



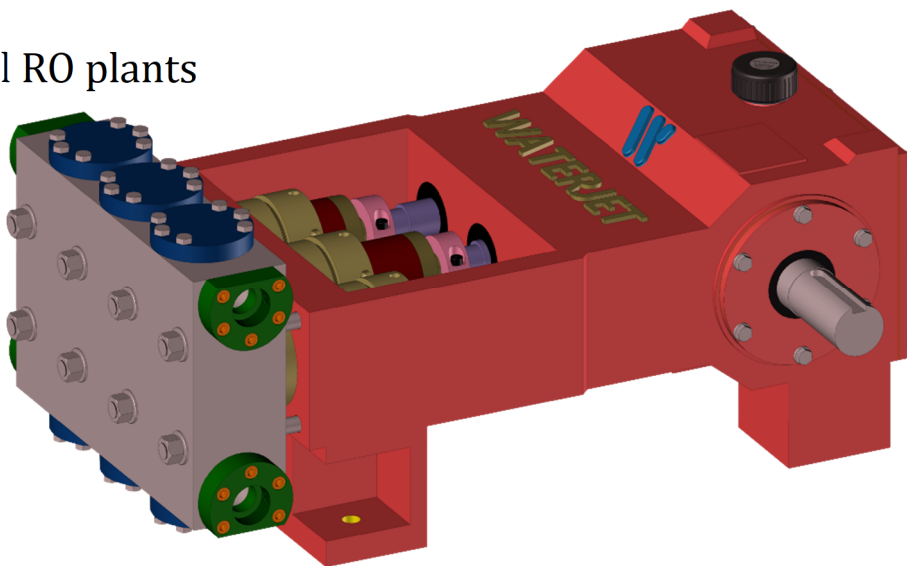
WATERJET PUMPS & SYSTEMS

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

WJ – 75

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 – 75

Min. Pressure: 80 Bar	Max Pressure: 250 bar
Min Flow rate: 57 LPM	Max. Flow Rate: 287 LPM

Pump Specification: WJ-75

Technical Specification of WJ- 75

Particular	Parameter
Plunger stroke	75 MM
Max. plunger speed	100-400 SPM
PLUNGER FORCE	75 KN (7500 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	10 Litters
Max. liquid temp	80°C
Discharge Connection	1½" inch BSP female
Suction Connection	1½" inch BSP Female
Weight	450 kg. Approx.
Overall dim. (L×B×H)	886 mm × 589 mm × 392 mm



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MODEL SELECTION CHARTS FOR WJ -75 WITH MAXIMUM FLOW AND PRESSURE

WJ - 75									
PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
60	57	3420	15	250	3625	100	37	50	1450
60	85	5100	22	200	2900	150	45	60	1450
60	114	6840	30	150	2175	200	45	60	1450
60	143	8580	38	150	2175	250	55	75	1450
60	171	10260	45	100	1450	300	45	60	1450
60	200	12000	53	100	1450	350	55	75	1450
60	228	13680	60	90	1305	400	55	75	1450
65	67	4020	18	250	3625	100	55	60	1450
65	100	6000	26	200	2900	150	55	75	1450
65	134	8040	35	150	2175	200	55	75	1450
65	167	10020	44	100	1450	250	45	60	1450
65	201	12060	53	100	1450	300	55	75	1450
65	235	14100	62	90	1305	350	55	75	1450
70	77	4620	20	250	3625	100	55	75	1450
70	116	6960	31	200	2900	150	55	75	1450
70	155	9300	41	140	2030	200	55	75	1450
70	194	11640	51	100	1450	250	55	75	1450
70	233	13980	62	80	1160	300	45	60	1450
70	272	16320	72	80	1160	350	55	75	1450
75	89	5340	23	200	2900	100	45	60	1450
75	134	8040	35	150	2175	150	55	75	1450
75	178	10680	47	100	1450	200	45	60	1450
75	223	13380	59	100	1450	250	55	75	1450
75	268	16080	71	80	1160	300	55	75	1450
80	101	6060	27	200	2900	100	55	75	1450
80	152	9120	40	150	2175	150	55	75	1450
80	202	12120	53	100	1450	200	55	75	1450
80	254	15240	67	90	1305	250	55	75	1450
85	114	6840	30	150	2175	100	45	60	1450
85	172	10320	45	100	1450	150	45	60	1450
85	229	13740	60	100	1450	200	55	75	1450
85	287	17220	76	80	1160	250	55	75	1450

