AEROFLOW

RSL And RSS-Series Roots Blowe

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ISO9001: 2008

COMPANY'S PROFILE

Hey-Wel Machinery Co., Ltd was found in 1988, which is the first professional manufacturer specializing in 3-lobe roots blower. It's unique owner is Taiwan Hey-Wel Group, with the business concept of "honesty and authentication、study and practical、continuous development" and the enterprise culture: "Put full effort on every single detail even though it is a small simple thing.", and established persistence for products and satisfactory from their customers.

From the beginning of company to nowadays, except that we manufactured 3-lobe roots blower, we still have researched and developed EV series high rotation speed 3-lobe roots blower and 2-lobe roots vacuum pump、submergible roots blower and ring blowers successfully supported by Taiwan hey-wel group. Our products are mainly used for environment protection、power、chemical engineering、foodstuff、aqua, especially used for vacuum system. Currently we have sold our products in 20 more countries all over the world. We will keep improving in the filed of roots blower in the future, and set higher products quality goal with the development of times. We have been providing our customers with the most excellent performance- price ratio. We will do our best to be one of the very famous and professional manufacturers for roots blowers and vacuum pumps all over the world.

The Certificate For Our Company

Brief introduction:

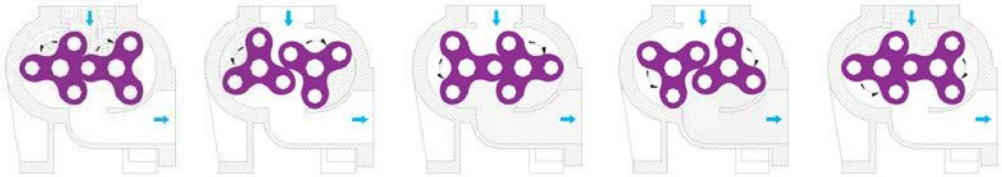
RSL series are standard 3-lobe roots blower from Hey-Wel, which have compact structure and reliable running and long life. The inlet size are from 2"to 12". With the continuous development of products, we have developed out new type of RSS series at high pressure. It can run under the pressure of 80Kpa without cooling water and the maximum capacity can be up to 160 m^3/min.

In order to make our blowers can run between 80Kpa and 100Kpa. We tried our best to research out RSW water-cooling series. And the maximum pressure of two-stage blower can be up to 200Kpa.

Features:

- Adopt high-grade computer-control balance adjustment (G2.5), reduce the vibration and noise.
- Machine impeller by 6 coordinates NC shape to improve higher accuracy.
- Gears have special treatments, and manufactured according to JIS1 gears accuracy. It can increase the life and decrease the noise.
- There are all lubricant on both end oil tanks, the seal design can not only protect lubricant from pollution and reduce obstacles, but also promise that the gas flow will not be contaminated.
- It can add piston ring and get higher efficiency and longer life.

Operating principle:



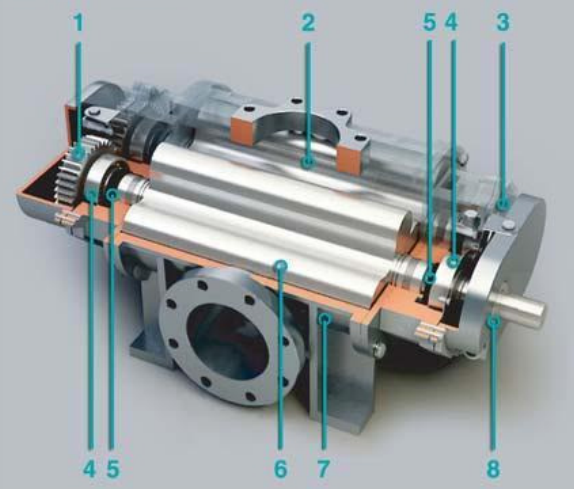
- Blower Working Principle

Roots blower is a cubage blower, discharge airflow scale to the blower's speed. Every rotation, there is two lobes to finish three times absorbing and discharging air, compared with two lobes blower, the air is more smooth, smaller load change; higher strength; lower noise and vibration.

Two parallel shafts have three lobes each, all the lobes keep small clearance with each and housing inside. Every lobes rotation, a certain air will be absorbed at inlet and transferred from the housing inside surface to blower's discharge port.

Two shafts will be turned by the timing gears, no any touching between lobes, so it can be turned at high speed without any lubrication inside. It has the following characteristics: simply configuration; running smoothly; good performance stabilization. It has been applied for many fields.

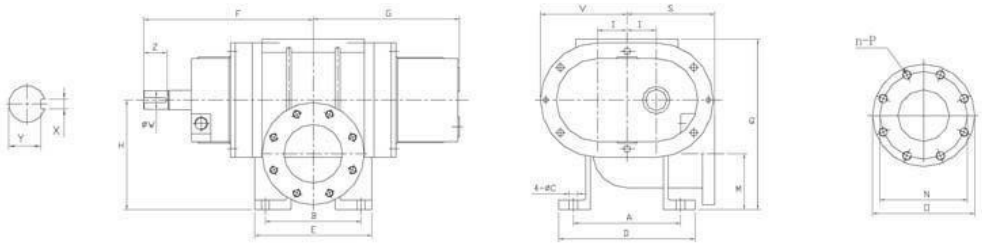
Main Body: RSL



Part	Part description	n.of parts
1	gear	2
2	driven rotor	1
3	oil thrower	1
4	bearing	4
5	v-ring	4
6	drive rotor	1
7	body	1
8	oil seal	1

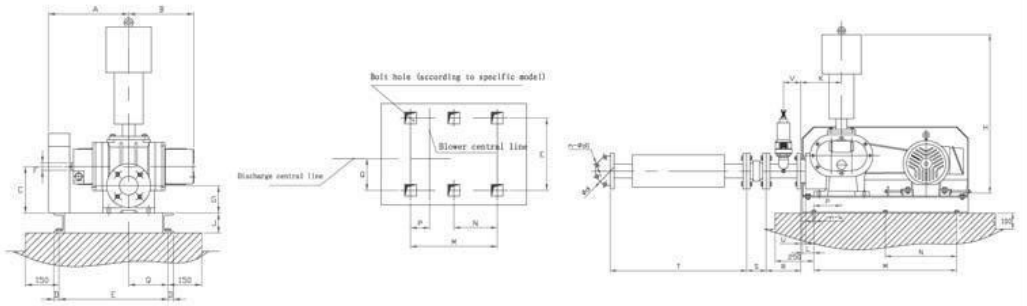
Complete Body: RSL

Part	Part description	n.of parts
1	flexible joint	1
2	outlet silencer	1
3	safety value	1
4	hood	1
5	inlet silencer	1
6	motor	1
7	elbow	1
8	T-joint	1
9	blower	1
10	bottom case	1



Model	A	B	C	D	E	F	G	H	I	Q	S	V	W	X	Y	Z	M	N	O	n-ØP
RSL-50	196	80	14	240	110	218	205	175	45	285	140	136	28	$8^{0}_{-0.036}$	$24^{0}_{-0.2}$	42	104	120	150*150	4-M16
RSL-65	196	150	14	240	190	258	245	200	45	300	140	136	28	$8^{0}_{-0.036}$	$24^{0}_{-0.2}$	42	112	140	175	4-M16
RSL-80	196	196	18	240	250	288	275	200	45	300	160	136	28	$8^{0}_{-0.036}$	$24^{0}_{-0.2}$	42	110	150	185	8-M16
RSL-100	220	196	18	280	240	348	300	225	60	350	180	178	38	$10^{0}_{-0.036}$	$33^{0}_{-0.2}$	48	115	180	210	8-M16
RSL-125	232	282	18	290	330	398	350	250	60	380	180	178	38	$10^{0}_{-0.036}$	$33^{0}_{-0.2}$	48	145	210	256	8-M16
RSL-150	354	318	18	400	370	480	430	290	80	450	250	232	48	$14^{0}_{-0.036}$	$42.5^{0}_{-0.2}$	48	164	240	280	8-M16
RSL-200	425	240	22	480	320	475	440	350	100	560	290	305	60	$18^{0}_{-0.043}$	$53^{0}_{-0.2}$	75	185	290	330	12-M20
RSL-250	550	360	22	616	440	545	551	460	120	685	345	335	65	$18^{0}_{-0.043}$	$58^{0}_{-0.2}$	75	214	355	440	12-M20
RSL-300	540	680	22	620	770	758	726	435	120	675	360	335	70	$20^{0}_{-0.043}$	$62.5^{0}_{-0.2}$	75	255	400	445	16-M20

