

G&L Series Technical Data Section 10

BOILER - PUMP SELECTION

Boiler HP	Pump Flow *	Boiler PSI Pump PSI Pump TDH	15	22	35	50	75	90	100	125	150	175	200	250	300
			18	26	40	56	84	99	110	136	164	177	219	260	310
			42	60	92	130	193	229	253	315	379	410	505	600	716
Continuous	On/Off														
25	5.5	3.5	1SV .5HP 2 STAGE	1SV .5HP 3 STAGE	1SV .5HP 4 STAGE	1SV .5HP 5 STAGE	1SV .75HP 7 STAGE	1SV .75HP 8 STAGE	1SV 1HP 9 STAGE	1SV 1.5HP 11 STAGE	1SV 1.5HP 13 STAGE	1SV 1.5HP 15 STAGE	1SV 2HP 19 STAGE	1SV 3HP 22 STAGE	1SV 3HP 25 STAGE
50	8.3	6.9	1SV .5HP 2 STAGE	1SV .5HP 3 STAGE	1SV .5HP 4 STAGE	1SV .5HP 5 STAGE	1SV .75HP 8 STAGE	1SV .75HP 8 STAGE	1SV 1HP 10 STAGE	1SV 1.5HP 12 STAGE	1SV 1.5HP 15 STAGE	1SV 2HP 17 STAGE	1SV 2HP 19 STAGE	1SV 3HP 25 STAGE	1SV 3HP 27 STAGE
80	11.3	11	3SV .5HP 2 STAGE	3SV .5HP 3 STAGE	3SV .5HP 3 STAGE	3SV .75HP 4 STAGE	3SV 1HP 6 STAGE	3SV 1.5HP 7 STAGE	3SV 1.5HP 8 STAGE	3SV 2HP 10 STAGE	3SV 3HP 12 STAGE	3SV 3HP 13 STAGE	3SV 3HP 16 STAGE	3SV 3HP 19 STAGE	3SV 5HP 23 STAGE
100	13.4	13.8	3SV .5HP 2 STAGE	3SV .5HP 3 STAGE	3SV .5HP 3 STAGE	3SV 1HP 5 STAGE	3SV 1HP 6 STAGE	3SV 1.5HP 7 STAGE	3SV 1.5HP 8 STAGE	3SV 2HP 10 STAGE	3SV 3HP 12 STAGE	3SV 3HP 13 STAGE	3SV 3HP 16 STAGE	3SV 3HP 19 STAGE	3SV 5HP 23 STAGE
125	18.9	17.3	3SV .5HP 2 STAGE	3SV .5HP 3 STAGE	3SV .75HP 4 STAGE	3SV 1HP 5 STAGE	3SV 1.5HP 7 STAGE	3SV 2HP 9 STAGE	3SV 2HP 10 STAGE	3SV 3HP 12 STAGE	3SV 3HP 14 STAGE	3SV 3HP 16 STAGE	3SV 5HP 19 STAGE	3SV 5HP 23 STAGE	3SV 5HP 27 STAGE
150	21.6	20.7	5SV .75HP 2 STAGE	5SV .75HP 2 STAGE	5SV 1HP 4 STAGE	5SV 1.5HP 4 STAGE	5SV 2HP 6 STAGE	5SV 2HP 7 STAGE	5SV 3HP 8 STAGE	5SV 3HP 10 STAGE	5SV 5HP 12 STAGE	5SV 5HP 13 STAGE	5SV 5HP 16 STAGE	5SV 5HP 19 STAGE	5SV 7.5HP 23 STAGE
200	26.7	27.6	5SV .75HP 2 STAGE	5SV .75HP 2 STAGE	5SV 1.5HP 4 STAGE	5SV 1.5HP 4 STAGE	5SV 2HP 7 STAGE	5SV 3HP 8 STAGE	5SV 3HP 9 STAGE	5SV 5HP 11 STAGE	5SV 5HP 13 STAGE	5SV 5HP 14 STAGE	5SV 5HP 18 STAGE	5SV 7.5HP 21 STAGE	5SV 7.5HP 25 STAGE
250	37	34.5	10SV .75HP 1 STAGE	10SV 2HP 2 STAGE	10SV 2HP 2 STAGE	10SV 5HP 5 STAGE	10SV 3HP 3 STAGE	10SV 5HP 5 STAGE	10SV 5HP 5 STAGE	10SV 5HP 5 STAGE	10SV 7.5HP 8 STAGE	10SV 7.5HP 8 STAGE	10SV 10HP 10 STAGE	10SV 15HP 13 STAGE	10SV 15HP 15 STAGE
300	42.5	41.4	10SV .75HP 1 STAGE	10SV 2HP 2 STAGE	10SV 2HP 2 STAGE	10SV 3HP 3 STAGE	10SV 5HP 4 STAGE	10SV 3HP 5 STAGE	10SV 5HP 5 STAGE	10SV 7.5HP 7 STAGE	10SV 7.5HP 8 STAGE	10SV 7.5HP 9 STAGE	10SV 10HP 10 STAGE	10SV 15HP 13 STAGE	10SV 15HP 15 STAGE
