

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

Base Model: 1SV – 1750 RPM General Pump Description

Construction: 304 or 316 stainless steel
 Capacities: 2 – 11 gallons per minute (.5 – 2.5 m³/hr)
 Heads: 10 – 275 feet TDH (3 – 84 meters)
 Staging: 2–24
 Minimum flow: 2 GPM
 Maximum working pressure: 230 PSI (16 bar) for the NPT version and 360 PSI (25 bar) for the ANSI flange version
 Temperatures: Standard liquid temperature from -20°F (-30°C) to 250°F (120°C)

Design options:

Type	Material		Stages	Connections	Location
	304	316			
1SVA	x		2–11	NPT	In-line
1SVB	x		2–22	ANSI flange	In-line
1SVC	x		5–16	ANSI flange	Top/bottom
1SVD		x	2–22	ANSI flange	In-line

Piping Connections: Suction and discharge openings are 1" NPT. ANSI flanges are class 300, 1¼" flanges. Victaulic are 1¼" NPT.

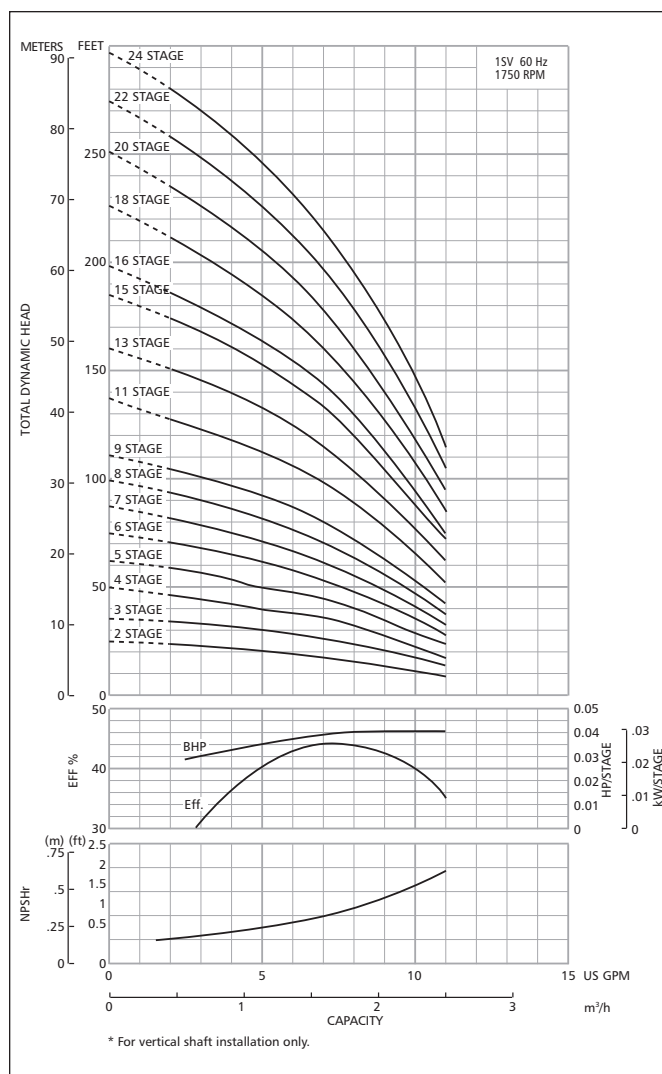
Solids handling: Although not recommended, the pump may pass a ½" sphere.

Component Materials	304 Version	316 Version
Pump body	304 stainless steel	316L SS
Casing O-rings	Viton	Same
Tie-rods and nuts	Zinc-coated steel	Same
Pump shaft	304 stainless steel	316L SS
Pump casing	304 stainless steel	316L SS
Top seal housing	304 stainless steel	316L SS
Inner bowls	304 stainless steel	316L SS
Diffusers	304 stainless steel	316L SS
Impellers	316L stainless steel	Same
Impeller O-rings	Viton	Same
Shaft spacers	316L stainless steel	Same
Shaft bushing	Ceramic	Same
Shaft sleeve	Tungsten carbide	Same
Seal spring and retainer clip	316L stainless steel	Same

