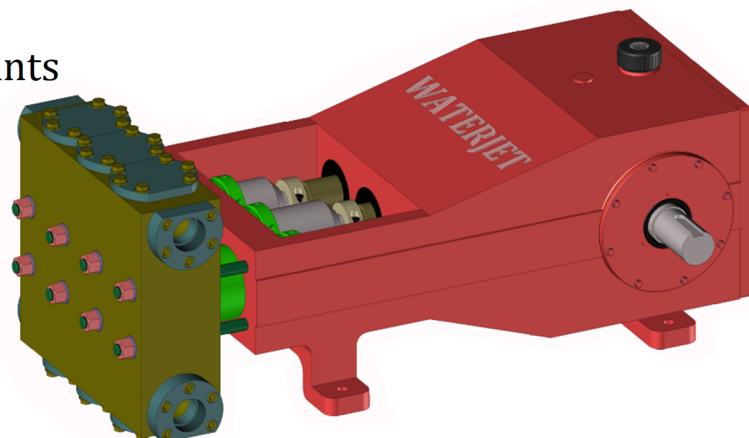




WJ – 100

****Industrial Applications: ****

- SWRO, ETP / STP, industrial RO plants
- Food Processing
- Pharma Industries
- Oil and Gas Industries
- And other applications



High Pressure Triplex Plunger Pump: WJ – 100

Min. Pressure: 60 Bar	Max Pressure: 250 bar
Min Flow rate: 131 LPM	Mim. Flow Rate: 631 LPM

Pump Specification: WJ-100

Technical Specification of WJ- 100

Particular	Parameter
Plunger stroke	100 MM
Max. plunger speed	100-250 SPM
PLUNGER FORCE	65 KN (6500 KGF)
Required inlet pressure	1 – 2.5 bar
Required inlet flow rate	Booster pump flow require min. 2 times of rated flow rate
Oil type	SAE – 220 , 20w40
Oil capacity	16 Litters
Max. liquid temp	80°C
Discharge Connection	2" inch BSP female
Suction Connection	2" inch BSP Female
Weight	600 kg. Approx.
Overall dim. (L×B×H)	1120 mm × 614 mm × 440 mm



WATERJET PUMPS & SYSTEMS

198, Hariom Park Society, Vinzol Road, Vatva, Ahmedabad-382440.
E-mail : info@waterjetpumps.in, sales@waterjetpumps.in Web : www.waterjetpumps.in

MODEL SELECTION CHARTS FOR WJ -100 WITH MAXIMUM FLOW AND PRESSURE

WJ - 100									
PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
75	131	7860	34.584	250	3625	100	75	100	1000
75	196	11760	51.744	200	2900	150	90	120	1000
75	262	15720	69.168	150	2175	200	110	150	1450
75	327	19620	86.328	100	1450	250	75	100	1450
75	393	23580	103.752	100	1450	300	110	150	1450
80	150	9000	39.6	250	3625	100	110	150	1000
80	223	13380	58.872	150	2175	150	110	150	1000
80	298	17880	78.672	150	2175	200	110	150	1450
80	373	22380	98.472	100	1450	250	90	120	1450
80	447	26820	118.008	100	1450	300	110	150	1450
85	168	10080	44.352	250	3625	100	110	150	1000
85	252	15120	66.528	180	2610	150	110	150	1000
85	336	20160	88.704	140	2030	200	110	150	1450
85	421	25260	111.144	100	1450	250	110	150	1450
85	505	30300	133.32	70	1015	300	90	120	1450
90	188	11280	49.632	200	2900	100	90	120	1000
90	283	16980	74.712	150	2175	150	120	150	1000
90	377	22620	99.528	100	1450	200	90	120	1450
90	472	28320	124.608	100	1450	250	120	150	1450
90	566	33960	149.424	60	870	300	90	120	1450
95	210	12600	55.44	200	2900	100	120	150	1000
95	315	18900	83.16	150	2175	150	120	150	1000
95	420	25200	110.88	100	1450	200	120	150	1450
95	526	31560	138.864	90	1305	250	120	150	1450
95	631	37860	166.584	60	870	300	90	120	1450

