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HP TRIPLEX PUMPS

SE-VANGUARD STP 20 - 120

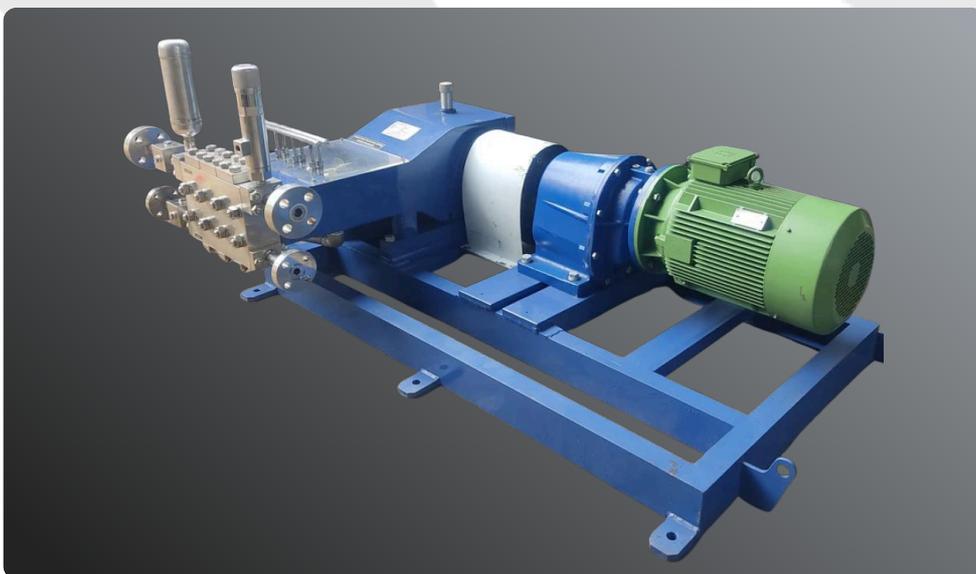
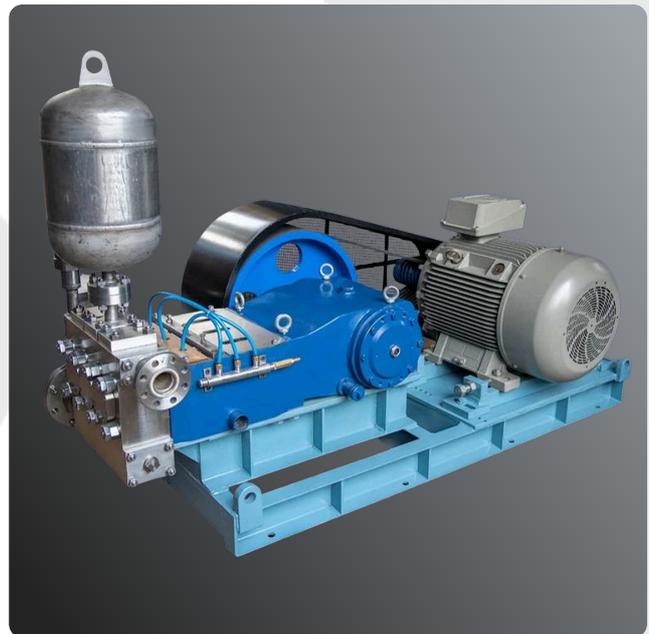
→ Flow Range: 0.5 – 480 LPM | Pressure: Up To 800 Kg/Cm²

→ 3-Cylinder Triplex Design = Smoother Flow & Lower Pulsation

→ Enclosed Power Frame = Dust-Free Operation, Less Downtime

→ Versatile Usage: ETP, RO Plants, Chemical Dosing, Jetting & More

→ Forged Steel Crankshaft + Ceramic-Coated Plungers For Long Life





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Applications

Industrial RO Plant



Chemical Dosing



Industrial OEM Jetting



Pumping Heavy & Viscous Fluids



High Pressure Feed Application



Support Beyond Delivery

- ✓ Installation Guidance & Operator Training
- ✓ Spare Parts? Guaranteed For 10+ Years
- ✓ Direct Engineer Support Via Phone & WhatsApp
- ✓ Maintenance Walkthroughs Available
- ✓ 12 Months Warrantee On Design, Mfg & Workmanship



Must Know Information:

BUILT FOR RELIABILITY UNDER PRESSURE

◆ Triplex Design

Three-Cylinder Design Ensures Smoother Flow With Minimal Pulsation (1/7th Of Twin-Cylinder Systems).

→ **Result:** Extended Seal Life, Stable Output, And Reduced Risk Of System Failure.

◆ Forged Crankshaft & Cylindrical Crosshead

Hardened, Ground Crankshaft + Fully Cylindrical Crosshead Handles High Loads With Minimal Bearing Wear.

→ **Result:** Long Service Life, Low Replacement Frequency.

◆ Power Frame Construction

Sealed Enclosure Keeps Out Dust And Oil Contaminants.

