HILBORN NOZZLE FLOW CHART, at 30psi and .792sg (methanol)

-According to Vern Tomlinson of Fuel Injection Engineering (Hilborn), the Hilborn nozzle number is a designation of its' flow in gallons per minutes.
-Example #1 is #4 nozzles flows .04GPM each at 30PSI and using .792specific gravity fluid, so eight #4's equals .32GPM.
-Example #2 is #20 nozzles flow .20GPM each so eight flow 1.60GPM.
-These charts have been made to show the flow in PPH (Pounds Per Hour) based from square root calculations of the 30psi column using the formula: **new pressure divided by old pressure, square root, times old flow = new flow.**

----------at 30 PSI----------		----------psi----------						
		30	**40**	**50**	**60**	**70**	**80**	**90**
		sq. rt. (1.155)	(1.118)	(1.095)	(1.080)	(1.069)	(1.061)	
Nozzle/diam-/---SIA-----GPM--pph---8xGPM	**SIA x 8**	----------**eight nozzles-PPH**----------						
#4A---.016" /.0002011--- .04---15.84--- .32	.0016088	127	146	164	179	194	207	219
#5A---.017" /.0002270--- .05---19.80--- .40	.0018160	158	183	204	224	241	258	274
#6A---.020" /.0003142--- .06---23.76--- .48	.0025136	190	219	245	269	290	310	329
#7A---.0215"/.0003631---.07---27.72--- .56	.0029048	222	256	287	314	339	363	384
#8A---.0225"/.0003976---.08---31.68--- .64	.0031808	253	293	327	358	386	413	438
#9A---.024" /.0004524---.09---35.64--- .72	.0036192	285	329	368	403	435	465	494
#10A---.025" /.0004909---.10---39.60--- .80	.0039272	317	366	409	448	484	518	549
#12A---.028" /.0006158---.12---47.52--- .96	.0049264	380	439	491	538	580	621	658
#14A---.028" /.0006605---.14---55.44--- 1.12	.0052840	444	512	573	627	678	724	768
#16A---.032" /.0008042---.16---63.36--- 1.28	.0064336	507	585	655	717	774	828	878
#18A---.033" /.0008553---.17---71.28--- 1.44	.0068424	570	658	736	806	871	931	988
#20A---.035" /.0009621---.20---79.20--- 1.60	.0076968	634	732	818	896	968	1035	1097
---.037"/.0010750----.22---88.51---1.788	.0086000	708	817	914	1001	1081	1156	1226

----------**main jet diameters and square inch areas**----------

.070"/.0038485	.095"/.0070882	.120"/.011310	.145"/.016513
.075"/.0044170	.100"/.0078540	.125"/.012272	.150"/.017672
.080"/.0050265	.105"/.0086590	.130"/.013273	.155"/.018869
.085"/.0056745	.110"/.0095033	.135"/.014314	.160"/.020106
.090"/.0063617	.115"/.0103870	.140"/.015394	.165"/.0213825

------4 nozzles for 122ci Pinto @ Bonneville------

psi @ 30-------40-------50-------60------70------80------90------100

#4A
#5A
#6A
#7A
#8A---126.5---146.5---163.5---179-----193----206.5---219-----231
#9A---142.5---164.5---184-----201.5---217.5--232.5---247-----260
#10A
#12A
#14A---222-----256-----286.5---313.5----339---362-----384----405.3
#16A
#18A
#20A---317----366------409------448------484---517.5---548.5--578.8