Pumps & Systems

SOG

Vertical Pipeline Pumps
(API 610 OH 3)



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

Add: No.18 Xidian, Qian mu cheng yi, Ying cheng zi Street,Ganjingzi District, Dalian, China 116036

TEL: +86-411-66853898
FAX: +86-411-86715305

●Instruction

The SOG series is single stage, single suction, radi ally split, vertical centrifugal pipeline pump, which is designed in accordance with standard of API610 and AP1682.

●Features

The SOG series pump and motor share the shaft with a low height , and well stability . The bearing bracket between pump and mo tor of the SOG series can be used under high temperature and importance applications. Compared to horizontal pump with the same performance, vertical inline pump covers small area, easily connecting, saving the cost.

Impeller, pump casing and cover with interchangeable sea ling ring, shaftseal with sleeve, easy to maintain, save spare parts cost.

The pump casing with large than 80mm-diameter (including 80mm) isdesigned double volute which can balance the radial force and reduce the vibration, and stable operating.

Pump cover has the function of cooling and heat preservation Which canbe used for pumping mediums with special requirements, pump cover with vent plug, to vent the air in pipe line or pumps before operation. Suitable dimension of sealing housing, use packing or various of mechanical seal, good interc hangea bility, low cost of size deviation, equipped with cooling, flushing sealing liquid system.

The connection and the standard of suction and discharge flange can be varied with customer's requirements in rated pressure level and dimension.

The pump rotation direction is CW viewing from the driven end.

Performance Data		
Flow Range:	Q	up to 600m3/h
Head Range:	H	up to 120m
Operating Pressure:	P	up to 50 Bar
Liquid Temperature:	T	up to 250℃

E.G. SOG 150-250

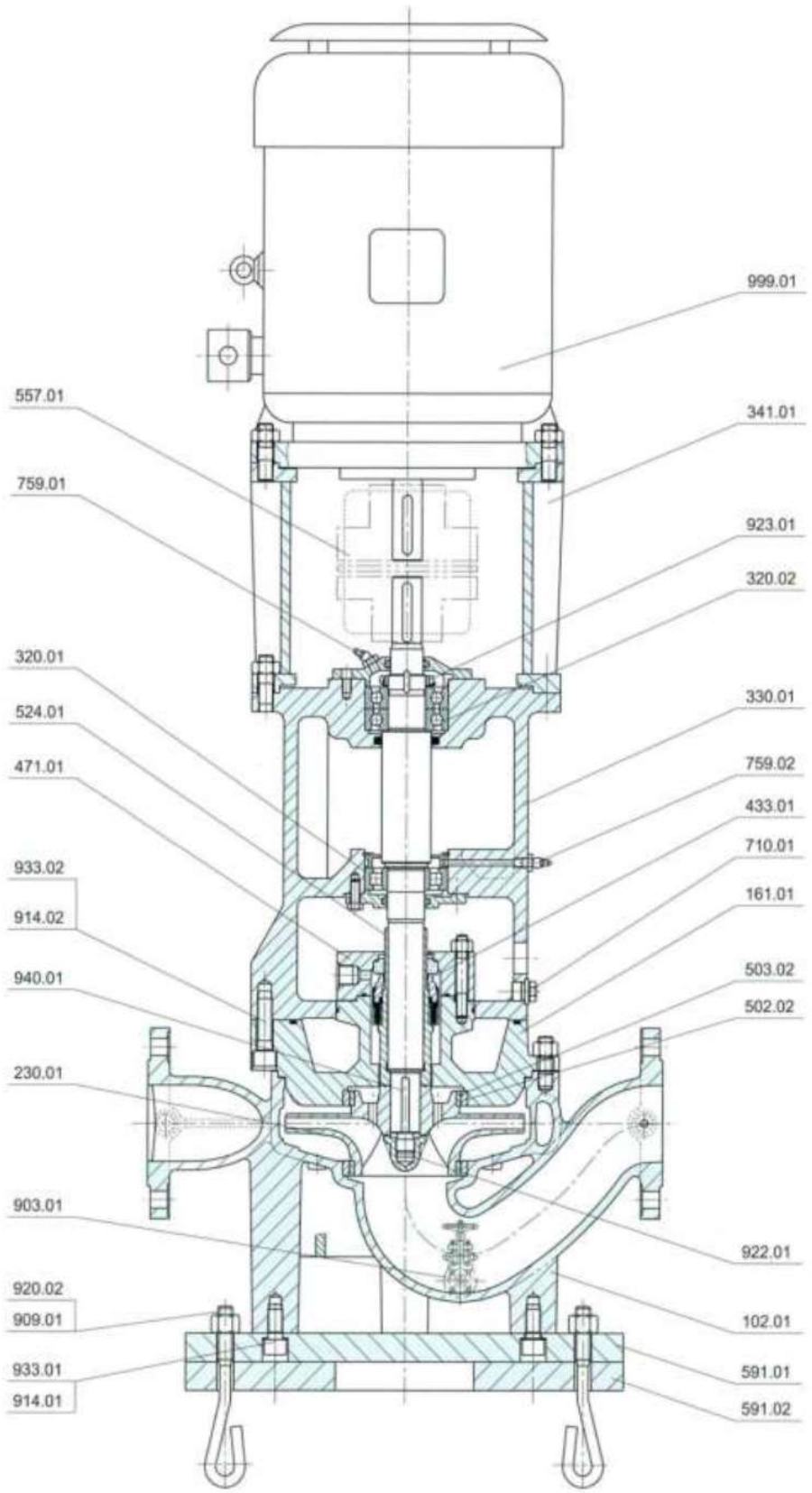
SOG — Vertical Pipeline Pumps
150 — Flange diameter in inlet and outlet
250 — Impeller nominal diameter