→ **Result:** Higher Reliability In Harsh Or Outdoor Environments.

DESIGNED FOR EASY MAINTENANCE

◆ Modular Valve Assembly

Each Valve Is Independently Clamped — No Need For Re-Matching During Replacements.

→ **Result:** Fast Inspection And Lower Service Downtime.

◆ Stuffing Box & Gland Packing

Spring-Loaded And Externally Accessible.

→ **Result:** Easy Packing Adjustments Without Dismantling — Keeps Uptime High.

◆ Pressure Lubrication System

Drip-Fed Lubrication Through An External Pump Or Motor.

→ **Result:** Consistent Cooling And Longer Bearing Life, Even At Low Speeds (<165 RPM).

BUILT FOR VARIETY OF FLUIDS

◆ Ceramic-Coated & Chrome-Plated Plungers

Durable, Wear-Resistant Construction — Ideal For Abrasive And Viscous Fluids.

→ **Result:** Maximum Seal Life And Reduced Erosion.

◆ Material Options

Fluid-End Materials Available In **AISI-304**, **AISI-316**, And Hastelloy B/C As Per Need.

→ **Result:** Chemical Compatibility Across RO, ETP, Agrochemical, And Pharma Setups.

◆ Suction Air Chamber

Dampens Intake Pulsations During Low-Pressure Applications.

→ **Result:** Smooth Suction, Less Vibration.

FULL SYSTEM FLEXIBILITY

◆ Drive Options

- V-Belt Pulley
- Gear-Driven Motor
- Direct Drive With Engine Or Electric Motor

→ Choose What Fits Your Layout, Power Source, Or Maintenance Style.

◆ Mounting Configurations

- Skid-Mounted
- Bare-Shaft

→ Available With Trolley/Skid As Per Requirement.

◆ Configuration Options

- Simplex / Duplex / Triplex / Quintuplex

→ Modular Design Means Easier Stocking And Part Replacement.

READY-TO-INTEGRATE ACCESSORIES

- Pressure Gauge
- Relief Valve
- Pulsation Dampeners
- Speed Variator (Electric Motor)
- Jetting Gun
- Non-Return & Back Pressure Valves
- Suction Tank / Strainer
- H.P. Hose Pipe / Nozzle

ENGINEERED FOR THE LONG RUN

- All Pumps Come Splash-Lubricated Or Pressure-Lubricated
- Replaceable Babbitt-Lined Bearings
- Special Diaphragm Pressure Gauge Available
- Gland Packing Flushing And Cooling On Request
- Parts Interchangeable Across Models



Choose Your Requirement

400 SPM is intermittent duty cycle*

Model: SE Vanguard STP 20

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM At Standard Stroke Frequency							
		100	200	300	400	500	600	700	800
10	350	0.47	0.93	1.40	1.87	2.33	2.80	3.27	3.73
15	155	1.05	2.10	3.17	4.20	5.25	6.30	7.35	8.40
20	88	1.90	3.77	6.65	7.53	9.37	11.30	13.19	15.13
25	55	2.94	5.87	8.80	11.73	14.67	17.60	20.53	23.47
30	30	4.23	8.47	12.70	16.93	21.33	25.40	29.63	33.87

Model: SE Vanguard STP 40

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM			
		100 SPM	200 SPM	300 SPM	400 SPM
16	550	2.15	4.3	6.45	8.5
18	400	2.5	5	7.5	10
20	344	3.5	7	11	15
25	218	5	10	15	20
30	150	7.5	15	23	30
36	111	11	22	33	44
40	84	13.5	27	40	54
46	66	18	36	54	72
50	54	21	42	63	84

Model: SE Vanguard STP 50

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM			
		100 SPM	200 SPM	300 SPM	400 SPM
20	450	4	8	13	17
25	380	6.5	13	20	26
30	250	9.5	19	28.5	36
36	220	15	30.5	45.5	61
40	100	17	34	51	68
46	80	22.5	45	67	90
50	60	26	53	82	106



Choose Your Requirement

400 SPM is intermittent duty cycle*

Model: SE Vanguard STP 60

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM			
		100 SPM	200 SPM	300 SPM	400 SPM
22	600	6	12	18	24
25	436	7	14	22	29
30	301	10	21	31	42
40	169	18	37	55	74
50	109	29	58	87	116
55	89	35	70	105	141
60	75	42	83	125	167
65	64	50	98	147	197

Model: SE Vanguard STP 70

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM			
		100 SPM	200 SPM	300 SPM	400 SPM
22	600	7	14	21	28
25	500	9	18.5	28	37
30	310	14	27	40	54
40	200	23	47	70	94
50	150	37	74	111	148
55	110	45	90	135	180
60	80	53	106	159	212
64	70	60	120	180	240

Model: SE Vanguard STP 80

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM			
		100 SPM	200 SPM	300 SPM	400 SPM
22	650	8	16	24	32
25	550	11	21	32	42
30	420	14	28	42	57
40	280	25	50	76	101
50	200	38	79	119	158
55	180	47	96	144	192
60	120	56	114	171	228
64	90	68	136	204	272



