

Taiko Air Blower

Your Environmental Care Partner

 **Green Now or Never!**

Think of environment,
think of our
responsibility

Nurture the green for
better living condition



Your preferred brand
makes 'it' different

Authorized dealer

TAIKO
b l o w e r

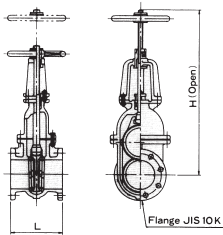


The Original SSR 3 Lobe Roots Type Blowers

Approved by Suruhanjaya Perkhidmatan Air Negara (SPAN)

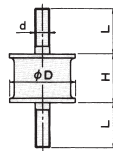
TYPES TSS, TSA, SSR ACCESSORIES

Gate Valve (GV)



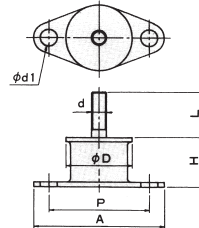
Type	Bore	L	H	(kg) Weight
GV-50	50A	180	381	18
GV-65	65A	190	428	24
GV-80	80A	200	493	27.7
GV-100	100A	230	588	43.5
GV-125	125A	250	689	61
GV-150	150A	270	798	82

Rubber Vibration Isolator (TYPE A)



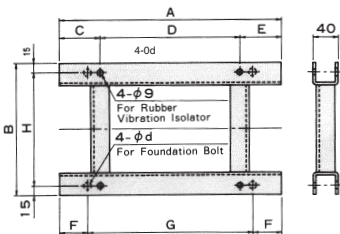
Type	D	H	L	d	Application Type
A-35B	35	36	23	M8	TSA
A-35	35	26	24	M8	SSR-50-80
A-40	40	25	30	M8	SSR-100, 125
A-50	50	27	30	M10	SSR-150
A-75	75	42	45	M12	SSR-200

Rubber Vibration Isolator (TYPE B)



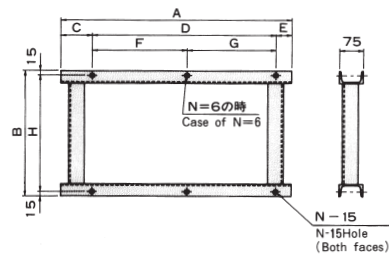
Type	D	H	L	d	φd1	A	P	Application Type
B-35	35	26	24	M8	9	69	53	SSR-50-80
B-40	40	25	30	M8	9	76	60	SSR-100, 125
B-50	50	27	30	M10	11.5	93	73	SSR-150

Vibration-Isolating Base (TSS, TSA)



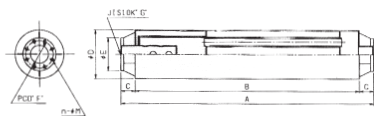
Application Type	A	B	C	D	E	F	G	H	d	(kg) Weight
TSS-20-32	350	210	65	220	65	45	260	180	12	2.7
TSA-40	550	250	150	320	80	115	320	220	15	4.0
TSA-50, 65	600	280	175	370	55	115	370	250	15	4.5

Vibration-Isolating Base (SSR)



Application Type	A	B	C	D	E	F	G	H	N	(kg) Weight
SSR-50	560	300	100	410	50	-	-	270	4	10
SSR-65	600	340	100	450	50	-	-	310	4	11
SSR-80	650	360	100	500	50	-	-	330	4	12
SSR-100	730	470	100	580	50	-	-	440	4	14
SSR-125	860	480	110	700	50	350	350	440	6	16
SSR-150	960	580	160	750	50	400	350	550	6	18
SSR-200	1280	750	180	1000	100	500	500	705	6	33

Discharge Silencer (KMB)



Type	Bore	A	B	C	D	E	F	N-φH	(kg) weight
KMB-50	50A	900	740	80	184	155	120	4-φ19	21
KMB-65	65A	1200	1020	90	233	175	140	4-φ19	38
KMB-80	80A	1400	1220	90	280	185	150	8-φ19	45
KMB-100	100A	1600	1420	90	310	210	175	8-φ19	65
KMB-125	125A	1800	1600	100	350	250	210	8-φ23	88
KMB-150	150A	1900	1680	110	450	280	240	8-φ23	135

TSS, TSA, SSR

Application Examples

Waste Water Aeration Condominiums



Foaming in Bath



Back Washing



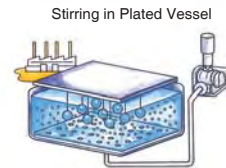
Waste Water Aeration for Shops and Livestock Industries



Combustion a Fireplace



Transport of Particles



Vacuum Pack for Foods

HOW TO USE PERFORMANCE TABLES

The performance tables give the model number, bore, r.p.m., discharge pressure, air capacity and required power of the blower.

3. The discharge air capacity can be converted into the standard air capacity by the following equation.

$$Q_s = Q_d \times \frac{1.0332 + P_d}{1.0332} \times \frac{273 + t_s}{273 + t_d}$$

where, Q_d : discharge air capacity, in m^3/min ;
 P_d : discharge pressure, in kgf/cm^2 ;
 t_s : suction temperature, in $^{\circ}C$; and
 t_d : discharge temperature, in $^{\circ}C$.

1. The air capacity in the tables is indicated in the standard suction state. The standard suction state herein mentioned is defined as the condition at 20 $^{\circ}C$ temperature, 1.0332 kgf/cm^2 (101.3kPa) absolute pressure and 63% relative humidity. The reference air capacity (0 $^{\circ}C$ temperature and 1.0332 kgf/cm^2 (101.3kPa) absolute pressure) is generally indicated in Nm^3/min .

2. However, it may be converted into the standard air capacity by the following equation, if the suction

$$Q_s = Q_n \times 1.0732$$

where, Q_s : standard air capacity ; and
 Q_n : reference air capacity.

4. According to the air capacity and discharge pressure as calculated above, the model number, bore, r.p.m. and required power can be found in the performance table.

5. The motor powers are indicated by color marking, and the motor powers to be used should be that indicated.

6. The choice is overlapped depending upon the type of blower. For reference, however, selection should be lower number blowers for the economy and higher number blowers for the sound level.

SI Units Convers Table (SI Units in Heavy Lines)

	Pa	bar	kgf/cm ²	atm	mmHg O	mmHg (Torr)
Pressure	1	1 X 10 ⁻⁵	1.019 72 X 10 ⁻⁵	9.869 23 X 10 ⁻⁶	1.019 72 X 10 ⁻¹	7.500 62 X 10 ⁻³
	1 X 10 ⁵	1	1.019 72	9.869 23 X 10 ⁻¹	1.019 72 X 10 ⁴	7.500 62 X 10 ²
	9.806 65 X 10 ⁴	9.806 65 X 10 ⁻¹	1	9.678 41 X 10 ⁻¹	1 X 10 ⁴	7.355 59 X 10 ²
	1.013 25 X 10 ⁵	1.013 25	1.033 23	1	1.033 23 X 10 ⁴	7.600 00 X 10 ²
	9.806 65	9.806 65 X 10 ⁻⁵	1 X 10 ⁻⁴	9.678 41 X 10 ⁻⁵	1	7.355 59 X 10 ⁻²
	1.333 22 X 10 ²	1.333 22 X 10 ⁻³	1.359 51 X 10 ⁻³	1.315 79 X 10 ⁻³	1.359 51 X 10	1

TAIKO is creating the tomorrow with a new concept

Introduction

A Roots blower, sometimes called a Positive Displacement, or PD blower, is a machine which "pushes" a relatively constant volume of the gas handled at the inlet through to the discharge. It applies to conditions requiring high vacuum or high pressure especially in the waste water treatment plant.

The main purpose of the blower is to provide constant flow of gas at different pressures.

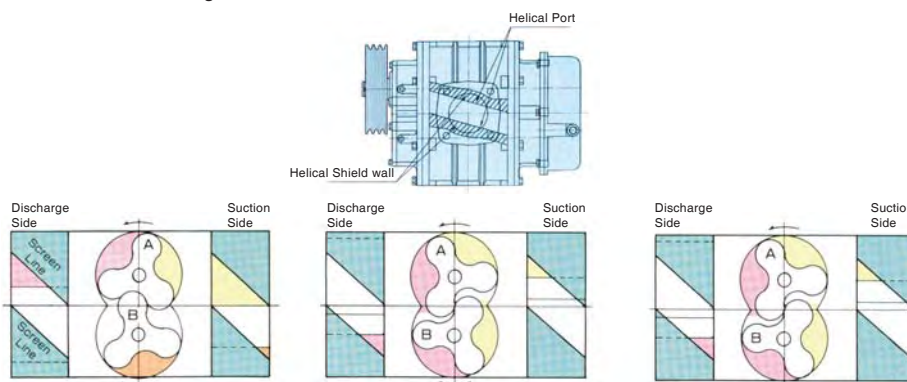
The blower consists of a cast iron casing in which two rotors with conjugate shapes rotate and are synchronised by a set of timing gears. During rotation, there is no contact between the lobes or between the lobes and the casing.

Features & Benefits

1. The oil free type blowers TSS, TSA, SSR provides clean air supply without oil mist.
2. Sturdy construction and high durability enables continuous operation.
3. Simple construction, space-saving, light weight and ease of installation and easy maintenance.
4. The helical port design enables superior noise reduction.
5. Consumes lower power which leads to higher savings.
6. Various air volumes required can be achieved by changing speed.
7. Stable performance even under varying pressure conditions.
8. Various base options makes it easier to replace other blowers models.
9. Steady air flow to reduce vibration, noise and back flow pressure.
10. Adequate clearance to ensure no contact between rotors and casing during operation for superior air flow efficiency.
11. Dynamically balanced rotors in the fabrication stage for free of vibration.
12. By minimizing discharge pressure pulsation, the load on the bearings and timing gears is significantly reduced for superior longer life.

