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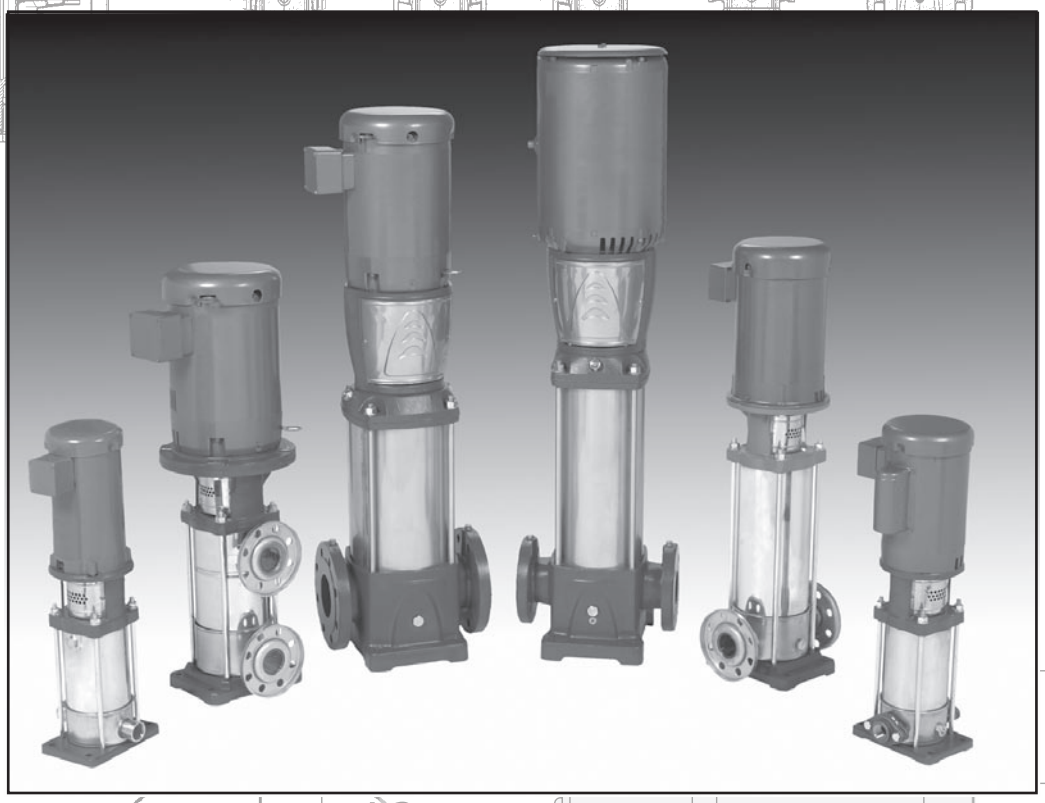
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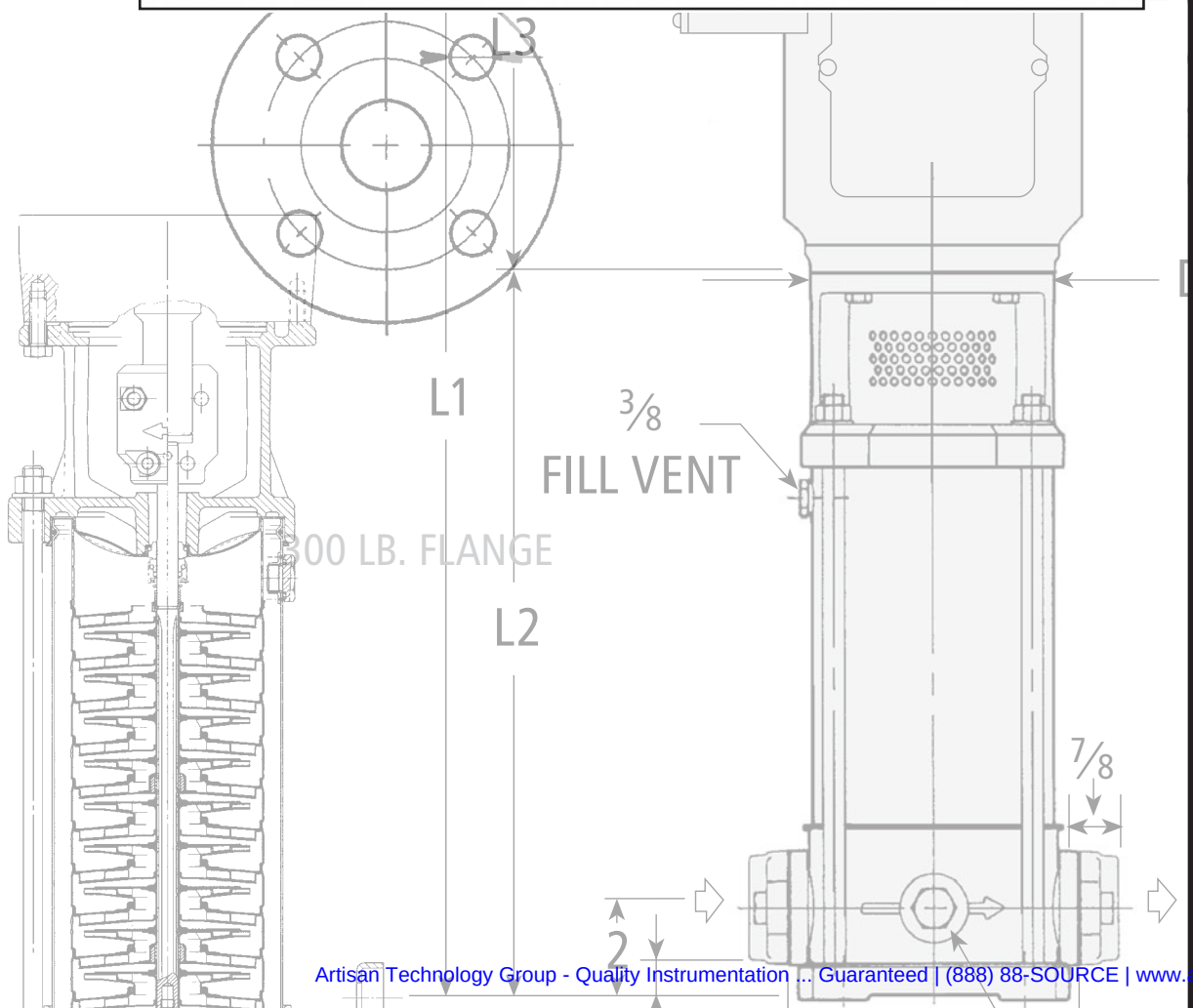
GOULDS PUMPS



G&L Series SSV

TECHNICAL MANUAL

SSV Series Vertical Multi-Stage Pumps



Goulds Pumps

ITT Industries

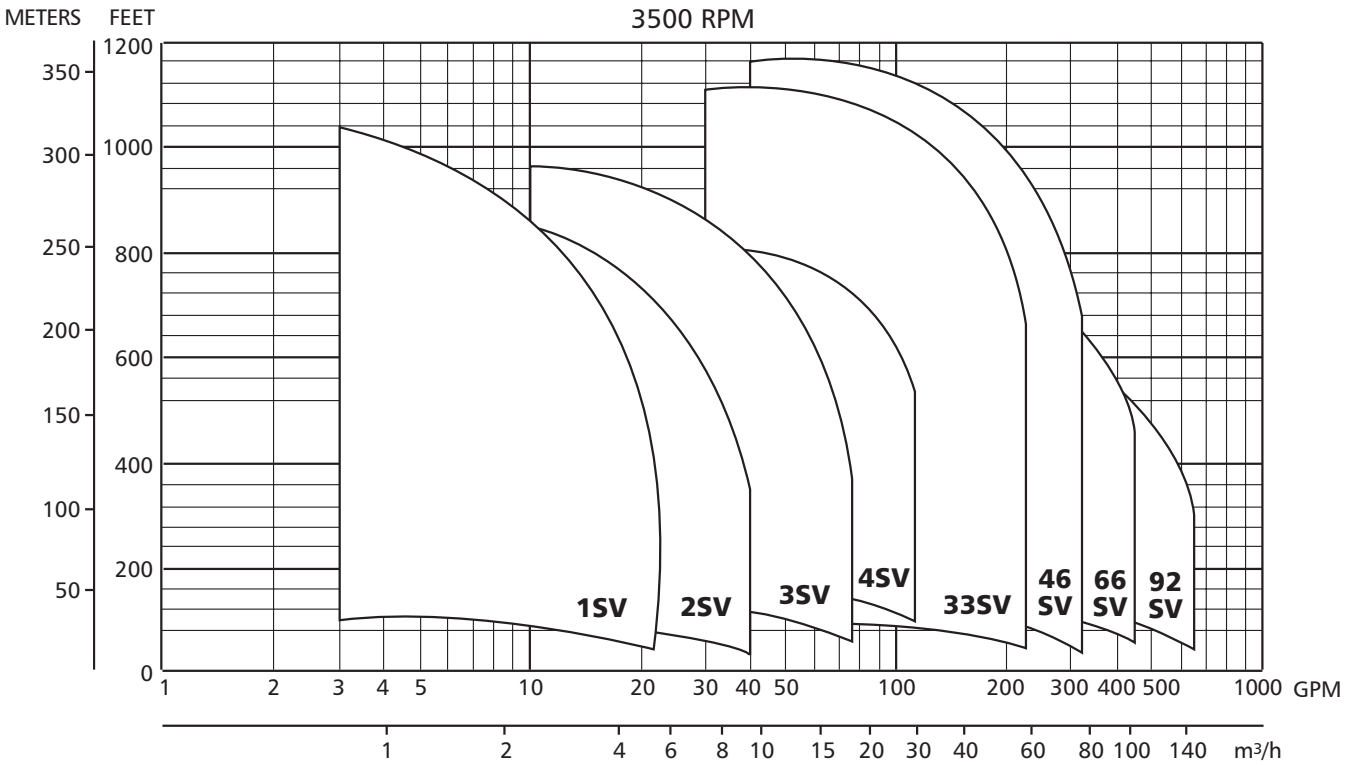
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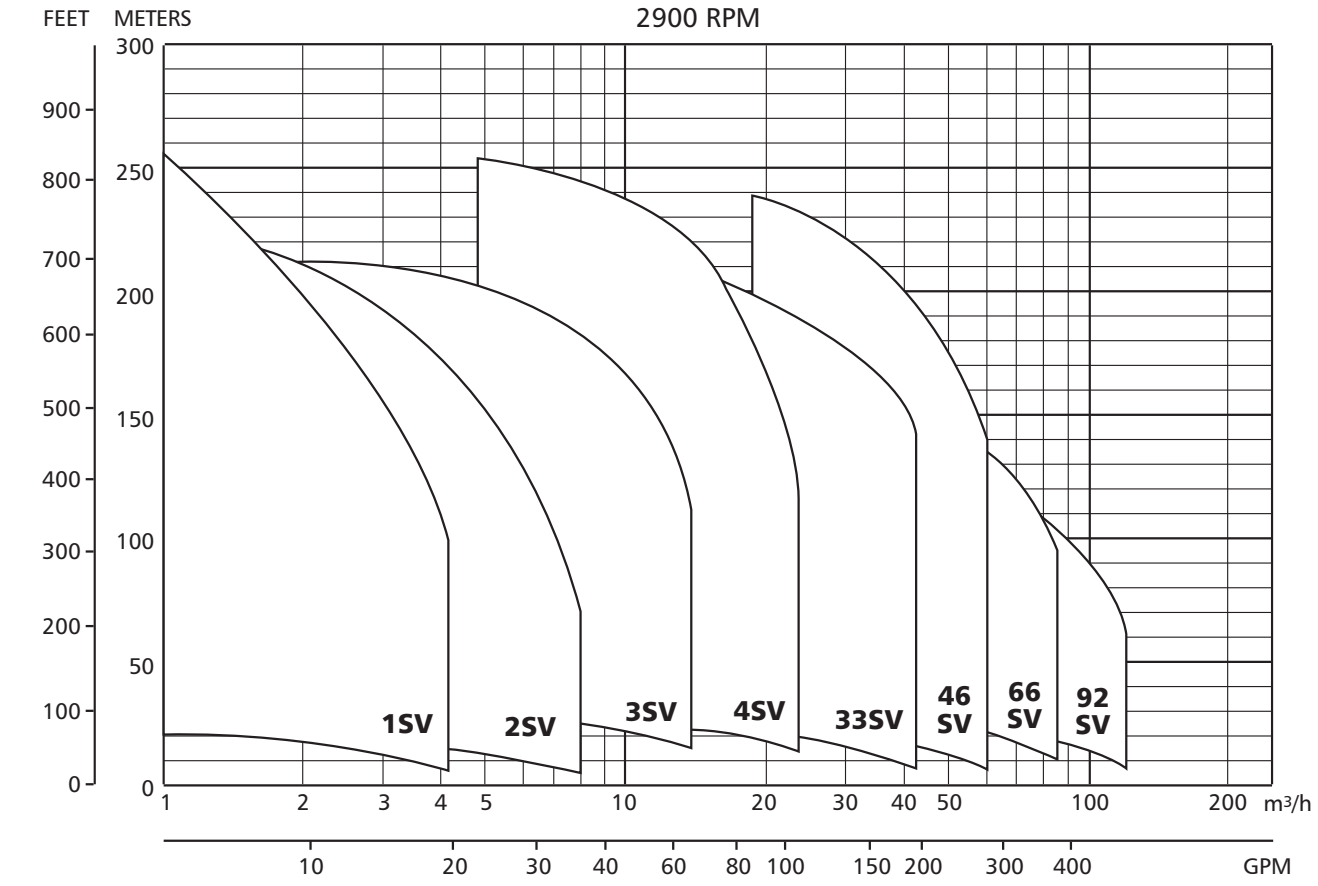
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SSV Coverage Curve