Mechanical seal

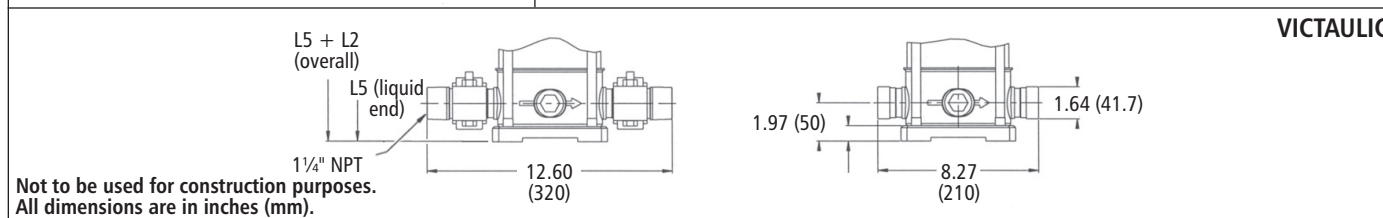
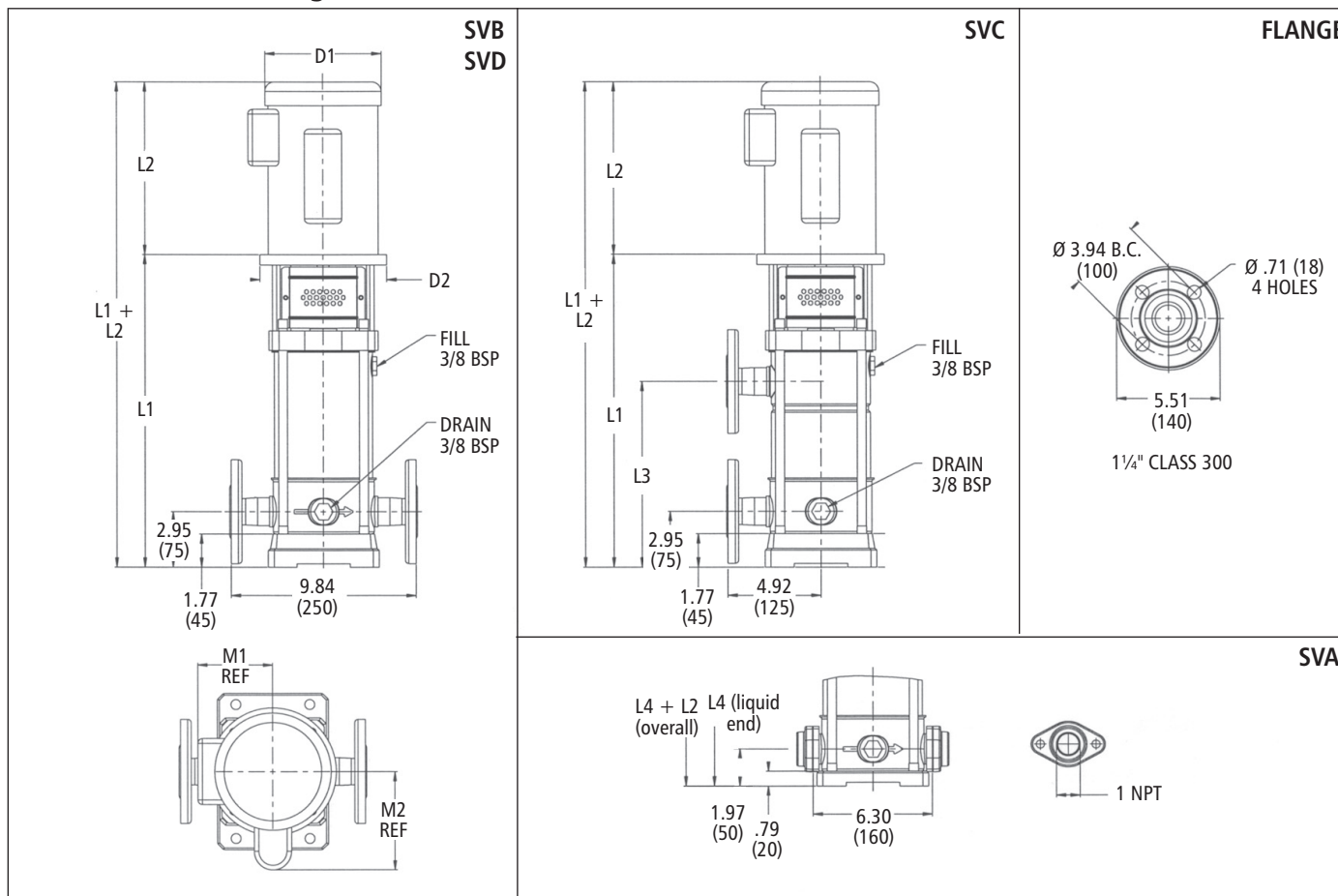
Code No.	Rotary	Stationary	Elastomer	Ref. Appl.
0	High Temp. Carbon	Silicon	Viton	General Service
4	Silicon Carbide Graphite Filled	Carbide Graphite		Abrasive
6	High Temp. Carbon	Filled	EPR	Boiler Feed
Priming and drain plugs		316L stainless steel		Same
NEMA motor adapter		Cast iron		Same
Coupling guards		304 stainless steel		Same
Motor shaft coupling		Cast aluminum		Same
Pump base		Aluminum casting		Same

Performance Curves



1SV – 1750 RPM Motors

Standard motors supplied by Goulds are NEMA standard TC frame motors open drip proof, or totally enclosed fan cooled enclosures. 60 Hz, 1750 RPM, three phase (208–230/460 V). 1SV horsepowers from ½ to 5 HP. For other motor options, contact the factory. Above motors are 1.25 S.F. for ½ and ¾ HP. 1.15 S.F. for 1–5 HP.

1SV Dimensions and Weights
1750 RPM


Stage	Frame (1-Phase)		Frame (3-Phase)		HP	L1	L2		L3	L4	L5	M1 (max.)	M2 (max.)	D1 (max.)		Weights (lb)		
	ODP	TEFC	ODP	TEFC			ODP	TEFC						ODP	TEFC	Liquid End	ODP	TEFC
2	Consult Factory				1/2	12.69	9.16	9.29		11.69	11.69	5.06	5.19	6.19		21	24	28
3						13.63				12.69	12.69					22		
4						14.63				13.63	13.63					23		
5						15.63				8.88	14.63					25		
6						16.63				9.88	15.63					27		
7						17.56				10.81	16.63					28		
8						18.56				11.81	17.56					29		
9						19.56				12.81	18.56					30		
11						20.50				14.75	20.50					33		
13						23.50				16.75	21.50					35		
15					3/4	25.44	10.79	9.91		18.69	23.50	5.75	5.56	7.19		37	32	40
16						26.44				19.69	25.50					39		
18						28.44					27.50					41		
20						30.44					29.50					44		
22						32.44					31.50					46		
24						34.44					33.50					48	40	43

Goulds Pumps