Applications

@ Petrochemical
@ General industrial process
@ Pipeline pressurization
@ Refinery
@ Water supply and treatmen t
@ Marine pump

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Sectional Drawing - SOG

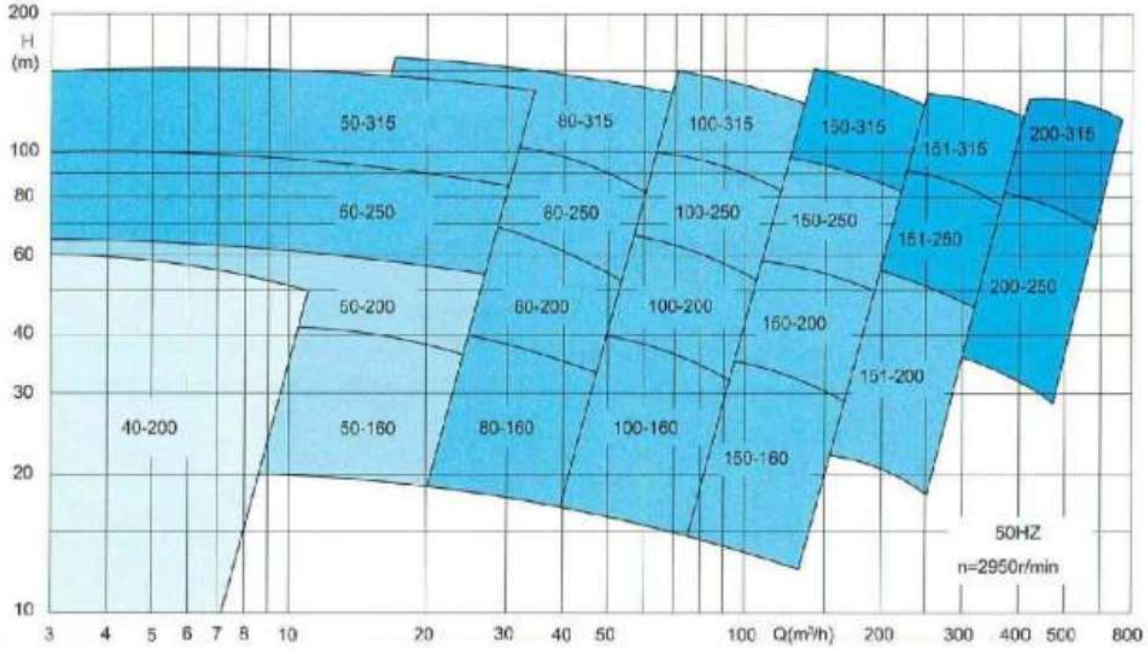


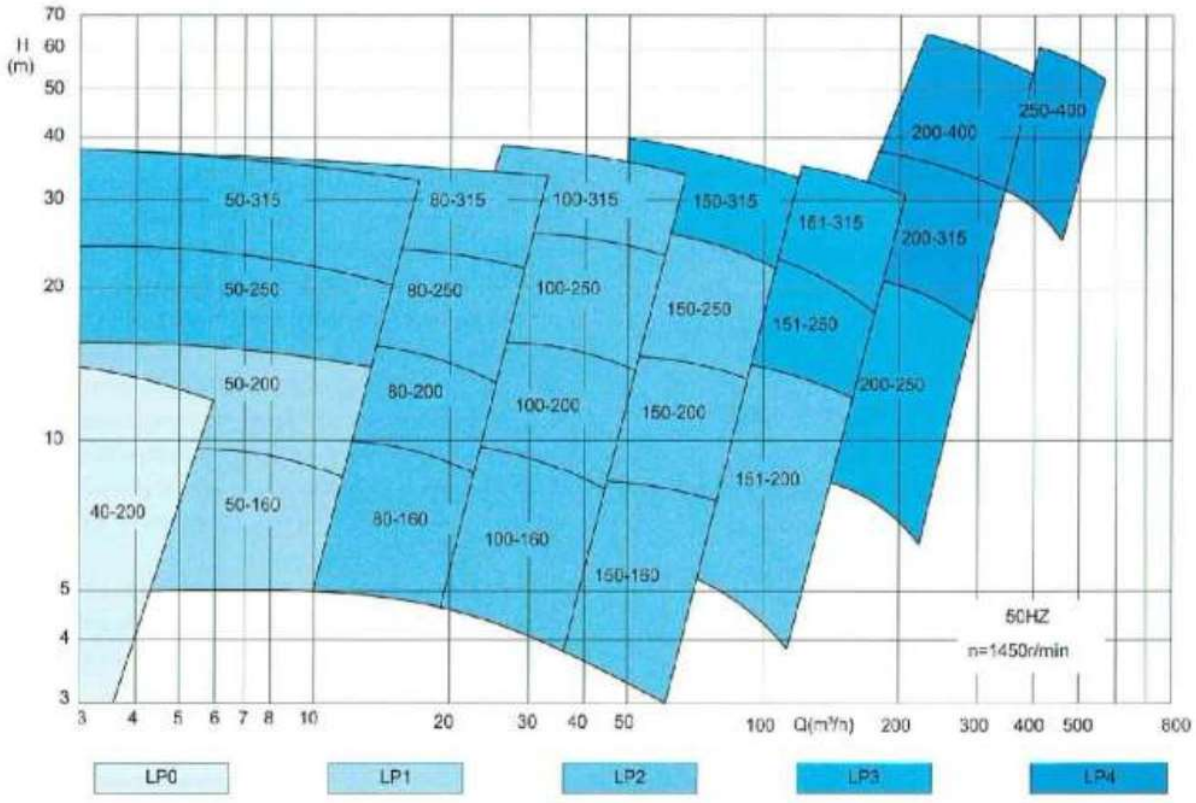
102.01	Pump Casing
161.01	Pump Cover
230.01	Impeller
320.01	Roller Bearing
320.02	Ball Bearing
330.01	Bearing Bracket
341.01	Motor Frame
433.01	Mechaincal Seal
502.02	Casing Wear Ring
503.02	Impeller Wear Ring
524.01	Sleeve Shaft
557.01	Coupling
591.01	Baseplate
591.02	Installation Plate
710.01	Ventilation Plug
759.01	Oil Fumarole
759.02	Oil Fumarole
903.01	Valve
909.01	Nut
914.01	Socket Head Cap Screw
914.02	Socket Head Cap Screw
920.02	Ground Bolt
922.01	Impeller Nut
923.01	Self-lock Nut
933.01	Washer
933.02	Washer
940.01	Key
999.01	Motor