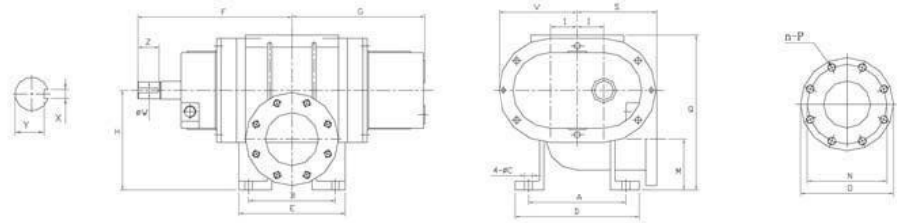
Unit: mm



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	ød	n-ød1	n-ØP
RSL-50	240	175	175	20	410	28	104	735	80	160	50	620		119	148	150	105	592	20	75	125	4-Ø18	4-M12X16
RSL-65	302	200	200	20	410	28	112	750	80	164	50	620		117	138	150	115	596	24	75	145	4-Ø18	4-M12X16
RSL-80	315	200	200	20	510	28	110	820	80	184	100	670		112	160	180	135	796	24	90	160	4-Ø18	4-M12X16
RSL-100	410	225	225	20	560	38	115	930	100	204	100	760		90	233	180	150	796	24	90	180	4-Ø18	4-M16X22
RSL-125	470	250	250	22	556	38	145	980	120	205	100	900		138	278	250	165	1260	25	125	210	4-Ø18	4-M16X22
RSL-150	500	290	290	22	556	48	164	1050	120	276	100	900		138	212	250	180	1264	26	125	240	4-Ø22	4-M16X22
RSL-200	510	350	350	30	940	60	185	1200	160	318	100	1300	650	310	580	250	190	1644	28	125	295	4-Ø22	6-M20X30
RSL-250	590	460	460	30	940	65	214	1325	160	373	140	1400	700	270	490	250	230	1748	28	125	350	12-Ø22	6-M20X30
RSL-300	760	435	435	30	940	70	255	1355	160	390	250	1500	750	248	470	300	250	1848	30	150	400	12-Ø22	6-M20X30

Unit: mm

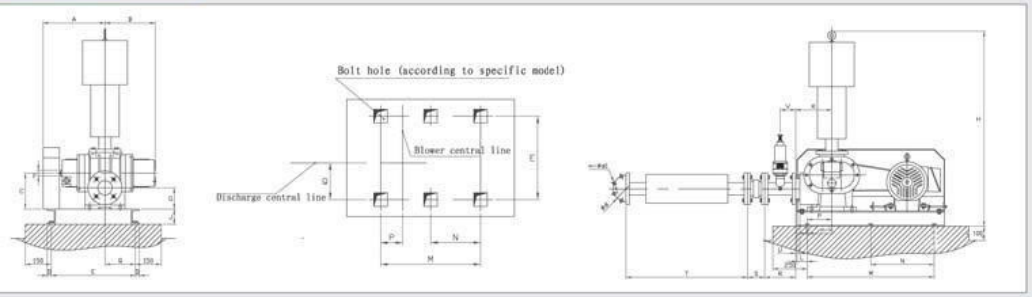
Main body: RSS



Model	A	B	C	D	E	F	G	H	I	Q	S	V	W	X	Y	Z	M	N	O	n-ØP
RSS-40	196	80	14	240	110	218	205	175	45	285	140	136	28	8 $^{0}_{-0.036}$	24 $^{0}_{-0.2}$	42	104	120	150*150	4-M16
RSS-50	196	150	14	240	195	258	245	175	45	276	157	136	28	8 $^{0}_{-0.036}$	24 $^{0}_{-0.2}$	42	104	120	165	4-M16
RSS-65	196	195	14	246	256	288	275	175	45	276	152	136	28	8 $^{0}_{-0.036}$	24 $^{0}_{-0.2}$	42	104	140	175	4-M16
RSS-80	196	196	16	240	240	348	300	212	60	341	180	178	38	10 $^{0}_{-0.036}$	33 $^{0}_{-0.2}$	48	106	150	185	8-M16
RSS-100	232	282	16	290	330	398	350	212	60	341	180	178	38	10 $^{0}_{-0.036}$	33 $^{0}_{-0.2}$	48	106	175	210	8-M16
RSS-125A	346	210	18	400	250	377	371	258	80	430	250	232	48	14 $^{0}_{-0.036}$	42.5 $^{0}_{-0.2}$	48	135	210	256	8-M16
RSS-125	355	310	18	400	374	437	431	258	80	425	262	232	48	14 $^{0}_{-0.036}$	42.5 $^{0}_{-0.2}$	48	158	210	256	8-M16
RSS-150	354	428	18	400	480	492	486	290	80	450	250	232	48	14 $^{0}_{-0.036}$	42.5 $^{0}_{-0.2}$	75	164	290	330	12-M20
RSS-200A	555	239	22	640	330	465	497	355	120	605	357	335	65	18 $^{0}_{-0.043}$	58 $^{0}_{-0.2}$	75	198	290	330	12-M20
RSS-200	550	360	22	616	440	545	547	440	120	670	345	335	65	18 $^{0}_{-0.043}$	58 $^{0}_{-0.2}$	75	194	290	330	12-M20
RSS-250	550	520	22	620	570	620	622	435	120	675	356	335	65	18 $^{0}_{-0.043}$	58 $^{0}_{-0.2}$	75	216	355	400	12-M20
RSS-300A	540	680	22	620	770	758	722	435	120	675	356	335	70	20 $^{0}_{-0.043}$	62.5 $^{0}_{-0.2}$	75	255	400	445	16-M20
RSS-300	780	510	34	850	570	730	685	550	180	1010	560	500	90	25 $^{0}_{-0.043}$	86 $^{0}_{-0.2}$	90	300	400	445	16-M20

Unit: mm

Complete: RSS



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	ØD	n-Ød1	n-k
RSS-40	240	238	180	20	350	28	104	780	46	184	50	500		98	88	150	95	592	20	75	110	4-Ø18	4-M12X160
RSS-50	302	278	175	20	410	28	103.5	946	80	178	50	620		119	148	150	105	592	20	75	125	4-Ø18	4-M12X160
RSS-65	313	308	175	20	410	28	104	946	80	176	50	620		117	138	150	115	596	24	75	145	4-Ø18	4-M12X160
RSS-80	406	320	213	20	510	38	106.5	1283	80	204	100	670		112	160	180	135	796	24	90	160	4-Ø18	4-M12X160
RSS-100	467	320	225	20	560	38	114.5	1324	100	210	100	760		90	233	180	150	796	24	90	180	4-Ø18	4-M16X220
RSS-125A	440	395	265	22	556	48	134.5	1988	120	275	100	900		133	338	250	165	1260	25	125	210	4-Ø18	4-M16X220
RSS-125	500	455	265	22	556	48	157.5	1980	120	275	100	900		138	278	250	165	1260	25	125	210	4-Ø18	4-M16X220
RSS-150	566	510	295	22	556	48	163	1941	120	276	100	900		138	212	250	180	1264	26	125	240	4-Ø22	4-M16X220
RSS-200	590	547	405	30	940	65	194	2417	160	373	100	1300	650	310	580	250	190	1644	28	125	295	4-Ø22	6-M20X300
RSS-200A	540	497	355	30	940	65	198	2317	160	385	100	1300	650	313	604	250	190	1644	28	125	295	4-Ø22	6-M20X300
RSS-250	680	622	435	30	940	65	216	2587	160	384	140	1400	700	270	490	250	230	1748	28	125	350	12-Ø22	6-M20X300
RSS-300A	760	717	430	30	940	70	225	2744	160	560	250	1500	750	248	470	300	250	1848	30	150	400	12-Ø22	6-M20X300
RSS-300	758	685	550	35	1035	95	300	3084	250	560	235	2000	1000	385	515	300	250	1848	30	150	400	12-Ø22	6-M20X300