Functioning Principle

The conventional roots type rotary blowers, either two-lobe or three-lobe, have the same compression mechanism that the compression occurs upon reverse-flowing of high pressure air instantly when the rotor end is opened in line with the discharge opening. Such reverse flow and a rapid change in the compression as involved in the above compression is the cause of noise. The helical construction of these blowers was designed to eliminate such noise.



[1] Rotor A: The suction side is open over the full length thereof, and is about to close gradually. While, the discharge side is open half-way by opening gradually.
Rotor B: The suction side is almost fully closed by closing gradually. While, the discharge side is not yet opened but is about to open.

[2] Rotor A: The suction side is a little more closed than Case [1], where the shaded triangle port is going smaller gradually along with the screen line of casing. While, discharge has already been completed at the discharge side. Rotor B: The suction side is immediately before going on to the screen line of casing. While, the discharge side is under the discharge process, where the triangle port is opening gradually.

[3] Rotor A: Both of the suction and discharge sides are closed, and immediately before opening at the discharge side.
Rotor B: The closing process has just been set out, and is now closing gradually. While, the discharge side is immediately before full opening by opening gradually.

The shaded portions show openings of
☆ suction and discharge ports.

TSS, TSA, SSR

Application Examples

Waste Water Aeration Condominiums

Waste Water Aeration for Shops
and Livestock Industries

Fish Care



Foaming in Bath



Combustion a Fireplace



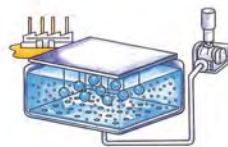
Stirring in Plated Vessel



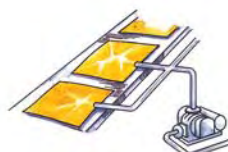
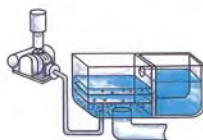
Back Washing



Transport of Particles



Vacuum Pack for Foods



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3. The discharge air capacity can be converted into the standard air capacity by the following equation.

$$Q_s = Q_d \times \frac{1.0332 + P_d}{1.0332} \times \frac{273 + t_s}{273 + t_d}$$

where, Q_d : discharge air capacity, in m³/min.;
 P_d : discharge pressure, in kgf/cm² ;
 t_s : suction temperature, in °C ; and
 t_d : discharge temperature, in °C.

4. According to the air capacity and discharge pressure as calculated above, the model number, bore, r.p.m. and required power can be found in the performance table.

5. The motor powers are indicated by color marking, and the motor powers to be used should be that indicated.

6. The choice is overlapped depending upon the type of blower. For reference, however, selection should be lower number blowers for the economy and higher number blowers for the sound level.

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	9.806 65	9.806 65 X 10 ⁻⁵	1 X 10 ⁻⁴	9.678 41 X 10 ⁻⁵	1	7.355 59 X 10 ⁻²
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TYPE SSR

DESCRIPTIONS

- [1] The performance tables and standardized specifications are made available for all types to allow easy selection of one in need.
- [2] The blowers including accessories are standardized and are under mass production control so as to be able to correspond to the orders and needs at any time.
- [3] The operation noise is lowered to the level not ever achieved by adopting, in addition to the helical construction, a silent air cleaner as appropriate to each type of the blowers.
- [4] The rotor is a precision product machined in its full surface, and since it is dynamically balanced in the shop completely, it will have almost no vibration.
- [5] The blowers require only a small area for installation due to a compact design.

SSR

- Major Specifications of Type SSR
 - Bore : 50 to 200A
 - Air Capacity : 0.8 to 56m³/min.
 - Pressure : 0.1 to 0.6kgf/cm²
 - Motor Power : 0.75 to 110kw

Standard Accessories

- Common Base
- V-belt Cover
- Blower Pulley, Motor Pulley,
- V-belt
- Suction Silencer (With Air Filter)
- Safety Valve
- Pressure Gauge
- Lubricating Oil
- Anchor Bolt

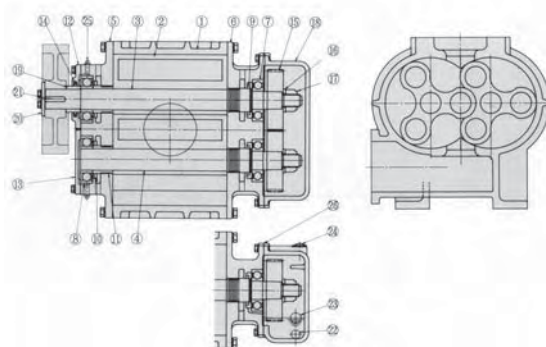
SPECIFICATIONS

The three-lobe helical roots type rotary blower Type SSR is a new product which has been developed by adopting innovated techniques, based on the manufacturing experience in the roots type rotary blowers for many years.

These blowers have improved full-adiabatic, efficiency as well as volumetric efficiency and provide superior air capacity versus pressure characteristic.

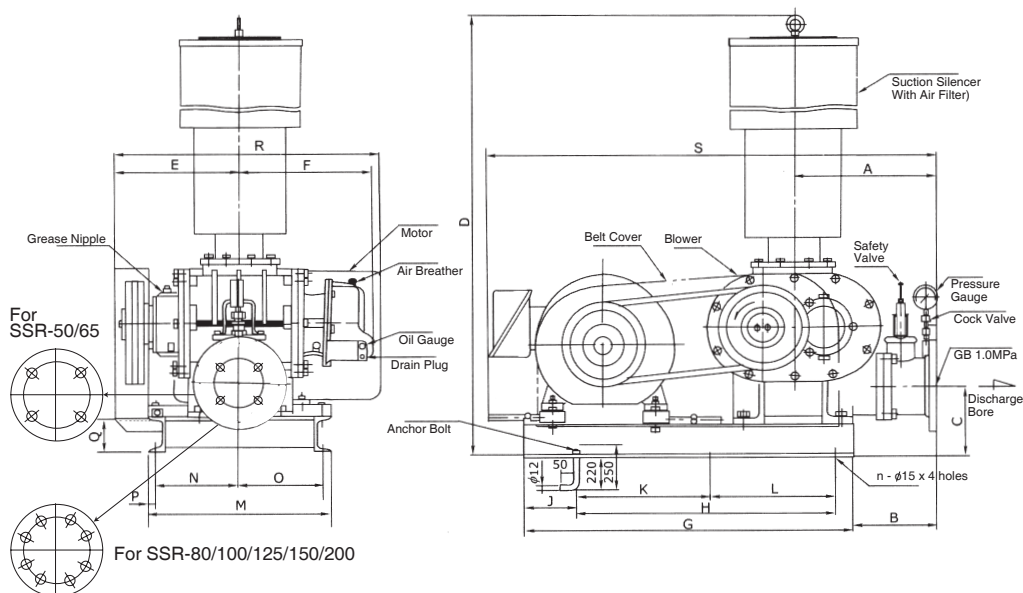
The superiority of efficiency leads to reduction of the heat from the blower itself, and therefore, reduction of the temperature elevation, and thus the operation of blower in dry condition has become practical at the discharge pressure as high as 58.8kPa.

SECTIONAL DRAWING



No.	Description	Material	Q'ty	No.	Description	Material	Q'ty	No.	Description	Material	Q'ty
1	Casing	FC200	1	10	Stop Ring (Drive Side)	NBR	2	19	Collar	S45C	1
2	Impeller	FC200	2	11	Bearing Sleeve	S45C	2	20	End Plate	SS400	1
3	Drive Shaft	S45C	1	12	Bearing Cover (Drive Side)	FC200	1	21	Parallel Key	S45C	1
4	Driven Shaft	S45C	1	13	Bearing Cover (Driven Side)	FC200	1	22	Drain Plug	FCMB	1
5	Side Cover (Drive Side)	FC200	1	14	Z Seal	NBR	1	23	Oil Gauge	SS + Glass	1
6	Side Cover (Gear Side)	FC200	1	15	Gear	SCM435	2	24	Air Breather	Plastics	1
7	Bearing	SUJ2	2	16	Gear Lock Washer	SS400	2	25	Grease Nipple	C3604	2
8	Bearing	SUJ2	2	17	Gear Lock Nut	SS400	2	26	Gear Case Packing	Three Sheet	1
9	Stop Ring (Gear Side)	NBR	2	18	Gear Case	FC200	1				

TYPE SSR OUTLINE DIMENSIONS (BELT & PULLEY)



Unit mm

Type \ Mark	Bore	A	B	C	D	E	F	G	H	J	K
SSR-50	50A	230	130	125	900	185	179	560	410	100	-
SSR-65	65A	230	130	135	965	205	202	600	450	100	-
SSR-80	80A	280	170	150	1125	220	225	650	500	100	-
SSR-100	100A	280	155	160	1250	260	265	730	580	100	-
SSR-125	125A	355	205	190	1510	295	294	860	700	110	350
SSR-150	150A	400	235	210	1730	380	377	960	750	160	400
SSR-175	200A	520	355	230	1775	465	457	1100	840	160	400
SSR-200H	200A	591	378	256	2210	525	550	1280	1000	180	500
Type \ Mark	Bore	L	M	N	O	P	Q	n	R	S	(kg) Weight
SSR-50	50A	-	300	115	155	15	80	4	430	770	70
SSR-65	65A	-	340	135	175	15	80	4	500	810	81
SSR-80	80A	-	380	130	200	15	80	4	530	890	123
SSR-100	100A	-	470	170	270	15	80	4	600	960	157
SSR-125	125A	350	480	185	255	20	100	6	710	1380	235
SSR-150	150A	350	590	250	300	20	100	6	860	1830	394
SSR-175	200A	420	720	325	355	20	100	6	1045	1600	495
SSR-200H	200A	500	755	360	345	25	126	6	1080	1765	860

Note-The weights given does not include the motor.