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

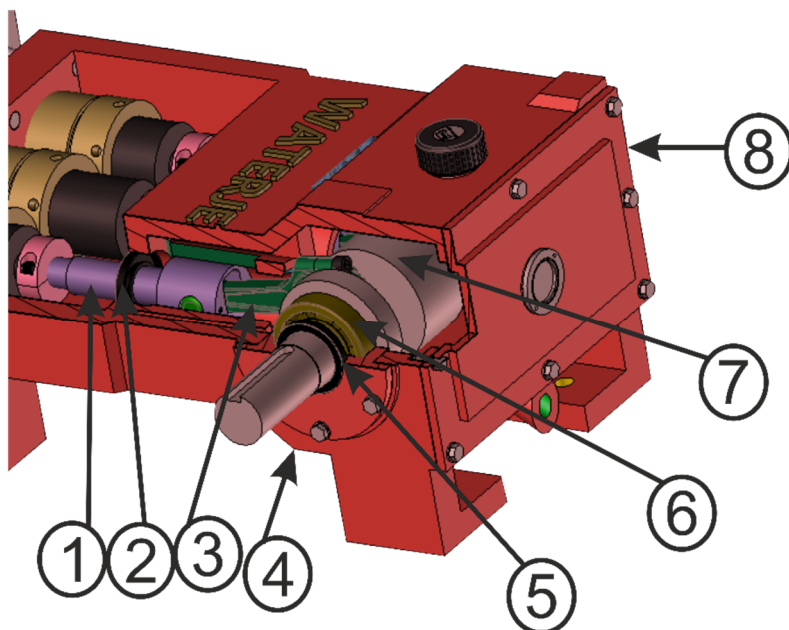


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POWER END

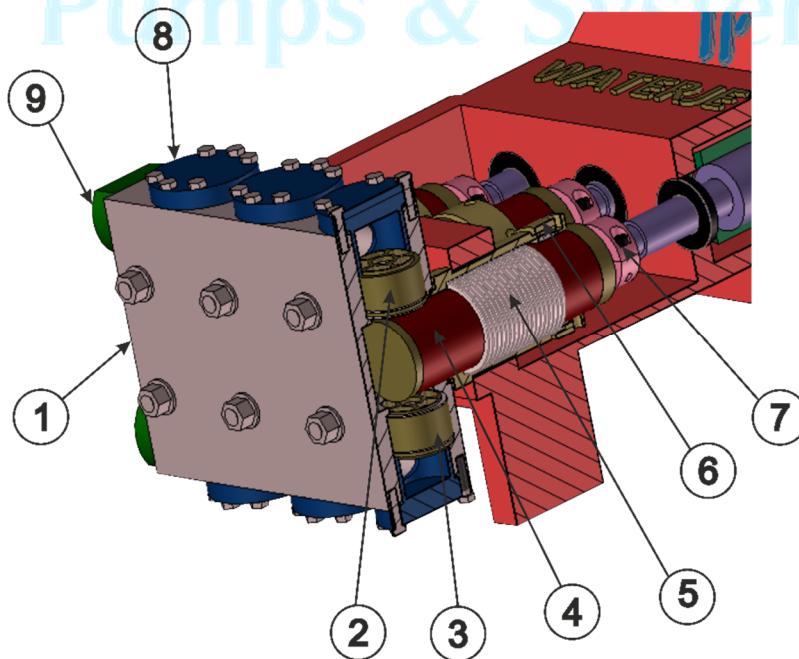
1. PISTON: EN 19
2. PISTON OIL SEAL
3. CONNECTING ROD ASSEMBLY
4. CRANKCASE: SGI CASTING
5. CRANKSHAFT OILSEAL
6. TAPPER ROLLER BEARING
7. CRANKSHAFT
8. CRANK CASE COVER: SGI