Unit: mm

Performance Table: RSL

Model	Rpm	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
50	1200	1.57	0.33	1.39	0.66	1.22	1.00	1.04	1.33	0.92	1.66	0.82	1.99
	1300	1.72	0.36	1.55	0.72	1.37	1.08	1.20	1.44	1.08	1.80	0.98	2.16
	1400	1.88	0.39	1.70	0.77	1.53	1.16	1.35	1.55	1.24	1.93	1.13	2.32
	1500	2.03	0.41	1.86	0.83	1.69	1.24	1.51	1.66	1.39	2.07	1.29	2.49
	1600	2.19	0.44	2.01	0.88	1.84	1.33	1.67	1.77	1.55	2.21	1.44	2.65
	1700	2.34	0.47	2.17	0.94	2.00	1.41	1.82	1.88	1.70	2.35	1.60	2.82
	1800	2.50	0.50	2.32	1.00	2.15	1.49	1.98	1.99	1.86	2.49	1.76	2.99
	1900	2.66	0.53	2.48	1.05	2.31	1.58	2.13	2.10	2.01	2.63	1.91	3.15
	2000	2.81	0.55	2.64	1.11	2.46	1.66	2.29	2.21	2.17	2.76	2.07	3.32
	2100	2.97	0.58	2.79	1.16	2.62	1.74	2.44	2.32	2.33	2.90	2.22	3.48
	2200	3.12	0.61	2.95	1.22	2.78	1.82	2.60	2.43	2.48	3.04	2.38	3.65
	2300	3.28	0.64	3.10	1.27	2.93	1.91	2.76	2.54	2.64	3.18	2.53	3.81
	2400	3.43	0.66	3.26	1.33	3.09	1.99	2.91	2.65	2.79	3.32	2.69	3.98
65	900	1.76	0.41	1.42	0.83	1.09	1.24	0.86	1.66	0.70	2.07	0.60	2.49
	1000	2.02	0.46	1.68	0.92	1.35	1.38	1.12	1.84	0.96	2.30	0.86	2.76
	1100	2.27	0.51	1.94	1.01	1.61	1.52	1.38	2.03	1.22	2.53	1.12	3.04
	1200	2.53	0.55	2.20	1.11	1.87	1.66	1.64	2.21	1.48	2.76	1.38	3.32
	1300	2.79	0.60	2.46	1.20	2.13	1.80	1.90	2.40	1.74	2.99	1.64	3.59
	1400	3.05	0.64	2.71	1.29	2.39	1.93	2.16	2.58	2.00	3.22	1.90	3.87
	1500	3.31	0.69	2.97	1.38	2.65	2.07	2.41	2.76	2.26	3.46	2.16	4.15
	1600	3.57	0.74	3.23	1.47	2.91	2.21	2.67	2.95	2.52	3.69	2.42	4.42
	1700	3.83	0.78	3.49	1.57	3.16	2.35	2.93	3.13	2.78	3.92	2.68	4.70
	1800	4.09	0.83	3.75	1.66	3.42	2.49	3.19	3.32	3.04	4.15	2.94	4.98
	1900	4.35	0.88	4.01	1.75	3.68	2.63	3.45	3.50	3.30	4.38	3.20	5.25
	2000	4.61	0.92	4.27	1.84	3.94	2.76	3.71	3.69	3.56	4.61	3.45	5.53
	2100	4.87	0.97	4.53	1.93	4.20	2.90	3.97	3.87	3.82	4.84	3.71	5.80
	2200	5.13	1.01	4.79	2.03	4.46	3.04	4.23	4.05	4.08	5.07	3.97	6.08
	2300	5.39	1.06	5.05	2.12	4.72	3.18	4.49	4.24	4.34	5.30	4.23	6.36
	2400	5.65	1.11	5.31	2.21	4.98	3.32	4.75	4.42	4.60	5.53	4.49	6.63
80	900	2.31	0.54	2.06	1.08	1.93	1.62	1.82	2.16	1.66	2.70	1.54	3.23
	1000	2.65	0.60	2.39	1.20	2.26	1.80	2.15	2.40	2.00	2.99	1.88	3.59
	1100	2.99	0.66	2.73	1.32	2.60	1.98	2.49	2.64	2.34	3.29	2.21	3.95
	1200	3.33	0.72	3.07	1.44	2.94	2.16	2.83	2.87	2.67	3.59	2.55	4.31
	1300	3.66	0.78	3.41	1.56	3.28	2.34	3.17	3.11	3.01	3.89	2.89	4.67
	1400	4.00	0.84	3.74	1.68	3.61	2.52	3.50	3.35	3.35	4.19	3.22	5.03
	1500	4.34	0.90	4.08	1.80	3.95	2.70	3.84	3.59	3.69	4.49	3.56	5.39
	1600	4.68	0.96	4.42	1.92	4.29	2.87	4.18	3.83	4.02	4.79	3.90	5.75
	1700	5.01	1.02	4.75	2.04	4.63	3.05	4.51	4.07	4.36	5.09	4.24	6.11
	1800	5.35	1.08	5.09	2.16	4.96	3.23	4.85	4.31	4.70	5.39	4.57	6.47
	1900	5.69	1.14	5.43	2.28	5.30	3.41	5.19	4.55	5.03	5.69	4.91	6.83
	2000	6.02	1.20	5.77	2.40	5.64	3.59	5.53	4.79	5.37	5.99	5.25	7.19
	2100	6.36	1.26	6.10	2.52	5.98	3.77	5.86	5.03	5.71	6.29	5.59	7.55
	2200	6.70	1.32	6.44	2.64	6.31	3.95	6.20	5.27	6.05	6.59	5.92	7.91
	2300	7.04	1.38	6.78	2.75	6.65	4.13	6.54	5.51	6.38	6.89	6.26	8.26
	2400	7.37	1.44	7.12	2.87	6.99	4.31	6.88	5.75	6.72	7.19	6.60	8.62
100	750	3.53	0.80	3.11	1.59	2.76	2.39	2.30	3.19	1.96	3.99	1.67	4.78
	850	4.12	0.90	3.71	1.81	3.36	2.71	2.89	3.61	2.56	4.52	2.27	5.42
	950	4.72	1.01	4.31	2.02	3.96	3.03	3.49	4.04	3.16	5.05	2.87	6.06
	1050	5.32	1.12	4.90	2.23	4.56	3.35	4.09	4.46	3.76	5.58	3.47	6.70
	1150	5.92	1.22	5.50	2.45	5.16	3.67	4.69	4.89	4.36	6.11	4.06	7.34
	1250	6.52	1.33	6.10	2.66	5.76	3.99	5.29	5.32	4.96	6.64	4.66	7.97

Performance Table: RSL

Model	Rpm	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
100	1350	7.12	1.44	6.70	2.87	6.35	4.31	5.89	5.74	5.56	7.18	5.26	8.61
	1450	7.72	1.54	7.30	3.08	6.95	4.62	6.49	6.17	6.16	7.71	5.86	9.25
	1550	8.32	1.65	7.90	3.30	7.55	4.94	7.09	6.59	6.75	8.24	6.46	9.89
	1650	8.92	1.75	8.50	3.51	8.15	5.26	7.68	7.02	7.35	8.77	7.06	10.52
	1750	9.51	1.86	9.10	3.72	8.75	5.58	8.28	7.44	7.95	9.30	7.66	11.16
	1850	10.11	1.97	9.70	3.93	9.35	5.90	8.88	7.87	8.55	9.83	8.26	11.80
	1950	10.71	2.07	10.29	4.15	9.95	6.22	9.48	8.29	9.15	10.36	8.85	12.44
	2050	11.31	2.18	10.89	4.36	10.55	6.54	10.08	8.72	9.75	10.90	9.45	13.08
	2150	11.91	2.29	11.49	4.57	11.14	6.86	10.68	9.14	10.35	11.43	10.05	13.71
	2250	12.51	2.39	12.09	4.78	11.74	7.18	11.28	9.57	10.95	11.96	10.65	14.35
	2350	13.11	2.50	12.69	5.00	12.34	7.49	11.88	9.99	11.54	12.49	11.25	14.99
125	850	6.11	1.27	5.52	2.53	4.94	3.80	4.61	5.06	4.37	6.33	4.23	7.59
	950	6.95	1.41	6.36	2.83	5.78	4.24	5.45	5.66	5.21	7.07	5.07	8.48
	1050	7.79	1.56	7.19	3.13	6.62	4.69	6.29	6.25	6.05	7.81	5.91	9.38
	1150	8.62	1.71	8.03	3.42	7.46	5.13	7.13	6.85	6.89	8.56	6.75	10.27
	1250	9.46	1.86	8.87	3.72	8.29	5.58	7.96	7.44	7.73	9.30	7.59	11.16
	1350	10.30	2.01	9.71	4.02	9.13	6.03	8.80	8.04	8.57	10.05	8.42	12.06
	1450	11.14	2.16	10.55	4.32	9.97	6.47	9.64	8.63	9.40	10.79	9.26	12.95
	1550	11.98	2.31	11.38	4.61	10.81	6.92	10.48	9.23	10.24	11.53	10.10	13.84
	1650	12.82	2.46	12.22	4.91	11.65	7.37	11.32	9.82	11.08	12.28	10.94	14.73
	1750	13.65	2.60	13.06	5.21	12.49	7.81	12.16	10.42	11.92	13.02	11.78	15.63
	1850	14.49	2.75	13.90	5.51	13.32	8.26	12.99	11.01	12.76	13.77	12.62	16.52
	1950	15.33	2.90	14.74	5.80	14.16	8.71	13.83	11.61	13.60	14.51	13.45	17.41
	2050	16.17	3.05	15.58	6.10	15.00	9.15	14.67	12.20	14.43	15.25	14.29	18.31
	2150	17.01	3.20	16.41	6.40	15.84	9.60	15.51	12.80	15.27	16.00	15.13	19.20
	2250	17.85	3.35	17.25	6.70	16.68	10.05	16.35	13.39	16.11	16.74	15.97	20.09
	2350	18.68	3.50	18.09	6.99	17.52	10.49	17.19	13.99	16.95	17.49	16.81	20.98
150	1050	17.40	3.35	16.55	6.69	15.73	10.04	14.89	13.39	14.01	16.73	13.10	20.08
	1150	19.19	3.67	18.35	7.33	17.52	11.00	16.68	14.66	15.81	18.33	14.89	21.99
	1250	20.99	3.98	20.14	7.97	19.32	11.95	18.48	15.94	17.60	19.92	16.69	23.90
	1350	22.78	4.30	21.94	8.61	21.11	12.91	20.27	17.21	19.40	21.51	18.49	25.82
	1450	24.58	4.62	23.73	9.24	22.91	13.86	22.07	18.49	21.19	23.11	20.28	27.73
	1550	26.37	4.94	25.53	9.88	24.70	14.82	23.86	19.76	22.99	24.70	22.08	29.64
	1650	28.17	5.26	27.32	10.52	26.50	15.78	25.66	21.04	24.78	26.29	23.87	31.55
	1750	29.96	5.58	29.12	11.15	28.29	16.73	27.45	22.31	26.58	27.89	25.67	33.46
	1850	31.76	5.90	30.91	11.79	30.09	17.69	29.25	23.58	28.37	29.48	27.46	35.38
	1950	33.55	6.21	32.71	12.43	31.89	18.64	31.04	24.86	30.17	31.07	29.26	37.29
	2050	35.35	6.53	34.50	13.07	33.68	19.60	32.84	26.13	31.96	32.67	31.05	39.20
	2150	37.15	6.85	36.30	13.70	35.48	20.56	34.63	27.41	33.76	34.26	32.85	41.11
	2250	38.94	7.17	38.09	14.34	37.27	21.51	36.43	28.68	35.55	35.86	34.64	43.03
	2350	40.74	7.49	39.89	14.98	39.07	22.47	38.22	29.96	37.35	37.45	36.44	44.94
200	780	24.23	4.61	23.31	9.21	22.47	13.82	21.67	18.43	20.88	23.03	20.12	27.64
	830	25.90	4.90	24.97	9.80	24.13	14.71	23.33	19.61	22.55	24.51	21.79	29.41
	880	27.56	5.20	26.64	10.40	25.80	15.59	24.99	20.79	24.21	25.99	23.45	31.19
	990	31.22	5.85	30.30	11.69	29.46	17.54	28.65	23.39	27.87	29.24	27.11	35.08
	1050	33.22	6.20	32.29	12.40	31.45	18.61	30.65	24.81	29.87	31.01	29.11	37.21
	1100	34.88	6.50	33.96	12.99	33.12	19.49	32.31	25.99	31.53	32.48	30.77	38.98
	1180	37.54	6.97	36.62	13.94	35.78	20.91	34.97	27.88	34.19	34.85	33.43	41.82
	1250	39.87	7.38	38.95	14.77	38.11	22.15	37.30	29.53	36.52	36.91	35.76	44.30
	1320	42.20	7.80	41.27	15.59	40.44	23.39	39.63	31.19	38.85	38.98	38.09	46.78
	1390	44.53	8.21	43.60	16.42	42.76	24.63	41.96	32.84	41.18	41.05	40.42	49.26

