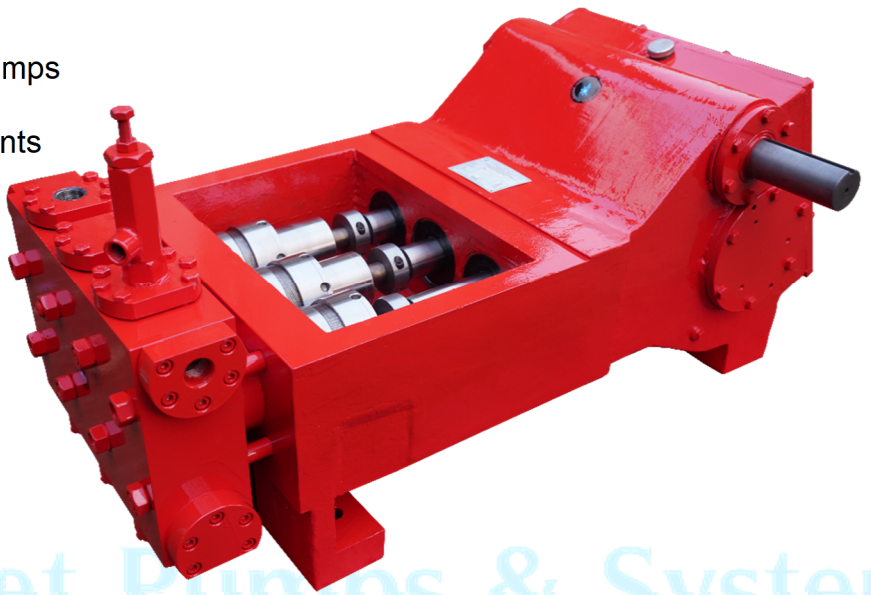




WJHG - 75

****Industrial Applications: ****

- Hydro Jetting Machine
- Washing and Cleaning Pumps
- Hydro Blasting Machine
- High Pressure Cleaners
- Hydro Test Pumps
- Sewer Cleaning and Drain Jetting Pumps
- Industrial Spray Dryer
- SWRO, ETP / STP, industrial RO plants
- Food Processing
- Pharma Industries
- Oil and Gas Industries
- And other applications



High Pressure Triplex Plunger Pump: WJHG

Min. Pressure: 90 Bar	Max Pressure: 2000 Bar
Min Flow rate: 9 LPM	Max. Flow Rate: 287 LPM



Hydro Jetting Application

I would like to introduce you to our state-of-the-art WATERJET Hydro Jetting Machine, designed specifically to tackle the most challenging cleaning tasks in various industries, including sugar mills, chemical plants, refineries, and for maintenance contractors. This powerful machine delivers an impressive pressure of up to 2000 bar and a power output of 200 hp, ensuring efficient scale removal, improved heat transfer, and significantly reduced downtime. What sets our WATERJET technology apart is its exceptional efficiency and reliability. Engineered with advanced technology, it not only guarantees precision in cleaning but also promises unmatched durability. With a focus on safety and low maintenance needs, our compact and heavy-duty hydro jetting systems stand out in productivity and performance. If you are looking to enhance your cleaning operations and optimize performance, I would love to discuss how our WATERJET hydro jetting machine can meet your needs.

Heat Exchanger Tube Cleaning

Key Benefits of High-Pressure Water Jet Cleaning

- **Thorough Scale Removal:** High-pressure water jets (up to 1400 bar) effectively remove hard scale, sludge, and deposits without damaging tube surfaces.
- **Enhanced Heat Transfer Efficiency:** Restores optimal thermal performance by ensuring tubes are completely clean and unobstructed.
- **Reduced Maintenance Downtime:** A fast and efficient cleaning process minimizes equipment shutdown time during overhauls.
- **Eco-Friendly & Chemical-Free:** Uses only high-pressure water, eliminating the need for hazardous cleaning chemicals.
- **Reliable, Durable, & Easy to Operate:** Precision-engineered systems ensure consistent performance, a longer service life, and maximum operator safety.