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MUNICIPAL, AGRICULTURAL, LIGHT INDUSTRY, WATER TREATMENT,
HEATING AND AIR CONDITIONING

Applications

- Handling of water, free of suspended solids, in the municipal, industrial and agricultural markets
- Pressure boosting and water supply systems
- Fire fighting jockey pumps
- Irrigation systems
- Wash systems
- Water treatment plants: reverse osmosis
- Handling of moderately aggressive liquids, demineralized water, water and glycol, etc.
- Circulation of hot and cold water for heating, cooling and conditioning systems
- Boiler feed

Specifications

PUMP

The SSV pump is a non-self priming vertical multistage pump coupled to a standard motor.
The liquid end, located between the upper cover and the pump casing, is held in place by tie rods. The pump casing is available with different configurations and connection types.

- Delivery: up to 600 GPM
- Head: up to 1200 feet
- Temperature of pumped liquid:
  -20ºF to 250ºF (-30ºC to 120ºC) standard version
- Maximum operating pressure
  – with oval flanges: 230 PSI (15 bar)
  – with round flanges or Victaulic: 360 PSI (25 bar)
  – SV33, 46: 230, 360 or 575 PSI (16, 25 or 40 bar)*
  – SV 66, 92: 230 or 360 PSI (16 or 25 bar)*
- Direction of rotation: clockwise looking at the pump from the top down (marked with an srrow on the adapter and on the coupling).

MOTOR

- Standard NEMA TC Frame motors in open drip proof or totally enclosed fan cooled.
- 3500 RPM nominal
- Standard voltage:
  - Single phase version: 115-208/230 V, 60 Hz up to 3 HP or 208-230 V for 5 HP
  - Three phase version, 2 pole: 208-230/460 V, 60 Hz up 75 HP

* Based on pump staging

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SSV Characteristics

1SV, 2SV, 3SV, 4SV Series

- Vertical multistage centrifugal pump. All metal parts in contact with the pumped liquid are made of stainless steel.
- The following versions are available:

  B – ANSI flanges, in-line delivery and suction ports, AISI 304
  A – Oval flanges (NPT), in-line delivery and suction ports, AISI 304
  C – ANSI flanges, delivery port above the suction port, with four adjustable positions, AISI 304
  D – ANSI flanges, in-line delivery and suction ports, AISI 316
  VIC – Victaulic couplings, in-line delivery and suction ports, AISI 316
- Reduced axial thrusts enable the use of standard NEMA TC motors that are easily found in the market
- Seal housing chamber designed to prevent the accumulation of air in the critical area next to the mechanical seal
- Mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069
- Versions with ANSI flanges that can be coupled to ANSI raised face counter-flanges
- Threaded oval counter-flanges made of stainless steel are standard supply for the A versions
- Easy maintenance. No special tools required for assembly or disassembly
- Standard version for temperatures ranging from: -20ºF to 250ºF (30ºC to 120ºC)

33SV, 46SV, 66SV, 92SV Series

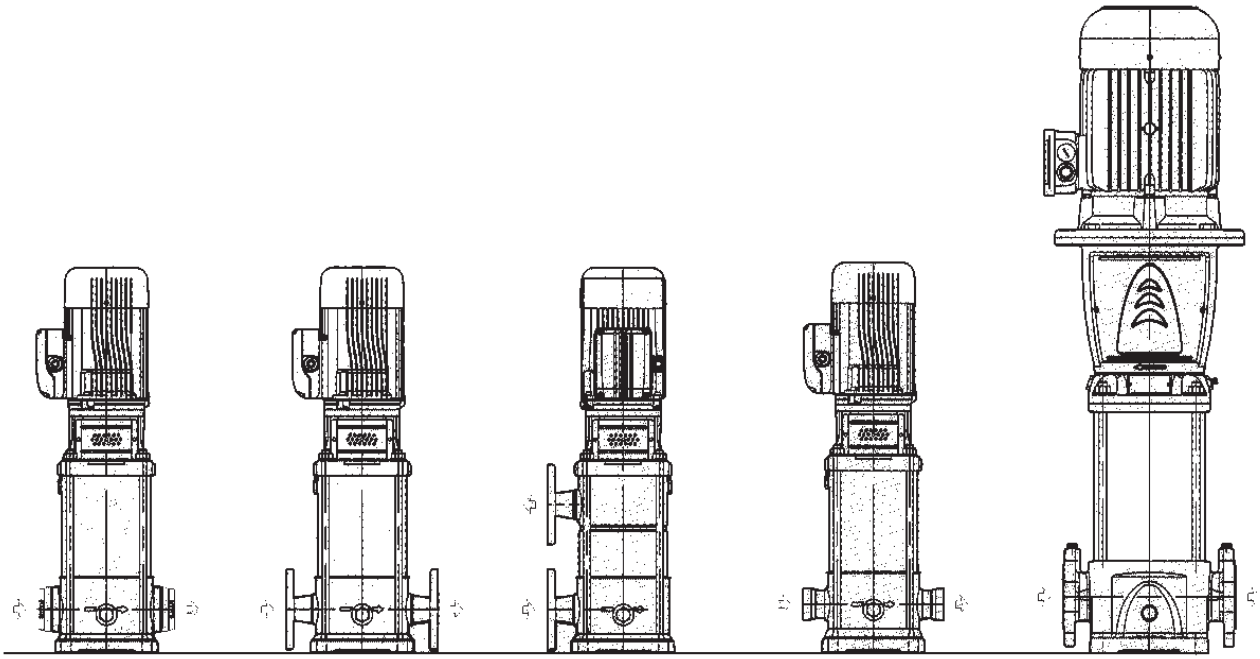
- Vertical multistage centrifugal pump with impellers, diffusers and outer sleeve made entirely of stainless steel, and with pump casing and motor adapter made of cast iron in the standard version
- D version made entirely of AISI 316 stainless steel
- High heads and capacities four sizes: 33SV, 46SV, 66SV, 92SV (replacing the precious models 5SV and 6SV)
- Re-designed liquid end provides improved efficiency and energy savings
- Innovative axial load compensation system on pumps with higher head. This ensures reduced axial thrusts and enables the use of standard NEMA TC motors that are easily found in the market.
- Balanced mechanical seal according to EN 12756 (ex DIN 24960) and ISO 3069, which can be replaced without removing the motor from the pump
- Seal housing chamber designed to prevent the accumulation of air in the critical area next to the mechanical seal
- Standard version for temperature ranging from: -20ºF to 250ºF (-30ºC to 120ºC)
- Pump body fitted with taps for installing pressure gauges on both suction and delivery flanges
- In-line ports with ANSI flanges that can be coupled to counter-flanges, in compliance with ANSI raised face.
- Mechanical sturdiness and easy maintenance. No special tools required for assembly or disassembly.

Optional Features

- Horizontal version.
- Special voltages, 50 Hz frequency.
- Special materials for the mechanical seal, gaskets and elastomers,
- "DPS" sets consisting of two "SV" electric pumps made of AISI 316, connected in series to obtain a total head equal to the sum of the single heads of the two electric pumps.
- Tropicalized motors.
- Premium E and explosion proof motors.
- 1750 RPM, 4 pole motors.