Performance Table: RSL

Model	Rpm	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
200	1470	47.19	8.68	46.27	17.36	45.43	26.05	44.62	34.73	43.84	43.41	43.08	52.09
	1560	50.18	9.21	49.26	18.43	48.42	27.64	47.62	36.86	46.83	46.07	46.07	55.28
	1650	53.18	9.75	52.25	19.49	51.41	29.24	50.61	38.98	49.83	48.73	49.07	58.47
	1750	56.50	10.34	55.58	20.67	54.74	31.01	53.94	41.34	53.15	51.68	52.39	62.02
250	1000	44.97	8.48	43.32	16.97	41.72	25.45	40.08	33.94	38.38	42.42	36.61	50.90
	1100	49.75	9.33	48.10	18.67	46.50	28.00	44.86	37.33	43.16	46.66	41.39	56.00
	1200	54.52	10.18	52.88	20.36	51.28	30.54	49.64	40.72	47.94	50.90	46.17	61.09
	1300	59.30	11.03	57.66	22.06	56.06	33.09	54.42	44.12	52.72	55.15	50.95	66.18
	1400	64.08	11.88	62.43	23.76	60.83	35.63	59.20	47.51	57.50	59.39	55.72	71.27
	1480	67.90	12.56	66.26	25.11	64.66	37.67	63.02	50.23	61.32	62.78	59.55	75.34
	1560	71.73	13.24	70.08	26.47	68.48	39.71	66.84	52.94	65.14	66.18	63.37	79.41
	1650	76.03	14.00	74.38	28.00	72.78	42.00	71.14	56.00	69.44	69.99	67.67	83.99
	1750	80.81	14.85	79.16	29.69	77.56	44.54	75.92	59.39	74.22	74.24	72.45	89.08
300	700	54.70	10.56	51.92	21.12	49.22	31.67	46.45	42.23	43.58	52.79	40.58	63.35
	850	67.45	12.82	64.66	25.64	61.96	38.46	59.20	51.28	56.32	64.10	53.33	76.92
	1100	80.19	15.08	77.41	30.17	74.70	45.25	71.94	60.33	69.07	75.41	66.07	90.50
	1150	92.93	17.35	90.15	34.69	87.45	52.04	84.68	69.38	81.81	86.73	78.81	104.07
	1300	105.68	19.61	102.89	39.22	100.19	58.82	97.43	78.43	94.55	98.04	91.56	117.65
	1450	118.42	21.87	115.64	43.74	112.94	65.61	110.17	87.48	107.30	109.35	104.30	131.22
	1550	126.92	23.38	124.13	46.76	121.43	70.14	118.67	93.51	115.79	116.89	112.80	140.27

Performance Table: RSS

Model	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
40	850	1.02	0.23	0.85	0.47	0.67	0.70	0.46	0.94	0.23	1.17						
	950	1.18	0.26	1.00	0.53	0.83	0.79	0.60	1.05	0.44	1.31						
	1050	1.33	0.29	1.16	0.58	0.99	0.87	0.75	1.16	0.62	1.45						
	1150	1.49	0.32	1.31	0.64	1.14	0.95	0.89	1.27	0.76	1.59						
	1250	1.64	0.35	1.47	0.69	1.30	1.04	1.03	1.38	0.90	1.73	0.78	2.07	0.67	2.42	0.52	2.76
	1350	1.80	0.37	1.62	0.75	1.45	1.12	1.28	1.49	1.16	1.87	1.05	2.24	0.99	2.61	0.82	2.99
	1450	1.96	0.4	1.78	0.80	1.61	1.20	1.43	1.60	1.31	2.00	1.21	2.40	1.15	2.81	1.11	3.21
	1550	2.11	0.43	1.93	0.86	1.76	1.29	1.59	1.71	1.47	2.14	1.37	2.57	1.30	3.00	1.26	3.43
	1650	2.27	0.46	2.09	0.91	1.92	1.37	1.74	1.82	1.63	2.28	1.52	2.74	1.46	3.19	1.42	3.65
	1750	2.42	0.48	2.25	0.97	2.08	1.45	1.90	1.93	1.78	2.42	1.68	2.90	1.61	3.39	1.57	3.87
	1850	2.58	0.51	2.40	1.02	2.23	1.53	2.06	2.05	1.94	2.56	1.83	3.07	1.77	3.58	1.73	4.09
	1950	2.73	0.54	2.56	1.08	2.39	1.62	2.21	2.16	2.09	2.70	1.99	3.23	1.92	3.77	1.88	4.31
50	850	1.63	0.39	1.29	0.78	0.96	1.17	0.73	1.57	0.57	1.96	0.43	2.35	0.26	2.74	0.18	3.13
	950	1.89	0.44	1.55	0.88	1.22	1.31	0.99	1.75	0.83	2.19	0.72	2.63	0.61	3.06	0.45	3.50
	1050	2.14	0.48	1.81	0.97	1.48	1.45	1.25	1.93	1.09	2.42	0.98	2.90	0.88	3.39	0.80	3.87
	1150	2.40	0.53	2.07	1.06	1.74	1.59	1.51	2.12	1.35	2.65	1.24	3.18	1.15	3.71	1.06	4.24
	1250	2.66	0.58	2.33	1.15	2.00	1.73	1.77	2.30	1.61	2.88	1.50	3.46	1.43	4.03	1.32	4.61
	1350	2.92	0.62	2.59	1.24	2.26	1.87	2.03	2.49	1.87	3.11	1.77	3.73	1.72	4.35	1.58	4.98
	1450	3.18	0.67	2.84	1.34	2.52	2.00	2.29	2.67	2.13	3.34	2.03	4.01	1.98	4.68	1.84	5.34
	1550	3.44	0.71	3.10	1.43	2.78	2.14	2.54	2.86	2.39	3.57	2.29	4.28	2.24	5.00	2.10	5.71
	1650	3.52	0.76	3.36	1.52	3.03	2.28	2.80	3.04	2.65	3.80	2.55	4.56	2.50	5.32	2.36	6.08
	1750	3.76	0.81	3.62	1.61	3.29	2.42	3.06	3.22	2.91	4.03	2.81	4.84	2.76	5.64	2.62	6.45
	1850	4.01	0.85	3.88	1.70	3.55	2.56	3.32	3.41	3.17	4.26	3.07	5.11	3.02	5.97	2.87	6.82
	1950	4.26	0.90	4.14	1.80	3.81	2.70	3.58	3.59	3.43	4.49	3.32	5.39	3.28	6.29	3.13	7.19

