

# SP - SERIES | TRII-PLEX

## PUMP MANUAL

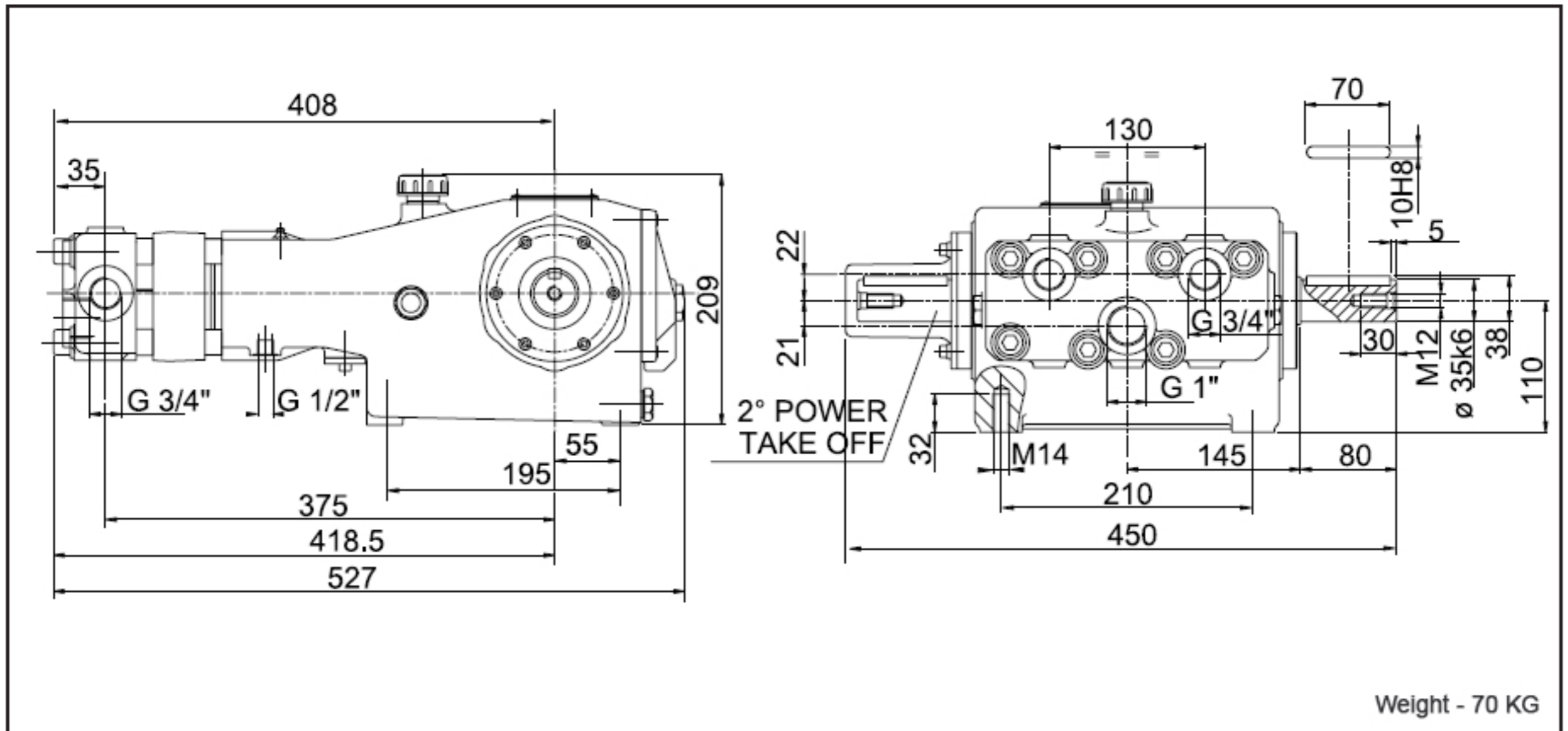
### MATERIAL OF CONSTRUCTION:-

- >**CRANKSHAFT** - SPHEROIDAL GRAPHITE IRON - CRANKSHAFT IS MADE OF NITRATED, HARDENED AND TEMPERED SPHEROIDAL GRAPHITE IRON CASTING.
- >**MAIN BODY(CRANK CASE)** - GREY CAST IRON - MAIN BODY IN GREY IRON CASTING FG-260 WITH HONNED SURFACE FINISH BORE.
- >**PISTON (CROSSHEAD)** - ALLOY STEEL -ALLOY STEEL CONSTRUCTION FOR HARD SURFACE COATING AND SUPER FINISH.
- >**CONNECTING ROD** - ALLOY STEEL - FORGED STEEL CONNECTING RODS WITH ANTIFRICTION BEARING, HEAVY PIN AREA CONSTRUCTION, FOR ADDED LOAD STRENGTH.
- >**BEARING** - OVERSIZED FOR MAXIMUM LIFE AND LOAD DISBURSEMENT. SELF-ALIGNMENT ROLLER BEARING ENABLES IT TO HANDLE 26% MORE LOAD THAN OTHER PUMP.
- >**PUMP HEAD** - STAINLESS STEEL - LIQUID END IS MADE OF HIGH CORROSION RESISTANT FORGED SS304.
- >**COMPLETE VALVE** - STAINLESS STEEL - VALVES MADE STAINLESS STEEL FOR HARDENED AND ANTI CORROSION HARD SURFACE COATED FOR LONG LIFE. HIGH VOLUMETRIC EFFICIENCY VALVES OPERATE AT 95% EFFICIENCY PLUS.
- >**PLUNGER (COLOMONY TUNGSTEN COATED)** - PRIMARILY COMPOSED OF COLOMONY COATED OR TUNGSTEN COATED. SURFACE ROUGHNESS IS EXTREMELY GOOD I.E. < 0.2 RA.
- >**PLUNGER SEAL** - PTFE ARAMIDE - "V" STYLE STRONG AND TIGHTENS UNDER LOAD OR ARAMIDE FIBER YARN PACKING FOR HIGH COMPRESSIVE & TENSILE STRENGTH ENSURE EFFECTIVE SEALING.



