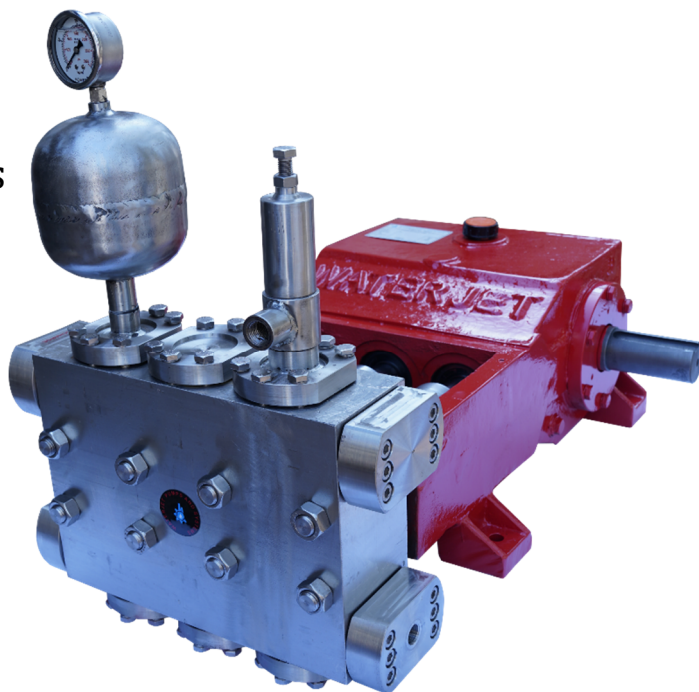




WJ – 55

****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 – 55

Min. Pressure: 70 Bar	Max Pressure: 550 bar
Min Flow rate: 15 LPM	Max. Flow Rate: 172 LPM

Pump Specification: WJ-55

Technical Specification of WJ- 55

Particular	Parameter
Plunger stroke	55 MM
Max. plunger speed	250 – 750 SPM
PLUNGER FORCE	55 KN (5500 KGF)
Required inlet pressure	3 – 5 bar
Required inlet flow rate	Booster pump flow require min. 2 times of rated flow rate
Oil type	SAE – 220 , 20w40
Oil capacity	6 Litters
Max. liquid temp	80°C
Discharge Connection	1½" inch BSP female
Suction Connection	1½" inch BSP Female
Weight	200 kg. Approx.
Overall dim. (L×B×H)	744 mm × 542 mm × 323 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 -55 WITH MAXIMUM FLOW AND PRESSURE

WJ - 55

<u>PLUNGER</u> <u>DAI</u> <u>Ø MM</u>	<u>FLOW</u> <u>IN LPM</u>	<u>FLOW IN</u> <u>LPH</u>	<u>GPM</u>	<u>PRESSURE</u> <u>IN BAR</u>	<u>PSI</u>	<u>PUMP</u> <u>SPM</u>	<u>KW</u>	<u>HP</u>	<u>ELE MOTOR</u> <u>RPM</u>
30	15	900	3.96	550	7975	150	22	30	1450
30	20	1200	5.28	550	7975	200	30	40	1450
30	26	1560	6.864	550	7975	250	37	50	1450
30	31	1860	8.184	390	5655	300	30	40	1450
30	36	2160	9.504	300	4350	350	30	40	1450
30	41	2460	10.824	200	2900	400	22	30	1450
30	47	2820	12.408	200	2900	450	22	30	1450
30	52	3120	13.728	230	3335	500	30	40	1450
30	57	3420	15.048	200	2900	550	30	40	1450
35	21	1260	5.544	350	5075	150	18.5	25	1450
35	28	1680	7.392	350	5075	200	22	30	1450
35	35	2100	9.24	350	5075	250	30	40	1450
35	42	2520	11.088	290	4205	300	30	40	1450
35	49	2940	12.936	240	3480	350	30	40	1450
35	57	3420	15.048	200	2900	400	30	40	1450
35	64	3840	16.896	150	2175	450	22	30	1450
40	27	1620	7.128	250	3625	150	18.5	25	1450
40	37	2220	9.768	250	3625	200	22	30	1450
40	46	2760	12.144	250	3625	250	30	40	1450
40	55	3300	14.52	220	3190	300	30	40	1450
40	65	3900	17.16	140	2030	350	25	30	1450
40	74	4440	19.536	160	2320	400	30	40	1450
40	83	4980	21.912	140	2030	450	30	40	1450
40	93	5580	24.552	100	1450	500	22	30	1450
40	102	6120	26.928	120	1740	550	30	40	1450



