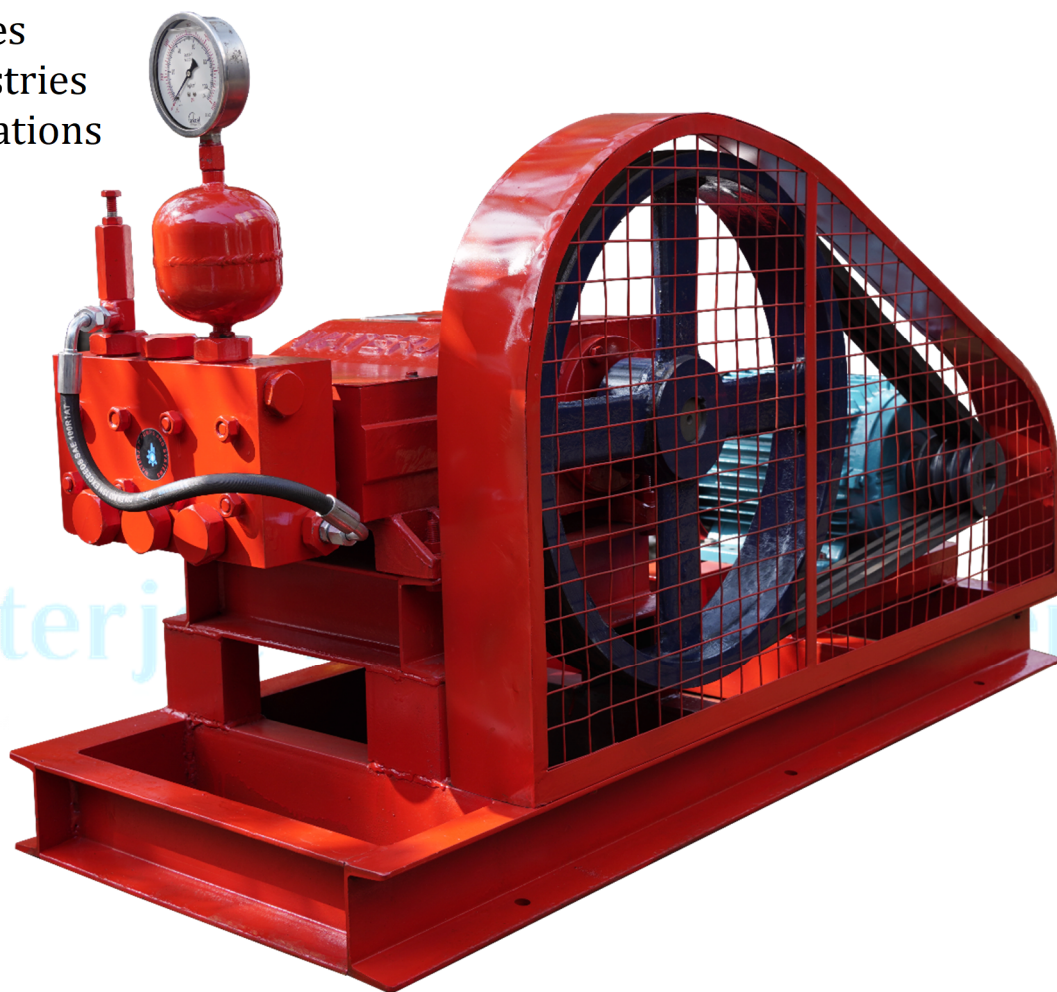




WJ – 45

****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-45

Min. Pressure: 100 Bar	Max Pressure: 300 bar
Min Flow rate: 21 LPM	Max. Flow Rate: 83 LPM



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Pump Specification: WJ-45

Technical Specification of WJ-45

Particular	Parameter
Plunger stroke	45 MM
Max. plunger speed	250-750 SPM
PLUNGER FORCE	45 KN (4500 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	2.5 Litters
Max. liquid temp	80°C
Discharge Connection	1" inch BSP female
Suction Connection	1" inch BSP Female
Weight	75 kg. Approx.
Overall dim. (L×B×H)	610 mm × 410 mm × 256 mm