NOTE: HP Shown is Theoretical Hp. Required engine HP will be higher Approx. 20 %

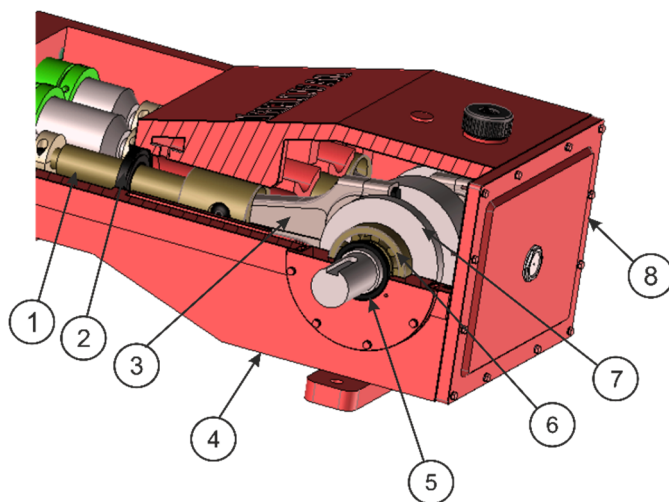


WATERJET PUMPS & SYSTEMS

198, Hariom Park Society, Vinzol Road, Vatva, Ahmedabad-382440.
E-mail : info@waterjetpumps.in, sales@waterjetpumps.in Web : www.waterjetpumps.in

POWER END

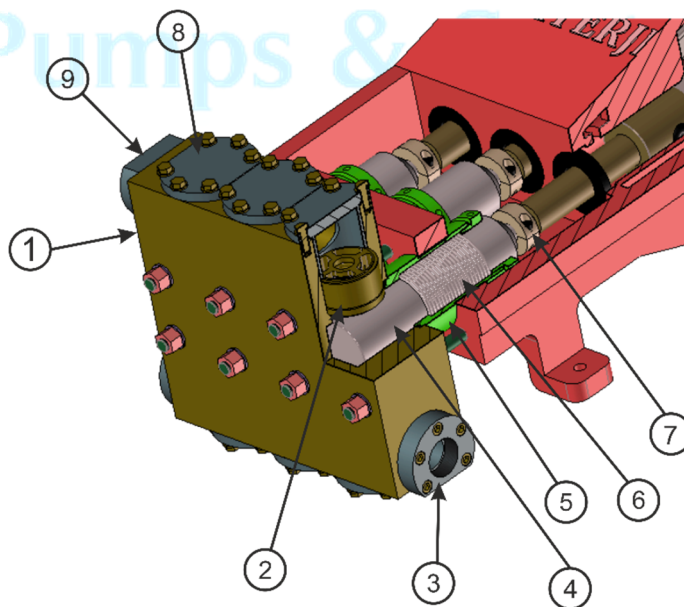
1. PISTON: EN 19
2. PISTON OIL SEAL
3. CONNECTING ROD ASSEMBLY
4. CRANKCASE: SGI CASTING
5. CRANKSHAFT OILSEAL
6. TAPPER ROLLER BEARING
7. CRANKSHAFT
8. CRANK CASE COVER: SGI



LIQUID END

Liquid contact parts available in SS 316 / SS 316L / DUPLEX SS / SUPER DUPLEX SS / HASTELLOY C / as per requirement

1. CENTER BLOCK
2. NRV SETS
3. SUCTION CONNECTION
4. PLUNGER
5. STUFFING BOX
6. GLAND PACKING
7. PISTON LOCK
8. NRV FLANGE
9. DISCHARGE CONNECTION