Industrial pipe cleaning

Complete Blockage Removal: We utilize high-pressure water jets to effectively clear scale, sludge, and deposits from pipes of all diameters.

- **Improved Flow Efficiency:** Our cleaning processes restore optimal fluid flow, significantly reducing pressure drop and enhancing overall system performance.
- **Minimized Downtime:** With our rapid cleaning procedures, we ensure faster maintenance, keeping your operations running smoothly and minimizing disruptions.
- **Chemical-Free & Environmentally Safe:** We rely exclusively on high-pressure water for cleaning, eliminating the need for hazardous chemicals and ensuring a safe approach for the environment.

Durable, Reliable & Safe: Our equipment is engineered for long service life, ensuring consistent performance and safety in industrial environments.





Pump Specification: WJHG

Technical Specification Of WJHG

Particular	Parameter
Plunger stroke	75 mm
Max. plunger speed	150 , 250 SPM
PLUNGER FORCE	45 KN (4588 KGF)
Required inlet pressure	5-7 bar
Required inlet flow rate	Booster pump flow require min. 2 times of rated flow rate
Oil type	SAE – 220 , 20w40
Oil capacity	15 Litters
Max. liquid temp	80°C
Discharge Connection	½” inch BSP female, 1” inch BSP female
Suction Connection	1½ inch BSP Female
Weight	625 kg. Approx.
Overall dim . (L×B×H)	1200 mm × 650 mm × 480 mm

Model Selection Charts for WJHG

WJHG - 75									
PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
20	15	900	3.9	120	1740	250	75	100	1440
20	15	900	3.9	1000	14500	250	45	60	1440
25	24	1440	6.3	750	10875	250	55	75	1440
25	24	1440	6.3	1000	14500	250	75	100	1440
25	24	1440	6.3	1700	24650	250	110	150	1440
30	35	2100	9.2	350	5075	250	37	50	1440
30	35	2100	9.2	500	7250	250	45	60	1440
30	35	2100	9.2	750	10875	250	75	100	1440
30	35	2100	9.2	1000	14500	250	90	120	1440
35	48	2880	12.6	350	5075	250	45	60	1440
35	48	2880	12.6	500	7250	250	75	100	1440
35	48	2880	12.6	750	10875	250	90	120	1440
35	48	2880	12.6	1000	14500	250	125	170	1440
40	63	3780	16.63	750	10875	250	125	170	1440
40	63	3780	16.63	500	7250	250	90	120	1440
40	63	3780	16.63	350	5075	250	75	100	1440



WATERJET PUMPS & SYSTEMS

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

WJHG - 75

PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
20	9	540	2.3	2000	29000	150	45	60	980
20	9	540	2.3	1500	21750	150	37	50	980
20	9	540	2.3	1000	14500	150	22	30	980
25	14	840	3.6	2000	29000	150	75	100	980
25	14	840	3.6	1500	21750	150	55	75	980
25	14	840	3.6	1000	14500	150	37	50	980
25	14	840	3.6	750	10875	150	30	40	980
30	21	1260	5.5	1500	21750	150	90	120	980
30	21	1260	5.5	1200	17400	150	75	100	980
30	21	1260	5.5	1000	14500	150	55	75	980
30	21	1260	5.5	750	10875	150	45	60	980
30	21	1260	5.5	500	7250	150	30	40	980
35	29	1740	7.6	1400	20300	150	110	150	980
35	29	1740	7.6	1000	14500	150	75	100	980
35	29	1740	7.6	750	10875	150	55	75	980
35	29	1740	7.6	550	7975	150	45	60	980
35	29	1740	7.6	350	5075	150	30	40	980
40	38	2280	10	500	7250	150	55	75	980
40	38	2280	10	350	5075	150	37	50	980
40	38	2280	10	250	3625	150	30	40	980



