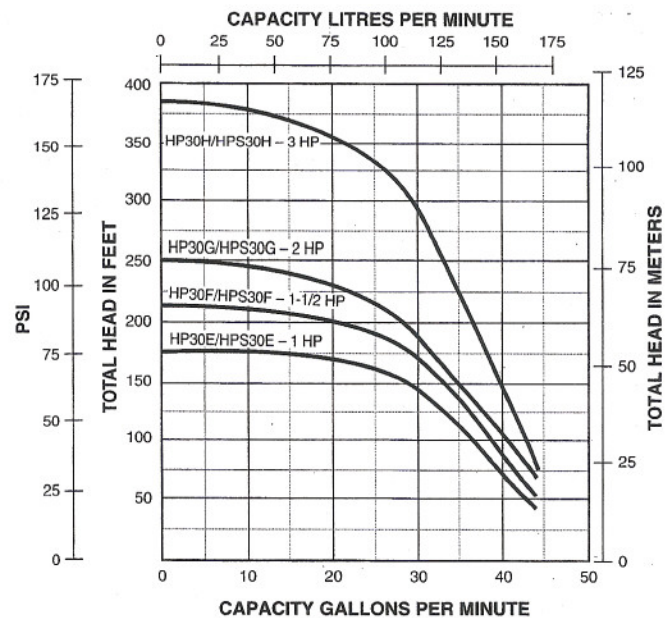
### PUMP PERFORMANCE - 10 GPM



### PUMP PERFORMANCE - 20 GPM



### PUMP PERFORMANCE - 30 GPM

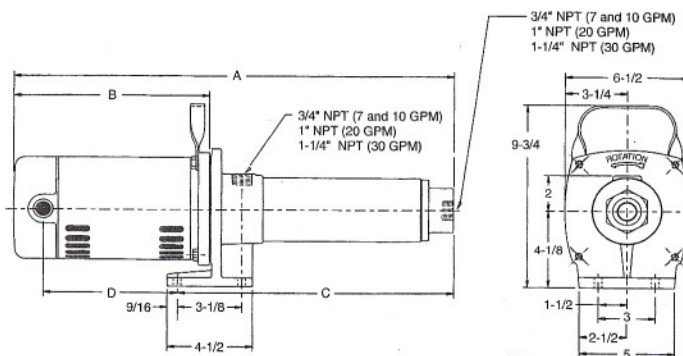


## HIGH PRESSURE BOOSTER PUMPS



# high-pressure booster pumps

## OUTLINE DIMENSIONS



## DIMENSIONS IN INCHES

### CAST IRON

| Catalog Number | HP    | A     | B     | C     | D     |
|----------------|-------|-------|-------|-------|-------|
| HP7C           | 1/2   | 24.28 | 10.38 | 15.76 | 6.68  |
| HP7C3          | 1/2   | 26.41 | 9.88  | 18.39 | 6.68  |
| HP7D           | 3/4   | 27.41 | 10.88 | 18.39 | 7.69  |
| HP7D3          | 3/4   | 30.41 | 10.38 | 21.89 | 7.28  |
| HP7E           | 1     | 31.91 | 11.88 | 21.89 | 8.69  |
| HP7E3          | 1     | 22.15 | 10.88 | 13.13 | 7.68  |
| HP10C          | 1/2   | 22.87 | 11.60 | 13.13 | 8.44  |
| HP10C3         | 1/2   | 21.15 | 9.88  | 13.13 | 6.68  |
| HP10D          | 3/4   | 24.99 | 11.97 | 14.88 | 8.81  |
| HP10D3         | 3/4   | 25.15 | 10.38 | 16.63 | 7.28  |
| HP10E          | 1     | 27.80 | 13.03 | 16.63 | 9.87  |
| HP10E3         | 1     | 24.78 | 10.88 | 15.76 | 7.68  |
| HP10F          | 1-1/2 | 31.18 | 13.78 | 19.26 | 10.31 |
| HP10FG         | 1-1/2 | 31.91 | 11.88 | 21.89 | 8.69  |
| HP10G          | 2     | 36.44 | 13.78 | 24.52 | 10.62 |
| HP10G3         | 2     | 32.66 | 12.63 | 21.89 | 9.44  |
| HP20E          | 1     | 26.85 | 13.03 | 15.68 | 9.87  |
| HP20E3         | 1     | 26.93 | 10.88 | 17.91 | 7.68  |
| HP20F          | 1-1/2 | 29.83 | 13.78 | 17.91 | 10.31 |
| HP20F3         | 1-1/2 | 30.16 | 11.88 | 20.14 | 8.69  |
| HP20G          | 2     | 32.06 | 13.78 | 20.14 | 10.62 |
| HP20G3         | 2     | 26.53 | 12.63 | 15.76 | 9.44  |
| HP20H          | 3     | 36.80 | 14.05 | 24.47 | 11.12 |
| HP20H3         | 3     | 34.67 | 11.92 | 24.47 | 8.97  |
| HP30E          | 1     | 25.08 | 11.88 | 14.92 | 8.69  |
| HP30E3         | 1     | 24.08 | 10.88 | 14.92 | 7.69  |
| HP30F          | 1-1/2 | 27.26 | 12.63 | 16.35 | 9.44  |
| HP30F3         | 1-1/2 | 26.51 | 11.88 | 16.35 | 8.69  |
| HP30G          | 2     | 28.49 | 12.42 | 17.79 | 9.47  |
| HP30G3         | 2     | 28.70 | 12.63 | 17.79 | 9.44  |
| HP30H          | 3     | 35.86 | 14.05 | 23.53 | 11.12 |
| HP30H3         | 3     | 33.73 | 11.92 | 23.53 | 8.97  |

