

DATA SHEET

VERTICAL MULTISTAGE PUMP



**Stainless Steel
Model:**

890K22S12T3F



SPECIFICATIONS

Size

Suction	150# ANSI Raised Face 4.00"
Discharge	150# ANSI Raised Face 4.00"
HP	25 hp
RPM	3545 rpm

Liquid Handled

Type of Liquid	Clean Water (For Other Clean Liquids, Consult Cat Pumps)
Temperature	-22°–+248° F (-30°–120° C)
Max. Working Pressure	230 psi (16 bar)

Materials

Impeller	AISI 304
Intermediate Casing	AISI 304
Bottom Casing	Cast Iron
Casing Cover	AISI 304
Outer Casing	AISI 304
Shaft	AISI 304
Liner Ring	PTFE/AISI 304
Motor Bracket	Cast Iron
Base	Cast Iron
Lower Pump Bearings	Tungsten Carbide
Mechanical Seal	Silicon/Carbide/Carbon/FPM

Motor

Type	NEMA 284TSC Frame, TEFC
Speed	50/60 Hz, 3545 rpm (2 Poles)
Three Phase	230V/380/460V
Direction of Rotation	Clockwise When Viewed from Motor End

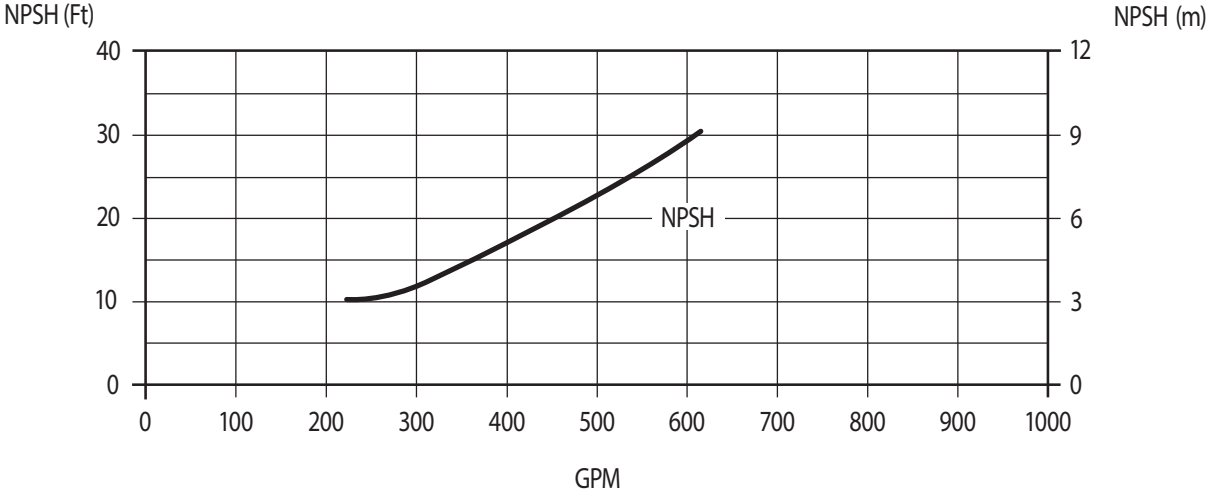
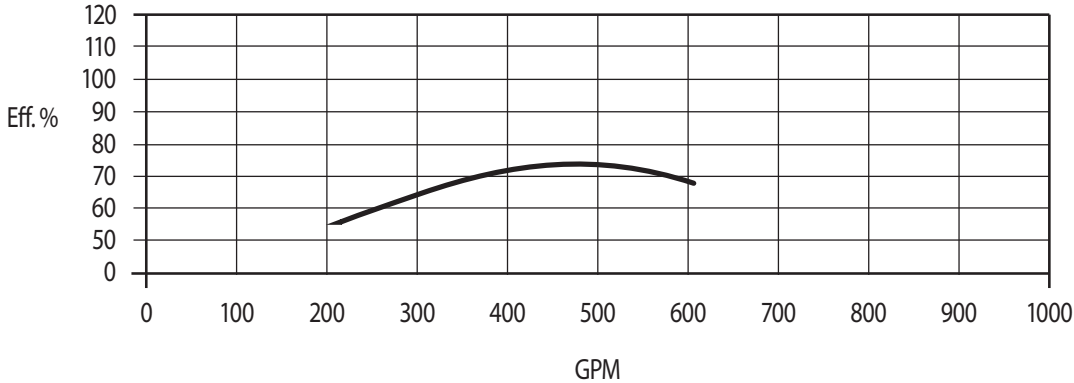
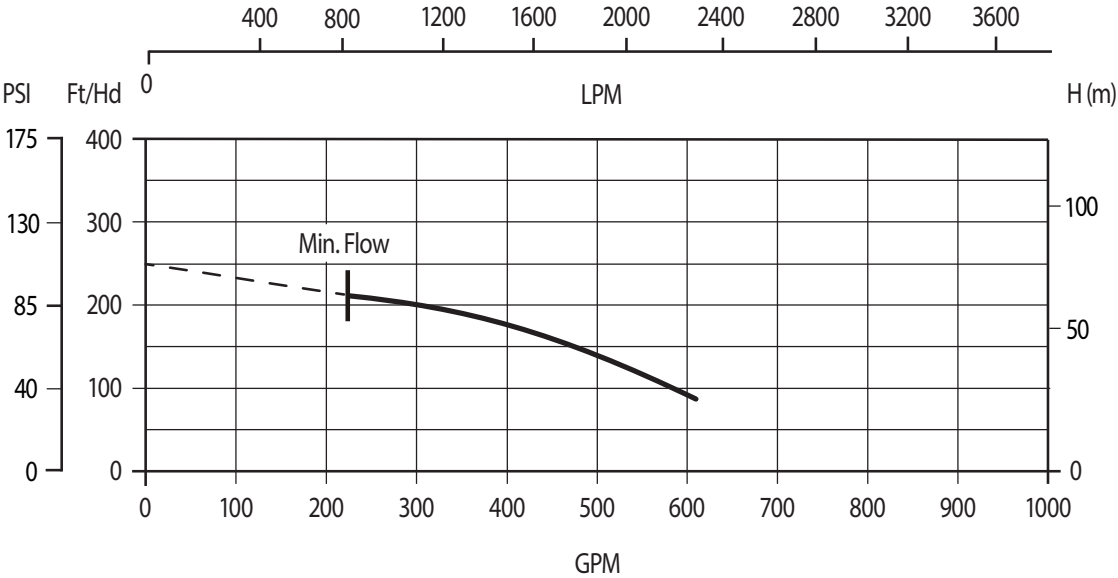
Weight