WATERJET PUMPS & SYSTEMS

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

WJHG - 75

PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
45	80	4800	21.1	750	10875	250	150	200	1440
45	80	4800	21.1	550	7975	250	110	150	1440
45	80	4800	21.1	350	5075	250	75	100	1440
45	80	4800	21.1	250	3625	250	55	75	1440
45	80	4800	21.1	150	2175	250	30	40	1440
45	80	4800	21.1	100	1450	250	22	30	1440
50	99	5940	26.1	600	8700	250	150	200	1440
50	99	5940	26.1	350	5075	250	90	120	1440
50	99	5940	26.1	280	4060	250	75	100	1440
50	99	5940	26.1	200	2900	250	55	75	1440
50	99	5940	26.1	120	1740	250	37	50	1440
55	120	7200	31.6	500	7250	250	150	200	1440
55	120	7200	31.6	300	4350	250	90	120	1440
55	120	7200	31.6	250	3625	250	75	100	1440
55	120	7200	31.6	150	2175	250	55	75	1440
55	120	7200	31.6	100	1450	250	37	50	1440
60	143	8580	37.7	250	3625	250	90	120	1440
60	143	8580	37.7	150	2175	250	55	75	1440
60	143	8580	37.7	100	1450	250	37	50	1440
65	167	10020	44	300	4350	250	125	170	1440
65	167	10020	44	200	2900	250	90	120	1440
65	167	10020	44	150	2175	250	75	100	1440
65	167	10020	44	100	1450	250	45	60	1440



WATERJET PUMPS & SYSTEMS

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

WJHG - 75

PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
45	48	2880	12.6	1000	14500	150	125	170	980
45	48	2880	12.6	750	10875	150	90	120	980
45	48	2880	12.6	550	7975	150	75	100	980
45	48	2880	12.6	350	5075	150	45	60	980
45	48	2880	12.6	250	3625	150	30	40	980
45	48	2880	12.6	150	2175	150	22	30	980
50	59	3540	15.5	600	8700	150	90	120	980
50	59	3540	15.5	350	5075	150	55	75	980
50	59	3540	15.5	280	4060	150	45	60	980
50	59	3540	15.5	230	3335	150	37	50	980
50	59	3540	15.5	120	1740	150	18.5	25	980
55	72	4320	19	550	7975	150	110	150	980
55	72	4320	19	350	5075	150	75	100	980
55	72	4320	19	250	3625	150	55	75	980
55	72	4320	19	150	2175	150	37	50	980
60	85	5100	22.4	350	5075	150	75	100	980
60	85	5100	22.4	250	3625	150	55	75	980
60	85	5100	22.4	150	2175	150	37	50	980
60	85	5100	22.4	100	1450	150	22	30	980
65	100	6000	26.4	300	4350	150	75	100	980
65	100	6000	26.4	200	2900	150	55	75	980
65	100	6000	26.4	150	2175	150	37	50	980
65	100	6000	2.64	100	1450	150	30	40	980



WATERJET PUMPS & SYSTEMS

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

WJHG - 75

PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
70	194	11640	51.2	200	2900	250	110	150	1440
70	194	11640	51.2	150	2175	250	75	100	1440
70	194	11640	51.2	90	1305	250	55	75	1440
70	194	11640	51.2	70	1015	250	37	50	1440
75	223	13380	58.8	200	2900	250	125	170	1440
75	223	13380	58.8	100	1450	250	75	100	1440
75	223	13380	58.8	70	1015	250	45	60	1440
80	254	15240	67	200	2900	250	150	200	1440
80	254	15240	67	150	2175	250	110	150	1440
80	254	15240	67	100	1450	250	75	100	1440
80	254	15240	67	80	1160	250	55	75	1440
85	287	17220	75.7	200	2900	250	150	200	1440
85	287	17220	75.7	150	2175	250	110	150	1440
85	287	17220	75.7	100	1450	250	75	100	1440
85	287	17220	75.7	75	1087.5	250	55	75	1440