### STAINLESS STEEL

| Catalog Number | HP    | A     | B     | C     | D     |
|----------------|-------|-------|-------|-------|-------|
| HPS7C          | 1/2   | 25.39 | 11.60 | 15.65 | 8.44  |
| HPS7C3         | 1/2   | 26.27 | 9.88  | 18.25 | 6.68  |
| HPS7D          | 3/4   | 28.36 | 11.97 | 18.25 | 8.81  |
| HPS7D3         | 3/4   | 26.77 | 10.38 | 18.25 | 7.28  |
| HPS7E          | 1     | 31.89 | 11.97 | 21.78 | 8.81  |
| HPS7E3         | 1     | 30.80 | 10.88 | 21.78 | 11.94 |
| HPS10C         | 1/2   | 22.76 | 11.60 | 13.02 | 8.44  |
| HPS10C3        | 1/2   | 22.79 | 9.88  | 14.77 | 6.68  |
| HPS10D         | 3/4   | 24.88 | 11.97 | 14.77 | 8.81  |
| HPS10D3        | 3/4   | 25.04 | 10.38 | 16.52 | 7.28  |
| HPS10E         | 1     | 27.69 | 13.03 | 16.52 | 9.87  |
| HPS10E3        | 1     | 29.05 | 10.88 | 20.03 | 7.68  |
| HPS10F         | 1-1/2 | 31.95 | 13.78 | 20.03 | 10.31 |
| HPS10F3        | 1-1/2 | 31.80 | 11.88 | 21.78 | 8.69  |
| HPS10G         | 2     | 33.70 | 13.78 | 21.78 | 10.62 |
| HPS10G3        | 2     | 27.22 | 12.63 | 16.45 | 9.44  |
| HPS20E         | 1     | 26.74 | 13.03 | 15.57 | 9.87  |
| HPS20E3        | 1     | 26.82 | 10.88 | 17.80 | 7.68  |
| HPS20F         | 1-1/2 | 29.72 | 13.78 | 17.80 | 10.31 |
| HPS20F3        | 1-1/2 | 30.05 | 11.88 | 20.03 | 8.69  |
| HPS20G         | 2     | 31.95 | 13.78 | 20.03 | 10.62 |
| HPS20G3        | 2     | 26.42 | 12.63 | 15.65 | 9.44  |
| HPS20H         | 3     | 36.80 | 14.05 | 24.47 | 11.12 |
| HPS20H3        | 3     | 34.67 | 11.92 | 24.47 | 8.97  |
| HPS30E         | 1     | 26.23 | 13.03 | 14.92 | 9.87  |
| HPS30E3        | 1     | 24.08 | 10.88 | 14.92 | 7.69  |
| HPS30F         | 1-1/2 | 28.10 | 13.47 | 16.35 | 10.31 |
| HPS30F3        | 1-1/2 | 26.51 | 11.88 | 16.35 | 8.69  |
| HPS30G         | 2     | 29.85 | 13.78 | 17.79 | 10.62 |
| HPS30G3        | 2     | 28.70 | 12.63 | 17.79 | 9.44  |
| HPS30H         | 3     | 35.86 | 14.05 | 23.53 | 11.12 |
| HPS30H3        | 3     | 33.73 | 11.92 | 23.53 | 8.97  |