MODEL SELECTION CHARTS FOR WJ -45 WITH MAXIMUM FLOW AND PRESSURE

WJ-45									
PLUNGER DAI Ø MM	FLOW IN LPM	FLOW IN LPH	GPM	PRESSURE IN BAR	PSI	PUMP SPM	KW	HP	ELE MOTOR RPM
30	21	1260	6	300	4350	250	15	20	1450
30	30	1800	8	250	3625	350	18.5	25	1450
30	38	2280	10	150	2175	450	15	20	1450
30	47	2820	12	150	2175	550	18.5	25	1450
30	55	3300	15	150	2175	650	22	30	1450
30	64	3840	17	120	1740	750	18.5	25	1450
35	29	1740	8	250	3625	250	18.5	25	1450
35	40	2400	11	150	2175	350	15	20	1450
35	52	3120	14	120	1740	450	15	20	1450
35	64	3840	17	120	1740	550	18.5	25	1450
35	75	4500	20	100	1450	650	18.5	25	1450
35	87	5220	23	100	1450	750	22	30	1450
40	38	2280	10	250	3625	250	22	30	1450
40	53	3180	14	140	2030	350	18.5	25	1450
40	68	4080	18	100	1450	450	18.5	25	1450
40	83	4980	22	100	1450	550	22	30	1450
45	48	2880	13	150	2175	250	18.5	25	1450
45	67	4020	18	100	1450	350	18.5	25	1450
45	86	5160	23	100	1450	450	22	30	1450
50	59	3540	16	100	1450	250	15	20	1450
50	83	4980	22	100	1450	350	22	30	1450

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

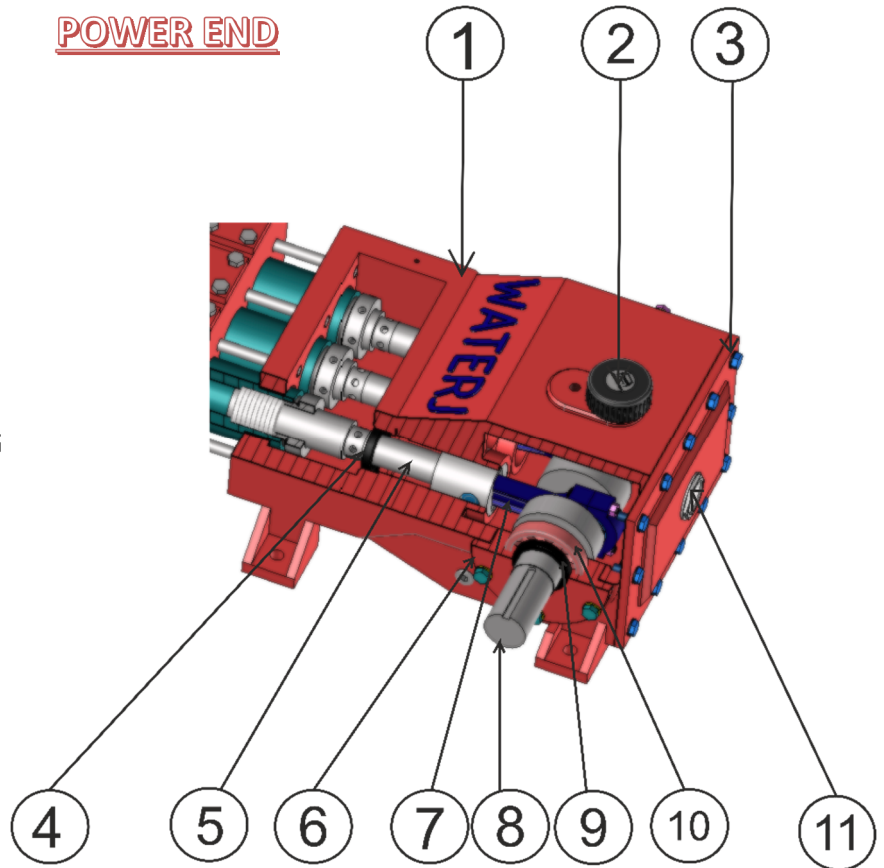


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POWER END

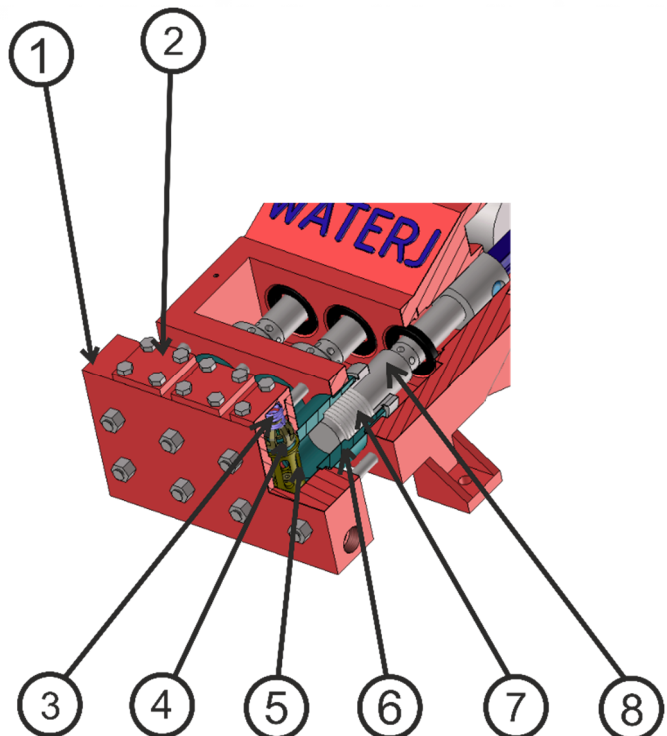
1. CRANK CASE: SGI CASTING
2. OIL PLUGE
3. CRANK CASE COVER
4. PISTON OIL SEAL
5. PISTON: EN - 8
6. BEARING COVER: SGI CASTING
7. CONNECTING ROD ASSEMBLY
8. CRANKSHAFT
9. CRANK SHAFT OIL SEAL
10. TAPPER ROLLER BEARING
11. OIL GALSS