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Range of Performance





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Range of Performance

型号 Type	叶轮代号 SY.	额定转速(speed) n=2950r/min 流量 Q m³/h	扬程 H m	轴承架 Bearing Bracket LP	比重Proportion γ 1.0 电机功率(kW)及型号 Power and Type kW		比重Proportion γ 1.35 kW		比重Proportion γ 1.84 kW	
40-200	A	11	49	0-200	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	B	10	42		4	112M-2	5.5	132S1-2	7.5	132S2-2
	C	9	36		3	100L-2	4	112M-2	5.5	132S1-2
	D	7.5	28		2.2	90L-2	3	100L-2	4	112M-2
50-160	A	28	33	1-160	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	B	25	29							
	C	22	22		4	112M-2	5.5	132S1-2	5.5	132S1-2
	D	20	16		2.2	90L-2	3	100L-2	4	112M-2
50-200	A	29	53	1-200	11	160M1-2	15	160M2-2	18.5	160L-2
	B	26	47		7.5	132S2-2	11	160M1-2	15	160M2-2
	C	22	39		5.5	132S1-2	7.5	132S2-2	11	160M1-2
	D	18	20		4	112M-2	5.5	132S1-2	7.5	132S2-2
50-250	A	32	78	2-250	18.5	160L-2	22	180M-2	30	200L1-2
	B	30	72		15	160M2-2	18.5	160L-2		
	C	24	60		11	160M1-2	15	160M2-2	18.5	160L-2
	D	21	47		7.5	132S2-2	11	160M1-2	15	160M2-2
50-315	A	42	115	2-315	37	200L2-2	45	225M-2	75	280S-2
	B	40	107		30	200L1-2			55	250M-2
	C	34	81		22	180M-2	30	200L1-2	45	225M-2
	D	29	61		15	160M2-2	22	180M-2	30	200L1-2
80-160	A	50	34	2-160	11	160M1-2	15	160M2-2	15	160M2-2
	B	45	29		7.5	132S2-2	11	160M1-2		
	C	38	22		5.5	132S1-2	7.5	132S2-2	11	160M1-2
	D	31	17		3	100L-2	4	112M-2	5.5	132S1-2
80-200	A	62	52	2-200	18.5	160L-2	22	180M-2	30	200L1-2
	B	56	46		15	160M2-2	18.5	160L-2	22	180M-2
	C	49	37		11	160M1-2	15	160M2-2	18.5	160L-2
	D	43	28		7.5	132S2-2	11	160M1-2	15	160M2-2
80-250	A	70	82	2-250	30	200L1-2	37	200L2-2	55	250M-2
	B	66	75						45	225M-2
	C	60	60		22	180M-2	30	200L1-2	37	200L2-2
	D	50	45		15	160M2-2	18.5	160L-2	22	180M-2
80-315	A	87	115	2-315	55	250M-2	75	280S-2		
	B	80	100		45	225M-2			90	280M-2
	C	70	78		30	200L1-2	45	225M-2	55	250M-2
	D	57	57		22	180M-2	30	200L1-2	37	200L2-2
100-160	A	94	32	2-160	15	160M2-2	18.5	160L-2	30	200L1-2
	B	85	28		11	160M1-2	15	160M2-2	18.5	160L-2
	C	76	23				11	160M1-2	15	160M2-2
	D	66	17		5.5	132S1-2	7.5	132S2-2	11	160M1-2
100-200	A	103	54	2-200	30	200L1-2	37	200L2-2		
	B	95	48		22	180M-2	30	200L1-2	37	200L2-2
	C	84	38		15	160M2-2	22	180M-2	30	200L1-2
	D	70	30		11	160M1-2	15	160M2-2	22	180M-2
100-250	A	127	82	2-250	45	225M-2	75	280S-2	90	280M-2
	B	120	76				55	250M-2	75	280S-2
	C	105	59		30	200L1-2	45	225M-2	55	250M-2
	D	87	45		22	180M-2	30	200L1-2	37	200L2-2

