

NFPA 1901 RATING CHART

MODEL DSD750 750 @ 150 PSI	MODEL DSD1000 1000 @ 150 PSI	MODEL DSD1250 1250 @ 150 PSI
SINGLE STAGE PUMP - 10" IMPELLER		

MAXIMUM ELEVATION AT WHICH THE PUMP WILL DO THE RATING WITH STANDARD TEST CONDITIONS OF 10 FT. LIFT, 20 FT. OF SUCTION HOSE & STRAINER.

DSD750 4-1/2 IN. HOSE, 4000 FEET	DSD1000 5 IN. HOSE, 2300 FEET
DSD750 5 IN. HOSE, 6000 FEET	DSD1000 6 IN. HOSE, 6000 FEET
DSD750 6 IN. HOSE, 8000 FEET	DSD1250 6 IN. HOSE, 3000 FEET

RATED CAPACITY (US GPM)	CAPACITY (US GPM)	PRESSURE (PSIG) ***	HORSEPOWER REQUIRED	PUMP INPUT DRIVE SHAFT (RPM) *					
				RATIO 2.28	RATIO 2.05	RATIO 1.86	RATIO 1.71	RATIO 1.58	
750	PUMP MODEL			DSD750-23	DSD750-21	DSD750-19	DSD750-17	DSD750-15	
	750	150	105	1570	1740	1920	2090	2260	
	750	165	116	1630	1810	2000	2170	2350	
	525	200	117	1720	1920	2110	2300	2490	
	375	250	135	1890	2100	2320	2520	2730	
1000	PUMP MODEL			DSD1000-23	DSD1000-21	DSD1000-19	DSD1000-17	DSD1000-15	
	1000	150	136	1680	1870	2060	2240	2420	
	1000	165	150	1740	1940	2140	2320	2510	
	700	200	137	1770	1970	2170	2360	2550	
	500	250	153	1930	2110	2360	2570	2780	
1250	PUMP MODEL			DSD1250-23	DSD1250-21	DSD1250-19	DSD1250-17	DSD1250-15	
	1250	150	165	1720	1910	2100	2290	2470	
	1250	165	176	1770	1970	2170	2360	2550	
	875	200	160	1800	2000	2210	2400	2600	
	625	250	171	1940	2160	2380	2590	2800	
HIGH PRESSURE **	200	300	150	2080	2310	2540	2770	2990	

- * ENGINE SPEED MUST NOT EXCEED MANUFACTURER'S MAXIMUM NO-LOAD GOVERNED SPEED.
- ** THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY ENGINE SPEED, AVAILABLE HORSEPOWER AND PUMP RATIO.
- *** GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.

THIS CHART IS TO BE USED TO SELECT THE PROPER PUMP GEARBOX RATIO. THE INPUT SPEED AND HORSEPOWER REQUIREMENTS SHOWN ARE AVERAGE FIGURES. WHEN USING THIS CHART, IT IS IMPORTANT TO OBTAIN THE NET HORSEPOWER OUTPUT OF THE ENGINE. THE ENGINE MANUFACTURER'S PUBLISHED CURVE MAY NOT REPRESENT A TRUE NET HORSEPOWER. WHEN TOTALING ALL THE POWER DEDUCTIONS THAT MAY BE ENCOUNTERED FOR THE NFPA 1901 TEST, THE DEDUCTIONS COULD BE ENGINE AND VEHICLE ACCESSORIES, ELEVATION, TEMPERATURE, BAROMETER, ETC. CHECK WITH THE ENGINE MANUFACTURER FOR THEIR RECOMMENDATION AND APPROVAL OF A NET HORSEPOWER CURVE.

FOR ROAD OPERATION, ENGINE TORQUE ON PUMP DRIVE LINE SHOULD BE CHECKED PER HALE FORM F-72.



HALE PRODUCTS, INC.
A Unit of IDEX Corporation
Conshohocken, PA 19428 USA