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 - 55

<u>PLUNGER</u> <u>DAI</u> <u>Ø MM</u>	<u>FLOW IN</u> <u>LPM</u>	<u>FLOW IN</u> <u>LPH</u>	<u>GPM</u>	<u>PRESSURE</u> <u>IN BAR</u>	<u>PSI</u>	<u>PUMP</u> <u>SPM</u>	<u>KW</u>	<u>HP</u>	<u>ELE MOTOR</u> <u>RPM</u>
45	35	2100	9.24	250	3625	150	22	30	1450
45	47	2820	12.408	200	2900	200	22	30	1450
45	59	3540	15.576	200	2900	250	30	40	1450
45	70	4200	18.48	200	2900	300	37	50	1450
45	82	4920	21.648	150	2175	350	30	40	1450
45	94	5640	24.816	150	2175	400	37	50	1450
45	106	6360	27.984	100	1450	450	30	40	1450
45	118	7080	31.152	100	1450	500	30	40	1450
45	129	7740	34.056	100	1450	550	37	50	1450
50	43	2580	11.352	250	3625	150	30	40	1450
50	58	3480	15.312	200	2900	200	30	40	1450
50	72	4320	19.008	200	2900	250	37	50	1450
50	87	5220	22.968	140	2030	300	30	40	1450
50	102	6120	26.928	120	1740	350	30	40	1450
50	116	6960	30.624	120	1740	400	37	50	1450
50	131	7860	34.584	110	1595	450	37	50	1450
55	52	3120	13.728	200	2900	150	30	40	1450
55	70	4200	18.48	200	2900	200	37	50	1450
55	88	5280	23.232	170	2465	250	37	50	1450
55	105	6300	27.72	100	1450	300	30	40	1450
55	123	7380	32.472	100	1450	350	30	40	1450



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 - 55

<u>PLUNGER</u> <u>DAI</u> <u>Ø MM</u>	<u>FLOW IN</u> <u>LPM</u>	<u>FLOW IN</u> <u>LPH</u>	<u>GPM</u>	<u>PRESSURE</u> <u>IN BAR</u>	<u>PSI</u>	<u>PUMP</u> <u>SPM</u>	<u>KW</u>	<u>HP</u>	<u>ELE</u> <u>MOTOR</u> <u>RPM</u>
55	141	8460	37.224	100	1450	400	37	50	1450
55	158	9480	41.712	70	1015	450	30	40	1450
60	62	3720	16.368	150	2175	150	22	30	1450
60	83	4980	21.912	150	2175	200	30	40	1450
60	104	6240	27.456	150	2175	250	37	50	1450
60	125	7500	33	100	1450	300	30	40	1450
60	146	8760	38.544	100	1450	350	37	50	1450
65	73	4380	19.272	150	2175	150	30	40	1450
65	98	5880	25.872	150	2175	200	37	50	1450
65	123	7380	32.472	100	1450	250	30	40	1450
65	147	8820	38.808	100	1450	300	37	50	1450
65	172	10320	45.408	70	1015	350	30	40	1450
70	85	5100	22.44	160	2320	150	37	50	1450
70	114	6840	30.096	100	1450	200	30	40	1450
70	142	8520	37.488	100	1450	250	37	50	1450
70	171	10260	45.144	70	1015	300	30	40	1450