型号 Type	叶轮代号 SY.	额定转速(speed) n=1450r/min 流量 Q m³/h	扬程 H m	轴承架 Bearing Bracket LP	比重Proportion γ 1.0 电机功率(kW)及型号 Power and Type kW		比重Proportion γ 1.35 kW		比重Proportion γ 1.84 kW	
40-200	A	5.8	12	0-200	1.1	90S-4	1.1	90S-4	1.5	90L-4
	B	5.4	11						1.1	90S-4
	C	4.6	8.5							
	D	4	6.5							
50-160	A	14	8	1-160	1.1	90S-4	1.1	90S-4	1.5	90L-4
	B	13	7						1.1	90S-4
	C	11	5.5							
	D	9.5	4.5							
50-200	A	14.5	13	1-200	1.5	90L-4	2.2	100L1-4	3	100L2-4
	B	13	11.5		1.1	90S-4	1.5	90L-4	2.2	100L1-4
	C	11.5	9				1.1	90S-4	1.5	90L-4
	D	9.5	7						1.1	90S-4
50-250	A	16	19.5	2-250	3	100L2-4	4	112M-4	5.5	132S-4
	B	15	18		2.2	100L1-4	3	100L2-4	4	112M-4
	C	12.5	14		2.2	100L1-4	2.2	100L1-4	3	100L2-4
	D	10.5	11		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
50-315	A	21	29	2-315	5.5	132S-4	7.5	132M-4	11	160M-4
	B	20	26.5							
	C	17.5	20		4	112M-4	5.5	132S-4	7.5	132M-4
	D	15	15		3	100L2-4	3	100L2-4	5.5	132S-4
80-160	A	25	8.4	2-160	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	B	22.5	7				2.2	100L1-4		
	C	19	5.5		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	D	16.5	4						2.2	100L1-4
80-200	A	31	13	2-200	3	100L2-4	3	100L2-4	4	112M-4
	B	28.5	11.5		2.2	100L1-4				
	C	25	9		2.2	100L1-4	2.2	100L1-4	3	100L2-4
	D	22	7		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
80-250	A	35	20	2-250	4	112M-4	5.5	132S-4	7.5	132M-4
	B	33	18.5							
	C	30	15		3	100L2-4	4	112M-4	5.5	132S-4
	D	26	11		2.2	100L1-4	3	100L2-4	3	100L2-4
80-315	A	44	28	2-315	11	160M-4	11	160M-4	15	160L-4
	B	40	24		7.5	132M-4				
	C	35	19		5.5	132S-4	7.5	132M-4	11	160M-4
	D	30	14		3	100L2-4	4	112M-4	5.5	132S-4
100-160	A	47	8	2-160	2.2	100L1-4	3	100L2-4	4	112M-4
	B	42	7				2.2	100L1-4	3	100L2-4
	C	38	5.5		2.2	100L1-4			2.2	100L1-4
	D	34	4		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
100-200	A	51	13.5	2-200	4	112M-4	5.5	132S-4	7.5	132M-4
	B	47	12		3	100L2-4	4	112M-4	5.5	132S-4
	C	41	9.5		2.2	100L1-4	3	100L2-4	4	112M-4
	D	36	7.5		2.2	100L1-4	2.2	100L1-4	3	100L2-4
100-250	A	64	20	2-250	7.5	132M-4	11	160M-4	15	160L-4
	B	60	19				7.5	132M-4	11	160M-4
	C	52	14.5		4	112M-4	5.5	132S-4	7.5	132M-4
	D	46	11		3	100L2-4	4	112M-4	5.5	132S-4

