PIERCE ENGINE FLOWS/PRESSURES INFORMATION

HOSE (KRAKEN)	NOZZLE	PDP (EP)	PIPING LOSS	FRICTION LOSS	NOZZLE PRESSURE	FLOW (MEASURED)	NOZZLE REACTION	NOTES
#1 CROSSLAY 200' 1 ½"	50/150 XD FOG W/ 7/8" SLUG	**140 PSI**	0 PSI	80 PSI TOTAL 40 PSI PER 100'	**60 PSI**	**150 GPM**	58.7 POUNDS	50/150 XD FOG NOZZLES REQUIRE 60 PSI NP TO FLOW 150 GPM W/ KRAKEN 1 ½" HOSE
#2 CROSSLAY 200' 1 ½"	50/150 XD FOG W/ 7/8" SLUG	**150 PSI**	5 PSI	85 PSI TOTAL 42.5 PSI PER 100'	**60 PSI**	**150 GPM**	58.7 POUNDS	50/150 XD FOG NOZZLES REQUIRE 60 PSI NP TO FLOW 150 GPM W/ KRAKEN 1 ½" HOSE
DRIVERS REAR A 300' 2"	50/250 XD FOG W/ 1 1/8" SLUG	**195 PSI**	10 PSI	135 PSI TOTAL 45 PSI PER 100'	**50 PSI**	**250 GPM**	89.3 POUNDS	
DRIVERS REAR B 300' 1 ½"	50/150 XD FOG W/ 7/8" SLUG	**170 PSI**	0 PSI	110 PSI TOTAL 36.7 PSI PER 100'	**60 PSI**	**150 GPM**	58.7 POUNDS	50/150 XD FOG NOZZLES REQUIRE 60 PSI NP TO FLOW 150 GPM W/ KRAKEN 1 ½" HOSE
OFFICERS REAR A 300' 2"	50/250 XD FOG W/ 1 1/8" SLUG	**185 PSI**	0 PSI	135 PSI TOTAL 45 PSI PER 100'	**50 PSI**	**250 GPM**	89.3 POUNDS	
OFFICERS REAR B 250' 2 ½"	1 1/4" SMOOTH BORE	**100 PSI**	0 PSI	50 PSI TOTAL 20 PSI PER 100'	**50 PSI**	**328 GPM**	122.7 POUNDS	
BOOSTER LINE 200' 1"	100/45 CHIEF FOG	**190 PSI**	N/A	90 PSI TOTAL 45 PSI PER 100'	**100 PSI**	**45 GPM**	22.7 POUNDS	TRADITIONAL FIRE ENGINE BOOSTER HOSE NOT KRAKEN

TESTED ON PE725 1-19-0397 ON 01/23/2020