

Customer: _____	Catalog No.	Quantity	GPM	Feet	Volt	Phase	Encl.
Engineer: _____							
Submitter: _____ Date: _____							
Approval: _____ Date: _____							
Order No.: _____ Date: _____							

Base Model: 46SV General Pump Description

Construction: 316/CI or 316 stainless steel
 Capacities: 25–155 gallons per minute (6–35 m³/hr)
 Heads: 25–300 feet TDH (8–90 meters)
 Staging: 1–10
 Minimum flow: 25 GPM

Maximum working pressure:	Material Type	316/CI	316	Stages	Maximum working pressure in psi. (Bar)
	46SVB	x		1–10	195 (13)
	46SVD		x	1–10	275 (19)

Note: All stages can be upgraded for 580 PSI (40 bar) service.

Temperatures: Standard liquid temperature from -20°F (-30°C) to 250°F (120°C)

Solids handling: Although not recommended, the pump may pass a 3/8" sphere.

Design options:	Material Type	316/CI	316	Stages	Connections	Location
	46SVB	x		1–10	ANSI flange	In-line
	46SVD		x	1–10	ANSI flange	In-line

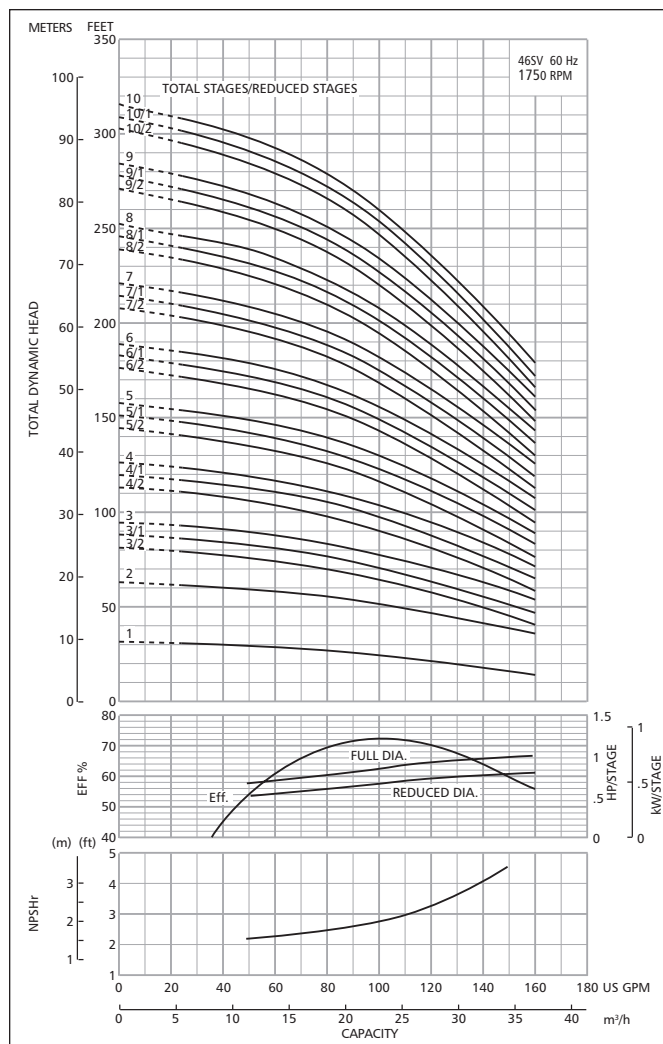
Piping Connections: Suction and discharge openings are 3". ANSI class 125 cast iron or class 150 steel flanges. Optional class 250 cast iron (300 steel) flanges available.

Component Materials	316/CI Version	316 Version
Casing O-rings	Viton	Same
Tie-rods and nuts	Zinc-coated steel	Same
Pump shaft	Duplex SS	Same
Pump casing	316L stainless steel	316L SS
Wear ring	PPS	PPS
Seal housing	Cast iron	316L SS
Lower Support	Cast iron	316L SS
Diffusers	316L stainless steel	Same
Impellers	316L stainless steel	Same
Upper head	Cast iron	316 SS
Shaft bushing	Tungsten carbide	Same
Shaft sleeve	Tungsten carbide	Same
Diffuser bushing	Carbon	Same
Seal spring and retainer clip	316L stainless steel	Same

Mechanical seal

Code No.	Rotary	Stationary	Elastomers	Where Found
A	Carbon	Silicon Carbide	Viton	Stan. on all units
C	Silicon Carbide	Silicon Carbide	Viton	
B	Carbon	Silicon Carbide	EPR	33SV
D	Silicon Carbide	Silicon Carbide	EPR	
Prime and drain plugs		316 SS		316 SS
NEMA motor adapter		Cast iron		Same
Coupling guards		304 stainless steel		Same
Motor shaft coupling		Cast iron		Same
Pump body/base		Cast iron		Cast 316 SS