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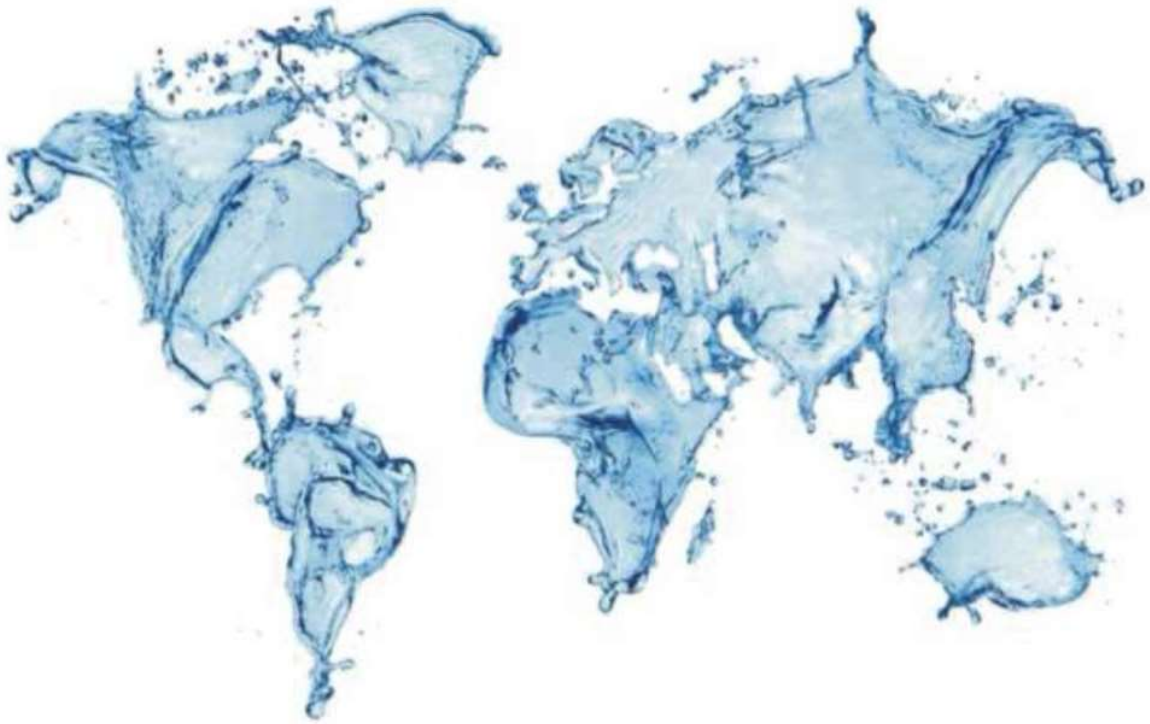
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Range of Performance