TYPE SSR PERFORMANCE TABLE (BELT & PULLEY)

0.75KW 1.1KW 1.5KW 2.2KW 3KW 4KW 5.5KW 7.5KW

Type	Bore	rpm	Discharge Pressure																							
			0.96																							
			0.10		0.15		0.20		0.25		0.30		0.35		0.40		0.45		0.50		0.55		0.60			
			9.8kPa		14.7kPa		19.6kPa		24.5kPa		29.4kPa		34.3kPa		39.2kPa		44.1kPa		49kPa		53.9kPa		58.8kPa			
			Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La		
SSR 50	50A	1100	1.22	0.30	1.16	0.44	1.12	0.52	1.05	0.66	0.99	0.78	0.93	0.92	0.90	1.04	0.85	1.18	0.78	1.32						
		1230	1.38	0.38	1.31	0.52	1.27	0.64	1.20	0.78	1.14	0.92	1.08	1.05	1.05	1.20	1.00	1.35	0.94	1.49	0.90	1.64				
		1350	1.53	0.44	1.46	0.60	1.42	0.74	1.34	0.88	1.28	1.04	1.23	1.19	1.19	1.34	1.14	1.50	1.09	1.65	1.05	1.82				
		1450	1.66	0.50	1.58	0.67	1.54	0.82	1.46	0.98	1.40	1.14	1.34	1.30	1.30	1.47	1.25	1.62	1.20	1.79	1.16	1.96	1.14	2.15		
		1530	1.75	0.56	1.68	0.74	1.63	0.90	1.55	1.06	1.49	1.24	1.43	1.40	1.39	1.58	1.35	1.75	1.30	1.92	1.26	2.10	1.24	2.29		
		1640	1.89	0.64	1.81	0.84	1.76	1.01	1.68	1.18	1.62	1.37	1.56	1.55	1.52	1.74	1.47	1.91	1.43	2.10	1.40	2.29	1.38	2.49		
		1730	2.00	0.71	1.92	0.92	1.87	1.10	1.79	1.28	1.73	1.48	1.66	1.67	1.62	1.86	1.57	2.05	1.53	2.25	1.50	2.45	1.48	2.66		
		1840	2.13	0.80	2.05	1.01	2.00	1.20	1.92	1.40	1.86	1.62	1.79	1.81	1.75	2.02	1.70	2.22	1.67	2.43	1.64	2.64	1.62	2.86		
		1950	2.27	0.89	2.19	1.11	2.13	1.32	2.05	1.52	1.99	1.75	1.92	1.95	1.88	2.18	1.83	2.39	1.81	2.61	1.77	2.83	1.75	3.06		
		2120	2.48	1.02	2.39	1.26	2.33	1.49	2.25	1.71	2.19	1.96	2.12	2.18	2.08	2.42	2.03	2.65	2.01	2.89	1.98	3.13	1.96	3.37		
SSR 65	65A	1110	1.67	0.38	1.57	0.60	1.48	0.80	1.40	0.99	1.32	1.16	1.25	1.35	1.18	1.52	1.12	1.72	1.07	1.82						
		1240	1.92	0.48	1.82	0.70	1.73	0.92	1.65	1.12	1.58	1.33	1.51	1.53	1.44	1.74	1.38	1.96	1.32	2.10	1.27	2.30				
		1360	2.16	0.56	2.06	0.81	1.97	1.04	1.89	1.24	1.82	1.48	1.75	1.71	1.68	1.94	1.62	2.18	1.56	2.35	1.51	2.58				
		1450	2.31	0.63	2.22	0.88	2.14	1.12	2.07	1.34	2.00	1.60	1.93	1.85	1.86	2.10	1.80	2.32	1.74	2.54	1.69	2.78	1.63	3.00		
		1530	2.45	0.70	2.36	0.96	2.28	1.20	2.21	1.45	2.14	1.72	2.08	1.98	2.02	2.25	1.96	2.50	1.90	2.72	1.84	2.96	1.79	3.20		
		1640	2.66	0.80	2.57	1.08	2.49	1.33	2.42	1.60	2.36	1.89	2.30	2.17	2.24	2.46	2.18	2.73	2.12	2.95	2.06	3.22	2.01	3.46		
		1740	2.86	0.89	2.77	1.18	2.69	1.46	2.62	1.74	2.56	2.04	2.50	2.34	2.44	2.64	2.38	2.94	2.32	3.16	2.26	3.45	2.21	3.70		
		1820	3.02	0.96	2.93	1.27	2.85	1.56	2.78	1.86	2.72	2.16	2.66	2.46	2.60	2.79	2.54	3.10	2.48	3.33	2.42	3.63	2.37	3.90		
		1940	3.26	1.07	3.17	1.40	3.09	1.71	3.02	2.03	2.96	2.35	2.90	2.69	2.83	3.02	2.77	3.35	2.71	3.59	2.66	3.90	2.61	4.20		
		2130	3.64	1.24	3.55	1.60	3.47	1.95	3.40	2.30	3.33	2.65	3.27	3.00	3.21	3.35	3.15	3.72	3.09	4.00	3.04	4.34	2.99	4.66		
SSR 80	80A	1140	3.09	1.04	3.00	1.32	2.90	1.60	2.84	1.98	2.78	2.14	2.71	2.43	2.63	2.69	2.54	3.00	2.48	3.22	2.40	3.47	2.36	3.74		
		1230	3.37	1.14	3.28	1.46	3.18	1.76	3.10	2.06	3.06	2.35	2.99	2.65	2.91	2.94	2.82	3.27	2.76	3.53	2.68	3.81	2.63	4.11		
		1300	3.59	1.22	3.50	1.57	3.41	1.89	3.33	2.21	3.27	2.51	3.20	2.83	3.12	3.14	3.03	3.49	2.97	3.77	2.90	4.09	2.84	4.41		
		1360	3.77	1.29	3.68	1.66	3.59	1.99	3.52	2.33	3.46	2.64	3.38	2.98	3.30	3.31	3.22	3.67	3.16	3.98	3.09	4.30	3.02	4.65		
		1460	4.08	1.40	3.99	1.81	3.90	2.17	3.82	2.54	3.76	2.87	3.69	3.23	3.62	3.60	3.53	3.98	3.46	4.32	3.40	4.69	3.34	5.06		
		1560	4.38	1.52	4.30	1.97	4.21	2.32	4.14	2.74	4.07	3.10	4.00	3.49	3.93	3.88	3.84	4.29	3.77	4.66	3.71	5.07	3.65	5.48		
		1650	4.66	1.62	4.57	2.11	4.48	2.50	4.41	2.92	4.36	3.31	4.28	3.71	4.20	4.14	4.12	4.56	4.05	4.98	3.98	5.40	3.92	5.85		
		1730	4.90	1.71	4.82	2.23	4.73	2.64	4.67	3.08	4.60	3.50	4.53	3.92	4.46	4.36	4.38	4.80	4.30	5.26	4.24	5.74	4.18	6.18		
		1820	5.18	1.81	5.10	2.37	5.00	2.80	4.94	3.27	4.88	3.70	4.81	4.15	4.74	4.62	4.65	5.08	4.58	5.57	4.52	6.06	4.45	6.56		
		1900	5.43	1.91	5.35	2.50	5.27	2.95	5.19	3.44	5.12	3.88	5.06	4.35	4.99	4.86	4.89	5.33	4.82	5.84	4.77	6.36	4.70	6.88		

Remark:

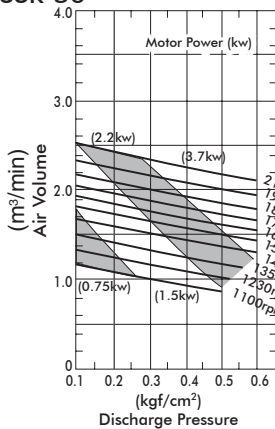
Qs : Suction - phase Air Volume (m³/min)

La : Required electric power (kw)