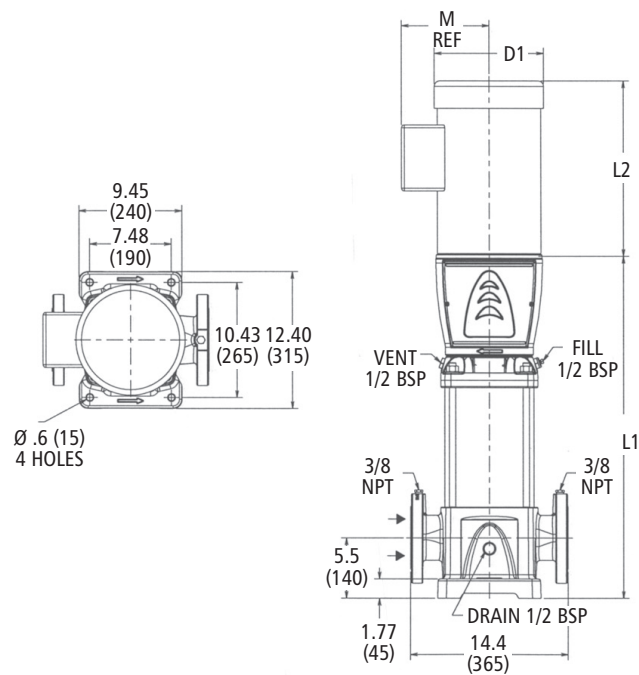
Performance Curves



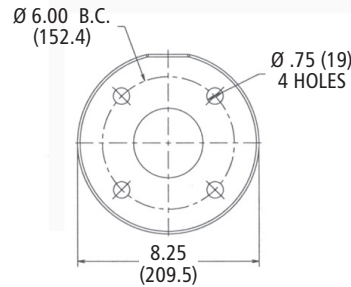
46SV Motors

Standard motors supplied by Goulds are NEMA standard TC frame motors open drip proof, or totally enclosed fan cooled enclosures. 60 Hz, 3500 RPM, three phase 3 – 10 HP (208–230/460 V). 46 SV Horsepowers from 3 – 10 HP. For other motor options, contact the factory. Above motors are 1.15 S.F.

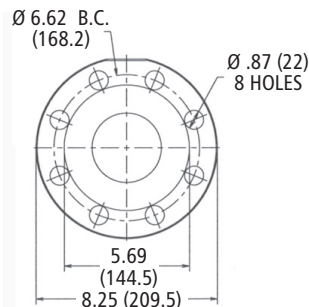
46SV – 1750 RPM Dimensions and Weights



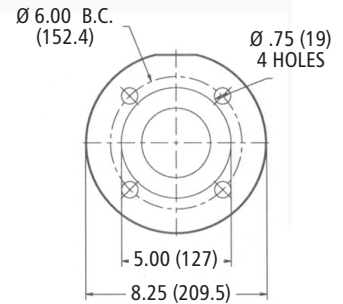
Ø .6 (15)
4 HOLES



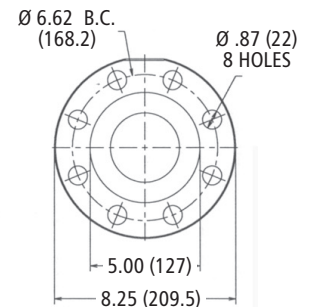
Cast Iron
3" Class 125 R.F.
(1 – 10 Stages)



Cast Iron
3" Class 250 R.F.
(1 – 10 Stages) Optional



316SS
3" Class 150 R.F.
(1 – 10 Stages)



316SS
3" Class 300 R.F.
(1 – 10 Stages) Optional

All dimensions are in inches (mm).
Not to be used for construction purposes.

Stage	Frame (1-Phase)		Frame (3-Phase)				L2			D1		Weights (lb)		
	ODP	TEFC	ODP	TEFC	HP	L1	ODP	TEFC	M (ref.)	ODP	TEFC	Liquid End	ODP	TEFC
1			Contact Factory		1.5	22.19	Contact Factory					147	Contact Factory	
2					2	25.19						158		
3/2			182TC	182TC	3	27.12	13.94	15.44	6.88	8.50	8.50	169	61	62
3/1														
3			184TC	184TC	5	31.63						192	68	75
4/2														
4/1														
4						35.56								
5/2														
5/1														
5			213TC	213TC	7.5	37.50	15.56	15.50	8.06	10.19	10.25	208	122	125
6/2														
6/1														
6						39.94						233		
7/2														
7/1														
7			215TC	215TC	10	42.94	253	129						
8/2														
8/1														
8						45.88			264					
9/2														
9/1														
9			48.12											
10/2														
10/1														
10														

Acceptable motor frame size: 180TC – 360TSC

Goulds Pumps