350	47.6	48.3	10SV .75HP 1 STAGE	10SV 2HP 2 STAGE	10SV 2HP 2 STAGE	10SV 3HP 3 STAGE	10SV 5HP 4 STAGE	10SV 5HP 5 STAGE	10SV 5HP 6 STAGE	10SV 7.5HP 7 STAGE	10SV 7.5HP 8 STAGE	10SV 7.5HP 9 STAGE	10SV 10HP 11 STAGE	10SV 15HP 13 STAGE	10SV 15HP 15 STAGE
400	58.4	55.2	15SV 2HP 1 STAGE	10SV 2HP 2 STAGE	10SV 3HP 3 STAGE	10SV 3HP 3 STAGE	10SV 5HP 5 STAGE	10SV 5HP 6 STAGE	10SV 7.5HP 7 STAGE	10SV 7.5HP 8 STAGE	10SV 7.5HP 9 STAGE	10SV 10HP 10 STAGE	10SV 15HP 13 STAGE	10SV 15HP 15 STAGE	10SV 15HP 17 STAGE
500	68.8	69	15SV 2HP 1 STAGE	15SV 2HP 1 STAGE	15SV 5HP 2 STAGE	15SV 5HP 3 STAGE	15SV 5HP 3 STAGE	15SV 5HP 3 STAGE	15SV 7.5HP 4 STAGE	15SV 10HP 5 STAGE	15SV 10HP 6 STAGE	15SV 15HP 7 STAGE	15SV 15HP 8 STAGE	15SV 20HP 10 STAGE	15SV 20HP 11 STAGE
600	79.8	82.8	15SV 2HP 1 STAGE	15SV 2HP 1 STAGE	15SV 5HP 2 STAGE	15SV 5HP 2 STAGE	15SV 5HP 3 STAGE	15SV 7.5HP 4 STAGE	15SV 10HP 5 STAGE	15SV 10HP 6 STAGE	15SV 15HP 7 STAGE	15SV 15HP 7 STAGE	15SV 15HP 8 STAGE	15SV 20HP 10 STAGE	15SV 25HP 13 STAGE
750	106	95.5	22SV 3HP 1 STAGE	22SV 3HP 1 STAGE	22SV 5HP 2 STAGE	22SV 5HP 2 STAGE	22SV 7.5HP 3 STAGE	22SV 10HP 4 STAGE	22SV 10HP 4 STAGE	22SV 15HP 6 STAGE	22SV 15HP 7 STAGE	22SV 15HP 7 STAGE	22SV 20HP 9 STAGE	22SV 25HP 10 STAGE	22SV 30HP 12 STAGE
800	110.8	110.4	22SV 3HP 1 STAGE	22SV 3HP 1 STAGE	22SV 5HP 2 STAGE	22SV 5HP 2 STAGE	22SV 10HP 4 STAGE	22SV 10HP 4 STAGE	22SV 15HP 5 STAGE	22SV 15HP 6 STAGE	22SV 15HP 7 STAGE	22SV 20HP 8 STAGE	22SV 25HP 10 STAGE	22SV 25HP 10 STAGE	22SV 30HP 12 STAGE
900	121.2	124.2	22SV 3HP 1 STAGE	22SV 3HP 1 STAGE	22SV 5HP 2 STAGE	22SV 7.5HP 3 STAGE	22SV 10HP 4 STAGE	22SV 10HP 4 STAGE	22SV 15HP 5 STAGE	22SV 15HP 6 STAGE	22SV 15HP 7 STAGE	22SV 20HP 8 STAGE	22SV 25HP 10 STAGE	22SV 30HP 12 STAGE	33SV 40HP 7/1 STAGE
1000	131.5	138	33SV 5HP 1/1 STAGE	33SV 5HP 1/1 STAGE	33SV 5HP 1 STAGE	33SV 7.5HP 2/2 STAGE	33SV 7.5HP 2/2 STAGE	33SV 10HP 2 STAGE	33SV 15HP 3 STAGE	33SV 20HP 4 STAGE	33SV 20HP 4 STAGE	33SV 20HP 4 STAGE	33SV 25HP 5 STAGE	33SV 40HP 7/2 STAGE	33SV 40HP 8/2 STAGE

- Continuous feed boiler pump flow required calculated by multiplying boiler evaporation rate by 1.5 and adding by-pass flow required. On/off boiler pump flow calculated by multiplying boiler evaporation rate by 2.
- Suitable for working fluid temperatures up to 250°F.