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 PLUG
3. NRV PLUG SPRING
4. NRV SETS
5. NRV SLEEVE
6. STUFFING BOX
7. GLAND PACKING
8. PLUNGER

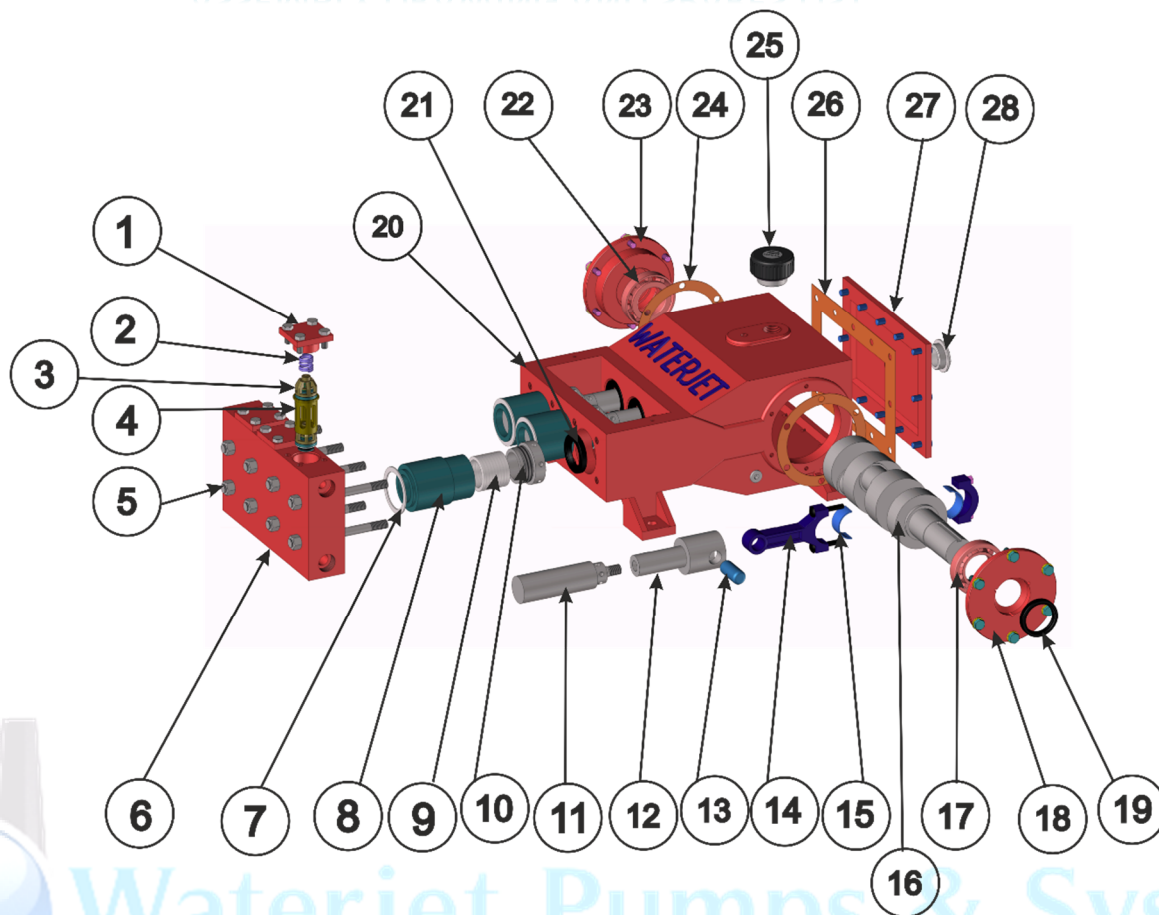




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ASSEMBLY DRAWING AND SPARES LIST