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General Characteristics
2-pole



SVA
1SV, 2SV, 3SV

SVB, SVD
1SV, 2SV, 3SV, 4SV

SVC
1SV, 2SV, 3SV, 4SV

VICTAULIC
1SV, 2SV, 3SV, 4SV

SVB, SVD
33SV, 46SV, 66SV, 92SV

SSV Product Range	1SV	2SV	3SV	4SV	33SV	46SV	66SV	92SV
Nominal Flow (GPM)	15	30	60	85	150	220	350	450
Flow Range (GPM)	2 – 22	6 – 40	11 – 75	17 – 110	30 – 195	45 – 285	70 – 420	90 – 580
Max. Head (Ft)	1100	945	1005	930	1125	1210	850	715
Max. Working Pressure (PSI) ②	360 PSIG ①				360 / 580 PSIG			
Temperature Range	-20ºF to 250ºF (-30ºC to -121ºC)							
Motor Power (HP)	½ – 5 HP	¾ – 5 HP	2 – 15 HP	5 – 20 HP	3 – 60 HP	7½ – 75 HP	10 – 75 HP	15 – 75 HP
Max. Pump Efficiency	44%	58%	64%	67%	76%	78%	78%	80%
Material of Construction								
SVA	AISI 304SS				–	–	–	–
SVB	AISI 304SS				Cast Iron / AISI 316L			
SVC	AISI 304SS				–	–	–	–
SVD	AISI 316LSS				Cast Stainless Steel / AISI 316L			
Connection Sizes								
SVA – Oval NPT	1" NPT (female)	1¼" NPT (female)	1½" NPT (female)	–	–	–	–	–
SVB – Round ANSI Size/Class	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2½" 125/250#	3" 1325/250#	4" 125/250#	4" 125/250#
SVC – Top/Bottom Round ANSI – Size/Class	1¼" 300#	1¼" 300#	2" 300#	2" 300#	–	–	–	–
SVD – Round ANSI Size/Class	1¼" 300#	1¼" 300#	2" 300#	2" 300#	2½" 150/300#	3" 150/300#	4" 150/200#	4" 150/300#
Optional Connections (on request)								
Victaulic (PJE)	1¼" (Victaulic)	1¼" (Victaulic)	2" (Victaulic)	2" (Victaulic)	–	–	–	–

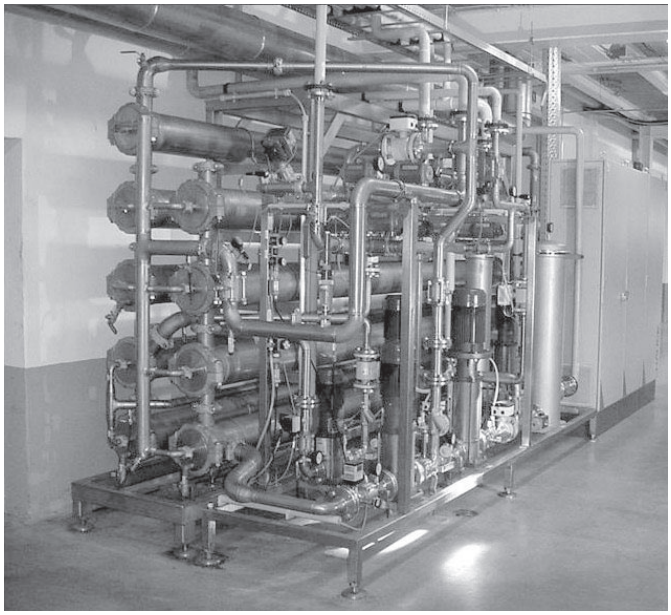
① Some staging may have MAWP of 580 psi (40 bar).

② See pages 53-60 for specific details.

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Water Supply and Pressure Boosting

- Pressure boosting in buildings, hotels, residential complexes
- Pressure booster stations, supply of water networks
- Booster packages



Water Treatment

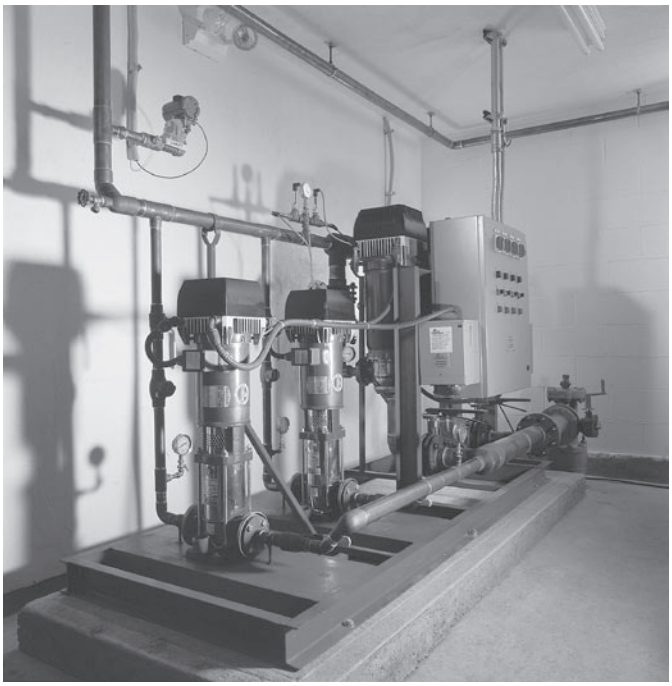
- Ultrafiltration systems
- Reverse osmosis systems
- Water softeners and de-mineralization
- Distillation systems
- Filtration

Light Industry

- Washing and cleaning plants (washing and degreasing of mechanical parts, car and truck wash tunnels, washing of electronic industry circuits)
- Commercial washers
- Firefighting system pumps

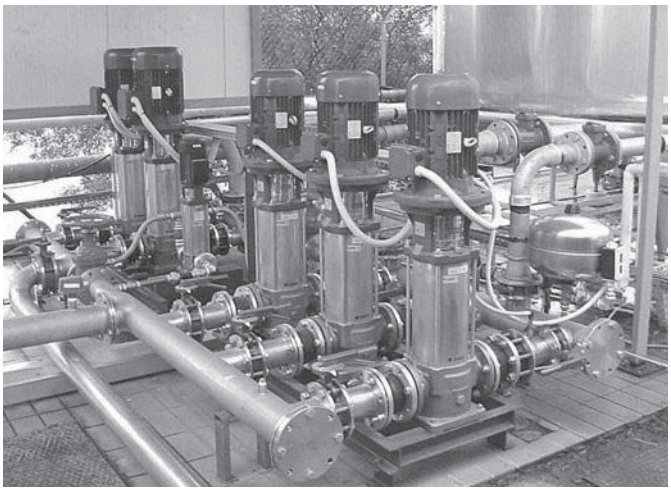
Irrigation and Agriculture

- Greenhouses
- Humidifiers
- Sprinkler irrigation



Heating, Ventilation and Air Conditioning (HVAC)

- Cooling towers and systems
- Temperature control systems
- Refrigerators
- Induction heating
- Heat exchangers
- Boilers
- Water recirculation and heating





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SSV Product Line
Numbering System for 1 – 4SV

The various versions of the SSV line 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.
Note: Not all combinations are possible. Consult your G&L distributor.

Example Product Code

2 SV A 1 D 2 B 1 H

Options: H = Horizontal mount, **refer to back cover**
VIC = Victaulic connections **(1SVB/D – 4SVB/D only)**

Mechanical Seal Options:

Code No.	Rotary	Stationary	Elastomer	Reference Application
0	High Temp. Carbon	Silicon Carbide Graphite Filled	Viton	General Service
4	Silicon Carbide Graphite Filled			Abrasive
6	High Temp. Carbon		EPR	Boiler Feed

Number of Stages:
B = 2 D = 4 F = 6 H = 8 K = 10 M = 12 P = 14 R = 16 V = 20 Z = 24
C = 3 E = 5 G = 7 J = 9 L = 11 N = 13 Q = 15 T = 18 X = 22

Driver: (50 Hz, no single phase number 0, 1, 4)
1 = 1 PH, ODP 3 = 575V, ODP 5 = 3 PH, TEFC 7 = 3 PH, XP 9 = 3 PH, TEFC with premium efficiency
2 = 3 PH, ODP 4 = 1 PH, TEFC 6 = 575V, TEFC 8 = 575V, XP 0 = 1 PH, XP

HP Rating:
C = ½ E = 1 G = 2 J = 5 L = 10 N = 20
D = ¾ F = 1½ H = 3 K = 7½ M = 15 P = 25

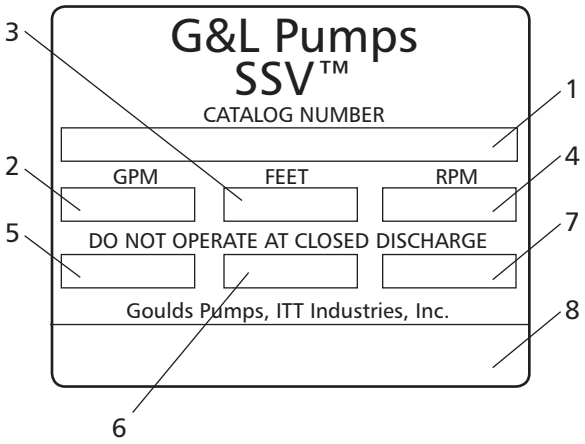
Hertz/RPM:
1 = 60 Hz, 3500 RPM
2 = 50 Hz, 2900 RPM, 190-380 V, (50 Hz motor)
3 = 60 Hz, 3500 RPM, 380 V
4 = 50 Hz, 2900 RPM, 460 V
5 = 60 Hz, 3500 RPM, 220-380 V, D.O.L.
6 = 60 Hz, 3500 RPM, 380 V, Y-DELTA
7 = 60 Hz, 1750 RPM, 208-230, 460 V

Material and Suction/Discharge:
A = 304 stainless steel, in-line NPT threaded oval flange connections (1, 2, 3 only)
B = 304 stainless steel, in-line ANSI flange (1, 2, 3, 4SV)
C = 304 stainless steel, top/bottom ANSI flange connections
D = 316 stainless steel, in-line ANSI flange

Product Line: Stainless Vertical

Nominal Flow: 1 = 15 GPM 2 = 28 GPM 3 = 55 GPM
4 = 86 GPM

Rating Plate 1, 2, 3 and 4SV



1	Goulds Catalog Number
2	Capacity Range
3	TDH Range
4	Rated Speed
5	Rated Horsepower
6	Maximum Operating Pressure
7	Maximum Operating Temperature
8	Pump Serial Number

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SSV Product Line
Numbering System for 33 – 92SV

The various versions of the SSV line 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.
Note: Not all combinations are possible. Consult your G&L distributor.