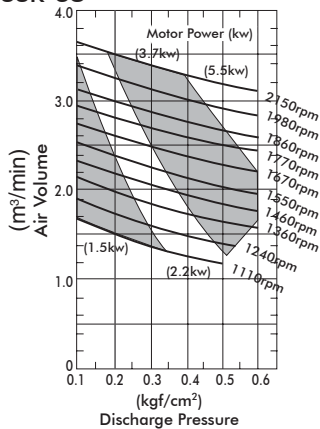
PERFORMANCE CURVE

SSR

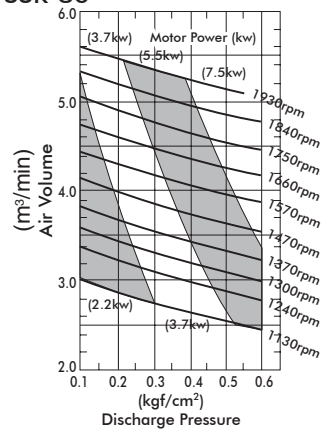
SSR-50



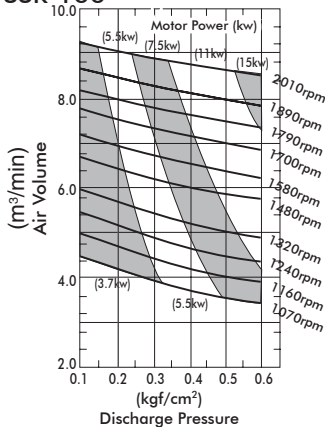
SSR-65



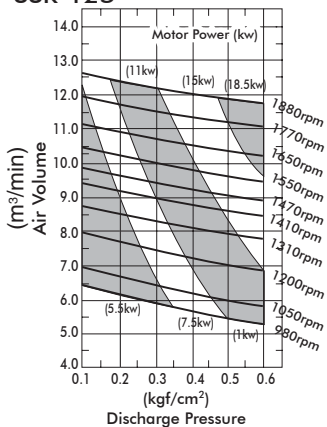
SSR-80



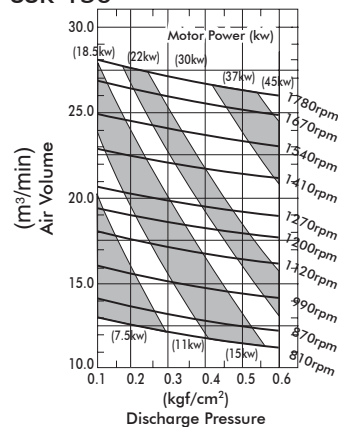
SSR-100



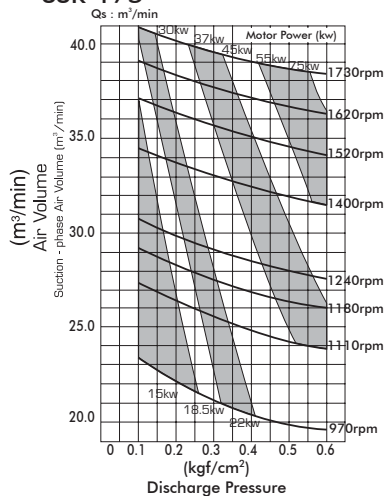
SSR-125



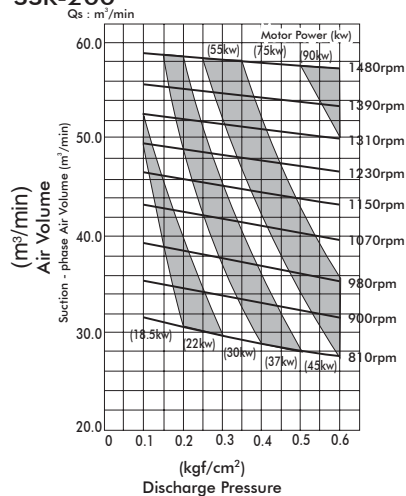
SSR-150



SSR-175



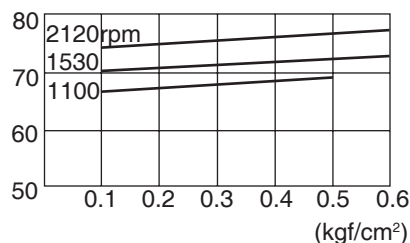
SSR-200



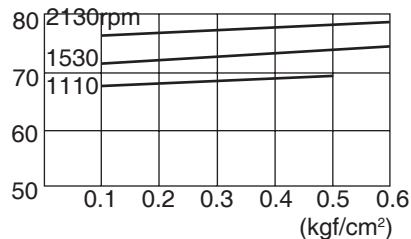
TYPE SSR NOISE LEVEL

NOISE LEVEL dB(A) Machine
Side 1.0m

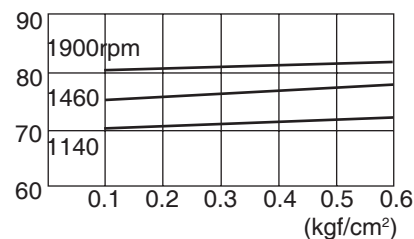
dB(A) SSR-50



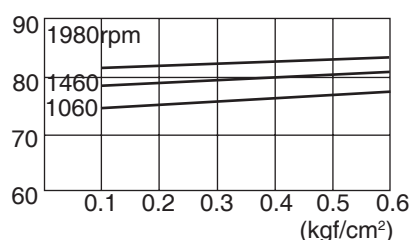
dB(A) SSR-65



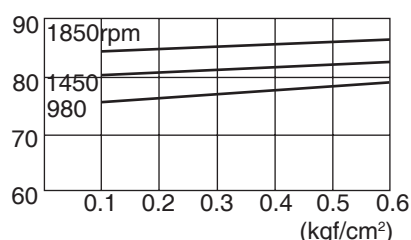
dB(A) SSR-80



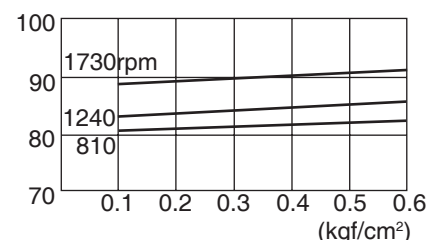
dB(A) SSR-100



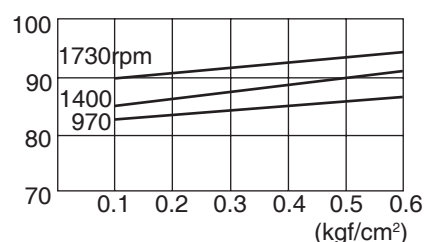
dB(A) SSR-125



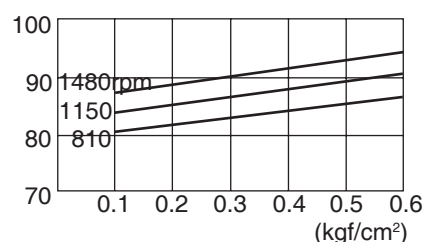
dB(A) SSR-150



dB(A) SSR-175

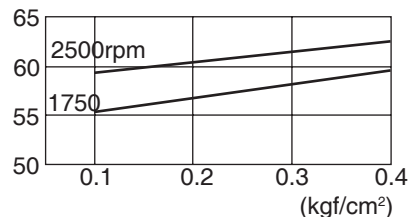


dB(A) SSR-200H

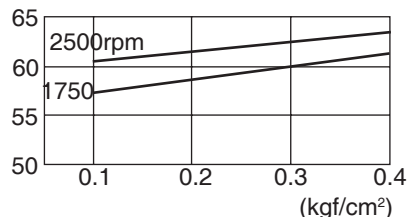


TYPE TSS NOISE LEVEL

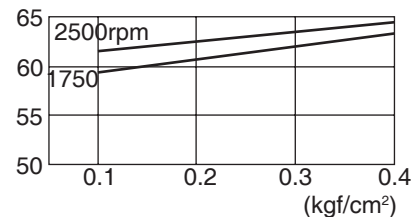
dB(A) TSS-20



dB(A) TSS-25

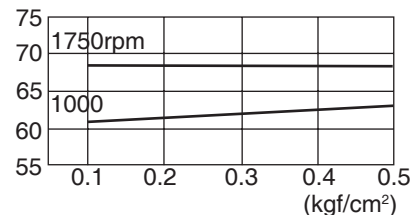


dB(A) TSS-32

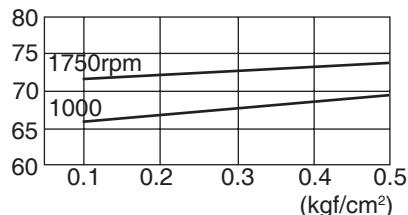


TYPE TSA NOISE LEVEL

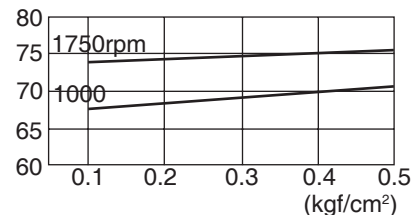
dB(A) TSA-40



dB(A) TSA-50

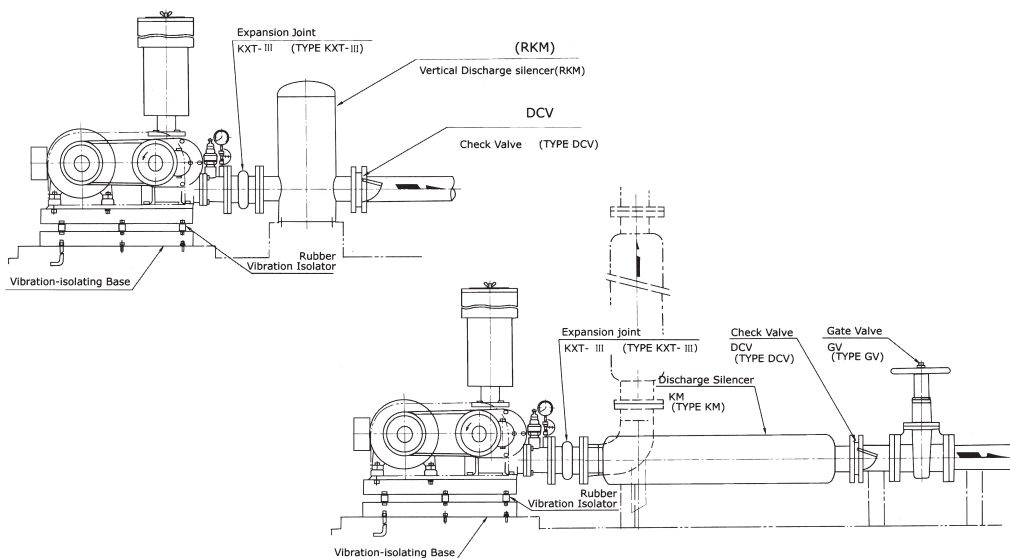


dB(A) TSA-65



REFERENCE DRAWING OF PIPING FOR TYPE SSR

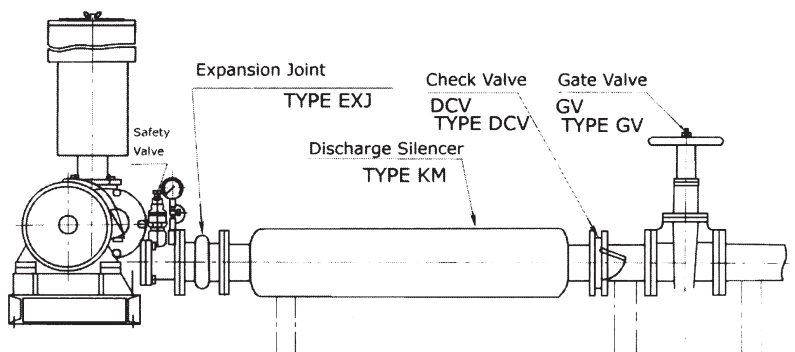
(Pulley Transmission Drawing)



Note: Make sure that the piping of check valve type DCV is horizontal.