Performance Table: RSS

Model	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
65	850	2.15	0.51	2.04	1.02	1.76	1.53	1.65	2.04	1.49	2.55	1.37	3.05	1.28	3.56	1.14	4.07
	950	2.48	0.57	2.31	1.14	2.10	1.71	1.98	2.28	1.83	2.84	1.71	3.41	1.62	3.98	1.47	4.55
	1050	2.82	0.63	2.58	1.26	2.43	1.89	2.32	2.52	2.17	3.14	2.04	3.77	1.95	4.40	1.81	5.03
	1150	3.16	0.69	2.92	1.38	2.77	2.07	2.66	2.75	2.50	3.44	2.38	4.13	2.29	4.82	2.15	5.51
	1250	3.49	0.75	3.24	1.50	3.11	2.25	3.00	2.99	2.84	3.74	2.72	4.49	2.63	5.24	2.49	5.99
	1350	3.83	0.81	3.57	1.62	3.45	2.43	3.33	3.23	3.18	4.04	3.06	4.85	2.97	5.66	2.82	6.47
	1450	4.17	0.87	3.91	1.74	3.78	2.61	3.67	3.47	3.52	4.34	3.39	5.21	3.30	6.08	3.16	6.95
	1550	4.51	0.93	4.25	1.86	4.12	2.78	4.01	3.71	3.85	4.64	3.73	5.57	3.64	6.50	3.50	7.43
	1650	4.84	0.99	4.59	1.98	4.46	2.96	4.35	3.95	4.19	4.94	4.07	5.93	3.98	6.92	3.83	7.91
	1750	5.18	1.05	4.92	2.10	4.79	3.14	4.68	4.19	4.53	5.24	4.41	6.29	4.32	7.34	4.17	8.38
	1850	5.52	1.11	5.26	2.22	5.13	3.32	5.02	4.43	4.87	5.54	4.74	6.65	4.65	7.76	4.51	8.86
	1950	5.86	1.17	5.60	2.34	5.47	3.50	5.36	4.67	5.20	5.84	5.08	7.01	4.99	8.17	4.85	9.34
80	800	3.83	0.85	3.41	1.70	3.06	2.55	2.59	3.40	2.26	4.25	1.97	5.10	1.55	5.95	1.14	6.80
	900	4.42	0.96	4.01	1.91	3.66	2.87	3.19	3.83	2.86	4.78	2.57	5.74	2.15	6.70	1.74	7.65
	1000	5.02	1.06	4.61	2.13	4.26	3.19	3.79	4.25	3.46	5.32	3.17	6.38	2.75	7.44	2.33	8.50
	1100	5.62	1.17	5.20	2.34	4.86	3.51	4.39	4.68	4.06	5.85	3.77	7.02	3.35	8.19	2.93	9.35
	1200	6.22	1.28	5.80	2.55	5.46	3.83	4.99	5.10	4.66	6.38	4.36	7.65	3.95	8.93	3.53	10.21
	1300	6.82	1.38	6.40	2.76	6.05	4.15	5.59	5.53	5.26	6.91	4.96	8.29	4.55	9.67	4.13	11.06
	1400	7.42	1.49	7.00	2.98	6.65	4.46	6.19	5.95	5.86	7.44	5.56	8.93	5.15	10.42	4.73	11.91
	1500	8.02	1.59	7.60	3.19	7.25	4.78	6.79	6.38	6.45	7.97	6.16	9.57	5.75	11.16	5.33	12.76
	1600	8.62	1.70	8.20	3.40	7.85	5.10	7.38	6.80	7.05	8.50	6.76	10.21	6.34	11.91	5.93	13.61
	1650	8.92	1.75	8.50	3.51	8.15	5.26	7.68	7.02	7.35	8.77	7.06	10.52	6.64	12.28	6.23	14.03
	1750	9.51	1.86	9.10	3.72	8.75	5.58	8.28	7.44	7.95	9.30	7.66	11.16	7.24	13.02	6.82	14.88
	1850	10.11	1.97	9.70	3.93	9.35	5.90	8.88	7.87	8.55	9.83	8.26	11.80	7.84	13.77	7.42	15.73
	1950	10.71	2.07	10.29	4.15	9.95	6.22	9.48	8.29	9.15	10.36	8.85	12.44	8.44	14.51	8.02	16.58
100	850	5.69	1.19	5.10	2.38	4.52	3.57	4.19	4.76	3.96	5.95	3.81	7.14	3.48	8.33	3.34	9.52
	950	6.53	1.34	5.94	2.68	5.36	4.02	5.03	5.36	4.79	6.70	4.65	8.04	4.32	9.38	4.18	10.72
	1000	7.37	1.49	6.77	2.98	6.20	4.46	5.87	5.95	5.63	7.44	5.49	8.93	5.16	10.42	5.02	11.91
	1100	8.21	1.64	7.61	3.27	7.04	4.91	6.71	6.55	6.47	8.19	6.33	9.82	6.00	11.46	5.86	13.10
	1200	9.04	1.79	8.45	3.57	7.87	5.36	7.55	7.14	7.31	8.93	7.17	10.72	6.83	12.50	6.69	14.29
	1300	9.88	1.93	9.29	3.87	8.71	5.80	8.38	7.74	8.15	9.67	8.01	11.61	7.67	13.54	7.53	15.48
	1400	10.72	2.08	10.13	4.17	9.55	6.25	9.22	8.33	8.99	10.42	8.84	12.50	8.51	14.59	8.37	16.67
	1500	11.56	2.23	10.97	4.46	10.39	6.70	10.06	8.93	9.82	11.16	9.68	13.39	9.35	15.63	9.21	17.86
	1600	12.40	2.38	11.80	4.76	11.23	7.14	10.90	9.52	10.66	11.91	10.52	14.29	10.19	16.67	10.05	19.05
	1650	12.82	2.46	12.22	4.91	11.65	7.37	11.32	9.82	11.08	12.28	10.94	14.73	10.61	17.19	10.47	19.65
	1750	13.65	2.60	13.06	5.21	12.49	7.81	12.16	10.42	11.92	13.02	11.78	15.63	11.45	18.23	11.30	20.84
	1850	14.49	2.75	13.90	5.51	13.32	8.26	12.99	11.01	12.76	13.77	12.62	16.52	12.28	19.27	12.14	22.03
	1950	15.33	2.90	14.74	5.80	14.16	8.71	13.83	11.61	13.60	14.51	13.45	17.41	13.12	20.31	12.98	23.22
125A	780	8.29	1.70	7.60	3.40	6.98	5.10	6.28	6.80	5.55	8.50	5.11	10.21	4.74	11.91	4.24	13.61
	830	8.90	1.81	8.22	3.62	7.59	5.43	6.89	7.24	6.16	9.05	5.72	10.86	5.35	12.67	4.85	14.48
	880	9.52	1.92	8.83	3.84	8.21	5.76	7.51	7.68	6.78	9.59	6.34	11.51	5.97	13.43	5.46	15.35
	990	10.87	2.16	10.18	4.32	9.56	6.48	8.86	8.64	8.13	10.79	7.69	12.95	7.32	15.11	6.81	17.27
	1050	11.61	2.29	10.92	4.58	10.30	6.87	9.59	9.16	8.86	11.45	8.42	13.74	8.06	16.03	7.55	18.32
	1100	12.22	2.40	11.53	4.80	10.91	7.20	10.21	9.59	9.48	11.99	9.04	14.39	8.67	16.79	8.17	19.19
	1180	13.20	2.57	12.51	5.15	11.89	7.72	11.19	10.29	10.46	12.87	10.02	15.44	9.65	18.01	9.15	20.59
	1250	14.06	2.73	13.37	5.45	12.75	8.18	12.05	10.90	11.32	13.63	10.88	16.35	10.51	19.08	10.01	21.81
	1320	14.92	2.88	14.23	5.76	13.61	8.64	12.91	11.51	12.18	14.39	11.74	17.27	11.37	20.15	10.87	23.03
	1390	15.78	3.03	15.09	6.06	14.47	9.09	13.77	12.12	13.04	15.16	12.60	18.19	12.23	21.22	11.73	24.25
	1470	16.77	3.21	16.08	6.41	15.45	9.62	14.75	12.82	14.02	16.03	13.58	19.23	13.21	22.44	12.71	25.64
	1560	17.87	3.40	17.18	6.80	16.56	10.21	15.86	13.61	15.13	17.01	14.69	20.41	14.32	23.81	13.82	27.21
	1650	18.98	3.60	18.29	7.20	17.66	10.79	16.96	14.39	16.23	17.99	15.79	21.59	15.42	25.19	14.92	28.78
	1750	20.20	3.82	19.52	7.63	18.89	11.45	18.19	15.26	17.46	19.08	17.02	22.90	16.65	26.71	16.15	30.53
	1850	21.43	4.03	20.74	8.07	20.12	12.10	19.42	16.14	18.69	20.17	18.25	24.21	17.88	28.24	17.38	32.27