WATERJET PUMPS & SYSTEMS

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

WJHG - 75

PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
70	116	6960	30.6	250	3625	150	75	100	980
70	116	6960	30.6	150	2175	150	55	75	980
70	116	6960	30.6	90	1305	150	37	50	980
70	116	6960	30.6	70	1015	150	30	40	980
75	134	8040	35.3	200	2900	150	75	100	980
75	134	8040	35.3	100	1450	150	45	60	980
75	134	8040	35.3	70	1015	150	30	40	980
80	152	9120	40.1	200	2900	150	90	120	980
80	152	9120	40.1	150	2175	150	75	100	980
80	152	9120	40.1	100	1450	150	45	60	980
80	152	9120	40.1	80	1160	150	37	50	980
85	172	10320	45.4	200	2900	150	110	150	980
85	172	10320	45.4	150	2175	150	75	100	980
85	172	10320	45.4	100	1450	150	55	75	980
85	172	10320	45.4	75	1087.5	150	45	60	980

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

Volumetric Rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts required is based on 90%

Mechanical Efficiency. For Operation below 250 RPM, an auxiliary lubrication

System is required. Not all plunger sizes are shown. Contact WATERJET PUMPS for additional information. Spherical

Valves must be installed when the pump is fitted with (85 mm) plungers. Contact Factory

For flow rates not listed above.

The information and data on this sheet is accurate to the best of our knowledge and belief, but are intended for

General information only. Applications suggested for the materials are described only to help readers make their

Own Evaluations and decisions, and are neither guarantees nor to be construed as express or implied warranties of

Suitability for these or other applications. WATERJET PUMPS makes no warranty either express or implied beyond

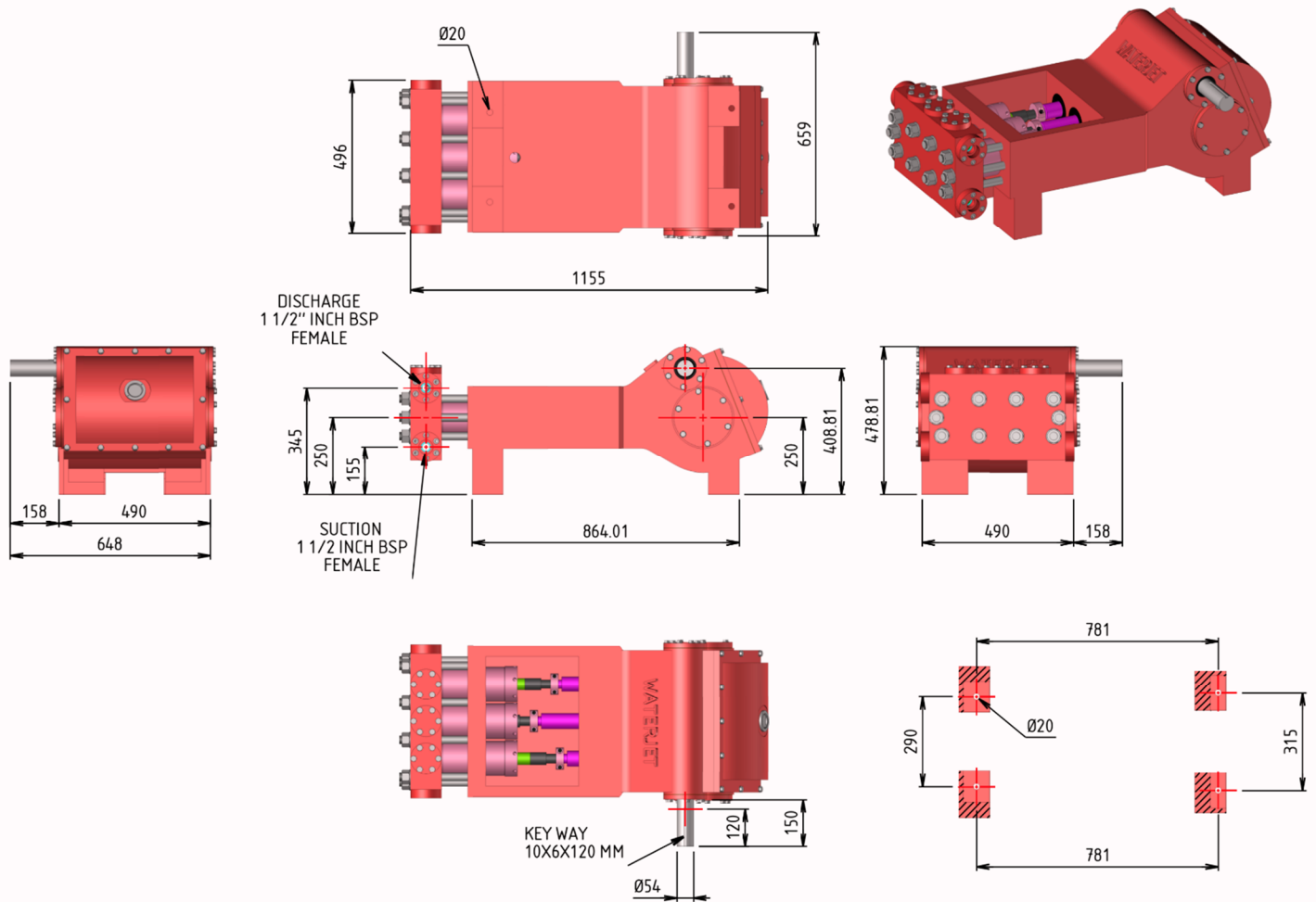
That stipulated in WATERJET PUMPS Standard Terms and Conditions of Sale.