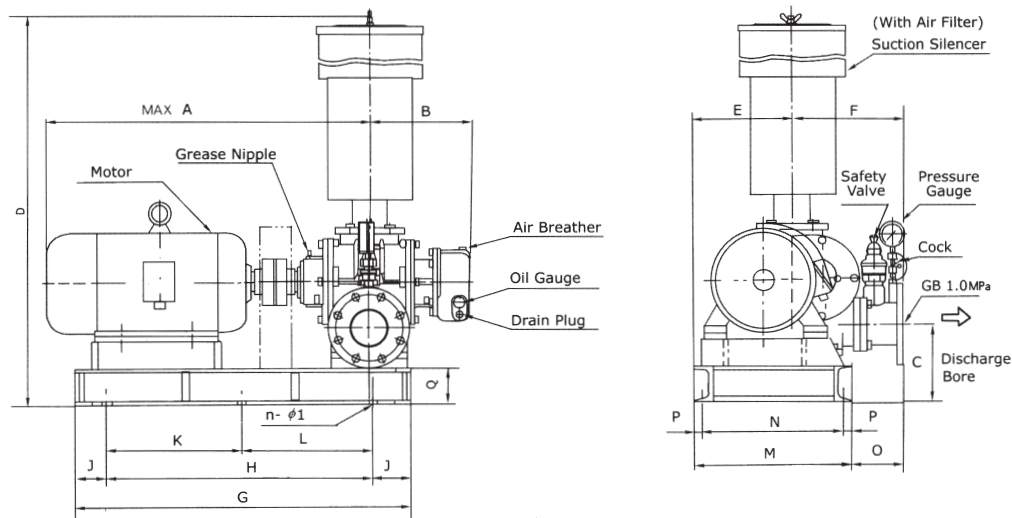
REFERENCE DRAWING OF PIPING

(Direct Coupled Transmission Drawing)



Note: Make sure that the piping of check valve is horizontal.

TYPE SSR OUTLINE DIMENSIONAL (DIRECT COUPLING)



Unit mm

Type \ Mark	Bore	A	B	C	D	E	F	G	H	J
SSR-50	50A	570	179	135	895	152	230	540	420	60
SSR-65	65A	610	202	145	970	192	230	600	440	80
SSR-80	80A	700	225	165	1130	217	280	650	500	75
SSR-100	100A	900	265	175	1255	234	280	850	630	110
SSR-125	125A	945	294	205	1525	260	345	920	710	105
SSR-150	150A	1155	377	225	1745	305	385	1150	950	100
SSR-175	200A	1300	457	245	1765	305	505	1330	1030	150
SSR-200H	200A	1570	550	276	2230	405	593	1600	1300	150
Type \ Mark	Bore	K	L	M	N	O	P	Q	n-φ1	Weight
SSR-50	50A	-	-	260	220	122	20	80	4-φ14	72
SSR-65	65A	-	-	300	260	122	20	80	4-φ14	84
SSR-80	80A	-	-	370	330	147	20	80	4-φ19	132
SSR-100	100A	-	-	400	360	114	20	80	4-φ19	168
SSR-125	125A	355	355	430	390	175	20	100	6-φ19	245
SSR-150	150A	475	475	500	455	190	22.5	100	6-φ19	408
SSR-175	200A	515	515	500	455	310	22.5	100	6-φ19	505
SSR-200H	200A	650	650	650	605	348	22.5	126	6-φ19	900

TYPE SSR DIRECT COUPLING PERFORMANCE TABLE

SSR-50

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 50	50A	1450	0.10	9.8	1.66	0.50	80 ₂ -4	0.75
			0.15	14.7	1.58	0.67	80 ₂ -4	0.75
			0.20	19.6	1.54	0.82	90S-4	1.1
			0.25	24.5	1.46	0.98	90S-4	1.1
			0.30	29.4	1.40	1.14	90L-4	1.5
			0.35	34.3	1.34	1.30	90L-4	1.5
			0.40	39.2	1.30	1.47	100L1-4	2.2
			0.45	44.1	1.25	1.62	100L1-4	2.2
			0.50	49.0	1.20	1.79	100L1-4	2.2
			0.55	53.9	1.16	1.96	100L1-4	2.2
			0.60	58.8	1.14	2.15	100L2-4	3.0

SSR-125

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 125	125A	1450	0.10	9.8	9.72	3.45	132S-4	5.5
			0.15	14.7	9.50	4.25	132S-4	5.5
			0.20	19.6	9.35	5.20	132M-4	7.5
			0.25	24.5	9.25	6.15	132M-4	7.5
			0.30	29.4	9.15	7.10	132M-4	7.5
			0.35	34.3	9.05	8.05	160M-4	11
			0.40	39.2	8.95	9.00	160M-4	11
			0.45	44.1	8.85	9.90	160L-4	15
			0.50	49.0	8.77	10.90	160L-4	15
			0.55	53.9	8.70	11.80	160L-4	15
			0.60	58.8	8.60	12.80	160L-4	15

SSR-65

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 65	65A	1450	0.10	9.8	2.31	0.63	80 ₂ -4	0.75
			0.15	14.7	2.22	0.88	90S-4	1.1
			0.20	19.6	2.14	1.12	90L-4	1.5
			0.25	24.5	2.07	1.34	90L-4	1.5
			0.30	29.4	2.00	1.60	100L1-4	2.2
			0.35	34.3	1.93	1.85	100L1-4	2.2
			0.40	39.2	1.86	2.10	100L2-4	3.0
			0.45	44.1	1.80	2.32	100L2-4	3.0
			0.50	49.0	1.74	2.54	100L2-4	3.0
			0.55	53.9	1.69	2.78	112M-4	4.0
			0.60	58.8	1.63	3.00	112M-4	4.0

SSR-150

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 150	150A	1450	0.10	9.8	22.85	10.70	160L-4	15
			0.15	14.7	22.70	12.75	160L-4	15
			0.20	19.6	22.58	14.68	180M-4	18.5
			0.25	24.5	22.45	16.68	180M-4	18.5
			0.30	29.4	22.33	18.70	180L-4	22
			0.35	34.3	22.23	20.80	180L-4	22
			0.40	39.2	22.12	22.90	200L-4	30
			0.45	44.1	22.01	24.85	200L-4	30
			0.50	49.0	21.92	26.88	200L-4	30
			0.55	53.9	21.83	29.00	225S-4	37
			0.60	58.8	21.74	30.90	225S-4	37

SSR-80

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 80	80A	1450	0.10	9.8	4.04	1.39	100L1-4	2.2
			0.15	14.7	3.96	1.80	100L1-4	2.2
			0.20	19.6	3.86	2.15	100L2-4	3.0
			0.25	24.5	3.80	2.52	100L2-4	3.0
			0.30	29.4	3.74	2.85	112M-4	4.0
			0.35	34.3	3.66	3.21	112M-4	4.0
			0.40	39.2	3.58	3.57	132S-4	5.5
			0.45	44.1	3.50	3.95	132S-4	5.5
			0.50	49.0	3.43	4.29	132S-4	5.5
			0.55	53.9	3.36	4.66	132S-4	5.5
			0.60	58.8	3.30	5.02	132S-4	5.5

SSR-175

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 175	200A	1450	0.10	9.8	34.09	13.35	160L-4	15
			0.15	14.7	33.70	16.40	180M-4	18.5
			0.20	19.6	33.38	19.32	180L-4	22
			0.25	24.5	33.07	22.31	200L-4	30
			0.30	29.4	32.79	25.32	200L-4	30
			0.35	34.3	32.54	28.43	225S-4	37
			0.40	39.2	32.29	31.52	225S-4	37
			0.45	44.1	32.05	34.46	225S-4	37
			0.50	49.0	31.84	37.49	225M-4	45
			0.55	53.9	31.63	40.61	225M-4	45
			0.60	58.8	31.43	43.49	225M-4	45

SSR-100

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 100	100A	1450	0.10	9.8	6.49	2.17	100L2-4	3.0
			0.15	14.7	6.34	2.76	100L2-4	3.0
			0.20	19.6	6.21	3.38	112M-4	4.0
			0.25	24.5	6.08	3.95	132S-4	5.5
			0.30	29.4	5.96	4.59	132S-4	5.5
			0.35	34.3	5.85	5.20	132M-4	7.5
			0.40	39.2	5.74	5.83	132M-4	7.5
			0.45	44.1	5.64	6.48	132M-4	7.5
			0.50	49.0	5.54	7.05	160M-4	11
			0.55	53.9	5.44	7.69	160M-4	11
			0.60	58.8	5.35	8.39	160M-4	11

SSR-200H

Type	Bore	rpm	kgf/cm ²	kpa	Qs m ³ /min	La kw	Motor Frame Size	KW
SSR 200	200A	1480	0.10	9.8	59.20	23.80	200L-4	30
			0.15	14.7	58.83	28.96	200L-4	30
			0.20	19.6	58.46	34.37	225S-4	37
			0.25	24.5	58.24	40.42	225M-4	45
			0.30	29.4	58.02	46.58	250M-4	55
			0.35	34.3	57.89	53.36	250M-4	55
			0.40	39.2	57.76	58.19	280S-4	75
			0.45	44.1	57.57	63.62	280S-4	75
			0.50	49.0	57.37	68.98	280S-4	75
			0.55	53.9	57.22	74.22	280M-4	90
			0.60	58.8	57.08	80.18	280M-4	90

TYPE SSR HIGH PRESSURE SPECIFICATIONS

- Major Specifications of Type SSR-H

Bore : 50 to 250A
 Air Capacity : 0.8 to 8V0m³/min
 Pressure : 0.1-0.8kgf/cm²
 Motor Power : 0.75-160kw