Example Product Code

33 SV B G 1 2 R 6 T A H

Pump Options (optional – to be listed in sequential order)

H = Horizontal mounting
Q= 1.0 Service Factor Version (AQ)
D = High Pressure Pump (40 Bar) ①
T = Alternative Motor Frame

Seal Options:

	Code No.	Rotary	Stationary	Elastomers
Mechanical Seal	A	Silicon Carbide	Carbon	Viton
	B			EPR
	C		Silicon Carbide	Viton
	D			EPR
Cartridge Seal	L	Silicon Carbide Graphite Filled	Carbon	Viton
	P		Silicon Carbide	EPR

– Metal parts on all seals are 316SS.
– Silicon carbide is graphite filled.

Motor Enclosure:

D = ODP
X = Explosion Proof
T = TEFC
P = TEFC Premium Effy

Motor Voltage:

1 = 115/230
2 = 230
3 = 230/460
4 = 460
5 = 575
6 = 208-230/460
7 = 200
8 = 190/380

HP Rating:

G = 2 HP
H = 3 HP
J = 5 HP
K = 7½ HP
L = 10 HP
M = 15 HP
N = 20 HP
P = 25 HP
Q = 30 HP
R = 40 HP
S = 50 HP
T = 60 HP
U = 75 HP

Motor Hertz/Speed/Phase:

1 = 60 Hz/3500/1
2 = 60 Hz/3500/3
3 = 60 Hz/1750/1
4 = 60 Hz/1750/3
5 = 50 Hz/2900/1
6 = 50 Hz/2900/3
7 = 50 Hz/1450/1
8 = 50 Hz/1450/3
9 = 60 Hz/Variable/3

Number of Reduced Impellers (can be 0, 1, 2) *

Total Bowls/Stages:

A = 1
B = 2
C = 3
D = 4
E = 5
F = 6
G = 7
H = 8
J = 9
K = 10

Flange Orientation:

B = Cast Iron/316 stainless steel, in-line ANSI flange
D = 316 stainless steel, in-line ANSI flange

Product Line:

Stainless Vertical Vertical

Nominal Flow:

33 = 150 GPM
46 = 225 GPM
66 = 350 GPM
92 = 450 GPM

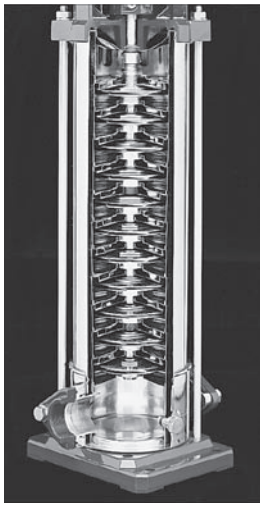
*** NOTE:** Indicates number of reduced diameter impellers in the total staging.
(2 would indicate 2 reduced diameter impellers)

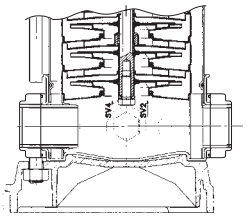
① Alternative motor frame will be next larger frame size than what is standard.

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Base Models: 1SV, 2SV, 3SV and 4SV Major Components

Series SVA

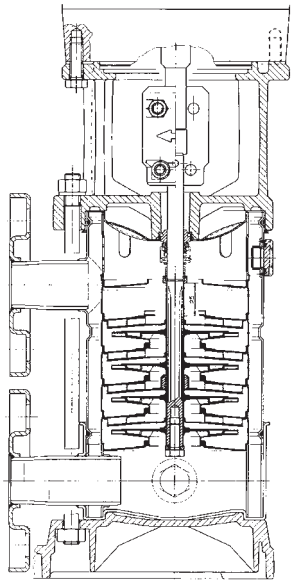




In-line NPT connections

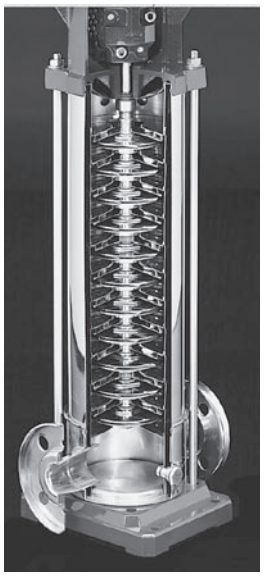
Series SVC

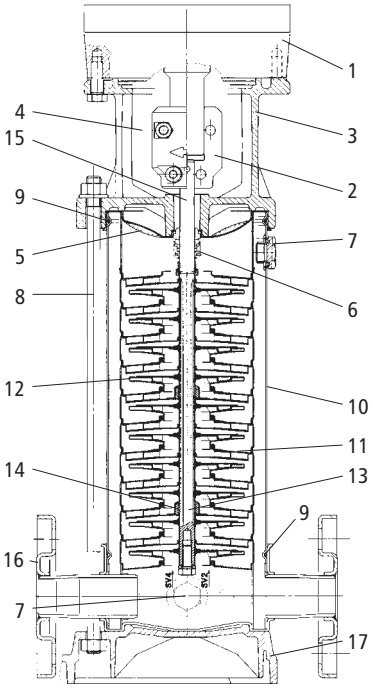




Top and bottom suction/discharge design

Series SVB or SVD





In-line ANSI flange connections

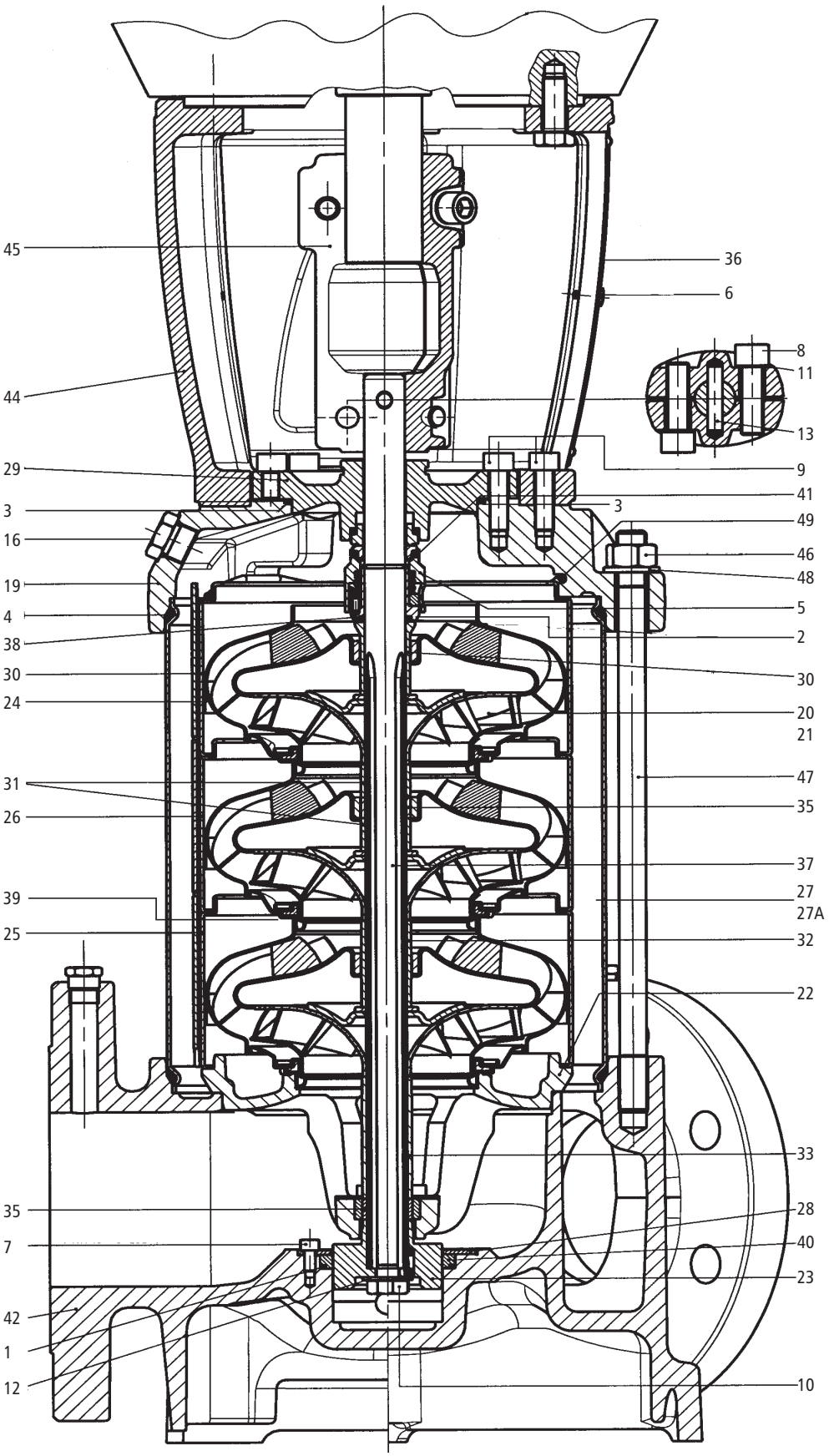
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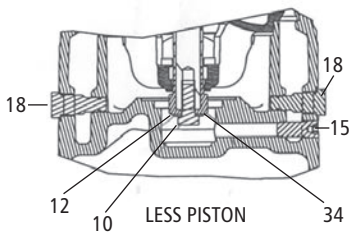
Base Models: 1SV, 2SV, 3SV and 4SV Major Components

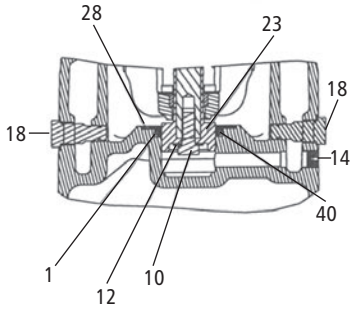
No.	Description	SVA, SVB, SVC (1, 2, 3 and 4 SSV Sizes)			SVD (1, 2, 3 and 4 SSV Sizes)		
		Material	ASTM	DIN	Material	ASTM	DIN
1	NEMA Vertical Motor						
2	Rigid Coupling	Aluminum	B85	AC46100	Aluminum	B85	AC46100
		Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
3	Motor Adapter	Cast Iron	A48 Class 35	JL1040	Cast Iron	A48 Class 35	JL1040
4	Coupling Guard	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-304	1.4301
5	Seal Housing	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-316L	1.4404
6	Mechanical Seal	See Seal Materials Chart for Complete Details			See Materials Chart for Complete Details		
7	Plugs, Fill and Drain	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
8	Tie Rod	Zinc Plated Steel	B633	1.0765	Zinc Plated Steel	B633	1.0765
9	O-Ring, Sleeve	Viton (std) EPDM (opt)	B633		Viton (std) EPDM (opt)	B633	
10	Sleeve (casing)	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-316L	1.4404
11	Diffuser	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
12	Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
13	Tungsten Carbide Sleeve	Tungsten Carbide			Tungsten Carbide		
14	Ceramic Bushing	Ceramic			Ceramic		
15	Shaft	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-316	1.4401
16	Pump Body	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-316L	1.4401
17	Pump Base	Aluminum	B85	AC46100	Aluminum	B85	AC46100