Choose Your Requirement

400 SPM is intermittent duty cycle*

Model: SE Vanguard STP 100 (Heavy)

Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM		
		100 SPM	200 SPM	300 SPM
30	750	19	38	57
36	680	27	54	81
40	450	34	68	102
52	400	57	110	170
60	250	76	150	225
64	200	85	170	250
72	150	110	220	330
76	120	120	240	360
80	80	135	270	400

Model: SE Vanguard STP 120

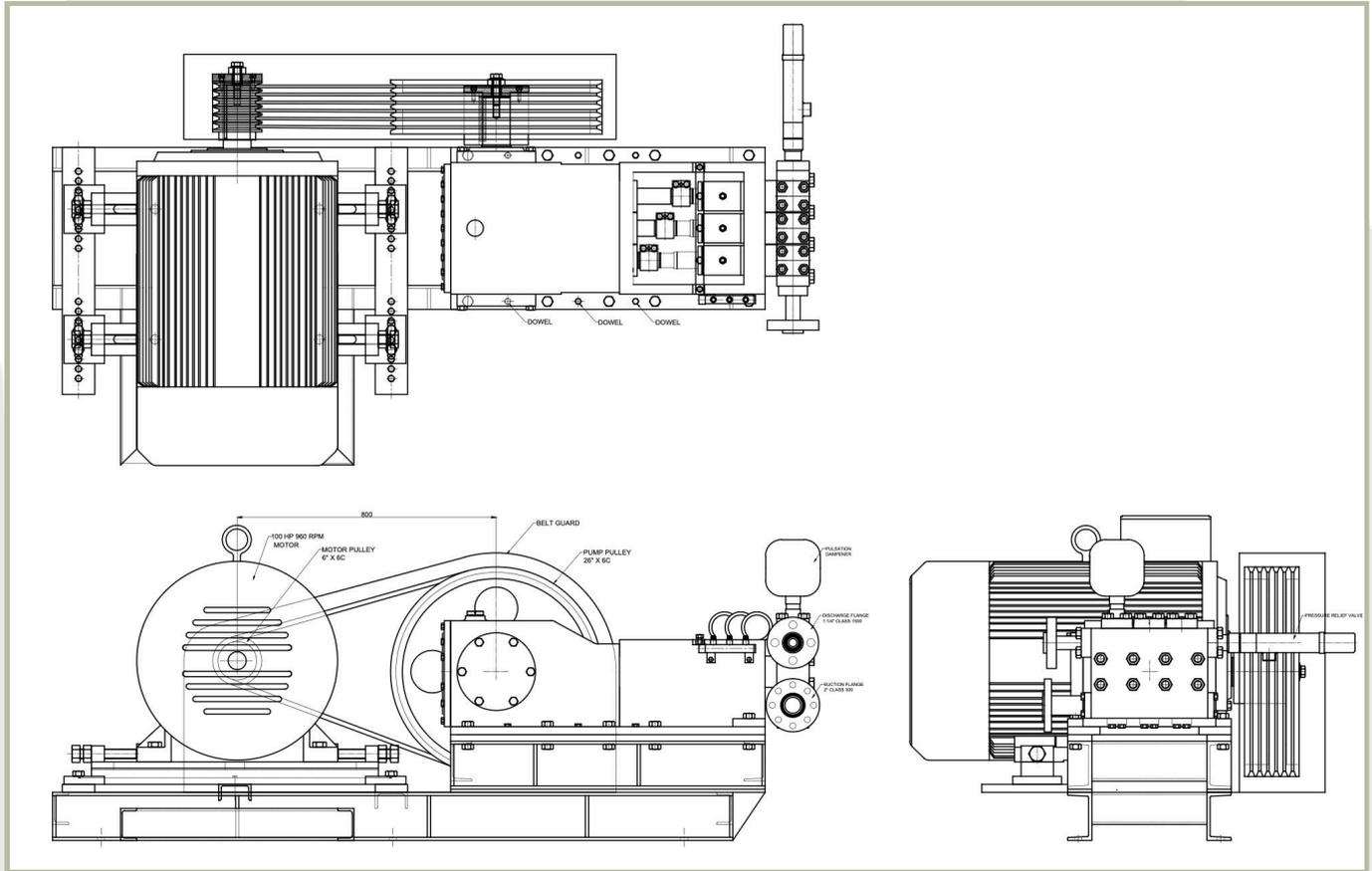
Plunger Diameter	Pressure KG/CM ²	Flow Rate In LPM		
		100 SPM	200 SPM	300 SPM
36	800	32	64	95
42	700	44	88	130
52	500	68	136	200
60	420	90	180	270
64	300	102	200	300
72	220	130	260	390
76	160	145	290	435
80	80	160	320	480



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+91 8007865449 | +91 9762015449 | +91 9881949545

www.systemengg.com

info@systemengg.com

W-160, Ambad MIDC, Nashik, MH, India 422010



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