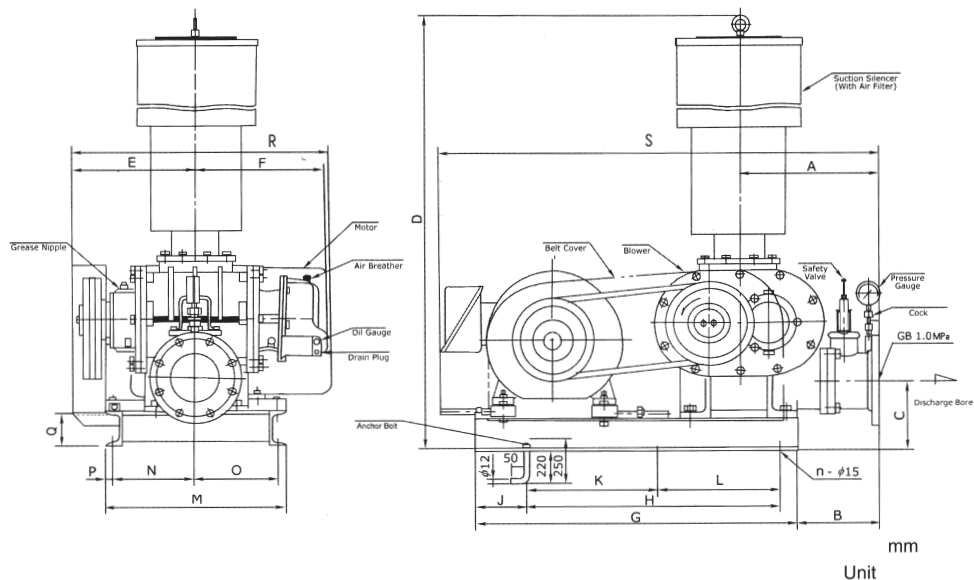
- Standard Accessories

Common Base
 V-belt Cover
 Blower Pulley, Motor Pulley
 V-belt
 Suction Silencer (With Air Filter)
 Safety Valve
 Pressure Gauge
 Lubricating Oil
 Anchor Bolt

1. The performance tables and standardized specifications are made available for all types to allow easy selection of one in need.
2. The blowers including accessories are standardized and are under the mass production control so as to be able to correspond to the orders and needs at any time.
3. The operation noise is lowered to the level not ever achieved by adopting, in addition to the helical contruction, a silent air cleaner as appropriate to each type of the blowers.
4. The rotor is a precision product machined in its full surface, and since it is dynamically balanced in the shop completely, it will have almost no vibration.
5. The blowers require only a small area for installation due to a compact design.

TYPE SSR-H OUTLINE DIMENSIONS

TYPE SSR-H OUTLINE DIMENSIONS



Type \ Mark	Bore	A	B	C	D	E	F	G	H	J	K
SSR-50H	50A	230	130	125	900	185	179	600	450	100	∅
SSR-65H	65A	230	130	135	975	205	202	650	470	100	∅
SSR-80H	80A	280	170	150	1135	220	225	710	530	100	∅
SSR-100H	100A	280	155	160	1255	270	265	780	630	100	∅
SSR-125HB	125A	355	205	190	1515	354	294	900	700	110	350
SSR-150HB	150A	400	235	210	1730	453	377	1100	840	160	420
SSR-200HB	200A	591	378	256	2210	579	550	1320	1000	180	500
SSR-250HB	250A	700	490	350	2400	714	612.5	1670	1160	300	580
Type \ Mark	Bore	L	M	N	O	P	Q	n	R	S	Weight
SSR-50H	50A	∅	360	115	215	15	80	4	505	835	70
SSR-65H	65A	∅	375	135	210	15	80	4	545	835	81
SSR-80H	80A	∅	470	130	310	15	80	4	678	943	123
SSR-100H	100A	∅	535	170	335	15	80	4	710	985	157
SSR-125HB	125A	350	555	185	330	20	100	6	810	1235	245
SSR-150HB	150A	420	720	245	435	20	100	6	1045	1335	406
SSR-200HB	200A	500	810	350	410	25	126	6	1215	1850	880
SSR-250HB	-	580	1020	509	460	-	-	-	1350	2285	-

Note: The weights given do not include the motor.

TYPE SSR-H PERFORMANCE TABLE

1.5KW 2.2KW 3KW 4KW 5.5KW 7.5KW 11KW 15KW 18.5KW

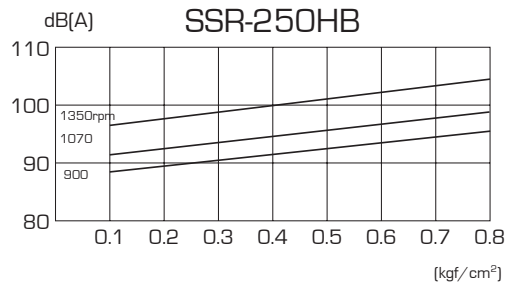
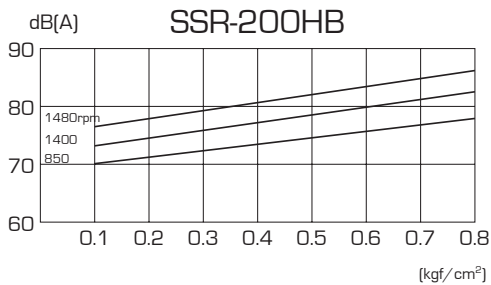
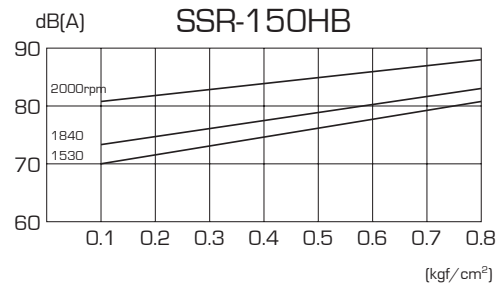
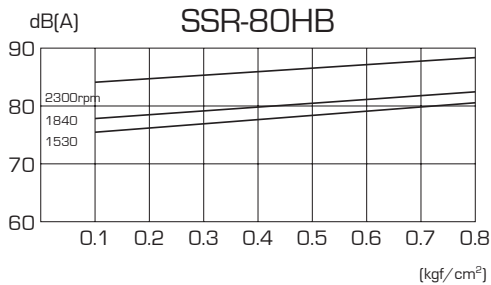
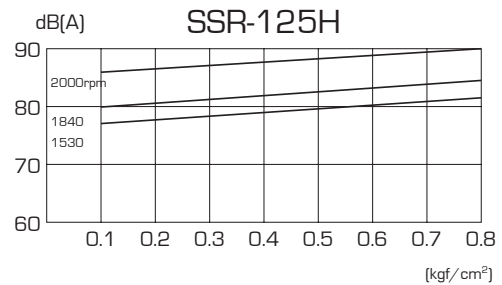
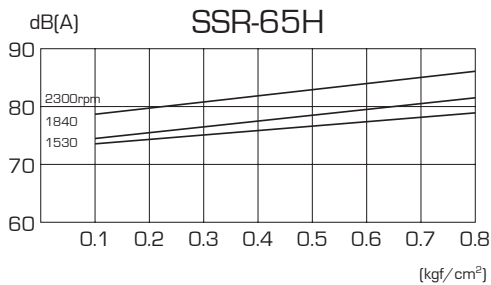
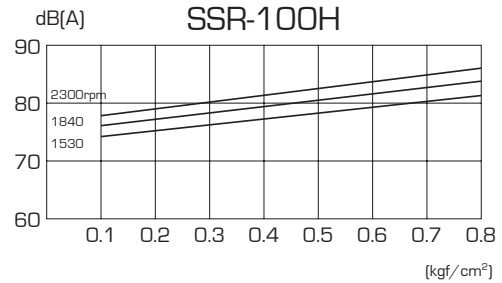
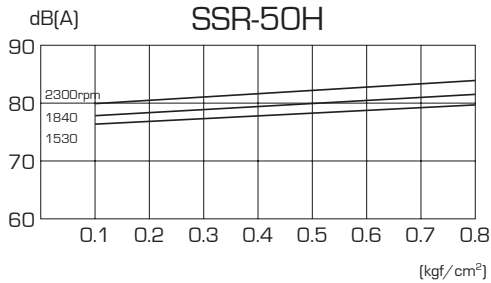
Type	Bore	rpm	Discharge Pressure																rpm
			0.30		0.40		0.50		0.60		0.65		0.70		0.75		0.80		
			29.4kPa		39.2kPa		49kPa		58.8kPa		63.7kPa		68.6kPa		73.5kPa		78.4kPa		
			Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	
SSR 50H	50A	1530	1.52	1.34	1.42	1.69	1.34	2.03	1.27	2.38	1.24	2.56							1530
		1640	1.67	1.47	1.58	1.84	1.50	2.21	1.42	2.58	1.39	2.77							1640
		1730	1.80	1.57	1.70	1.96	1.62	2.36	1.55	2.75	1.51	2.95							1730
		1840	1.95	1.71	1.86	2.12	1.78	2.54	1.07	2.96	1.66	3.17	1.62	3.38					1840
		1950	2.11	1.85	2.01	2.29	1.93	2.73	1.85	3.18	1.81	3.41	1.77	3.63					1950
		2120	2.34	2.07	2.25	2.55	2.17	3.03	2.09	3.52	2.05	3.76	2.01	3.99	1.97	4.20			2120
		2300	2.59	2.33	2.50	2.84	2.42	3.35	2.34	3.86	2.30	4.11	2.26	4.37	2.22	4.59	2.18	4.80	2300
SSR 65H	65A	1530	2.14	1.72	2.02	2.25	1.90	2.72	1.79	3.20									1530
		1640	2.36	1.89	2.24	2.46	2.12	2.95	2.01	3.46	1.96	3.86							1640
		1740	2.56	2.04	2.44	2.64	2.32	3.16	2.21	3.70	2.16	4.11							1740
		1820	2.72	2.16	2.60	2.79	2.48	3.33	2.37	3.90	2.32	4.37	2.26	4.66					1820
		1940	2.96	2.35	2.83	3.02	2.71	3.59	2.61	4.20	2.56	4.70	2.50	5.01					1940
		2130	3.33	2.65	3.21	3.35	3.09	4.00	2.99	4.66	2.94	5.20	2.88	5.55	2.83	5.88			2130
		2300	3.51	2.94	3.38	3.83	3.28	4.49	3.16	5.33	3.11	5.70	3.07	6.12	3.02	6.56	2.97	6.88	2300
SSR 80H	80A	1460	3.65	3.11	3.49	3.88	3.34	4.64	3.20	5.40	3.13	5.78	3.06	6.16					1460
		1560	3.98	3.35	3.82	4.17	3.67	4.99	3.53	5.79	3.46	6.19	3.39	6.59	3.32	6.99			1560
		1650	4.28	3.56	4.12	4.44	3.96	5.30	3.82	6.15	3.75	6.58	3.68	7.00	3.61	7.43			1650
		1730	4.55	3.76	4.39	4.97	4.23	5.57	4.09	6.47	4.02	6.92	3.95	7.37	3.88	7.82	3.81	8.27	1730
		1820	4.84	3.97	4.68	4.94	4.52	5.88	4.38	6.82	4.31	7.29	4.24	7.76	4.17	8.23	4.10	8.70	1820
		1900	5.11	4.16	4.95	5.17	4.79	6.16	4.65	7.40	4.58	7.63	4.51	8.12	4.44	8.61	4.37	9.10	1900
		2100	5.29	4.44	5.17	5.60	5.07	7.30	4.98	7.99	5.24	8.47	5.17	9.02	5.10	9.56	5.03	10.10	2100
		1230	5.88	4.89	5.76	6.19	5.66	7.51	5.57	8.83	5.90	9.32	5.83	9.91	5.76	10.50	5.69	11.10	1230
SSR 100H	100A	1310	5.18	4.05	4.95	5.18	4.74	6.30	4.55	7.48	4.45	8.17	4.38	8.73					1310
		1460	6.00	4.62	5.78	5.87	5.58	7.10	5.39	8.45	5.30	9.21	9.83	9.83	5.11	10.46			1460
		1540	6.40	4.98	6.19	6.30	5.99	7.61	5.81	9.00	5.72	9.78	10.44	10.44	5.53	11.10			1540
		1680	7.13	5.62	6.92	7.08	6.73	8.50	6.55	10.03	6.46	10.79	11.51	11.51	6.28	12.23	6.19	12.95	1680
		1780	7.62	6.10	7.42	7.63	7.23	9.15	7.06	10.71	6.98	11.55	12.32	12.32	6.81	13.09	6.72	13.86	1780
		1880	8.15	6.55	7.95	8.18	7.77	9.80	7.60	11.42	7.52	12.28	13.08	13.08	7.35	13.89	7.26	14.69	1880
		1980	8.65	7.01	8.46	8.75	8.28	10.45	8.12	12.13	8.04	13.04	13.89	13.89	7.87	14.74	7.78	15.59	1980
		2100	9.28	7.57	9.09	9.34	8.91	11.10	8.75	12.93	8.67	13.83	14.73	14.73	8.50	15.64	8.41	16.54	2100
		2300	9.81	8.07	9.62	9.92	9.44	11.76	9.28	13.60	9.19	14.55	15.49	15.49	9.02	16.44	8.94	17.38	2300