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Base Model: 33SV, 46SV, 66SV and 92SV
Major Components







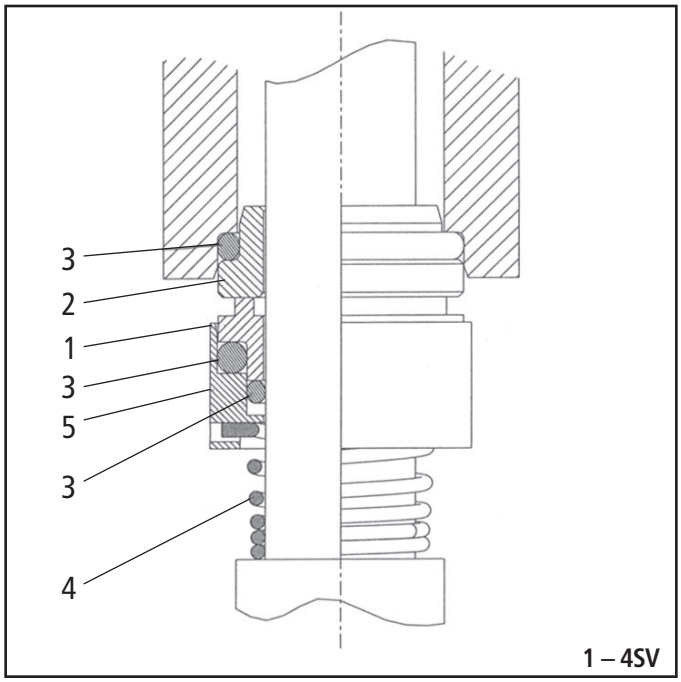
WITH PISTON

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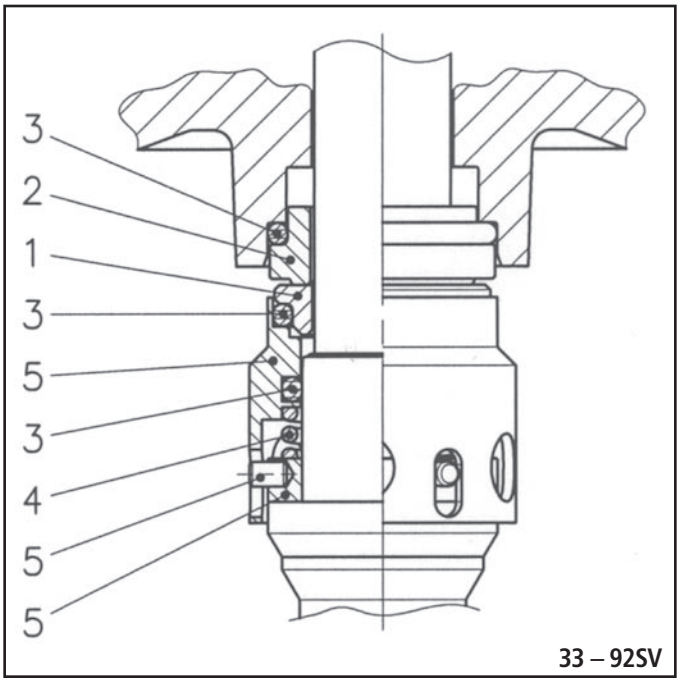
Base Model: 33SV, 46SV, 66SV and 92SV
Major Components

No.	Description	SVB (33 – 92SV)			SVD (33 – 92SV)		
		Material	ASTM	DIN	Material	ASTM	DIN
1	O-Ring, Piston Seal	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
2	O-Ring, Mechanical Seal Sleeve	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
3	O-Ring, Seal housing	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
4	O-Ring, Sleeve	Viton (std) EPDM (opt)			Viton (std) EPDM (opt)		
5	Mechanical Seal	See Seal Materials Chart for Complete Detail			See Seal Materials Chart for Complete Details		
5A	Cartridge Seal (not shown)						
6	Screw, Guard	Stainless Steel	A193-304	1.4301	Stainless Steel	A193-304	1.4301
7	Screw, Piston Holding Disc	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
8	Screw, Coupling	Zinc Plated Steel	B363		Zinc Plated Steel	B633	
9	Screw, MA and Seal Housing	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
10	Screw, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
11	Washer, Coupling	Carbon Steel	A108		Carbon Steel	A108	
12	Washer, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
13	Pin, Coupling	Carbon Steel	A108		Carbon Steel	A108	
14	Plug, with Piston	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
15	Plug, without Piston	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
16	Plug, Fill	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
17	Plug, Vent (not shown)	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
18	Plug, Drain	Stainless Steel/O-Ring	A193-316	1.4401	Stainless Steel/O-Ring	A193-316	1.4401
19	Pump Head	Cast Iron	A48 Class 35	JL1030	Stainless Steel	316 CF8M	1.4408
20	Impeller, Full Diameter	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
21	Impeller, Reduced Diameter	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
22	Lower Bearing Assembly	SS/Cast Iron	A193-316L/A48 Class 35	1.4404/JL1030	Stainless Steel	A193-316L/316 CF8M	1.4404/1.4408
23	Piston	Dupless SS	A182-F51	1.4462	Dupless SS	A182-F51	1.4462
24	Diffuser, Final	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
25	Diffuser with Carbon Bushing	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
26	Diffuser with Tungsten Bushing	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
27	Outer Sleeve, 25 Bar	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
27A	Outer Sleeve, 40 Bar	Stanless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
28	Holding Disc, Piston Seal	Stainless Steel	A193-316L	1.4404	Stainless Steel	A193-316L	1.4404
29	Seal Housing	Cast Iron	A48 Class 35	JL1030	Stainless Steel	316 CF8M	1.4408
30	Spacer, Impeller Final	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
31	Spacer, Shaft Bushing	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
32	Spacer, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
33	Spacer, Impeller Lower (66-92SV)	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
34	Bushing, Non-Piston	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
35	Tungsten Carbide Bushing	Tungsten Carbide			Tungsten Carbide		
36	Coupling Guard	Stainless Steel	A193-304	1.4301	Stainless Steel	304	1.4301
37	Shaft	Dupless SS	A182-F51	1.4462	Dupless SS	A183-F51	1.4462
38	Mechanical Seal Shaft Sleeve	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
39	Wear Ring, Impeller	PPS Glass Filled			PPS Glass Filled		
40	Piston Seal	Impregnated Carbon			Impregnated Carbon		
41	Stop Ring, Impeller	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401
42	Pump Body	Cast Iron	A48 Class 35	JL1030	Stainless Steel	316 CF8M	1.4408
43	Motor Adapter Plate (not shown)	Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
44	Motor Adapter	Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
45	Coupling, Half	Cast Iron	A48 Class 25	JL1030	Cast Iron	A48 Class 25	JL1030
46	Nut, Tie-Rod	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
47	Tie-Rod	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
48	Washer, Tie-Rod	Zinc Plated Steel	B633		Zinc Plated Steel	B633	
49	Spring, Final Diffuser	Stainless Steel	A193-316	1.4401	Stainless Steel	A193-316	1.4401

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1 – 4SV



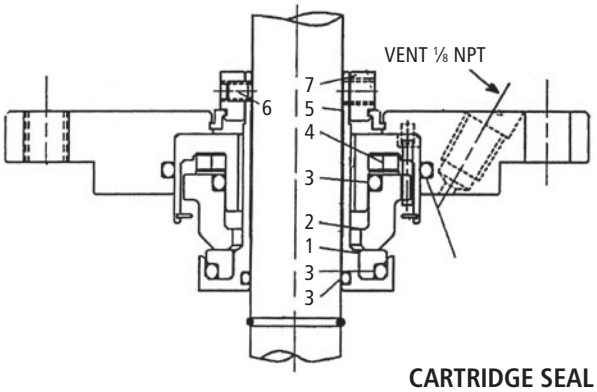
33 – 92SV

Pump	Rotating Face 1	Stationary Face 2	Elastomers 3	Spring 4	Metal Components 5	Elastomer Temp. Limits °F (°C)	Maximum Working Pressure	Application Use
1SV 2SV 3SV 4SV	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 – 392°F (-10 – 200°C)	363 psi (25 bar)	General Service
	Silicon Carbide Graphite Filled							Abrasive
	Carbon		EPR			-30 – 300°F (-34 – 150°C)		Boiler Feed
33SV 46SV 66SV 92SV	Carbon	Silicon Carbide Graphite Filled	Viton	316SS	316SS	-14 – 392°F (-10 – 200°C)	580 psi (40 bar)	General Service
	Silicon Carbide Graphite Filled							Abrasive
	Carbon		EPR			-22 – 250°F (-30 – 120°C)		Boiler Feed

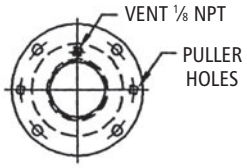
NOTE: Pump max. temperature limit is 250°F.

