

WITH WASHDOWN
FOR HIGHER CAPACITIES AND DISCHARGE HEADS

ELMRIDGE 'TLST Series' Liqui-Jet Solids Eductors use liquid under pressure as the Motive fluid, and effectively pump, slurry, or convey granular solids. The principle of operation for the TLST Series is the same as for the TLS Series shown previously, however, the TLST Series Solids eductor has higher Motive Nozzle flowrates for the same Motive Pressure. TLST Series Solids Eductors are also typically used with Washdown Water supplied via a specially designed feed hopper, dramatically increasing the Suction capacity and available Discharge pressure of a given eductor by reducing or eliminating the amount of ambient air that must be compressed by the eductor. Standard 'TLST Series' Liqui-Jet Solids Eductors have been designed for the optimal combination of obtainable Suction Solids Flowrate and eductor Discharge Pressure. Approximate operating characteristics (Water Motive based on 100 lb/cu-ft granular free-flowing solids - with approximately 10% additional water for washdown), for standard models are shown below, and special units are also available to meet your specifications. Standard materials of construction are PVC, CPVC, Bronze/Brass, Cast Iron/Steel, all Carbon Steel, and 316L Stainless Steel. Ceramic liners are also available. Other materials are available upon request. Threaded, flanged, sanitary, buttweld, or socket weld connections (except Cast Iron), depending on configuration.



**SEE INDIVIDUAL DIMENSIONAL
DRAWINGS BY STYLE**

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Table TLST-1

Approx. Suction Capacity (cu-ft/hr), Water Consumption (usgpm), and Avail. Disch. Press. (psig) for TLST Series Liqui-Jet Solids Eductors using 70 Deg F Motive Water (with approx. 10% add'l washdown water) (100 lb/cu-ft powder, Gravity fed, Atmospheric Suction)

Model Number		Operating Water Pressure (psig)								
		20	30	40	50	60	80	100	120	140
TLST3	Suction Capacity (cu-ft/hr)	10	12	14	16	17	20	22	25	27
	Water Consumption (usgpm)	10.3	12.6	14.5	16.2	17.8	20.6	23.0	25.1	27.2
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST4	Suction Capacity (cu-ft/hr)	18	23	26	29	32	37	41	45	49
	Water Consumption (usgpm)	18.8	23.0	26.6	29.7	32.6	37.7	42.1	46.1	49.8
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST5	Suction Capacity (cu-ft/hr)	34	41	47	53	58	67	75	82	89
	Water Consumption (usgpm)	34.2	41.9	48.4	54.0	59.3	68.5	76.6	83.8	90.5
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST6	Suction Capacity (cu-ft/hr)	60	74	85	96	104	120	134	147	159
	Water Consumption (usgpm)	61.6	75.4	87.1	97.2	106.7	123.3	137.9	150.8	162.9
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST7	Suction Capacity (cu-ft/hr)	109	133	154	172	188	217	242	265	287
	Water Consumption (usgpm)	110.8	135.8	156.8	175.0	192.1	221.9	248.2	272	293
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST8	Suction Capacity (cu-ft/hr)	144	176	204	228	249	288	321	352	381
	Water Consumption (usgpm)	147.1	180.2	208.1	232.2	255.0	295	329	360	389
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST9	Suction Capacity (cu-ft/hr)	191	234	271	303	331	382	427	468	505
	Water Consumption (usgpm)	195.3	239.2	276	308	339	391	437	478	517
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST10	Suction Capacity (cu-ft/hr)	254	310	359	402	438	506	565	620	670
	Water Consumption (usgpm)	258.9	317	366	409	449	519	580	634	685
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST11	Suction Capacity (cu-ft/hr)	338	414	479	536	585	676	754	827	894
	Water Consumption (usgpm)	349	427	494	551	605	699	781	855	923
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST12	Suction Capacity (cu-ft/hr)	439	537	621	696	758	876	979	1073	1159
	Water Consumption (usgpm)	455	557	644	718	789	911	1019	1115	1204
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST13	Suction Capacity (cu-ft/hr)	593	726	839	940	1025	1184	1322	1450	1566
	Water Consumption (usgpm)	605	742	857	956	1050	1212	1356	1483	1602
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST14	Suction Capacity (cu-ft/hr)	787	964	1114	1248	1361	1572	1755	1925	2080
	Water Consumption (usgpm)	804	985	1137	1269	1394	1610	1800	1969	2127
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST15	Suction Capacity (cu-ft/hr)	1045	1279	1479	1657	1806	2087	2331	2555	2761
	Water Consumption (usgpm)	1067	1307	1510	1685	1850	2137	2390	2615	2824
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8
TLST16	Suction Capacity (cu-ft/hr)	1384	1693	1958	2193	2391	2763	3085	3382	3655
	Water Consumption (usgpm)	1412	1730	1999	2230	2449	2829	3164	3461	3738
	Avail. Disch. Press. (psig)	6.4	9.6	12.8	16.0	19.2	25.6	32.0	38.5	44.8

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This table is a guide only and may not be suitable by itself for sizing Liqui-Jet Solids Eductors. It will be our pleasure to assist you.