Pump	180 lbs
Motor	358 lbs

NOTE: See PN 99SVM001 for complete operating instructions, installation and maintenance manual information.

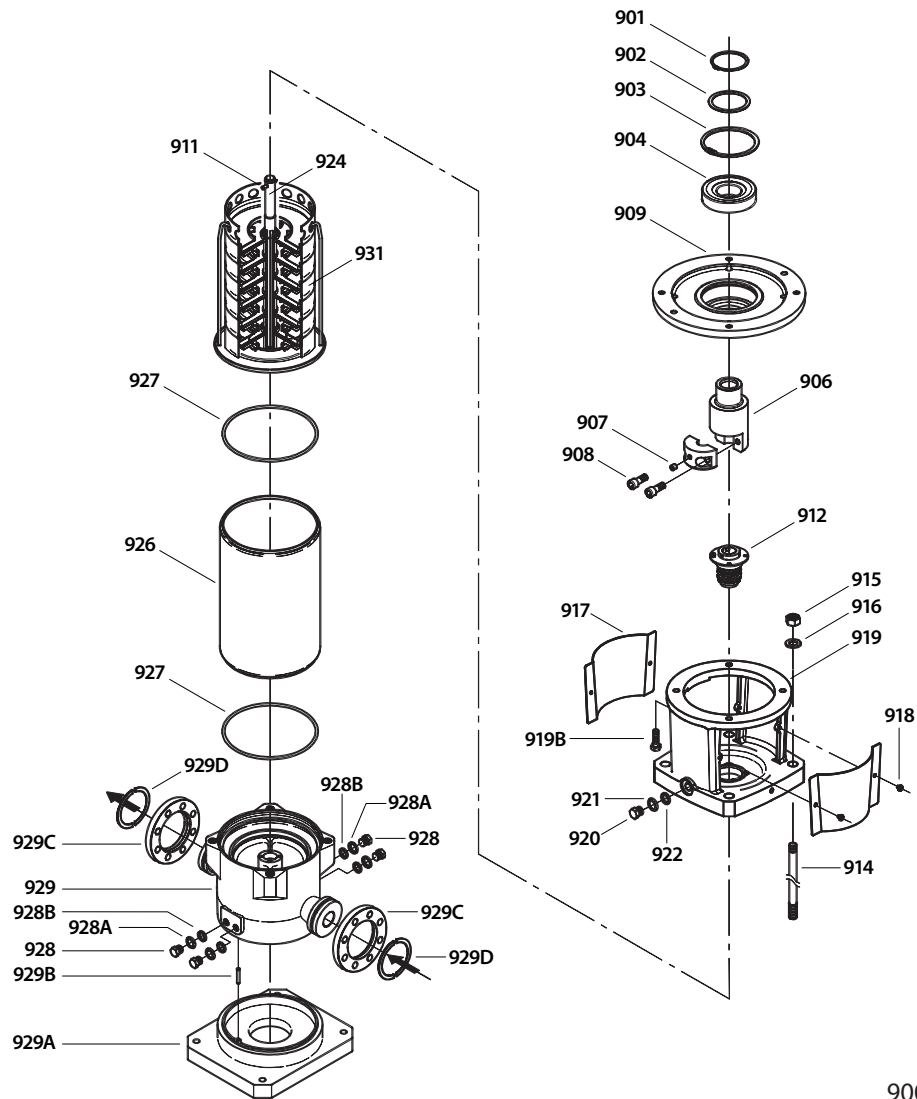
PERFORMANCE CURVE – 3545 RPM