WATERJET PUMPS & SYSTEMS

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

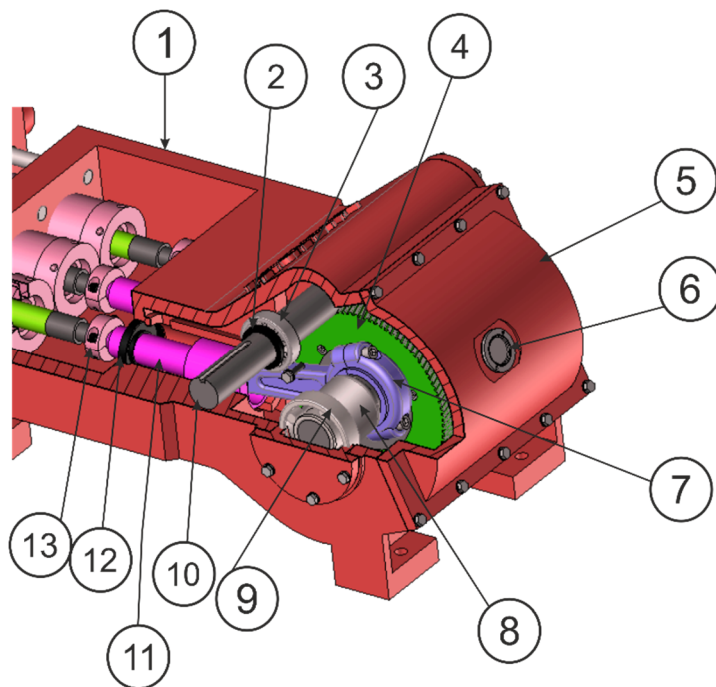
GA DRAWING





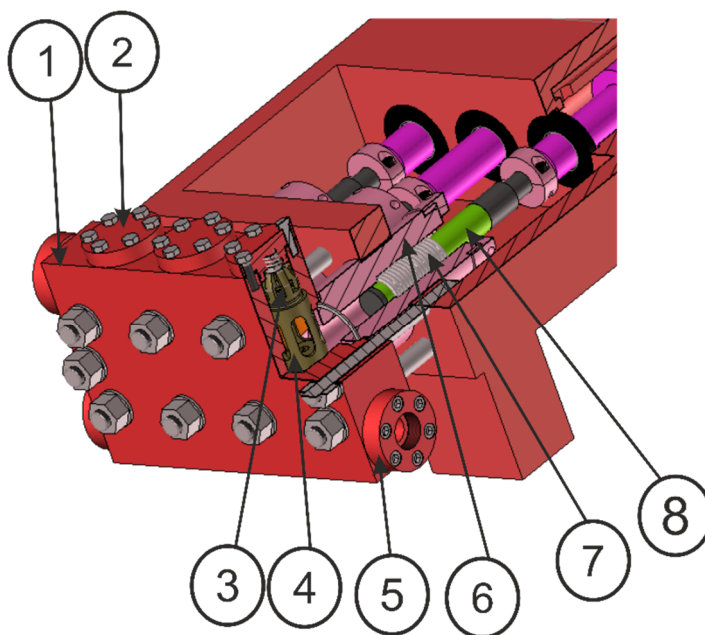
POWER END

1. Crank Case - SGI CASTING
2. Pinion shaft Oil Seal - WITON
3. PINION SHAFT BEARING
4. Helical Gear
5. Crank Case Cover – SGI CASTING
6. OIL GLASS
7. Connecting rod Assembly
8. Crank Shaft
9. Tapper Roller Bearing
10. Pinion shaft
11. Piston – EN 19 with Hard Corm
12. Piston Oil seal – Viton
13. Piston Lock



LIQUID END

1. Center Block
2. NRV Flange
3. NRV Sets
4. NRV Sleeve
5. In Out Connections
6. Stuffing Box
7. Gland Packing
8. Plunger