BILL OF MATEIAL FOR WJ-45

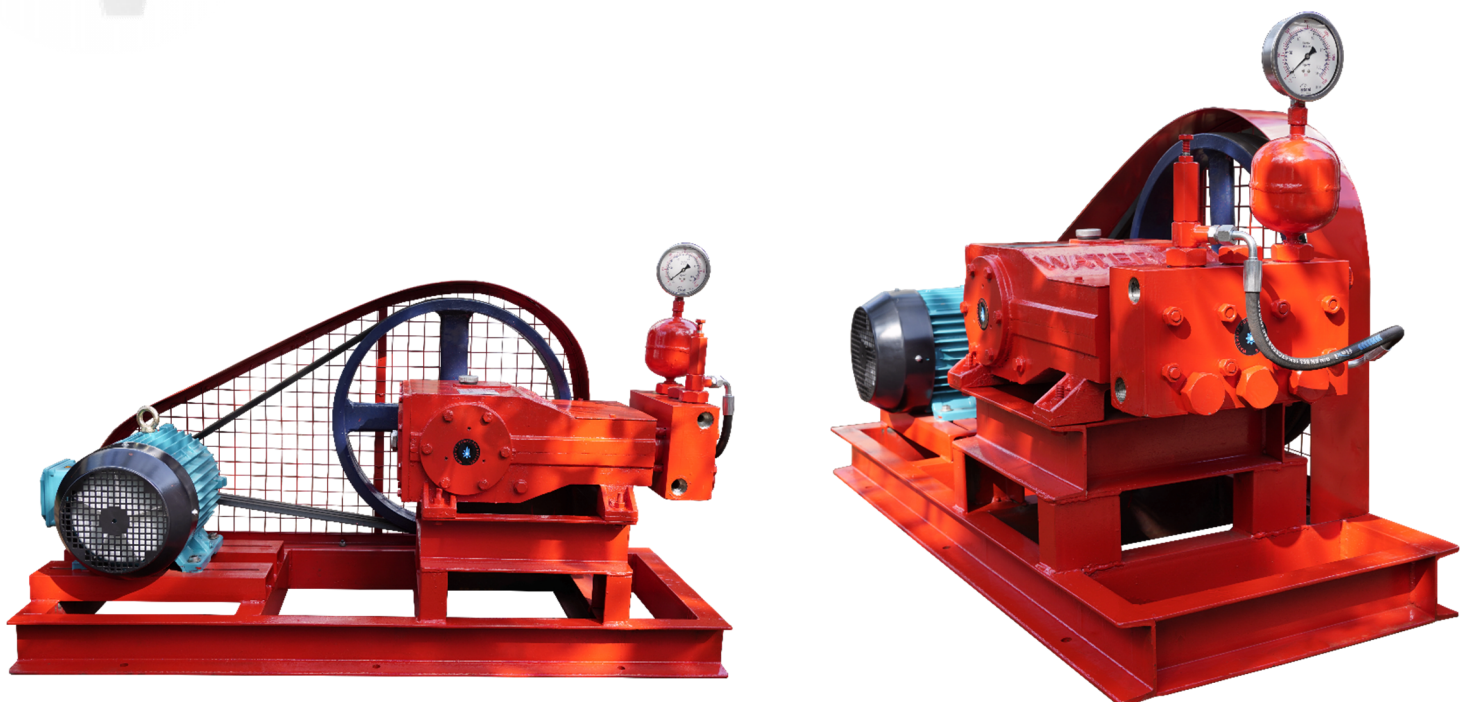
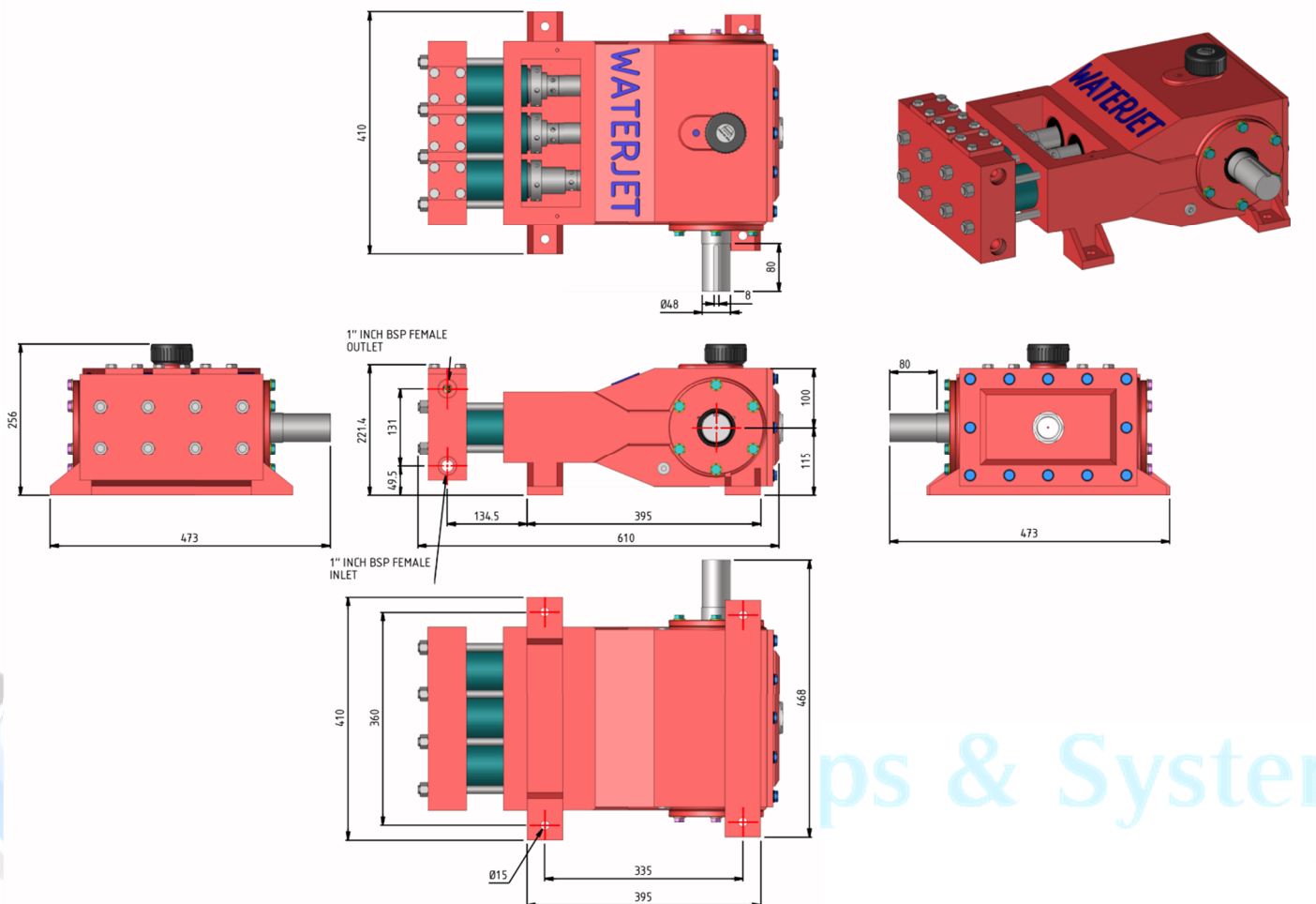
SR. NO.	PART NAME	QTY.	MATERIAL	SR. NO.	PART NAME	QTY.	MATERIAL
1	NRV FLANGE	3	SS 304	15	C.R. BEARING	3	Trimetal
2	NRV FLANGE SPRING	3	SS 304	16	CRANK SHAFT	1	EN 19
3	NRV SETS	6	SS 316	17	TAPPER ROLLER BEARING	1	30210
4	NRV SLEEVE	3	SS 316	18	BEARING COVER DRIVE SIDE	1	SGI
5	CENTER BLOCK STUD	8	SS 304	19	CRANK SHAFT OIL SEAL 50×65×10MM	1	VITON
6	CENTER BLOCK	1	SS 304	20	CRANK CASE	1	SGI
7	SUFFING BOX GASKET	3	PTFE	21	PISTION OIL SEAL 40×65×10 MM	3	VITON
8	STUFFING BOX	3	SS304	22	TAPPER ROLLER BEARING	1	30210
9	GLAND PACKING	3	PTFE (ARAMIND)	23	BEARING COVER NON DRIVE SIDE	1	SGI
10	STUFFING NUT	3	SS 304	24	BEARING COVER GASKET	2	OIL PAPER
11	PLUNGER TC COATED	3	SS 304	25	OIL PLUG	1	ALLUMINIUM
12	PISTON	3	EN8	26	CRANK CASE COVER GASKET	1	OIL PAPER
13	PISTON PIN	3	EN8	27	CRANK CASE COVER	1	SGI
14	CONNECTING ROD ASSEMBLY	3	SGI	28	OIL GLASS	1	ALLUMINIUM



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GA DRAWING





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Pump installation and pipe connection