607 gpm, 213 Head ft.



Water Temperature: 68° F (20° C)

EXPLODED VIEW



900 Motor Not Shown

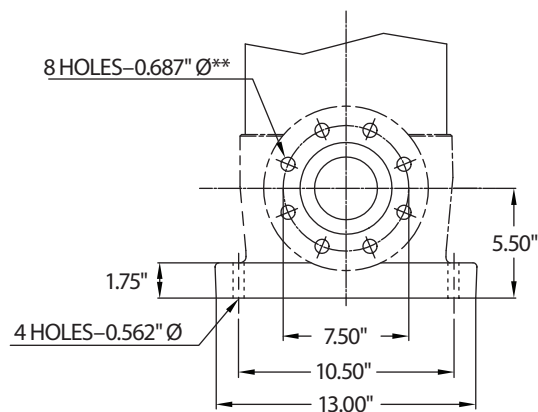
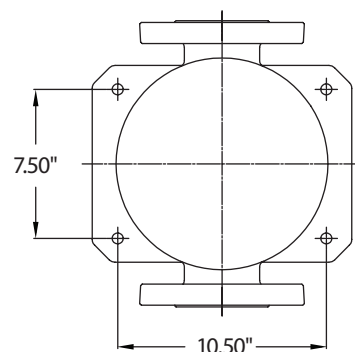
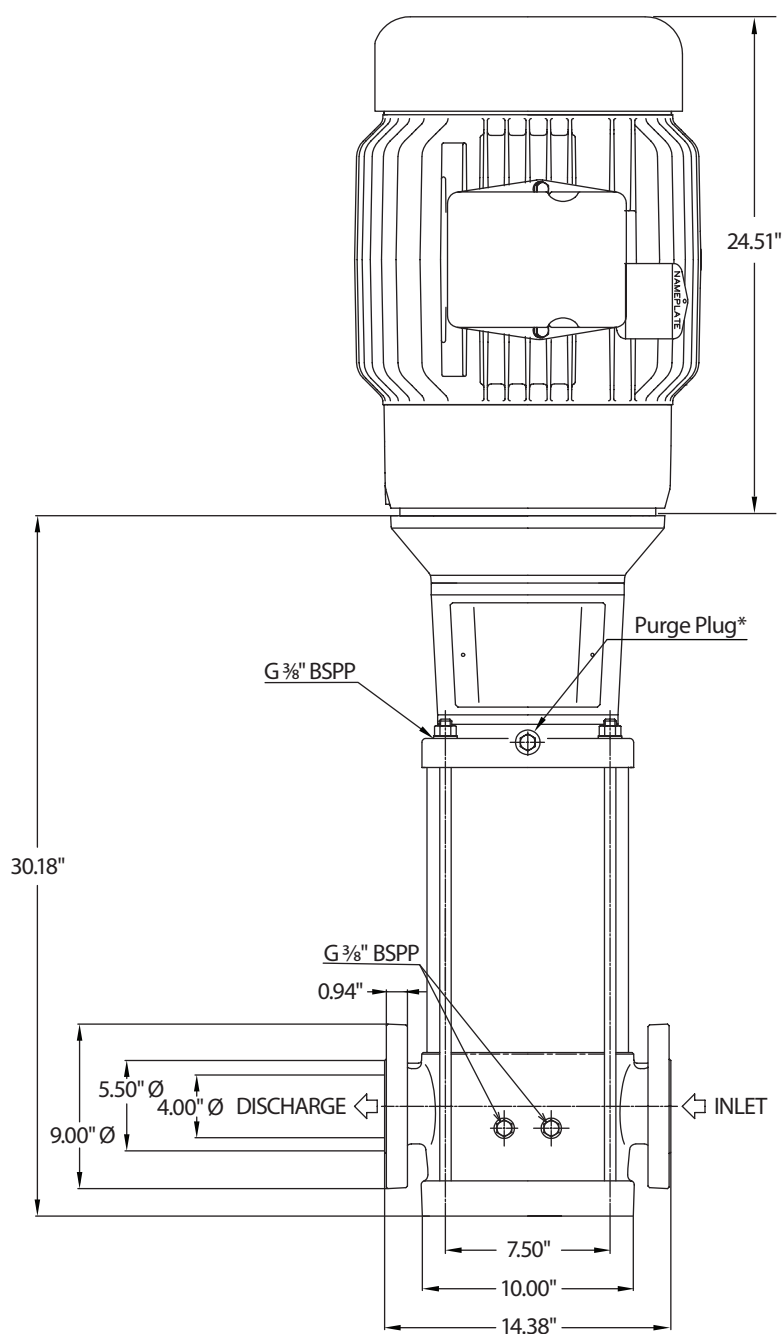
PARTS LIST