### TECHNICAL DETAILS:-

- >**Plunger Stroke** - 40mm
- >**Plunger Force** - 12.5 KN
- >**Max. Plunger Speed** - 1.26 m/sec @ 950 spm
- >**Inlet Pressure min./max** - 2 to 3 bar
- >**Oil Type** - 15W40
- >**Oil Capacity** - 4.5 Ltr
- >**Max. Liquid Temp.** - 70°C (160°F)
- >**Suction Connection** - 3/4" bspf
- >**Discharge Connection** - 1/2" bspf
- >**Medium** - Clean Water
- > Splash Lubrication.
- > Available Direct Couple 1000 rpm for 50 Hz (Not 60 Hz) or 1450 RPM For Pulley - belts drives or Gear Box



- Note:** - (1) Flow rates indicated are at 100% volumetric efficiency. Actual flow rate will be  $\geq 90\%$   
(2) All models are suitable for 50 Hz (1450-RPM) and 60 Hz (1800-RPM) power specification

# PUMP MANUAL | TRII-PLEX JETTECH SYSTEMS

## SP SERIES PRODUCT RANGE FOR HYDROTEST APPLICATIONON

Model No.	Plunger Diameter (MM)	Flow (LPM)	Max. Rated Pressure (KG/CM2)	Strokes Per Minute	Motor (HP)	Inlet	Outlet
SP-12	12	10	1200	750	40	3/4"	1/2"
SP-12	12	8	1200	620	30	3/4"	1/2"
SP-12	12	7	1200	550	25	3/4"	1/2"
SP-12	12	5	1200	415	20	3/4"	1/2"
SP-14	14	14	1000	750	40	3/4"	1/2"
SP-14	14	10	1000	550	30	3/4"	1/2"
SP-14	14	8	1000	450	25	3/4"	1/2"
SP-14	14	7	1000	350	20	3/4"	1/2"
SP-16	16	18	750	750	40	3/4"	1/2"
SP-16	16	13	750	550	30	3/4"	1/2"
SP-16	16	10	750	450	25	3/4"	1/2"
SP-16	16	8	750	350	20	3/4"	1/2"

## RANGE SUITABLE FOR HYDROBLASTING & HYDROTEST

Model No.	Plunger Diameter (MM)	Flow (LPM)	Max. Rated Pressure (KG/CM2)	Strokes Per Minute	Motor (HP)	Inlet	Outlet
SP-18	18	30	500	1000	40	1"	3/4"
SP-18	18	29	480	970	40	1"	3/4"
SP-18	18	21	480	710	30	1"	3/4"
SP-18	18	18	470	615	25	1"	3/4"
SP-18	18	15	470	500	20	1"	3/4"
SP-20	20	37	400	1000	40	1"	3/4"
SP-20	20	36	380	970	40	1"	3/4"
SP-20	20	26	390	710	30	1"	3/4"
SP-20	20	23	380	615	25	1"	3/4"
SP-20	20	19	380	500	20	1"	3/4"
SP-22	22	45	320	1000	40	1"	3/4"
SP-22	22	44	320	970	40	1"	3/4"
SP-22	22	32	320	710	30	1"	3/4"
SP-22	22	28	310	615	25	1"	3/4"
SP-22	22	23	310	500	20	1"	3/4"
SP-25	25	59	250	1000	40	1"	3/4"
SP-25	25	57	240	970	40	1"	3/4"
SP-25	25	42	250	710	30	1"	3/4"
SP-25	25	36	240	615	25	1"	3/4"
SP-25	25	30	240	500	20	1"	3/4"

1. Maximum permissible fluid temperature is 70° C.
2. Power Calculations shown in the table is based on maximum rated pressure. However, for low pressure requirement, power will also be proportionally reduced. Pump speed lower than specified in above chart is also available for special application.
3. Volumetric efficiency is considered @ 100% where not specified.

## **SUITABLE APPLICATIONS OF SP SERIES RANGE**

HYDROBLASTING, TUBE CLEANING, PAINT REMOVAL, HYDRO TEST, SURFACE PREPARATION