OPTIONAL CARTRIDGE SEAL

Pump	Rotating Face 1	Stationary Face 2	Elastomers 3	Spring 4	Sleeve 5	Set Screw 6	Locking Collar
33SV	Silicon Carbide	Carbon	Viton	316SS	316SS	300SS	316SS
46SV							
66SV		Silicon Carbide	EPR				
92SV							

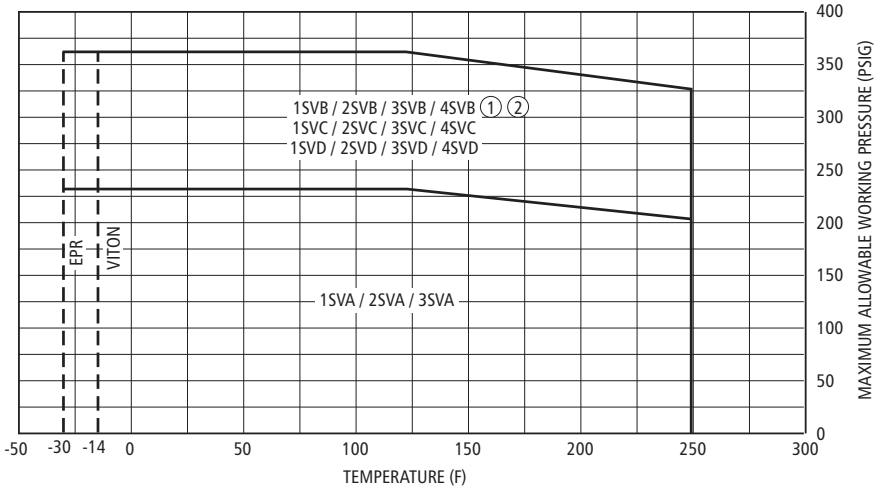


CARTRIDGE SEAL



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1SV, 2SV, 3SV, 4SV
304SS / 316SS (SVA, SVB, SVC, SVD)

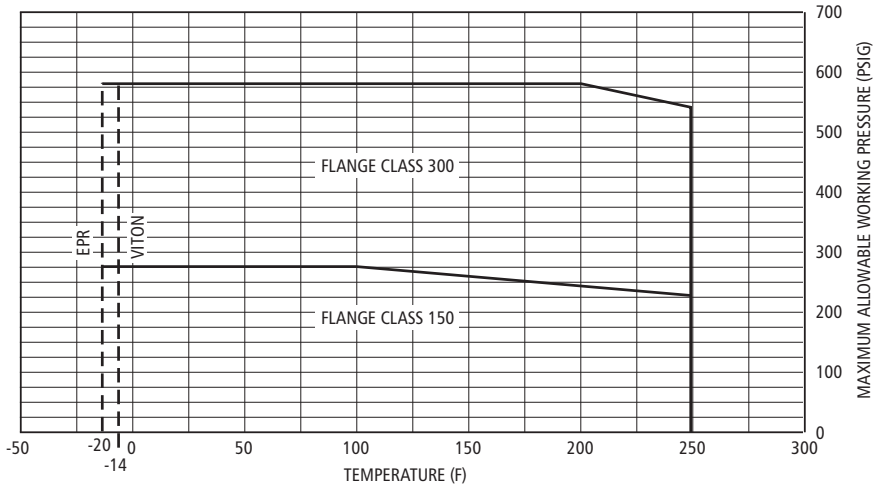


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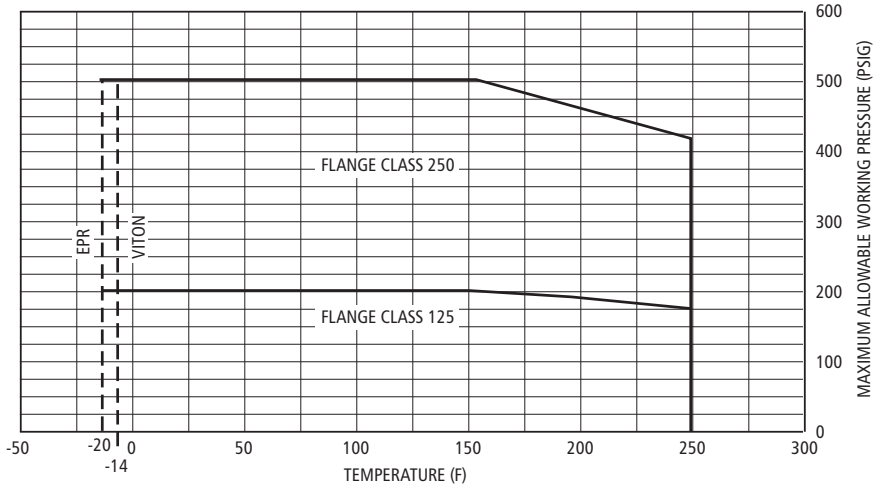
(1) Pressure rating for victaulic connections

(2) Some staging may have higher pressure rating. See pages 55-56.

33SV, 46SV, 66SV, 92SV
316SS (CF8M)



33SV, 46SV, 66SV, 92SV
Cast Iron Class 35 (ASTM A48)



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Motor Data – Starts per Hour / Minimum Run Time

HP	Max Starts per Hour (evenly distributed)	Min. run time between starts (seconds)
1	15	75
1.5	13	76
2	12	77
3	9	80
5	8	83
7.5	7	88
10	6	92
15	5	100
20	5	110
25	5	115
30	4	120
40	4	130
50	3	145
60	3	170
75	3	180

NOTE(S)

1) Recommended motor starts per hour and minimum run time calculated based on NEMA standards MG1-12.44 in accordance to manufacturers allowable tolerance for heat rise and insulation breakdown.
2) Applied voltage and frequency in accordance with NEMA MG1-12.44
3) Starts based on NEMA **three phase** design A and design B AC induction motors.
4) External load WK2 is equal to or less than the values listed in NEMA MG1-12.54
5) Applicable to all NEMA (JM, JP, T and TC frame) motors used for Goulds Pumps products.
6) Applicable to three phase motors only.

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3500 RPM, 60Hz

HP	Phase	Enclosure	Nameplate Voltage	NEMA Frame	Goulds PN ②	FLA	SFA	LRA ①	S.F.	Efficiency	Insulation Class
½	1	ODP	115/230	56C	V04721	7/3.6-3.5	7.9/4.06-3.95	21	1.15	66	B
		TEFC	115/230	56C	V04722	7/3.6-3.5	7.9/4.06-3.95	21	1.15	66	B
	3	ODP	230/460	56C	V04741	2.1/2-1	2.52/2.4-1.2	6	1.25	68	B
		TEFC	230/460	56C	V04742	2.1/2-1	2.52/2.4-1.2	6	1.25	68	B
		X-Proof	230/460	56C	V04743	2.1/2-1	NA	6	1	68	B
¾	1	ODP	115/230	56C	V05721	9.4/4.9-4.7	10.8/5.63-5.4	26	1.25	72	B
		TEFC	115/230	56C	V05722	9.6/5-4.8	11.4/5.94-5.7	28	1.25	66	B
	3	ODP	230/460	56C	V05741	2.7-2.6/1.3	3.15-3/1.5	7.6	1.25	74	B
		TEFC	230/460	56C	V05742	2.7-2.6/1.3	3.15-3/1.5	7.6	1.25	74	B
		X-Proof	230/460	56C	V05743	2.7-2.6/1.4	NA	7.6	1	74	B
		Prem. Eff. TEFC	230/460	56C	V05742PE	2.0/1.0	2.3/1.15	7	1.15	82.5	B
1	1	ODP	115/230	56C	V06721	15/7.9-7.5	15.8/8.217.9	48	1.25	65	B
		TEFC	115/230	56C	V06722	11/5.5	13.5/6.75	38.5	1.25	66	B
	3	ODP	230/460	56C	V06741	3.7-3.6/1.8	3.99-3.8/1.9	11	1.25	75.5	B
		TEFC	230/460	56C	V06742	3.7-3.6/1.8	3.99-3.8/1.9	11	1.25	75.5	B
		X-Proof	230/460	56C	V06743	3.7-3.6/1.9	NA	11	1	75.5	B
		Prem. Eff. TEFC	230/460	56C	V06742PE	2.8/1.4	3.12/1.56	12.1	1.25	84.5	B
1½	1	ODP	115/230	56C	V07721	12.8/7-6.4	14.5/7.9-7.3	76	1.15	80	B
		TEFC	115/230	56C	V07722	16/8.4-8	18/10-9	50	1.15	70	B
	3	ODP	230/460	56C	V07741	4.9-4.6/2.3	5.3-5.1/2.54	18.4	1.15	80	B
		TEFC	230/460	56C	V07742	4.9-4.6/2.3	5.3-5.1/2.54	18.4	1.15	80	B
		X-Proof	230/460	56C	V07743	5-4.6/2.3	NA	16	1	75.5	B
		Prem. Eff. ODP	230/460	56C	V07741PE	4.2/2.1	4.6/2.3	16	1.15	85.5	B
		Prem. Eff. TEFC	230/460	56C	V07742PE	4.0/2.0	4.5/2.25	20.1	1.15	85.5	B
2	1	ODP	115/230	56C	V08721	24/12.6-12	28.6/14.3	80	1.15	70	B
		TEFC	115/230	56C	V08722	23/12-11.5	24.2/12.1	78	1.15	74	B
	3	ODP	208-230/460	56C	V08741	6.2-5.8/2.9	7.2-6.52/3.26	22	1.15	80	B
		TEFC	208-230/460	56C	V08742	6.2-5.8/2.9	7.2-6.52/3.26	22	1.15	80	B
		X-Proof	208-230/460	56C	V08743	5.4/2.7	N/A	17.5	1	78.5	B
		Prem. Eff. ODP	208-230/460	56C	V08741PE	5.5-5/2.5	6.2-5.6/2.8	22	1.15	86.5	B
		Prem. Eff. TEFC	208-230/460	56C	V08742PE	5/4.75-2.5	6.4-5.8/2.9	30	1.15	86.5	B
3	1	ODP	230	56C	V09721	14.4/13	16.4-14.8	108	1.15	82.5	B
		TEFC	115/230	56C	V09722	27/13.5	33/18/16.5	11.4	1.15	80	F
	3	ODP	208-230/460	56C	V09741	8.5-8/4	10-9/4.5	30.9	1.15	80	F
		TEFC	208-230/460	56C	V09742	8.1-7.6/3.8	9.5-8.6/4.3	32.9	1.15	82.5	F
		X-Proof	208-230/460	56C	V09743	7.8-7.4/3.7	NA	27	1	82.5	F
		Prem. Eff. ODP	208-230/460	56C	V09741PE	7.4/3.7	9.1-8.2/4.1	29	1.15	87.5	F
		Prem. Eff. TEFC	208-230/460	184TC	V09742PE	6.8/3.4	8.5-7.7/3.8	32	1.15	88.5	F
5	1	ODP	208-230	184TC	V10721A	24-23	30.1-27.2	125	1.15	75	F
		TEFC	208-230	184TC	V10722A	23.5	41.8-37.8	110	1.15	84	F
	3	ODP	208-230/460	184TC	V10741A	13.1-11.5/5.7	15.3-13.8/6.9	48	1.15	84	F
		TEFC	208-230/460	184TC	V10742A	13.2-12/6	15-13.6/6.8	47	1.15	85.5	F
		X-Proof	230/460	184TC	V10743A	13.2-12/6	NA	47	1	85.5	F
		Prem. Eff. ODP	208-230/460	184TC	V10741APE	11.2/5.6	14.4-13/6.5	55	1.15	90.2	B
		Prem. Eff. TEFC	208-230/460	184TC	V10742APE	11.2/5.7	14.4-13/6.5	55	1.15	90.2	F