Performance Table: RSS

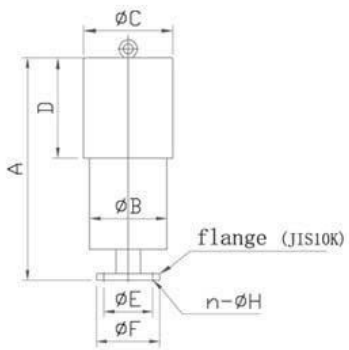
Model	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
125	780	11.73	2.49	10.57	4.97	9.79	7.46	8.94	9.94	8.51	12.43	7.88	14.92	7.82	17.40	7.17	19.8
	830	12.63	2.65	11.47	5.29	10.69	7.94	9.83	10.58	9.40	13.23	8.78	15.87	8.71	18.52	8.07	21.1
	880	13.53	2.80	12.37	5.61	11.59	8.41	10.73	11.22	10.30	14.02	9.67	16.83	9.61	19.63	8.97	22.4
	990	15.50	3.16	14.34	6.31	13.56	9.47	12.71	12.62	12.28	15.78	11.65	18.93	11.59	22.09	10.94	25.2
	1050	16.58	3.35	15.42	6.69	14.64	10.04	13.78	13.39	13.35	16.73	12.72	20.08	12.66	23.43	12.02	26.7
	1100	17.48	3.51	16.32	7.01	15.54	10.52	14.68	14.02	14.25	17.53	13.62	21.04	13.56	24.54	12.92	28.0
	1180	18.92	3.76	17.76	7.52	16.97	11.28	16.12	15.04	15.69	18.80	15.06	22.56	15.00	26.33	14.35	30.0
	1250	20.17	3.98	19.01	7.97	18.23	11.95	17.37	15.94	16.94	19.92	16.31	23.90	16.25	27.89	15.61	31.8
	1320	21.43	4.21	20.27	8.41	19.49	12.62	18.63	16.83	18.20	21.04	17.57	25.24	17.51	29.45	16.87	33.6
	1390	22.69	4.43	21.53	8.86	20.74	13.29	19.89	17.72	19.46	22.15	18.83	26.58	18.77	31.01	18.12	35.4
	1470	24.12	4.69	22.96	9.37	22.18	14.06	21.32	18.74	20.89	23.43	20.26	28.11	20.20	32.08	19.56	37.4
	1560	25.74	4.97	24.58	9.94	23.79	14.92	22.94	19.89	22.51	24.86	21.88	29.83	21.82	34.80	21.17	39.7
	1650	27.35	5.26	26.19	10.52	25.41	15.78	24.55	21.04	24.12	26.29	23.50	31.55	23.43	36.81	22.79	42.0
	1750	29.15	5.58	27.99	11.15	27.20	16.73	26.35	22.31	25.92	27.89	25.29	33.46	25.23	39.04	24.59	44.6
	1850	30.94	5.90	29.78	11.79	29.00	17.69	28.14	23.58	27.71	29.48	27.09	35.38	27.02	41.27	26.38	47.1
150	780	15.04	3.21	13.49	6.41	12.70	9.62	11.98	12.82	11.51	16.03	10.79	19.23	10.19	22.44	9.72	25.6
	830	16.20	3.41	14.65	6.82	13.86	10.23	13.13	13.64	12.66	17.06	11.95	20.47	11.35	23.88	10.88	27.2
	880	17.36	3.62	15.81	7.23	15.02	10.85	14.29	14.47	13.82	18.08	13.11	21.70	12.51	25.32	12.04	28.9
	990	19.90	4.07	18.35	8.14	17.56	12.21	16.84	16.27	16.37	20.34	15.65	24.41	15.05	28.48	14.58	32.5
	1050	21.29	4.32	19.74	8.63	18.95	12.95	18.23	17.26	17.76	21.58	17.04	25.89	16.44	30.21	15.97	34.5
	1100	22.45	4.52	20.90	9.04	20.11	13.56	19.38	18.08	18.91	22.60	18.20	27.12	17.60	31.64	17.13	36.1
	1180	24.30	4.85	22.75	9.70	21.96	14.55	21.23	19.40	20.77	24.25	20.05	29.10	19.45	33.95	18.98	38.8
	1250	25.92	5.14	24.37	10.27	23.58	15.41	22.86	20.55	22.39	25.69	21.67	30.82	21.07	35.96	20.60	41.1
	1320	27.54	5.42	25.99	10.85	25.20	16.27	24.48	21.70	24.01	27.12	23.29	32.55	22.69	37.97	22.22	43.4
	1390	29.16	5.71	27.61	11.42	26.82	17.14	26.10	22.85	25.63	28.56	24.91	34.27	24.31	39.99	23.84	45.7
	1470	31.02	6.04	29.46	12.08	28.68	18.12	27.95	24.17	27.48	30.21	26.76	36.25	26.17	42.29	25.69	48.3
	1560	33.10	6.41	31.55	12.82	30.76	19.23	30.03	25.64	29.56	32.06	28.85	38.47	28.25	44.88	27.78	51.2
	1650	35.18	6.78	33.63	13.56	32.84	20.34	32.11	27.12	31.65	33.91	30.93	40.69	30.33	47.47	29.86	54.2
	1750	37.50	7.19	35.95	14.38	35.16	21.58	34.43	28.77	33.96	35.96	33.24	43.15	32.65	50.34	32.18	57.5
	1850	39.81	7.60	38.26	15.21	37.47	22.81	36.74	30.41	36.28	38.01	35.56	45.62	34.96	53.22	34.49	60.8
200A	620	18.86	5.83	17.50	9.62	16.52	13.41	15.65	17.20	14.87	21.38	14.19	25.27	13.50	28.19	12.80	31.1
	660	20.22	6.12	18.95	10.30	17.98	14.19	17.11	18.27	16.33	22.36	15.65	26.24	14.97	30.13	14.30	34.0
	700	21.68	6.42	20.41	10.79	19.34	14.97	18.47	19.44	17.69	23.33	17.01	28.19	16.43	32.08	15.71	37.9
	740	23.13	6.90	21.77	11.37	20.80	15.94	19.93	20.40	19.14	25.30	18.47	29.20	17.89	34.00	17.22	38.8
	780	24.59	7.20	23.23	11.86	22.26	16.82	21.28	22.40	20.61	26.20	19.73	31.10	19.25	36.90	18.64	42.7
	830	26.34	7.58	24.98	12.73	24.01	17.79	23.13	23.33	22.36	28.19	21.68	33.05	21.09	38.88	20.43	44.7
	880	28.09	7.97	26.73	13.40	25.76	18.76	24.88	24.30	24.11	29.16	23.43	34.99	22.84	40.82	22.10	46.6
	930	29.94	8.36	28.58	14.09	27.89	19.44	26.73	25.27	25.95	31.10	25.27	36.94	24.59	42.77	23.92	48.7
	990	32.08	8.94	30.72	14.87	29.74	21.38	28.87	27.22	28.10	33.05	27.41	39.85	26.73	45.68	26.00	51.5
	1050	34.21	9.43	32.85	15.84	31.88	22.36	31.01	28.19	30.23	35.97	29.55	41.80	28.87	48.60	28.24	55.4
	1110	36.35	9.91	34.99	16.62	34.02	23.33	33.15	30.13	32.37	37.91	31.69	44.71	31.01	50.54	30.32	56.3
	1180	38.78	10.50	37.52	17.69	36.45	25.27	35.58	32.08	34.90	39.85	34.12	46.66	33.53	53.46	32.83	60.1
	1250	41.31	11.08	39.95	18.86	38.98	26.24	38.10	34.02	37.33	41.80	36.64	49.57	36.06	57.35	35.41	65.0
	1320	43.84	11.66	42.48	19.44	41.41	28.19	40.63	36.94	39.85	44.71	39.17	52.49	38.49	60.26	37.80	68.1
	1390	46.27	13.34	45.00	20.41	43.93	29.16	43.06	37.91	42.28	46.66	41.60	55.40	41.02	63.18	40.31	71.0