TYPE SSR-H PERFORMANCE TABLE

7.5KW 11KW 15KW 18.5KW 22KW 30KW 37KW 45KW 55KW
 75KW 90KW 110KW 132KW 160KW

Type	Bore	rpm	Discharge Pressure																rpm
			0.30		0.40		0.50		0.60		0.65		0.70		0.75		0.80		
			29.4kPa		39.2kPa		49kPa		58.8kPa		63.7kPa		68.6kPa		73.5kPa		78.4kPa		
			Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	
SSR 125HB	125A	1200	7.45	5.50	7.25	7.10	7.00	8.65	6.88	10.25	6.80	11.03	6.72	11.80	6.64	12.58	6.56	13.35	1200
		1310	8.19	6.20	8.00	7.90	7.82	9.65	7.64	11.40	7.56	12.25	7.48	13.10	7.40	13.95	7.32	14.80	1310
		1390	8.74	6.70	8.54	8.50	8.37	10.35	8.20	12.20	8.12	13.11	8.04	14.02	7.95	14.93	7.87	15.84	1390
		1450	9.15	7.10	8.95	9.00	8.77	10.90	8.60	12.80	8.52	13.75	8.43	14.69	8.35	15.64	8.26	16.58	1450
		1530	9.70	7.65	9.50	9.60	9.33	11.60	9.15	13.60	9.07	14.60	8.98	15.60	8.89	16.60	8.80	17.60	1530
		1630	10.37	8.35	10.17	10.35	10.01	12.40	9.85	14.60	9.77	15.68	9.67	16.76	9.58	17.84	9.48	18.92	1630
		1750	11.18	9.18	10.99	11.26	10.83	13.38	10.66	15.80	10.57	16.92	10.47	18.04	10.38	19.16	10.28	20.28	1750
		1850	11.85	9.88	11.66	12.02	11.50	14.20	11.34	16.85	11.25	18.03	11.15	19.21	11.06	20.39	10.96	21.47	1850
		2000	12.85	11.09	12.66	13.60	12.50	16.21	12.34	18.76	12.25	20.04	12.15	21.33	12.06	22.61	11.96	23.90	2000
SSR 150HB	150A	860	12.03	9.30	11.75	11.70	11.54	14.25	11.27	16.80	11.14	17.79	11.01	18.99	10.88	20.19	10.75	21.39	860
		970	13.95	11.05	13.70	13.80	13.50	16.60	13.23	19.40	13.10	21.47	12.97	22.91	12.84	24.36	12.71	25.80	970
		1110	16.37	13.10	16.15	16.50	15.95	19.60	15.70	22.80	15.57	25.09	15.44	26.76	15.31	28.43	15.18	30.09	1110
		1180	17.59	14.40	17.37	17.80	17.17	21.10	16.97	24.40	16.84	26.36	16.71	28.24	16.58	30.13	16.45	31.82	1180
		1240	18.63	15.40	18.43	18.90	18.23	22.40	18.03	25.80	17.90	27.75	17.77	29.58	17.64	31.41	17.51	33.19	1240
		1400	21.40	17.90	21.20	21.90	21.05	25.80	20.87	29.70	20.69	33.36	20.61	35.88	20.48	37.99	20.35	40.11	1400
		1520	23.40	20.15	23.21	24.60	23.04	28.90	22.82	33.30	22.69	35.77	22.54	38.16	22.41	40.43	22.28	42.71	1520
		1620	24.86	22.60	24.68	27.40	24.48	32.05	24.27	36.90	24.14	40.05	24.01	43.34	23.88	45.81	23.75	48.28	1620
		1730	26.48	25.30	26.27	30.40	26.08	35.55	25.87	40.80	25.74	44.83	25.61	47.61	25.48	50.29	25.35	52.97	1730
1900	29.13	28.96	28.94	34.56	28.75	40.34	28.56	45.16	28.37	47.85	28.18	50.52	27.99	53.38	27.90	56.41	1900		
SSR 200HB	200A	810	29.55	20.68	28.89	26.94	28.22	33.16	27.63	39.05	27.28	47.32	26.95	45.38	26.64	48.50	26.35	51.75	810
		900	33.66	24.00	33.05	30.93	32.34	37.83	31.70	44.38	31.47	47.66	31.16	51.25	30.83	54.50	30.52	57.83	900
		980	37.34	27.18	36.77	34.55	36.03	42.02	35.34	49.38	35.03	53.01	34.70	56.78	34.36	60.58	34.03	64.25	980
		1070	41.44	30.03	40.97	38.68	40.15	46.82	39.42	54.95	39.37	58.85	39.15	63.75	38.95	67.35	38.77	71.46	1070
		1150	45.07	32.71	44.60	42.02	43.78	50.98	43.06	59.74	43.01	64.35	42.76	68.65	42.47	73.36	42.23	77.69	1150
		1230	48.22	36.26	47.78	46.08	47.78	55.53	46.44	64.80	46.42	69.39	46.21	74.26	46.02	78.81	45.85	83.56	1230
		1310	51.38	39.66	50.99	50.18	50.40	59.96	49.83	69.72	49.73	74.82	49.51	79.78	49.30	84.72	49.15	89.74	1310
		1390	54.49	42.92	54.16	54.22	53.68	64.48	53.24	74.60	53.37	79.65	52.83	84.91	52.71	90.25	52.58	95.58	1390
		1480	58.02	46.58	57.76	58.19	57.37	68.98	57.08	80.18	56.97	85.68	56.85	91.36	56.71	96.78	56.56	102.45	1480
SSR 250HB	250A	900	58.68	17.18	56.00	27.78	54.18	37.65	52.72	48.50	51.20	60.00	50.18	69.30	48.70	80.00	47.61	89.25	900
		980	64.75	17.80	62.63	29.76	60.00	40.48	58.30	52.40	57.12	64.73	56.08	75.36	55.00	86.77	53.96	95.85	980
		1070	71.50	19.00	68.80	31.86	66.70	43.80	65.23	56.95	63.68	70.00	62.66	81.85	61.68	94.00	60.75	105.50	1070
		1160	78.36	20.00	75.33	34.06	73.62	47.10	71.98	61.30	70.47	75.30	69.36	87.30	68.30	101.26	66.70	114.00	1160
		1240	84.60	21.30	81.40	35.90	79.68	50.00	77.72	65.28	76.50	80.00	75.36	94.36	74.10	107.90	72.93	122.00	1240
		1350	92.60	22.60	89.36	37.40	87.60	53.75	86.26	70.93	84.75	86.50	83.35	102.3	81.76	115.00	80.30	132.00	1350