## HIGH PRESSURE BOOSTER PUMPS

| Catalog Number |                 | GPM | HP    | Phase | Stages | Pipe Tapping Sizes |        | Motor Voltage | Shipping Wt. (lbs.) |
|----------------|-----------------|-----|-------|-------|--------|--------------------|--------|---------------|---------------------|
| Cast Iron      | Stainless Steel |     |       |       |        | Inlet              | Outlet |               |                     |
| HP7C           | HPS7C           | 7   | 1/2   | 1     | 9      | 3/4"               | 3/4"   | 115/230       | 48                  |
| HP7C3          | HPS7C3          |     | 1/2   | 3     | 9      | 3/4"               | 3/4"   | 208-230/460   | 45                  |
| HP7D           | HPS7D           |     | 3/4   | 1     | 12     | 3/4"               | 3/4"   | 115/230       | 48                  |
| HP7D3          | HPS7D3          |     | 3/4   | 3     | 12     | 3/4"               | 3/4"   | 208-230/460   | 45                  |
| HP7E           | HPS7E           |     | 1     | 1     | 16     | 3/4"               | 3/4"   | 115/230       | 51                  |
| HP7E3          | HPS7E3          |     | 1     | 3     | 16     | 3/4"               | 3/4"   | 208-230/460   | 48                  |
| HP10C          | HPS10C          | 10  | 1/2   | 1     | 6      | 3/4"               | 3/4"   | 115/230       | 45                  |
| HP10C3         | HPS10C3         |     | 1/2   | 3     | 6      | 3/4"               | 3/4"   | 208-230/460   | 42                  |
| HP10D          | HPS10D          |     | 3/4   | 1     | 8      | 3/4"               | 3/4"   | 115/230       | 46                  |
| HP10D3         | HPS10D3         |     | 3/4   | 3     | 8      | 3/4"               | 3/4"   | 208-230/460   | 43                  |
| HP10E          | HPS10E          |     | 1     | 1     | 10     | 3/4"               | 3/4"   | 115/230       | 50                  |
| HP10E3         | HPS10E3         |     | 1     | 3     | 10     | 3/4"               | 3/4"   | 208-230/460   | 47                  |
| HP10F          | HPS10F          |     | 1-1/2 | 1     | 14     | 3/4"               | 3/4"   | 115/230*      | 58                  |
| HP10F3         | HPS10F3         |     | 1-1/2 | 3     | 14     | 3/4"               | 3/4"   | 208-230/460   | 53                  |
| HP10G          | HPS10G          |     | 2     | 1     | 16     | 3/4"               | 3/4"   | 115/230*      | 63                  |
| HP10G3         | HPS10G3         |     | 2     | 3     | 16     | 3/4"               | 3/4"   | 208-230/460   | 59                  |
| HP20E          | HPS20E          | 20  | 1     | 1     | 7      | 1"                 | 1"     | 115/230       | 49                  |
| HP20E3         | HPS20E3         |     | 1     | 3     | 7      | 1"                 | 1"     | 208-230/460   | 46                  |
| HP20F          | HPS20F          |     | 1-1/2 | 1     | 9      | 1"                 | 1"     | 115/230*      | 57                  |
| HP20F3         | HPS20F3         |     | 1-1/2 | 3     | 9      | 1"                 | 1"     | 208-230/460   | 52                  |
| HP20G          | HPS20G          |     | 2     | 1     | 11     | 1"                 | 1"     | 115/230*      | 62                  |
| HP20G3         | HPS20G3         |     | 2     | 3     | 11     | 1"                 | 1"     | 208-230/460   | 58                  |
| HP20H          | HPS20H          |     | 3     | 1     | 15     | 1"                 | 1"     | 208-230       | 59                  |
| HP20H3         | HPS20H3         |     | 3     | 3     | 15     | 1"                 | 1"     | 200-230/460   | 55                  |
| HP30E          | HPS30E          | 30  | 1     | 1     | 5      | 1-1/4"             | 1-1/4" | 115/230       | 47                  |
| HP30E3         | HPS30E3         |     | 1     | 3     | 5      | 1-1/4"             | 1-1/4" | 208-230/460   | 44                  |
| HP30F          | HPS30F          |     | 1-1/2 | 1     | 6      | 1-1/4"             | 1-1/4" | 115/230*      | 54                  |
| HP30F3         | HPS30F3         |     | 1-1/2 | 3     | 6      | 1-1/4"             | 1-1/4" | 208-230/460   | 49                  |
| HP30G          | HPS30G          |     | 2     | 1     | 7      | 1-1/4"             | 1-1/4" | 115/230*      | 57                  |
| HP30G3         | HPS30G3         |     | 2     | 3     | 7      | 1-1/4"             | 1-1/4" | 208-230/460   | 53                  |
| HP30H          | HPS30H          |     | 3     | 1     | 11     | 1-1/4"             | 1-1/4" | 208-230       | 59                  |
| HP30H3         | HPS30H3         |     | 3     | 3     | 11     | 1-1/4"             | 1-1/4" | 200-230/460   | 55                  |

NOTE: ODP motor is standard, for TEFC motors, contact Customer Service.

\*HPS models 230V only.

### HIGH PRESSURE BOOSTER PUMPS

BELOW PUMP MODELS NORMALLY IN STOCK AT GULF SOUTH SUPPLY

MAXIMUM INLET PRESSURE-----80 PSI

MAXIMUM WORKING CASE PRESSURE-----315 PSI

MAXIMUM WATER TEMPERATURE---PROLONGED USE WITH LIQUIDS ABOVE  
140 F IS NOT RECOMMENDED.

GPM

| <u>MODEL</u> | <u>H.P.</u> | <u>PHASE</u> | <u>STYLE</u>        | <u>SERIES</u> |
|--------------|-------------|--------------|---------------------|---------------|
| HPS10E-----  | 1-----      | 1-----       | STAINLESS STEEL---- | 10-----       |
| HPS10E3----- | 1-----      | 3-----       | STAINLESS STEEL---- | 10-----       |
| HPS10F-----  | 1-1/2-----  | 1-----       | STAINLESS STEEL---- | 10-----       |
| HPS10F3---   | 1-1/2-----  | 3-----       | STAINLESS STEEL---- | 10-----       |

ABOVE PUMP MODELS HAVE OPEN DRIP PROOF MOTORS.