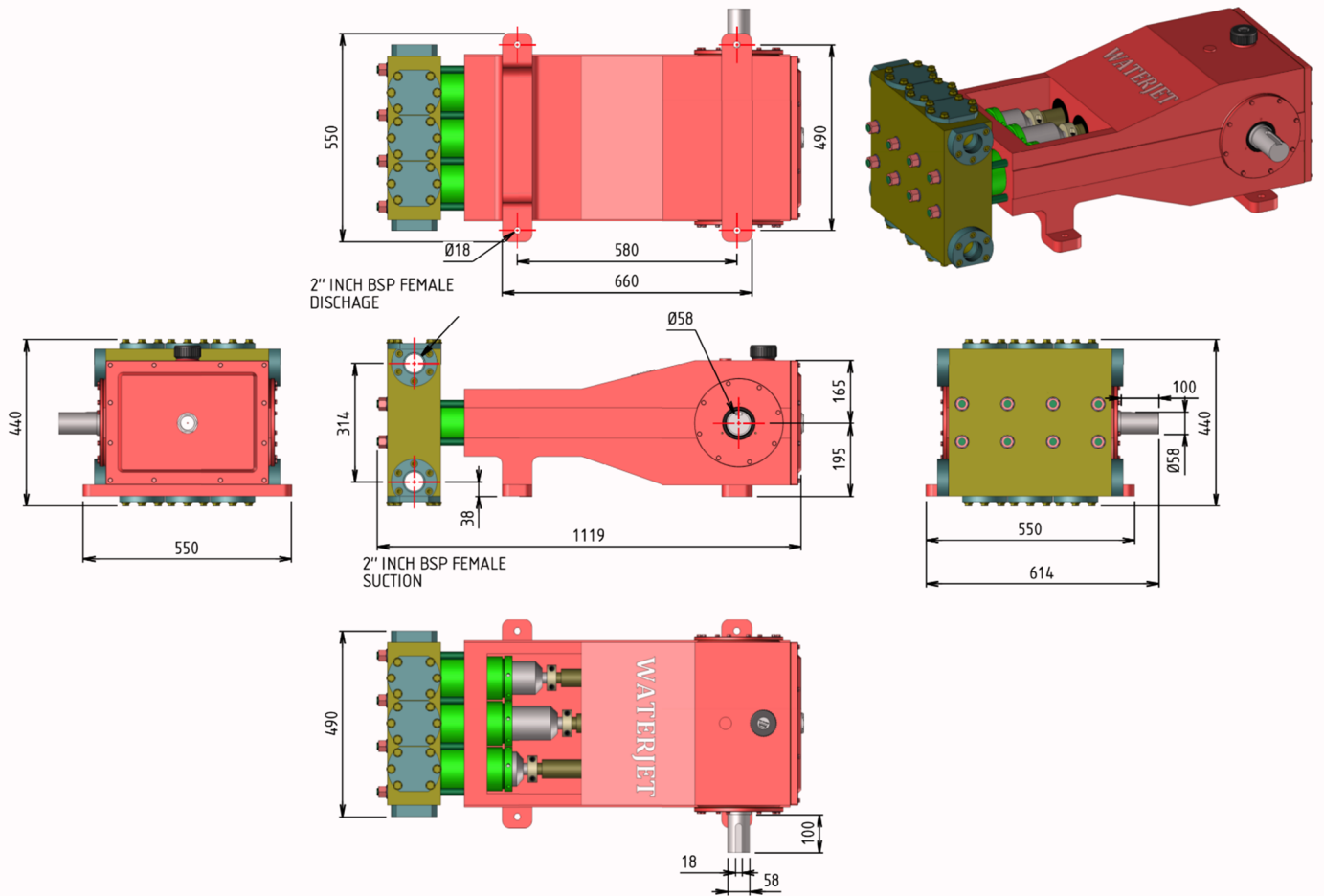




WATERJET PUMPS & SYSTEMS

198, Hariom Park Society, Vinzol Road, Vatva, Ahmedabad-382440.
E-mail : info@waterjetpumps.in, sales@waterjetpumps.in Web : www.waterjetpumps.in