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

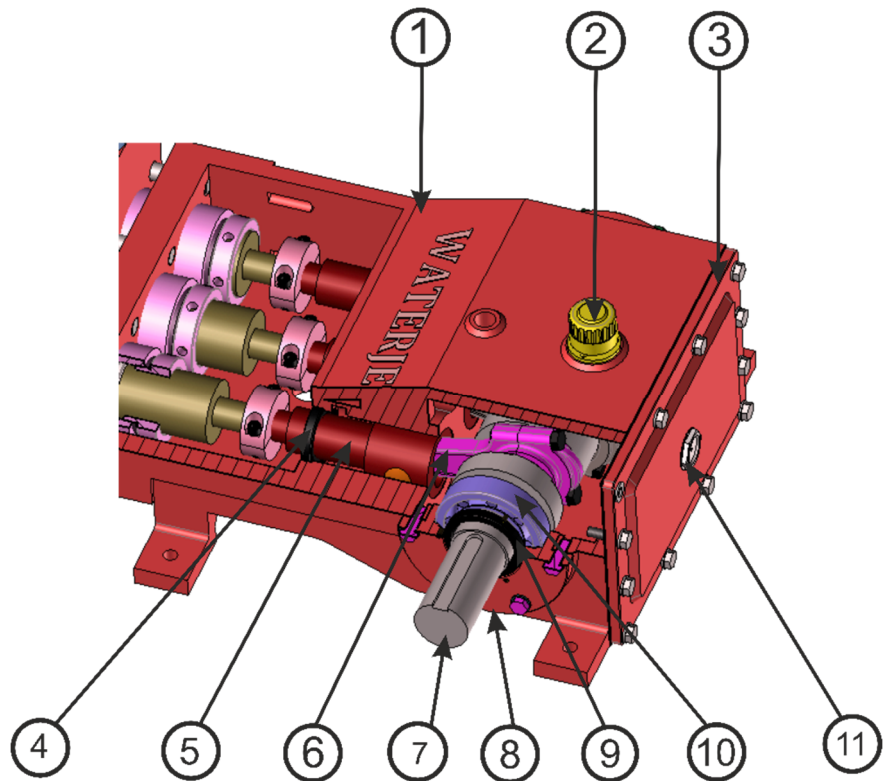


WATERJET PUMPS & SYSTEMS

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

POWER END

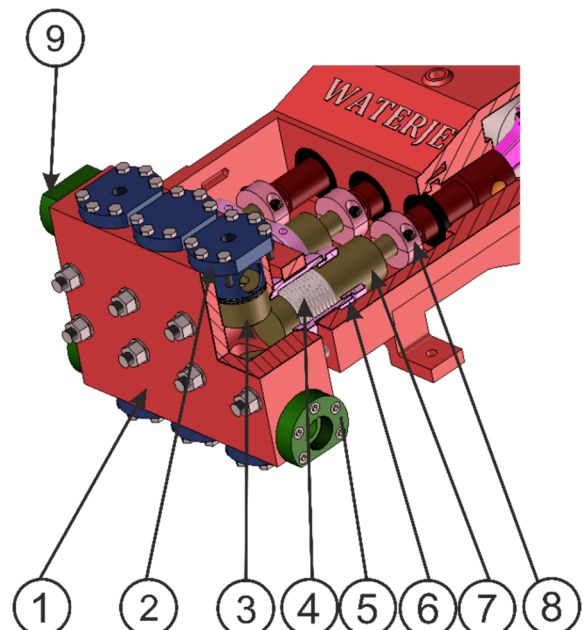
1. CRANK CASE: SGI CASTING
2. OIL PLUGE
3. CRANK CASE COVER
4. PISTON OIL SEAL
5. PISTON: EN - 19
6. CONNECTING ROD ASSEMBLY
7. CRANKSHAFT
8. BEARING COVER: SGI CASTING
9. CRANK SHAFT OIL SEAL
10. TAPPER ROLLER BEARING
11. OIL GALSS