型号 Type	叶轮代号 SY.	额定转速(speed) n=2950r/min										额定转速(speed) n=1450r/min									
		流量 Q m^3/h	扬程 H m	轴承架 Bearing Bracket LP	比重Proportion γ 1.0 电机功率(kW)及型号 Power and Type		比重Proportion γ 1.35 电机功率(kW)及型号 Power and Type		比重Proportion γ 1.84 电机功率(kW)及型号 Power and Type			流量 Q m^3/h	扬程 H m	轴承架 Bearing Bracket LP	比重Proportion γ 1.0 电机功率(kW)及型号 Power and Type		比重Proportion γ 1.35 电机功率(kW)及型号 Power and Type		比重Proportion γ 1.84 电机功率(kW)及型号 Power and Type	
					kW		kW		kW						kW		kW		kW		
100-315	A	141	127	2-315	90	280M-2						70	33	2-315	15	160L-4	18.5	180M-4	22	180L-4	
	B	135	121		75	280S-2						66	30		11	160M-4	15	160L-4			
	C	115	97		55	250M-2	75	280S-2				56	24				11	160M-4	15	160L-4	
	D	90	74		37	200L2-2	45	225M-2	75	280S-2		45	18		5.5	132S-4	7.5	132M-4	11	160M-4	
150-160	A	162	29	2-160	22	180M-2	30	200L1-2	37	200L2-2		81	7.2	2-160	3	100L2-4	4	112M-4	5.5	132S-4	
	B	150	24		15	160M2-2	22	180M-2	30	200L1-2		73	6		2.2	100L1-4	3	100L2-4	4	112M-4	
	C	130	17		11	160M1-2	15	160M2-2	18.5	160L-2		63	4.3		2.2	100L1-4	2.2	100L1-4	3	100L2-4	
	D	110	12		7.5	132S2-2	11	160M1-2	15	160M2-2		55	3		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	
150-200	A	193	50	2-200	45	225M-2	55	250M-2	75	280S-2		95	12.5	2-200	5.5	132S-4	7.5	132M-4	11	160M-4	
	B	180	44		37	200L2-2	45	225M-2				90	10.5								
	C	155	35		30	200L1-2	37	200L2-2	45	225M-2		80	8.5		4	112M-4	5.5	132S-4	7.5	132M-4	
	D	135	26		18.5	160L-2	30	200L1-2	37	200L2-2		70	6		3	100L2-4	3	100L2-4	4	112M-4	
150-250	A	230	79	2-250	75	280S-2	90	280M-2				115	20	2-250	11	160M-4	15	160L-4	18.5	180M-4	
	B	218	73									110	18				11	160M-4	15	160L-4	
	C	190	58		45	225M-2	75	280S-2	90	280M-2		100	14		7.5	132M-4			11	160M-4	
	D	170	44		37	200L2-2	45	225M-2	75	280S-2		90	10		5.5	132S-4	7.5	132M-4	7.5	132M-4	
150-315	A	250	126	3-315	132	315M1-2						125	31	3-315	18.5	180M-4	30	200L-4	37	225S-4	
	B	240	120			280M-2	160	315M2-2				119	29				22	180L-4	30	200L-4	
	C	203	97		90	280S-2	132	315M1-2	160	315M2-2		104	24		15	160L-4	18.5	180M-4	22	180L-4	
	D	170	71		75	250M-2	75	280S-2	110	315S-2		86	17.5		11	160M-4	11	160M-4	15	160L-4	
151-200	A	320	44	2-200	55	225M-2	75	280S-2				160	11	2-200	7.5	132M-4	11	160M-4	15	160L-4	
	B	300	39		45				90	280M-2		152	9.5								
	C	265	30		37	200L2-2	45	225M-2	75	280S-2		140	7		5.5	132S-4	7.5	132M-4	11	160M-4	
	D	220	23		22	180M-2	30	200L1-2	45	225M-2		123	5		3	100L2-4	4	112M-4	5.5	132S-4	
151-250	A	390	74	3-250	110	315S-2	160	315M2-2				195	18.5	3-250	15	160L-4	22	180L-4	30	200L-4	
	B	355	62		90	280M-2	110	315S-2	160	315M2-2		180	16				18.5	180M-4	22	180L-4	
	C	325	46		75	280S-2	90	280M-2	110	315S-2		160	11.5		11	160M-4	11	160M-4	15	160L-4	
	D																				
151-315	A	442	125	3-315								220	32.5	3-315	30	200L-4	45	225M-4	55	250M-4	
	B	430	120									210	30				37	225S-4			
	C	372	94		160	315M2-2						180	24		22	180L-4	30	200L-4	37	225S-4	
	D	310	68		90	280M-2	132	315M1-2	160	315M2-2		150	17		15	160L-4	18.5	180M-4	22	180L-4	
200-250	A	610	72	3-250	160	315M2-2						305	17.5	3-250	22	180L-4	30	200L-4	45	225M-4	
	B	580	65									290	16		18.5	180M-4			37	225S-4	
	C	520	47		110	315S-2	132	315M1-2				260	12		15	160L-4	18.5	180M-4	30	200L-4	
	D	470	32		75	280S-2	90	280M-2	110	315S-2		240	8		11	160M-4	15	160L-4	15	160L-4	
200-315	A	710	122	4-315								350	30	4-315	45	225M-4	55	250M-4	75	280S-4	
	B	680	114									340	29		37	225S-4					
	C	600	87									300	22		30	200L-4	37	225S-4	55	250M-4	
	D	480	65		132	315M1-2						250	15		18.5	180M-4	22	180L-4	30	200L-4	
200-400	A											420	50	4-400	90	280M-4	110	315S-4	160	315M2-4	
	B											400	47		75	280S-4	110	315S-4	132	315M1-4	
	C											360	36		55	250M-4	75	280S-4	110	315S-4	
	D											320	27		45	225M-4	55	250M-4	75	280S-4	
	E																				
250-400	A											700	48	4-400	132	315M1-4					
	B											660	44		132	315M1-4	160	315M2-4			
	C											600	35		90	280M-4	132	315M1-4			
	D											500	25		75	280S-4	90	280M-4	110	315S-4	

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