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3500 RPM, 60Hz

HP	Phase	Enclosure	Nameplate Voltage	NEMA Frame	Goulds PN ②	FLA	SFA	LRA ①	S.F.	Efficiency	Insulation Class
7.5	1	ODP	230	213TC	V11721	29	35	185	1.15	84	F
		TEFC	230	213TC	V11722	35	NA	220	1	83	F
	3	ODP	208-230/460	184TC	V11741A	19	22.3-20.2/10.1	76	1.15	88.5	F
		ODP	208-230/460	184TC	V11741BB	19-18/9	22.3-20.2/10.1	76	1.15	85.5	B
		TEFC	208-230/460	184TC	V11742BB	18.3-17.4/8.7	21.7-19.7/9.8	99	1.15	88.5	F
		TEFC	208-230/460	184TC	V11742A	18.5/17.4	21.7-19.6/9.8	94	1.15	88.5	F
		X-Proof	230/460	184TC	V11743A	17.6/8.8	N/A	76	1.15	87.5	B
		Prem. Eff. ODP	208-230/460	184TC	V11741APE	16.8/8.4	21.2-19.2/9.6	87	1.15	90.2	F
		Prem. Eff. TEFC	230/460	213TC	V11742APE	17.8/8.9	20.2/10.1	75	1.15	90.2	F
10	1	ODP	230	213TC	V12721	48-46	51.6	280	1.15	83	F
		TEFC	230	213TC	V12722	40	NA	284	1	82	F
	3	ODP	208-230/460	213TC	V12741	25.6-23.2/11.6	29.9-27/13.5	67	1.15	88.5	F
		TEFC	208-230/460	215TC	V12742	25-24/12	30.5-27.6/13.8	105	1.15	85.5	F
		X-PROOF	230/460	215TC	V12743	23.2/11.6	35.2/17.6	99.2	1.15	89.5	F
		Prem. Eff. ODP	208-230/460	213TC	V12741PE	23/11.5	29.2-26.4/13.2	98	1.15	91.7	F
		Prem. Eff. TEFC	230/460	215TC	V12742PE	23.8/11.9	27.6/13.8	112	1.15	89.5	F
15	3	ODP	208-230/460	215TC	V13741	35/17.5	43.8-39.6/19.8	124	1.15	89.5	F
		TEFC	208-230/460	254TC	V13742	35/17.5	43-39/19.5	165	1.15	86.5	F
		X-Proof	230/460	254TC	V13743	35.6/16.8	38.8/19.4	108	1.15	90.2	F
		Prem. Eff. ODP	208-230/460	215TC	V13741PE	34/17	43.8-39.6/19.8	143	1.15	91.7	F
		Prem. Eff. TEFC	208-230/460	254TC	V13742PE	34.4/17.2	43.8-39.6/19.8	112	1.15	91.7	F
20	3	ODP	230/460	254TC	V14741	46/23	51.4/25.7	175	1.15	87.5	F
		TEFC	208-230/460	256TC	V14742	46/23	59.3-53.6/26.8	160	1.15	89.5	F
		X-Proof	230/460	256TC	V14743	46/23	51.6/25.8	153	1.15	90.2	F
		Prem. Eff. ODP	208-230/460	254TC	V14741PE	45/22.5	57.5-52/26	144.8	1.15	92.4	F
		Prem. Eff. TEFC	208-230/460	256TC	V14742PE	46/23	57.5-52/26	201	1.15	92.4	F
25	3	ODP	208-230/460	256TC	V15741	60/30	75.9-68.6/34.3	160	1.15	88.5	F
		TEFC	208-230/460	284TC	V15742	59/29.5	74.8-67.6/33.8	182	1.15	88.5	F
		ODP	208-230/460	256TC	V15741BB	65-60/30	75.9-68.6/34.3	160	1.15	88.5	B
		TEFC	208-230/460	256TC	V15742BB	62-56/28	72.3-65.4/32.7	184	1.15	90.2	F
		X-Proof	230/460	284TC	V15743	57/28.5	66/33	204	1.15	91	F
		Prem. Eff. ODP	230/460	256TC	V15741PE	58/29	66.8/33.4	204	1.15	92.4	F
		Prem. Eff. TEFC	230/460	284TC	V15742PE	56/28	69.9-63.2/31.6	236	1.15	93	F
30	3	ODP	208-230/460	284TC	V16741	70/35	80.6/40.3	190	1.15	91	F
		TEFC	208-230/460	284TC	V16742	68/34	86.7-78.4/39.2	225	1.15	91	F
		X-Proof	230/460	286TC	V16743	70/35	80.5/40.25	248	1.15	91	F
		Prem. Eff. ODP	230/460	284TC	V16741PE	68/34	77.4/38.7	234	1.15	93.6	F
		Prem. Eff. TEFC	230/460	286TC	V16742PE	66/33	83.8-75.8/37.9	281	1.15	93	F
40	3	ODP	230/460	284TC	V17741	96/48	108.4/54.2	271	1.15	91	F
		TEFC	230/460	284TC	V17742	90/45	103.2/51.6	322	1.15	90.2	F
		X-Proof	230/460	324TSC	V17743	90/45	104.2/52.1	285	1.15	91.7	F
		Prem. Eff. ODP	230/460	286TC	V17741PE	110/55	127.4/63.7	408	1.15	94.1	F
		Prem. Eff. TEFC	230/460	324TSC	V17742PE	90/45	102.2/51.1	286	1.15	93.6	F
50	3	ODP	230/460	326TSC	V18741S	118/59	137/68.5	320	1.15	89.5	F
		TEFC	230/460	326TSC	V18742S	112/56	141.8-128.2/64.1	430	1.15	92.4	F
		X-Proof	230/460	326TSC	V18743S	112.00/56	129/64.5	407	1.15	92.4	F
		Prem. Eff. ODP	230/460	324TSC	V18741SPE	110/55	127.4/63.7	408	1.15	94.1	F
		Prem. Eff. TEFC	230/460	326TSC	V18742SPE	108/54	124.8/62.4	422	1.15	94.1	F

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Motor Data

HP	Phase	Enclosure	Nameplate Voltage	NEMA Frame	Goulds PN ②	FLA	SFA	LRA ①	S.F.	Efficiency	Insulation Class
60	3	ODP	230/460	326TSC	V19741S	136/68	157.4/78.7	472	1.15	93	F
		TEFC	230/460	364TSC	V19742S	138/69	173.6-157/78.5	422	1.15	90.2	F
		X-Proof	230/460	364TSC	V19743S	134/67	154.4/77.2	448	1.15	93	F
		Prem. Eff. ODP	230/460	326TSC	V19741SPE	130/65	149.4/74.7	493	1.15	94.5	F
		Prem. Eff. TEFC	230/460	364TSC	V19742SPE	134/67	150.8/75.4	580	1.15	94.1	F
75	3	ODP	230/460	365TSC	V20741S	168/84	213-193/96.5	639	1.15	93	F
		TEFC	230/460	365TSC	V20742S	168/84	213-192.8/96.4	650	1.15	91	F
		X-Proof	230/460	365TSC	V20743S	164/82	189/94.5	618	1.15	93	F
		Prem. Eff. ODP	230/460	364TSC	V20741SPE	164/82	188.8/94.4	557	1.15	94.5	F
		Prem. Eff. TEFC	230/460	365TSC	V20742SPE	166/83	188.8/94.4	740	1.15	94.5	F

NOTES:

① Locked rotor amps are for high voltage only.

② Vertical footless motor PN.

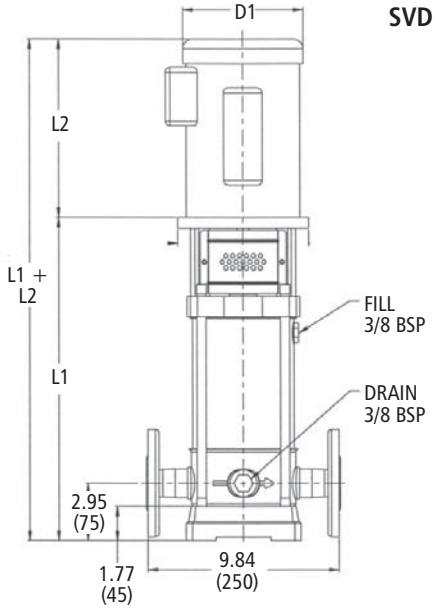
- Motors are suitable for AQUAVAR® Variable Speed Drive.

Above data is for Baldor® TC and TSC frame motors. Specifications subject to change without notice.

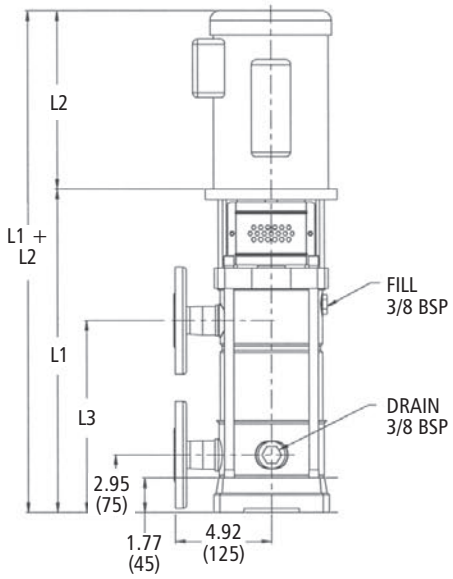
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Dimensions and Weights
1SV Series 3500 RPM