GA DRAWING

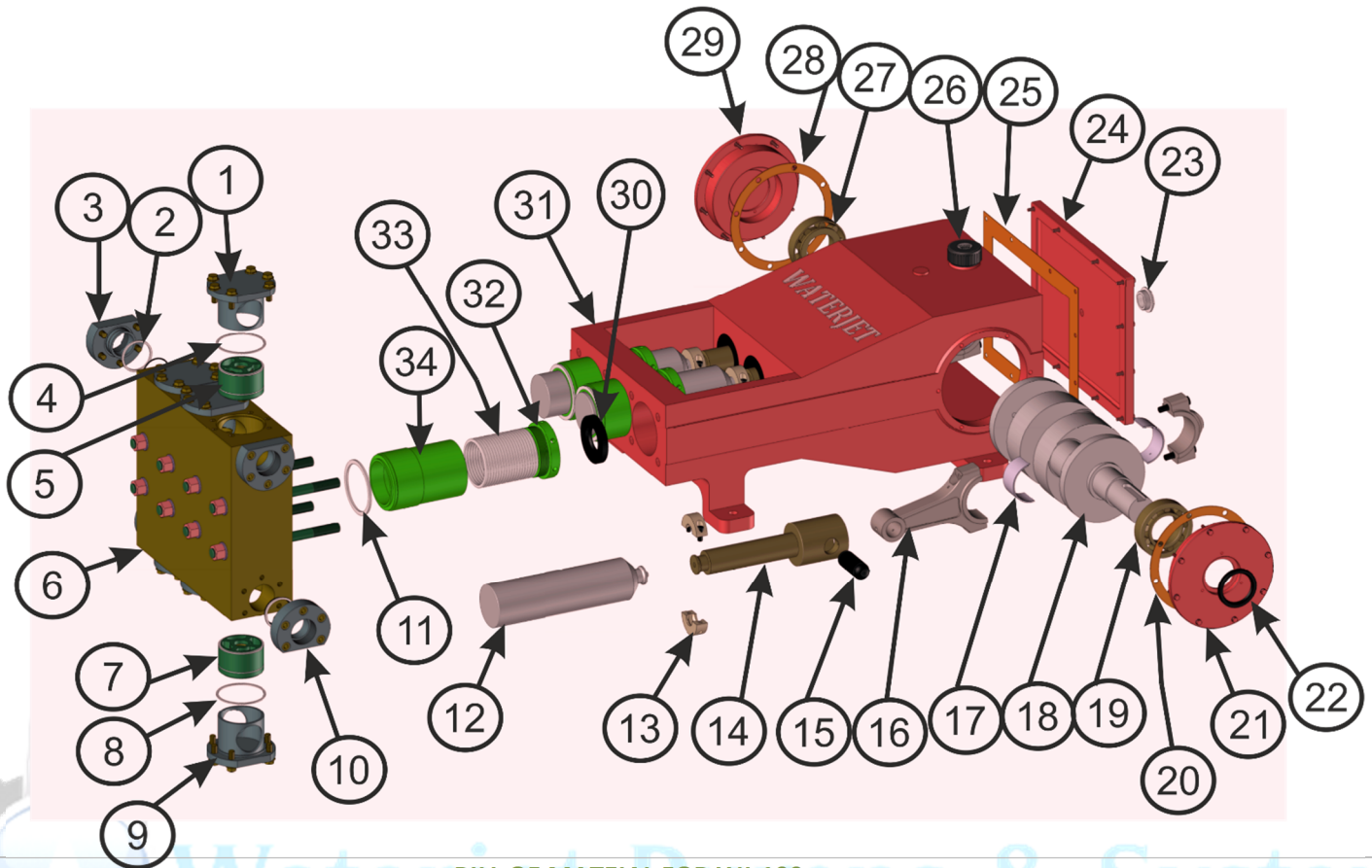




WATERJET PUMPS & SYSTEMS

198, Hariom Park Society, Vinzol Road, Vatva, Ahmedabad-382440.
E-mail : info@waterjetpumps.in, sales@waterjetpumps.in Web : www.waterjetpumps.in

ASSEMBLY DRAWING AND SPARES LIST



BILL OF MATEIAL FOR WJ-100

SR. NO.	PART NAME	QTY	MATERIAL	SR. NO.	PART NAME	QTY	MATERIAL
1	DISCHARGE NRV FLANGE	3	SS 304	18	CRANK SHAFT	1	EN 19
2	INOUT FLANGE GASKET	2	PTFE	19	TAPPER ROLLER BEARING DRIVE SIDE	1	32213
3	DISCHARGE FLANGE CONNECTION	2	SS 304	20	BEARING COVER GASKET	1	OIL PAPER
4	DISCHARGE FLANGE GASKET	3	PTFE	21	BEARING COVER DRIVE SIDE	1	SGI
5	DISCHARGE NRV	3	SS 304	22	CRANK SHAFT OIL SEAL	1	VITON
6	CENTER BLOCK	1	SS 304	23	OIL GLASS	1	ALUMINIUM
7	SUCTION NRV	3	SS 304	24	CRANK CASE COVER	1	SGI CASTING
8	SUCTION NRV FLANGE GASKET	3	PTFE	25	CRANKCASE COVER GASKET	1	OIL PAPER
9	SUCTION NRV FLANGE	3	SS 304	26	OIL PLUG	1	ALUMINIUM
10	INOUT FLANGE CONNECTION	2	SS 304	27	TAPPER ROLLER BEARING N DRIVE SIDE	1	32213
11	STUFFING GASKETS	3	PTFE	28	BEARING COVER GASKET	1	OIL PAPER
12	PLUNGER	3	SS 304	29	BEARING COVER N DRIVE SIDE	1	SGI
13	PISTON LOCK	3	SS 410	30	PISTON OIL SEAL (50×100×13)	3	VITON
14	PISTON	3	EN 19	31	CRANK CASE	1	SGI CASTING
15	PISTON PIN	3	EN 19	32	STUFFING NUT	3	SS 304
16	CONNECTING ROD ASSEMBLY	3	EN 8	33	GALND PACKING	3	PTFE (ARAMIND)
17	C.R. BEARING	3	TRIMETAL	34	STUFFING BOX	3	SS 304



WATERJET PUMPS & SYSTEMS

198, Hariom Park Society, Vinzol Road, Vatva, Ahmedabad-382440.
E-mail : info@waterjetpumps.in, sales@waterjetpumps.in Web : www.waterjetpumps.in

Pump installation and pipe connection