Performance Table: RSS

odel	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
200	620	24.30	7.00	22.60	11.90	21.20	16.80	20.10	22.00	19.20	26.00	18.20	32.00	17.40	37.00	16.70	42.00
	660	26.10	7.50	24.40	12.70	23.10	17.90	22.00	23.00	21.00	28.00	20.10	34.00	19.30	39.00	18.60	44.00
	700	27.90	7.90	26.20	13.40	24.90	18.90	23.80	24.00	22.80	30.00	21.90	37.00	21.10	42.00	20.30	47.00
	740	29.80	8.30	28.10	14.10	26.70	20.00	25.60	26.00	24.70	31.00	23.70	38.00	23.00	44.00	22.30	50.00
	780	31.60	8.70	29.90	14.90	28.60	21.00	27.50	27.00	26.50	33.00	25.60	40.00	24.80	46.00	24.10	52.00
	830	33.90	9.40	32.20	15.90	30.80	23.00	29.70	29.00	28.70	37.00	27.90	43.00	27.10	49.00	26.40	55.00
	880	36.20	10.00	34.40	16.90	33.10	24.00	32.00	31.00	31.10	39.00	30.20	45.00	29.40	52.00	28.70	59.00
	930	38.50	10.40	36.80	17.70	35.40	25.00	34.30	32.00	33.40	40.00	32.50	47.00	31.70	54.00	31.00	61.00
	990	41.20	11.00	39.50	18.80	38.20	26.00	37.10	34.00	36.10	43.00	35.20	50.00	34.40	58.00	33.70	66.00
	1050	44.00	11.60	42.30	20.00	40.90	28.00	39.80	37.00	38.90	45.00	38.00	53.00	37.20	61.00	36.50	69.00
	1110	46.70	12.20	45.00	21.00	43.70	30.00	42.60	39.00	41.60	48.00	40.70	56.00	39.80	65.00	39.20	74.00
	1180	49.90	13.10	48.20	22.00	46.90	31.00	45.80	41.00	44.80	50.00	43.90	59.00	43.10	68.00	42.40	77.00
	1250	53.10	13.80	51.40	24.00	50.10	33.00	49.00	44.00	48.00	53.00	47.10	63.00	46.30	72.00	45.60	83.00
	1320	56.30	14.50	54.60	25.00	53.30	35.00	52.20	46.00	51.20	56.00	50.30	66.00	49.50	77.00	48.80	88.00
	1390	59.50	15.20	57.80	26.00	56.50	38.00	55.40	48.00	54.40	59.00	53.60	70.00	52.70	81.00	51.67	92.00
250	620	33.00	9.11	31.00	15.65	29.50	22.51	28.20	30.02	27.00	35.38	25.90	42.88	25.40	48.24	24.50	53.60
	660	35.50	9.76	33.50	16.62	32.00	23.58	30.60	31.09	29.50	37.52	28.40	45.02	27.40	50.38	26.50	55.74
	700	37.80	10.29	35.90	17.69	34.30	25.73	33.00	32.16	32.00	40.74	30.90	48.24	29.90	54.67	29.20	61.10
	740	40.30	10.83	38.40	18.65	36.80	26.80	35.50	34.30	34.30	42.88	33.30	50.38	32.40	57.89	31.60	65.40
	780	42.80	11.36	40.70	19.72	39.20	27.87	38.00	36.45	36.80	45.02	35.80	52.53	34.80	61.10	34.00	69.67
	830	45.90	12.00	43.80	20.90	42.20	30.00	41.00	38.60	39.90	48.24	38.80	55.74	37.80	64.32	37.00	72.90
	880	48.90	12.65	46.90	22.51	45.30	31.10	44.10	40.74	42.90	50.38	41.90	58.96	41.00	68.61	40.00	78.26
	930	52.00	13.40	50.00	23.58	48.50	32.16	47.30	42.88	46.00	52.53	44.90	62.18	44.23	71.82	43.50	81.46
	990	55.60	14.15	53.60	24.66	52.10	34.30	50.80	46.10	49.60	55.74	48.70	66.46	47.70	77.18	46.50	87.90
	1050	59.30	15.00	57.40	25.73	55.70	36.45	54.50	48.24	53.30	59.00	52.30	69.88	51.40	81.47	50.60	93.06
	1110	63.00	15.75	61.00	27.87	59.40	39.66	58.10	51.46	57.00	62.18	56.00	73.97	55.00	85.76	54.20	97.55
	1180	67.20	16.72	65.30	28.94	63.70	41.80	62.40	54.67	61.30	66.46	60.30	79.33	59.30	91.12	58.40	102.90
	1250	71.50	17.80	69.60	31.09	68.00	45.02	66.70	58.81	65.50	69.68	64.50	83.62	63.60	96.48	62.70	109.30
	1320	75.80	18.76	73.90	32.16	72.30	47.17	71.00	60.00	69.80	73.97	68.80	87.90	67.90	101.48	67.10	115.10
	1390	80.10	19.72	78.00	34.30	76.50	49.31	75.50	63.25	74.10	78.26	73.10	93.26	72.00	108.30	71.20	123.30
300A	700	51.6	14.1	49.0	24.2	46.9	35.1	45.1	44.0	43.7	55.7	42.2	65.9	40.7	76.1		
	850	63.9	17.0	60.7	29.2	58.0	42.6	55.9	53.3	54.1	67.7	52.3	80.0	50.4	92.3		
	1000	76.8	19.5	74.0	34.0	72.0	47.3	70.1	63.7	68.7	76.9	67.3	92.6	65.8	108.3		
	1150	90.0	22.5	86.7	39.1	84.4	54.4	82.1	73.2	80.7	88.4	78.9	106.4	77.2	124.4		
	1300	101.6	25.1	99.0	43.1	96.9	63.2	95.1	80.4	93.5	99.1	92.2	117.8	90.9	136.4		
	1450	115.5	28.0	112.6	48.1	110.1	70.5	108.3	89.7	106.4	110.6	104.8	134.0	103.2	157.5		
	1550	126.0	30.0	120.5	51.4	120.1	75.4	117.9	95.9	115.6	122.4	114.2	146.1	112.7	169.8		
300	600	71.2	18.1	68.0	33.8	65.3	48.1	62.6	61.4	60.5	73.6	58.5	84.9	56.8	95.5	55.3	105.2
	700	85.5	20.8	81.4	39.2	78.7	55.9	76.0	71.4	73.9	85.6	71.9	98.8	70.2	111.1	68.7	122.5
	800	98.5	23.7	94.8	44.7	92.1	63.8	89.4	81.4	87.3	97.7	85.3	112.7	83.6	126.8	82.1	139.8
	900	111.5	26.6	108.2	50.1	105.6	71.6	102.9	91.4	100.8	109.7	98.8	126.7	97.1	142.4	95.6	157.1
	1000	124.5	29.6	121.6	57.0	118.9	80.9	116.2	102.9	114.1	123.3	112.1	142.1	110.4	159.6	108.9	176.0
	1100	138.1	34.5	135.1	63.9	132.4	90.2	129.7	114.4	127.6	136.8	125.6	157.6	123.9	176.9	122.4	194.8
	1200	151.7	39.5	148.5	70.8	145.8	99.5	143.1	125.9	141.0	150.4	139.0	171.9	137.3	194.1	135.8	213.7
	1300	165.3	44.5	162.1	83.6	159.4	108.8	156.7	137.4	154.6	164.0	152.6	188.4	150.9	211.3	149.4	232.6
	1400	178.0	47.9	174.6	90.0	171.7	117.2	168.8	148.0	166.5	176.6	164.3	202.9	162.5	227.6	160.9	250.5

Accessories Drawings:

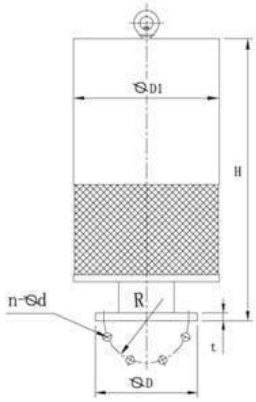
Suction Silencer RSS



Unit: mm

Model	A	ΦB	ΦC	D	ΦE	ΦF	n-ΦH	kg	Specification
SS40	400	140	160	220	105	130	4-Φ15	7.0	RSS-40
SS50	550	140	160	270	120	155	4-Φ18	11.0	RSS-50, RSL-50
SS65	550	165	180	270	140	175	4-Φ18	14.7	RSS-65, RSL-65
SS80	820	210	230	440	150	185	8-Φ18	25.4	RSS-80, RSL-80
SS100	820	240	275	440	175	210	8-Φ18	28.0	RSS-100, RSL-100
SS125	1310	280	315	690	210	250	8-Φ22	42.0	RSS-125, RSS-125A, RSL-125
SS150	1310	300	345	690	240	280	8-Φ22	45.3	RSS-150, RSL-150
SS200	1500	400	460	800	290	330	12-Φ22	67.8	RSS-200, RSS-200A, RSL-200
SS250	1700	400	480	900	355	400	12-Φ22	81.2	RSS-250, RSL-250
SS300	1825	500	600	940	400	445	16-Φ22	108	RSS-300, RSS-300A, RSL-300