NOTE:

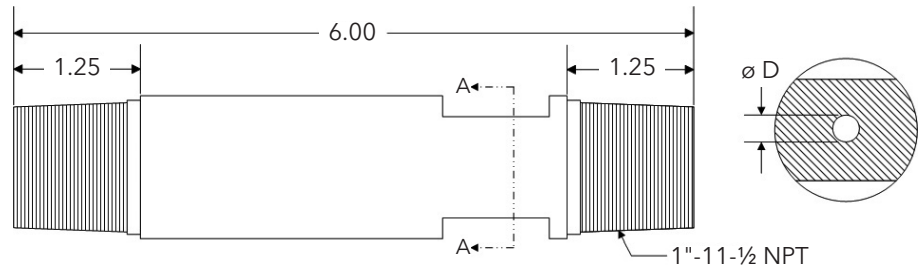
- A. Selections provide higher pump pressure than boiler pressure.
- B. Refer to pump performance curves to check NPSHR.
- C. Refer to orifice selection chart for proper required by-pass size. All continuous feed boiler pumps require a by-pass to maintain minimum flow.
- D. If boiler demand permits the pump to exceed pump maximum flows shown on the performance curve, a discharge flow valve should be used to prevent cavitation.

BY-PASS ORIFICE SIZE - SELECTION CHART - 3500 RPM

Minimum Flow GPM		2	3	7	9	18	21	35	40	70	100	100								
Stages	Pump Sizes																			
	1ST	2ST	3ST	4SH	5SH	7SH	9SH	10SH	1SV	3SV	5SV	10SV	15SV	22SV	33SV	46SV	66SV	92SV	125SV	
1	1/8"	3/16"	1/4"	3/8"	3/8"	3/8"	1/4"	3/8"												
2									3/16"	3/16"	5/16"	5/16"	3/8"	7/16"	7/16"	1/2"	5/8"	1 1/16"	1 1/16"	
3									3/16"	3/16"	1/4"	1/4"	3/8"	3/8"	7/16"	7/16"	9/16"	5/8"	5/8"	
4									3/16"	3/16"	1/4"	1/4"	5/16"	3/8"	3/8"	7/16"	1/2"	9/16"	5/8"	
5									1/8"	3/16"	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"	1/2"	9/16"	9/16"	
6									1/8"	3/16"	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"	1/2"			
7									1/8"	3/16"	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"				
8									1/8"	1/8"	3/16"	1/4"	5/16"	5/16"	3/8"	3/8"				
9									1/8"	1/8"	3/16"	3/16"	1/4"	5/16"	5/16"	3/8"				
10									1/8"	1/8"	3/16"	3/16"	1/4"	5/16"	5/16"					
11									1/8"	1/8"	3/16"	3/16"	1/4"	5/16"						
12									1/8"	1/8"	3/16"	3/16"	1/4"	1/4"						
13									1/8"	1/8"	3/16"	3/16"	1/4"							
14									1/8"	1/8"	3/16"	3/16"	1/4"							
15									1/8"	1/8"	3/16"	3/16"	1/4"							
16									1/8"	1/8"	3/16"	3/16"								
17									1/8"	1/8"	3/16"	3/16"								
18									1/8"	1/8"	3/16"	3/16"								
19									1/8"	1/8"	3/16"	3/16"								
20									1/8"	1/8"	3/16"	3/16"								
21									1/8"	1/8"	3/16"									
22									1/8"	1/8"	3/16"									
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25									1/8"	1/8"	3/16"									
26									1/8"	1/8"	3/16"									
27									1/8"	1/8"	3/16"									
28									1/8"	1/8"										
29									1/8"	1/8"										
30									1/8"	1/8"										

- Optional by-pass orifice fittings are now available for use where pumps are in danger of operating dead head. A typical application might be boiler feed. The material is 316 stainless steel, and the ends are 1" NPT under the parts category. A selection chart is given in the recently updated eSV product training manual.
- Suitable for working fluid temperatures up to 250°F.

Size (ØD)	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	1 1/16	3/4
Part No.	6K126	6K127	6K128	6K129	6K130	6K131	6K132	6K133	6K134	6K135	6K136



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