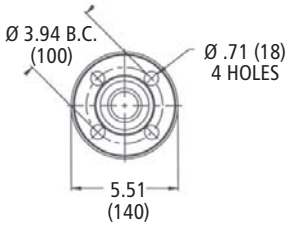
SVB
SVD



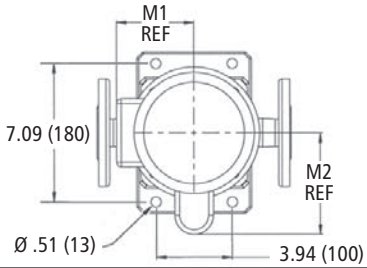
SVC



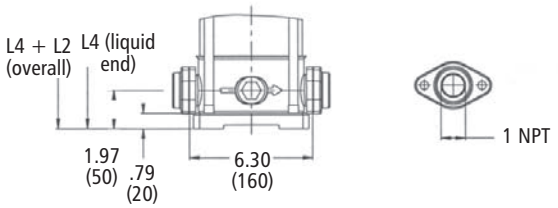
FLANGE



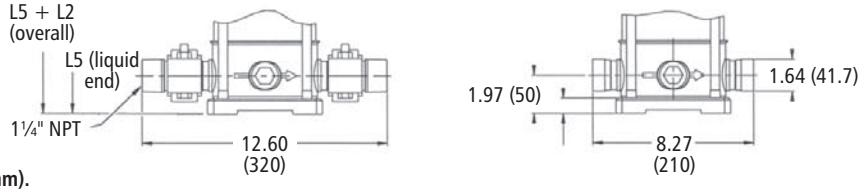
1¼" CLASS 300



SVA



VICTAULIC

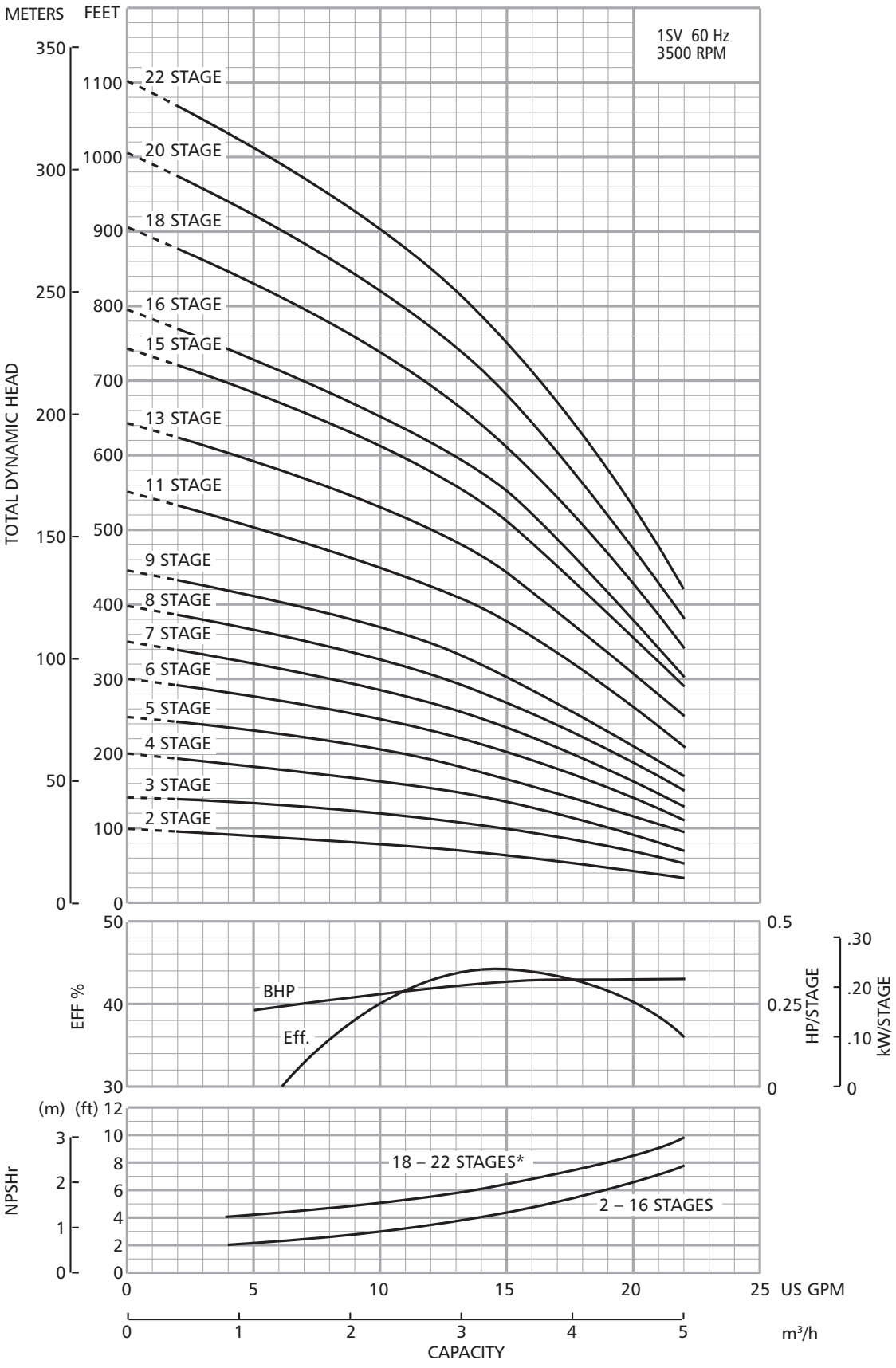


All dimensions are in inches (mm).

Stage	Frame (1-Phase)		Frame (3-Phase)				L2							D1 (max.)		Weights (lb)		
	ODP	TEFC	ODP	TEFC	HP	L1	ODP	TEFC	L3	L4	L5	M1 (ref.)	M2 (ref.)	ODP	TEFC	Liquid End	ODP	TEFC
2	56C		56C		½	12.69	9.16	9.29		11.69	11.69	5.06	5.19	6.19	6.19	21	22	22
3					¾	13.63	10.79	9.91		12.69	12.69					22	24	28
4					1	14.63	10.66	11.19		13.63	13.63	5.73	5.55		7.19	23	32	40
5					1½	15.63	10.67		8.88	14.63	14.63					25	40	43
6					2	16.63	11.19	12.06	9.88	15.63	15.63			7.19		27	43	51
7						17.56	11.19		10.81	16.63	16.63					28		
8					3	18.56	11.57	13.44	11.81	17.56	17.56		5.50	7.16		29	51	56
9						19.56			12.81	18.56	18.56					30		
11						20.50			14.75	20.50	20.50					33		
13	182-4TC		182-4TC		5	23.50	13.93	15.43	16.75		22.50	6.87	6.62	8.50	8.50	35	75	85
15						25.44			18.69		24.44					37		
16						26.44			19.69		25.81					39		
18						28.44					27.50					41		
20	213TC		213TC		7½	30.44					29.50					44	101	124
22						32.44					31.50					46		

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1SV Curve 3500 RPM

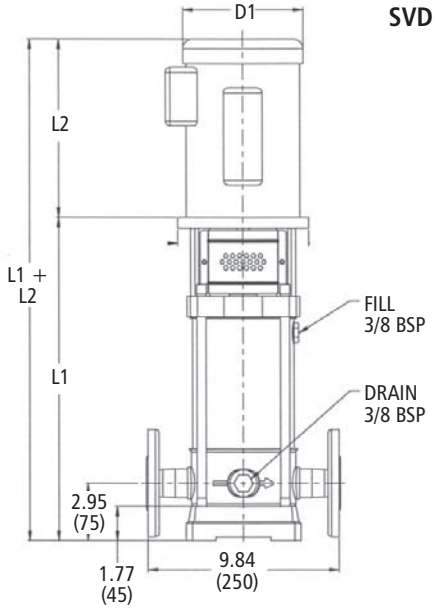


* For vertical shaft installation only.

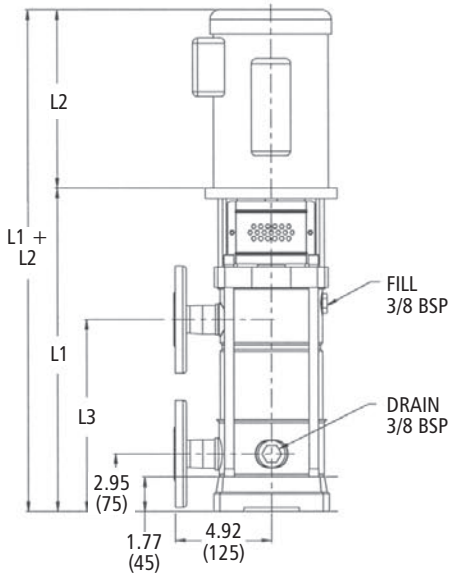
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Dimensions and Weights
2SV Series 3500 RPM

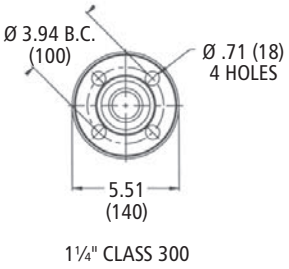
SVB
SVD



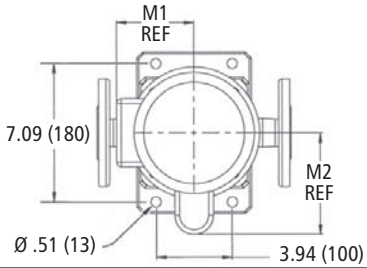
SVC



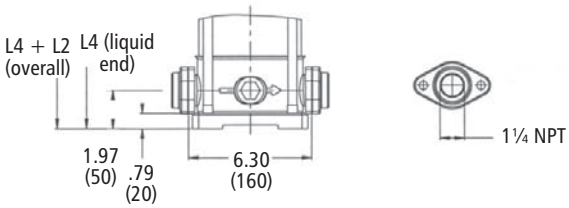
FLANGE



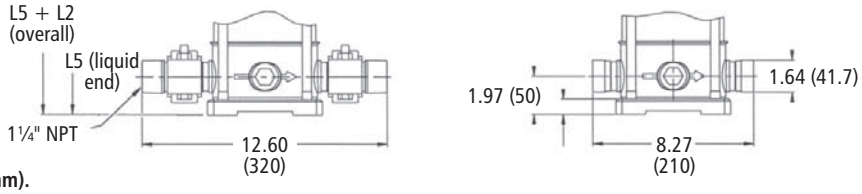
1¼" CLASS 300



SVA



VICTAULIC



All dimensions are in inches (mm).

Stage	Frame (1-Phase)		Frame (3-Phase)				L2							D1 (max.)		Weights (lb)		
	ODP	TEFC	ODP	TEFC	HP	L1	ODP	TEFC	L3	L4	L5	M1 (ref.)	M2 (ref.)	ODP	TEFC	Liquid End	ODP	TEFC
2	56C		56C		¾	12.69	10.75	9.94		11.69	11.69	5.06	5.19	6.19	6.19	21	24	28
3					1	13.63	10.63	11.19		12.69	12.69	5.75	5.56		7.19	22	32	40
4					1½	14.63	10.69			13.63	13.63					24	40	43
5					2	15.63	11.19	12.06	8.88	14.63	14.63			7.19		25	43	51
6						16.63			9.88	15.63	15.63					26		
7					3	17.56	11.56	13.88	10.81	16.63	16.63	5.50				28	51	56
8						18.56			11.81	17.56	17.56					30		
9						19.56			12.81	18.56	18.56					31		
11	182-4TC		182-4TC		5	21.50	13.94	15.44	14.75	20.56	20.56	6.88	6.63	8.50	8.50	33	75	85
13						23.50			16.75		22.50					35		
15						25.44			18.69		24.44					39		
16						26.44					26.44					40		
18	184TC		184TC		7½	28.44					28.44					42	101	124
20						30.44					30.44					44		
22						32.44					32.44					46		

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