Suction Silencer RSL

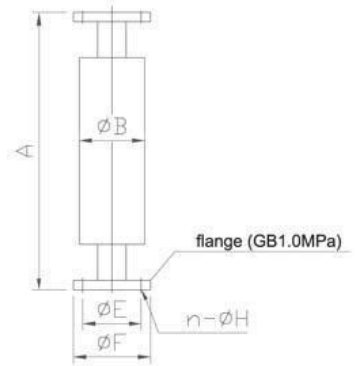


Unit: mm

Model	D	t	n	d	R	D1	H	Specification
RSL40-50	155	14	4	19	60	200	450	RSS-40, RSS-50, RSL-50
RSL-65	175	16	4	19	70	240	480	RSS-65, RSL-65
RSL-80	185	16	8	19	75	270	520	RSS-80, RSL-80
RSL-100	210	16	8	19	87.5	300	580	RSS-100, RSL-100
RSL-125	250	18	8	23	105	372	600	RSS-125, RSS-125A, RSL-125
RSL-150	280	20	8	23	120	400	600	RSS-150, RSL-150
RSL-200	330	20	12	23	145	460	640	RSS-200, RSS-200A, RSL-200
RSL-250	400	22	12	25	177.5	500	640	RSS-250, RSL-250
RSL-300	445	22	16	25	200	550	680	RSS-300, RSS-300A, RSL-300

Accessories Drawings:

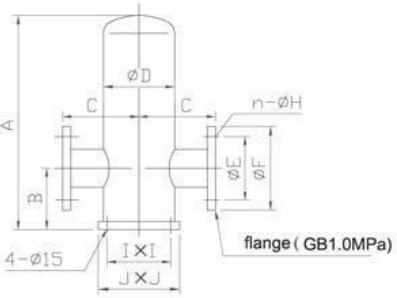
Discharge Silencer



Unit: mm

Model	A	ϕB	ϕE	ϕF	n-ϕH	kg	Specification
DS40	592	140	110	150	4-ϕ18	12.2	RSS-40
DS50	592	140	125	165	4-ϕ18	13.0	RSS-50, RSL-50
DS65	596	165	145	185	4-ϕ18	16.8	RSS-65, RSL-65
DS80	796	218	160	200	8-ϕ18	28.3	RSS-80, RSL-80
DS100	796	240	180	220	8-ϕ18	33.3	RSS-100, RSL-100
DS125	1260	280	210	250	8-ϕ18	45.1	RSS-125, RSS-125A, RSL-125
DS150	1264	300	240	285	8-ϕ22	49.1	RSS-150, RSL-150
DS200	1644	400	295	340	8-ϕ22	84.0	RSS-200, RSS-200A, RSL-200
DS250	1748	400	350	395	12-ϕ22	97.0	RSS-250, RSL-250
DS300	1848	500	400	445	12-ϕ22	135	RSS-300, RSS-300A, RSL-300

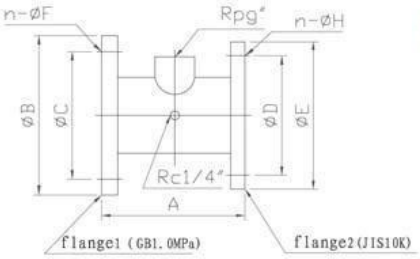
Vertical Discharge Silencer



Unit: mm

Model	A	B	C	ϕD	ϕE	ϕF	n-ϕH	I	J	kg	Specification
VDS40	420	120	150	140	110	125	4-ϕ18	125	160	18.2	RSS-40
VDS50	420	120	150	140	125	165	4-ϕ18	125	160	19	RSS-50, RSL-50
VDS65	480	130	175	191	145	185	4-ϕ18	170	210	27	RSS-65, RSL-65
VDS80	595	145	200	216	160	200	8-ϕ18	190	235	36.9	RSS-80, RSL-80
VDS100	660	155	225	267	180	220	8-ϕ18	230	280	51.8	RSS-100, RSL-100
VDS125	800	190	250	280	210	250	8-ϕ18	240	300	65.9	RSS-125, RSS-125A, RSL-125
VDS150	920	210	300	356	240	285	8-ϕ22	290	376	99.6	RSS-150, RSL-150
VDS200	1050	256	325	406	295	340	8-ϕ22	350	425	131.5	RSS-200, RSS-200A, RSL-200
VDS250	1200	300	375	480	350	395	12-ϕ22	400	500	184.3	RSS-250, RSL-250
VDS300	1300	550	410	520	400	445	12-ϕ22	450	550	243	RSS-300, RSS-300A, RSL-300

"T"-Joint

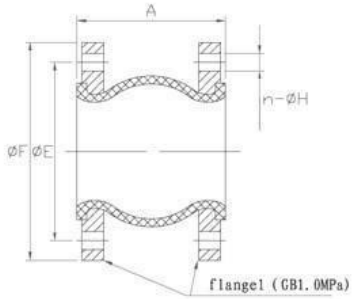


Unit: mm

Model	A	ϕB	ϕC	n-ϕF	ϕD	ϕE	n-ϕH	g	kg	Specification
HJ40	150	150	110	4-ϕ18	120	155	4-ϕ18	1¼	7.0	RSS-40
HJ50	150	165	125	4-ϕ18	120	155	4-ϕ18	1¼	7.3	RSS-50, RSL-50
HJ65	150	185	145	4-ϕ18	140	175	4-ϕ18	1¼	9.0	RSS-65, RSL-65
HJ80	180	200	160	8-ϕ18	150	185	8-ϕ18	1¼	9.6	RSS-80, RSL-80
HJ100	180	220	180	8-ϕ18	175	210	8-ϕ18	2	10.7	RSS-100, RSL-100
HJ125	250	250	210	8-ϕ18	210	250	8-ϕ22	2	14.5	RSS-125, RSS-125A, RSL-125
HJ150	250	285	240	8-ϕ22	240	280	8-ϕ22	2	20.8	RSS-150, RSL-150
HJ200	250	340	295	8-ϕ22	290	330	12-ϕ22	3	26.0	RSS-200, RSS-200A, RSL-200
HJ250	250	395	350	12-ϕ22	355	400	12-ϕ22	3	35.0	RSS-250, RSL-250
HJ300	300	445	400	12-ϕ22	400	445	16-ϕ22	3	44.7	RSS-300, RSS-300A, RSL-300

Accessories Drawings:

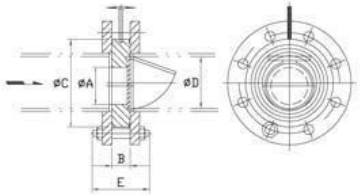
Series Resilient Connect



Unit: mm

Model	A	ϕE	ϕF	n-ϕH	kg	Specification
KXT40	95	110	150	4-ϕ18	2.5	RSS-40
KXT50	105	125	165	4-ϕ18	3.0	RSS-50, RSL-50
KXT65	115	145	185	4-ϕ18	3.5	RSS-65, RSL-65
KXT80	135	160	200	8-ϕ18	4.0	RSS-80, RSL-80
KXT100	150	180	220	8-ϕ18	5.0	RSS-100, RSL-100
KXT125	165	210	250	8-ϕ18	6.5	RSS-125, RSS-125A, RSL-125
KXT150	180	240	285	8-ϕ22	9.5	RSS-150, RSL-150
KXT200	190	295	340	8-ϕ22	16.0	RSS-200, RSS-200A, RSL-200
KXT250	230	350	395	12-ϕ22	25.0	RSS-250, RSL-250
KXT300	250	400	445	12-ϕ22	42	RSS-300, RSS-300A, RSL-300

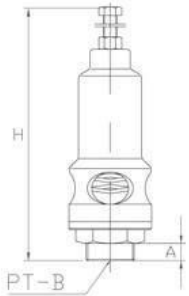
Check Valve(insert Disert Type)



Unit: mm

Model	ϕA	B	ϕC	ϕD	E	kg	Specification
DCV-50	25	20	104	52.7	86	1.1	RSS-40, RSS-50, RSL-50
DCV-65	36	24	124	65.9	108	1.4	RSS-65, RSL-65
DCV-80	46	24	134	78.1	108	1.6	RSS-80, RSL-80
DCV-100	67	24	159	102.3	108	2.3	RSS-100, RSL-100
DCV-125	88	25	190	126.6	115	3.4	RSS-125, RSS-125A, RSL-125
DCV-150	108	26	220	151	115	5.0	RSS-150, RSL-150
DCV-200	138	28	270	200	127	10.0	RSS-200, RSS-200A, RSL-200
DCV-250	185	28	331	251.4	127	18.0	RSS-250, RSL-250
DCV-300	220	30	370	300	150	22.0	RSS-300, RSS-300A, RSL-300

Relief Valve



Unit: mm

Model	A	H	Specification	kg
SV1¼	25	150	RSS-40, 50, 65, 80, RSL-50, 65, 80	1.6
SV2	25	180	RSS-100, 125, 125A, 150, RSL-100, 125, 150	2.5
SV3	30	250	RSS-200, 200A, RSL-200	5.0
SV4	25	316	RSS-250, 300A, 300, RSL-250, 300	8.5