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

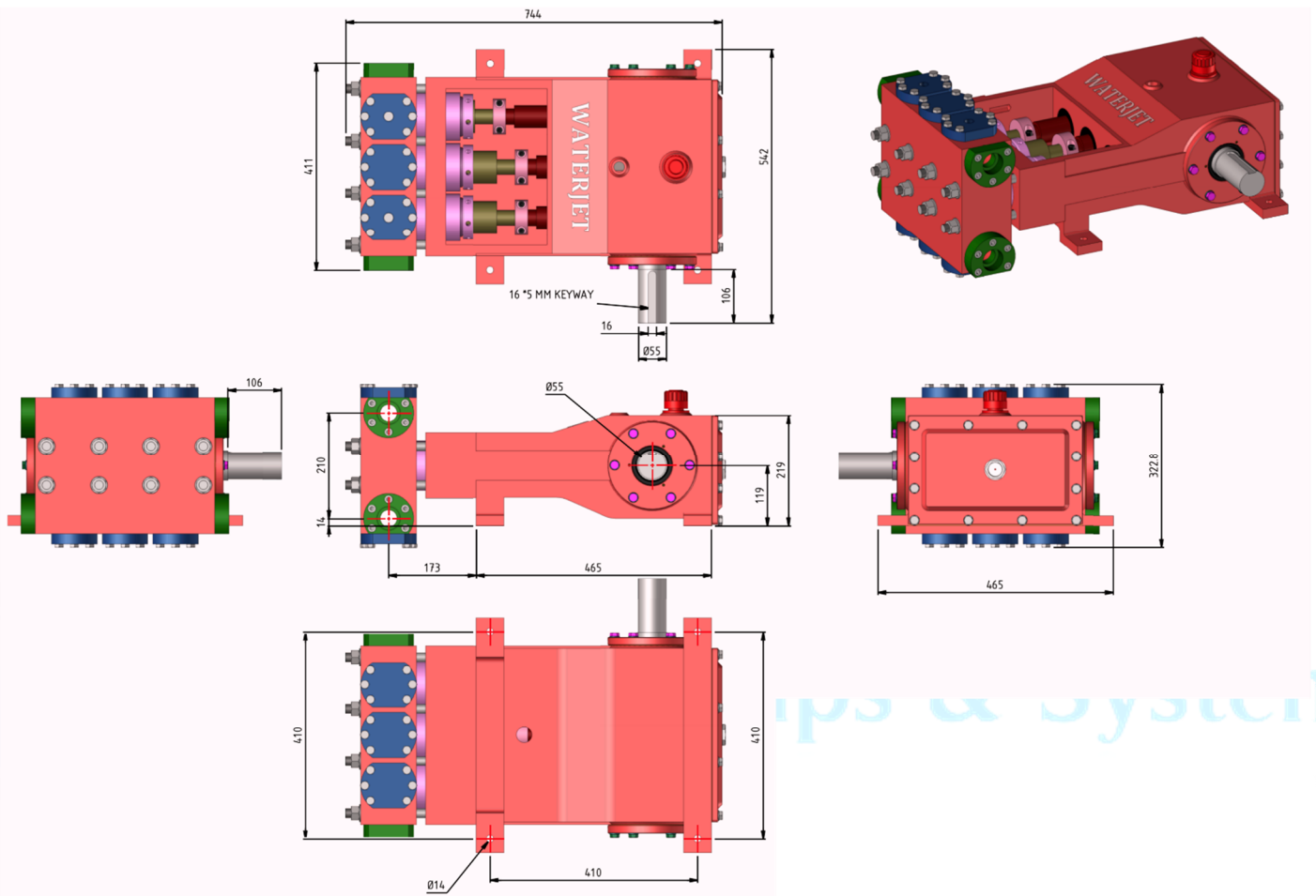




WATERJET PUMPS & SYSTEMS

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

GA DRAWING

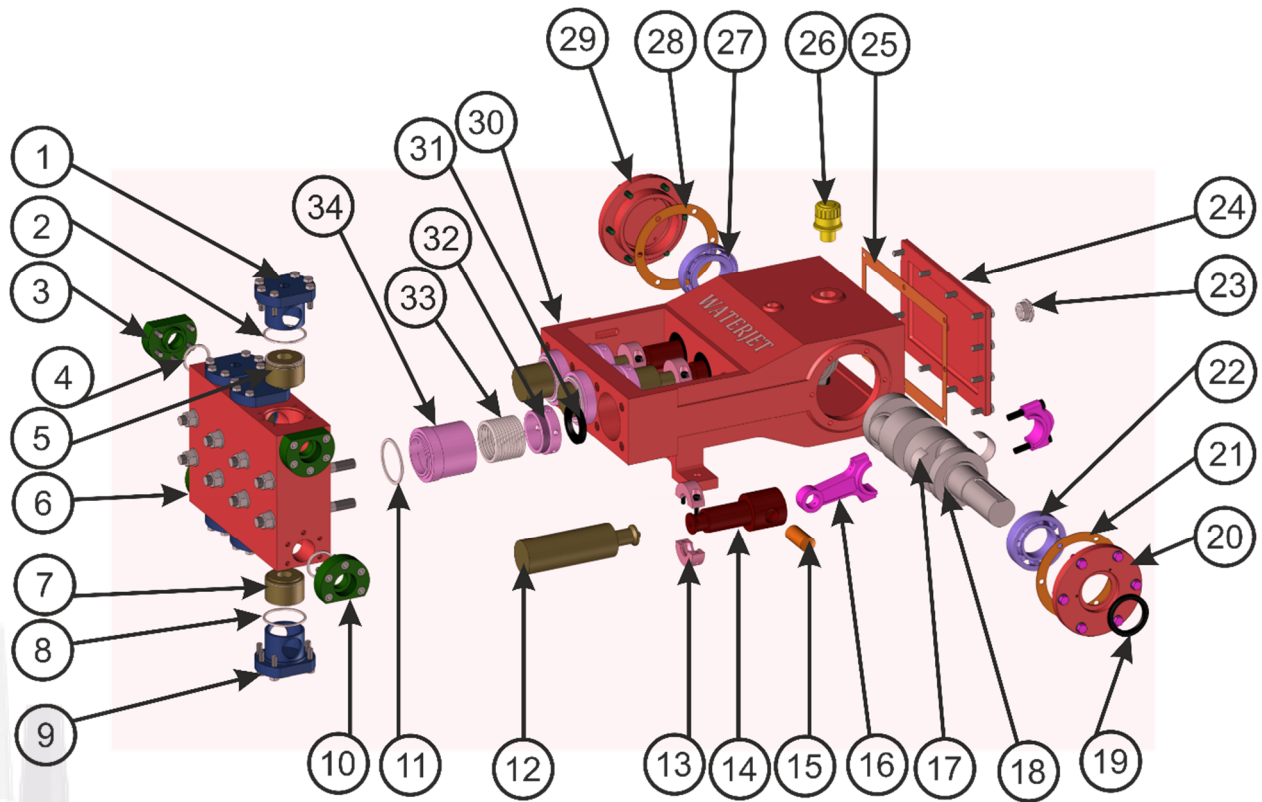




WATERJET PUMPS & SYSTEMS

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-55

SR. NO.	PART NAME	QTY.	MATERIAL	SR. NO.	PART NAME	QTY.	MATERIAL
1	DISCHAGE NRV FLANGE	3	SS 304	18	CRANKSHAFT	1	EN 19
2	NRV FLANGE GASKET	3	SS 304	19	CRANKSHAFT OIL SEAL (60×80×10)	1	VITON
3	DISCHARGE CONNECTION	2	SS 304	20	BEARING COVER DRIVE SIDE	1	SGI
4	DISCHARGE CONNCTION GASKET	2	PTFE	21	BEARING COVER GASKET	1	OIL PAPER
5	DISCHARGE NRV SETS	3	SS 304	22	TAPPER ROLLER BEARING	1	30212
6	CENTER BLOCK	1	SS 304	23	OIL GLASS	1	ALUMINIUM
7	SUCTION NRV SETS	3	SS 304	24	CRANK CASE COVER	1	SGI
8	SUCTION NRV FLANGE GASKETS	3	PTFE	25	CRANK CASE COVER GASKET	1	OIL PAPER
9	SUCTION NRV FLANGE	3	SS 304	26	OIL PLUG	1	ALUMINIUM
10	SUCTION CONNECTION	2	SS 304	27	TAPPER ROLLER BEARING	1	30212
11	STUFFING GASKET	3	PTFE	28	BEARING COVER GASKET	1	OIL PAPER
12	PLUNGER TC COATED	3	SS 304	29	BEARING COVER CLOSED SIDE	1	SGI
13	PISTON LOCK	3	SS 410	30	CRANK CASE	1	SGI
14	PISTON	3	EN 19	31	PISTON OIL SEAL (40×75×10)	3	VITON
15	PISTON PIN	3	EN 19	32	STUFFING NUT	3	SS 304
16	CONNECTING ROD ASSEMBLY	3	EN 19	33	GLAND 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