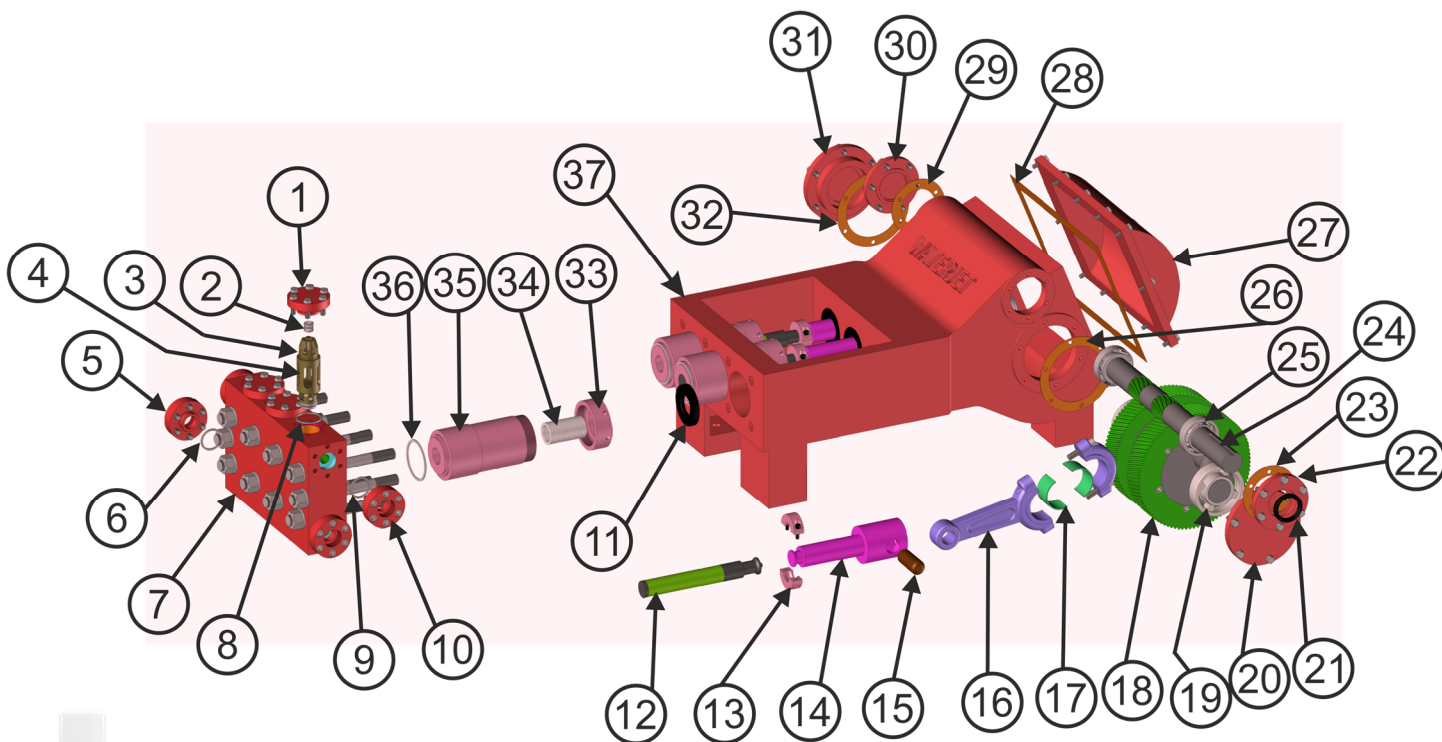




WATERJET PUMPS & SYSTEMS

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

ASSEMBLY DRAWING



BILL OF MATEIAL FOR WJHG - 100				BILL OF MATEIAL FOR WJHG - 100			
SR. NO.	PART NAME	QTY.	MATERIAL	SR. NO.	PART NAME	QTY.	MATERIAL
1	NRV FLANGE	3	SS 316	20	BEARING COVER CRANK SHAFT	1	S.G.I
2	NRV FLANGE SPRING	3	SS 316	21	OIL SEAL FOR PINION SHAFT 55×75×10	1	VITON
3	NRV SETS	6	SS 316	22	BEARING COVER FOR PINION SHAFT OPED SIDE	1	S.G.I
4	NRV SLEEVE	3	SS 316	23	BEARING COVER GASKET FOR PINION SHAFT	1	OIL PAPER
5	DISCHARGE FLANGE	2	SS 316	24	PINION SHAFT	1	EN 19
6	SUCTION FLANGE GASKET	2	TEFLON	25	TAPPER ROLLER BEARING FOR PINION SHAFT	2	33111
7	CENTER BLOCK(LIQUIED END)	1	SS 316	26	CRANK SHAFT BEARING COVER GASKET	1	OIL PAPER