PART	ITEM	NUMBER	MATL	DESCRIPTION	QTY
	900	—	—	Motor, Electric (Not Shown)	1
	901	—	SS	Ring, Snap, C-Type	1
	902	—	STL	Spacer	1
	903	—	SS	Ring, Snap, C-Type	1
	904	—	—	Bearing, Ball	1
	906	—	STL	Coupling, Lower (2-Piece)	1
	907	—	STL	Screw, Set	1
	908	—	STZP	Screws, Coupler	2
	909	—	F	Housing, Bearing	1
	910	—	STL	Key (Not Shown)	1
	911	—	SS	Cover, Suction	1
	912	—	FSC	Seal, Mechanical	1
	914	—	STZP	Rod, Tie	4
	915	—	STZP	Nut, Tie Rod	4
	916	—	STZP	Washer, Tie Rod	4
	917	—	S	Guard, Coupling	2
	918	—	S	Screw, Coupling Guard	2
	919	—	F	Bracket, Motor	1
	919B	—	STZP	Screw, Bearing Housing	4
	920	—	SS	Plug, Vent	1
	921	—	SS	Washer, Vent Plug	1
	922	—	FPM	O-Ring, Vent Plug	1

PART	ITEM	NUMBER	MATL	DESCRIPTION	QTY
	924	—	SSL	Shaft	1
	925	—	SS	Nut, Impeller (Not Shown)	1
	926	—	SS	Casting, Outer	1
	927	—	FPM	O-Ring, Outer Casing	2
	928	—	SS	Plug, Drain	4
	928A	—	SS	Washer, Drain Plug	4
	928B	—	FPM	O-Ring, Drain Plug	4
	929	—	SS	Casing, Bottom	1
	929A	—	F	Base	1
	929B	—	—	Pin (Shaft)	1
	929C	—	STL	Flange, Pump	2
	929D	—	STL	Ring, Adjusting	2
	930	—	—	<i>Kit, Seal (Includes mechanical seal and 2 outer casing O-rings)</i>	1
	931	—	—	<i>Kit, Hydraulic Includes: Hydraulic Assembly Upper and Lower Casing O-Rings Pump Shaft Key Pumps Coupling Snap Ring Mechanical Seal with O-Rings</i>	1

Italics are optional items

Material Codes (Not part of part number): F=Cast Iron, FPM=Fluorocarbon FSC=FPM w/Silicon Carbide S=304 Stainless Steel
SS=316 Stainless Steel SSL=316SS/Low Carbon STL=Steel STZP=Steel/Zinc Plated



*** All air must be purged out before operation to prevent seal damage.**

**** Flange tightening torque= 74 ft-lbs.**

⚠ CAUTIONS AND WARNINGS

All high-pressure systems require a primary pressure regulating device (e.g. regulator, unloader) and a secondary pressure relief device (e.g. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. Cat Pumps does not assume any liability or responsibility for the operation of a customer's high-pressure system. Read all CAUTIONS and WARNINGS before commencing service or operation of any high-pressure system. The CAUTIONS and WARNINGS are included in each Service Manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/dynamic-literature/cautions-and-warnings or can be requested directly from Cat Pumps.

WARRANTY

View the Limited Warranty online at www.catpumps.com/literature/cat-pumps-limited-warranty