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

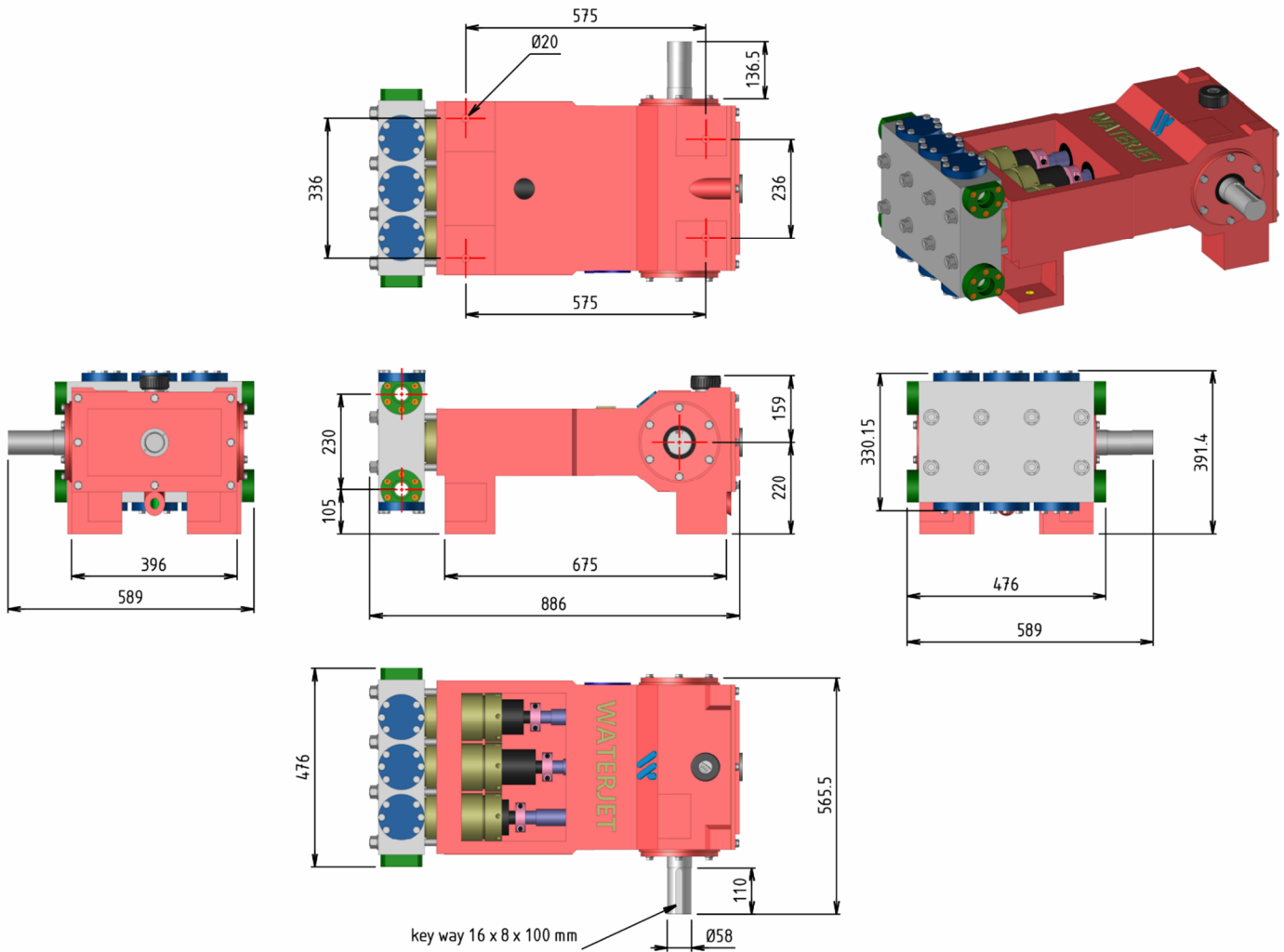




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GA DRAWING

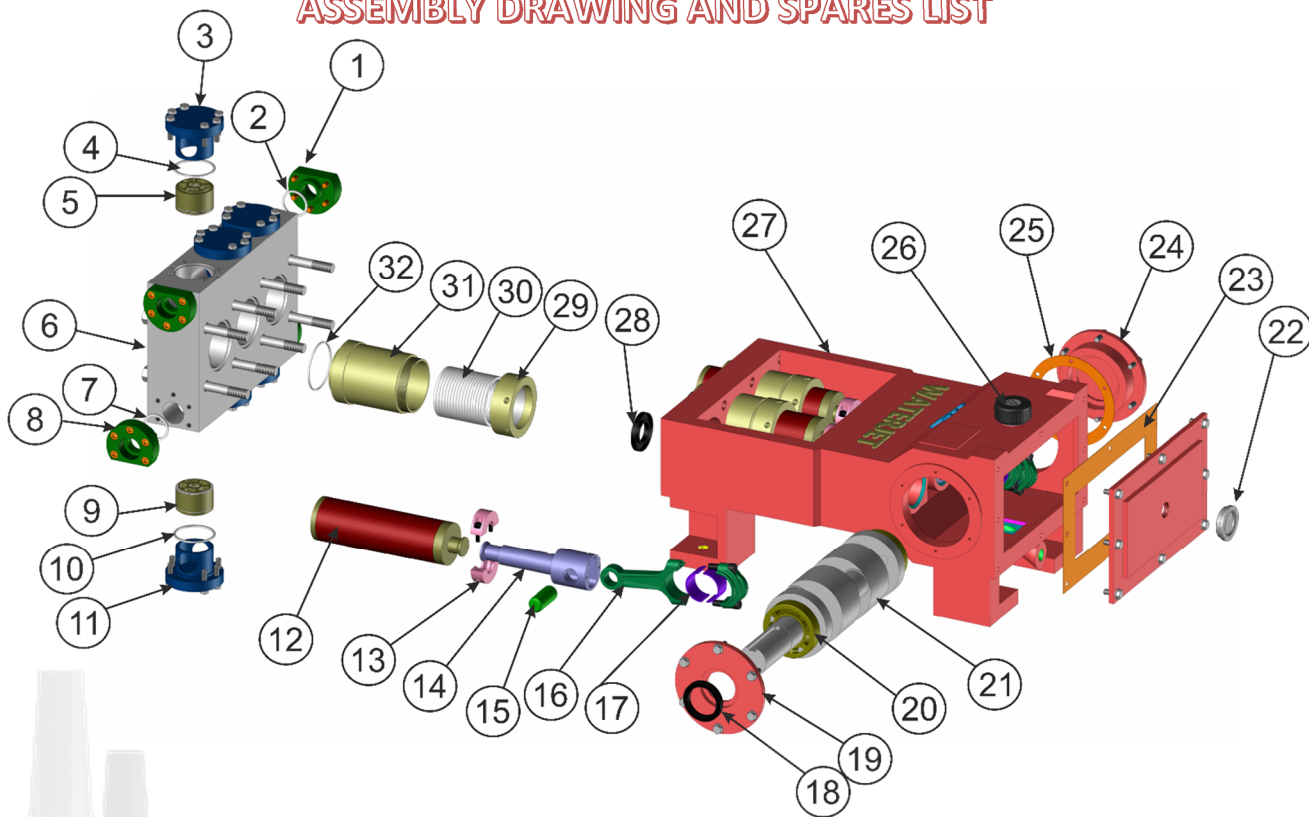




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ASSEMBLY DRAWING AND SPARES LIST



BILL OF MATEIAL FOR WJ-75

SR. NO.	PART NAME	QTY.	MATERIAL	SR. NO.	PART NAME	QTY.	MATERIAL
1	DISCHARGE FLANGE CONNECTION	2	SS 304	17	C.R.BEARING	3	TRIMETAL
2	INOUT FLANGE GASKET	2	PTFE	18	CRANK SHAFT OILSEAL	1	VITON
3	DISCHARGE NRV FLANGE	3	SS 304	19	BEARING COVER DRIVE SIDE	1	SGI CASTING
4	DISCHARGE FLANGE GASKET	3	PTFE	20	TAPPER ROLLER BEARING	2	32212
5	DISCHARGE NRV	3	SS 304	21	CRANK SHAFT	1	EN 19
6	CENTER BLOCK	1	SS 304	22	OIL GLASS	1	ALUMINIUM
7	INOUT FLANGE GASKET	2	SS 304	23	CRANK CASE COVER GASKET	1	OIL PAPER
8	SUCTION FLANGE CONNECTING	2	SS 304	24	BEARING COVER NON DRIVE SIDE	1	SGI CASTING
9	SUCTION NRV	3	SS 304	25	BEARING COVER GASKET	2	OIL PAPER
10	SUCTION NRV FLANGE GASKET	3	SS 304	26	OIL PLUG	1	ALUMINIUM
11	SUCTION FLANGE	3	SS 304	27	CRANK CASE	1	SGI CASTING
12	PLUNGER	3	SS 304 TC COATED	28	PISTON OILSEAL	3	VITON
13	PISTON LOCK	3	SS 410	29	STUFFING NUT	3	SS 304
14	PISTON	3	EN 19	30	GLAND PACKING SET	3	PTFE (ARAMIND)
15	PISTON PIN	3	EN 19	31	STUFFING BOX	3	SS 304
16	CONNECTING SETS	3	EN 8	32	STUFFING GASKET	3	PTFE



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Pump installation and pipe connection