8	NRV FLANGE GASKET	3	TEFLON	27	CEANK CASE COVER	1	S.G.I
9	DISCHARGE FLANGE GASKET	2	TEFLON	28	CRANK CASE COVER GASKET	1	OIL PAPER
10	DISCHARGE FLANGE	2	SS 316	29	PINION SHAFT COVER GASKET	1	OIL PAPER
11	PISTON OIL SEAL 50×100×13	3	VITON	30	PINION SHAFT BEARING COVER NON DRVIE SIDE	1	S.G.I
12	PLUNGER TC COATED	3	SS 316	31	CRANK SHAFT BEARING COVER	1	S.G.I
13	PISTON LOCK	3	SS 410	32	CRANK SHAFT BEARING COVER GASKET	1	OIL PAPER
14	PISTON	3	EN 19	33	STUFFING NUT	3	SS 316
15	PISTON PIN	1	EN 19	34	GLAND PACKING SETS	3	PTFE AR
16	CONNECTING ROD	3	S.G.I	35	STUFFING BOX	3	SS 316
17	C.R. BEARING SETS	3	TRIMETAL	36	STUFFING BOX GASKET	3	TEFLON
18	HELICAL GEAR SETS	1	EN 19	37	CRANK CASE (MAIN BODY)	1	S.G.I
19	TAPPER ROLLER BEARING FOR CRANK SHAFT	2	NJ 130				