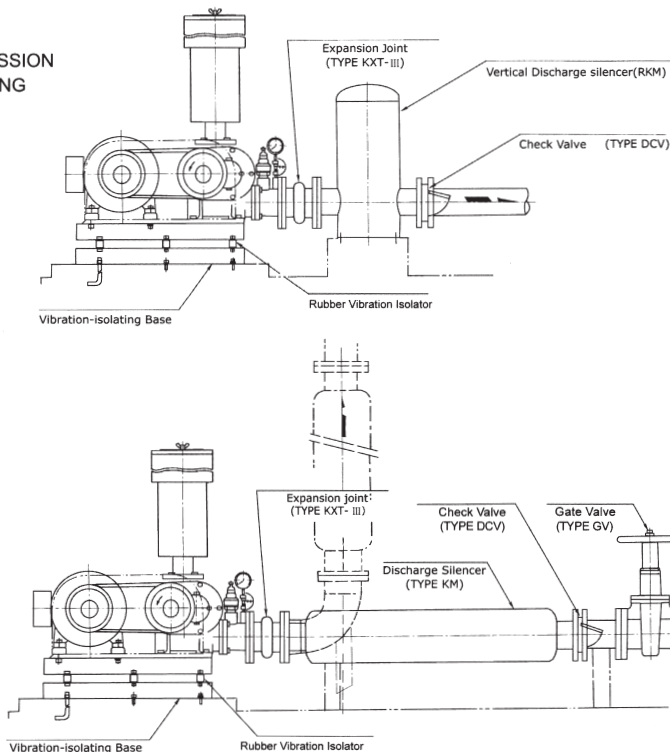
TYPE SSR-H NOISE LEVEL



NOISE LEVEL dB(A) Machine
Side 1.0m

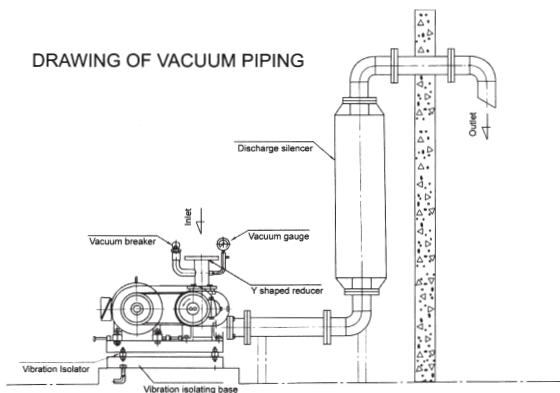
REFERENCE DRAWING OF PIPING FOR TYPE SSR-H

PULLEY TRANSMISSION
DRAWING OF PIPING

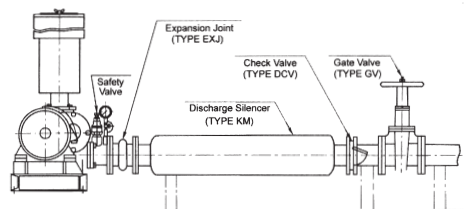


Note: Make sure that the piping of Check valve type DCV is horizontal

DRAWING OF VACUUM PIPING



COUP LING TRANSMISSION DRAWING OF PIPING



Note: Make sure that the piping of check valve is horizontal.

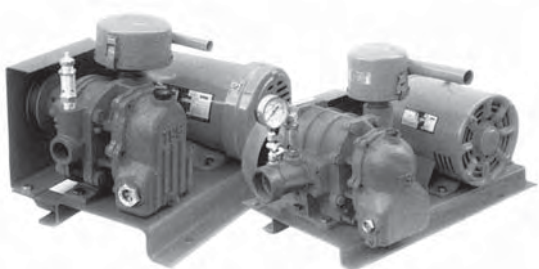
TYPE TSS & TSA

DESCRIPTION

The three-lobe helical roots type rotary blower Type TS is an epoch-making displacement blower which has been developed successfully from a completely new concept by utilizing a combination of the excellent process capability and innovated techniques.

These blowers fall under the very small volume class of roots type, but are given adequate considerations to details in order to provide high efficiency so that this type has superior properties of constant air capacity and low noise.

TYPES TSS, TSA SPECIFICATIONS



Major Specifications of Type TSA

Bore	: 1-1/2 to 2-1/2 B (40 to 65A)
Air Capacity	: 0.3 to 2.7m ³ /min.
Pressure	: 0.1 to 0.5 kgf/m ²
Motor Power	: 0.75 to 3.7kw

Major Specifications of Type TSS

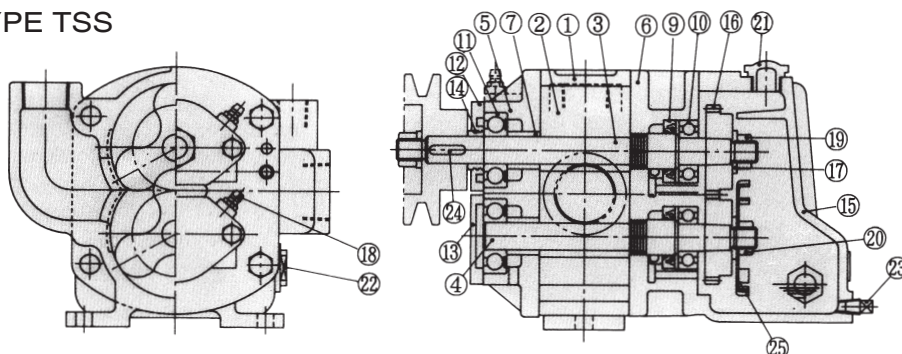
Bore	: 3/4 to 1-1/4B (20 to 32A)
Air Capacity	: 100 to 600 /min.
Pressure	: 0.1 to 0.4kgf/m ²
Motor Power	: 0.4 to 0.75kw

Standard Accessories

- Common Base
- V-belt Cover
- Blower Pulley, Motor Pulley,
- V-belt
- Silent Air Cleaner
- Safety Valve
- Pressure Gauge (TSA Only)
- Lubricating Oil
- Anchor Bolt

TYPES TSS, TSA SECTIONAL DRAWING

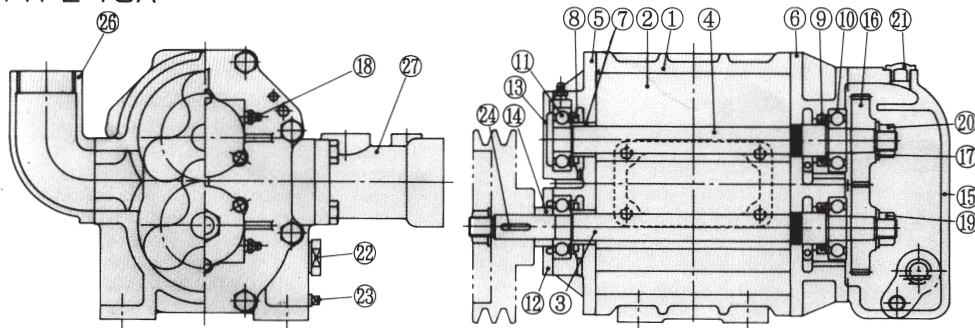
TYPE TSS



TYPES TSS, TSA SECTIONAL DRAWING

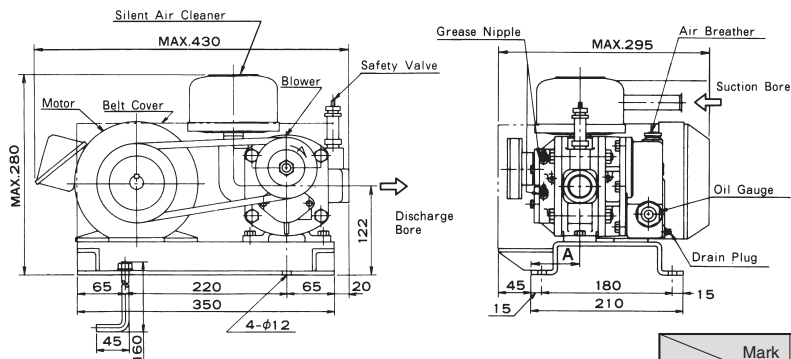
No.	Description	Material	Q'ty	No.	Description	Material	Q'ty	No.	Description	Material	Q'ty
1	Casing	FC200	1	10	Bearing	SUJ2	2	19	Hexagon Nut	SS400	1
2	Impeller	FC200	2	11	Bearing	SUJ2	2	20	Hexagon Nut	SS400	1
3	Drive Shaft	S45C	1	12	Bearing Cover (Drive Side)	FC200	1	21	Air Breather	Plastics	1
4	Driven Shaft	S45C	1	13	Bearing Cover (Drive Side)	FC200	1	22	Oil Gauge	SS-Glass	1
5	Side Cover (Drive Side)	FC200	1	14	Collar	SS400	1	23	Drain Plug	FCMB	1
6	Side Cover (Gear Side)	FC200	1	15	Gear Case	FC200	1	24	Parallel Key	S50C	1
7	Bearing Sleeve	S45C	2	16	Gear	SCM415	2	25	Splasher	SS400	1
8	Rubber Ring	NBR	2	17	Plain Washer	SPCC	2	26	Reducer (Suction Side)	FC200	1
9	Oil Seal	NBR	2	18	Grease Nipple	C3604	2	27	Reducer (Suction Side)	FC200	1

TYPE TSA



TYPES TSS, TSA OUTLINE DIMENSIONS

TYPE TSS



Note: The weights given do not include the motor.

Type \ Mark		Bore	A	Unit mm
				(kg) Weight
TSS-20	Rc 3/4	60	19	
TSS-25	Rc 1	67	20	
TSS-32	Rc 1 1/4	82	22	

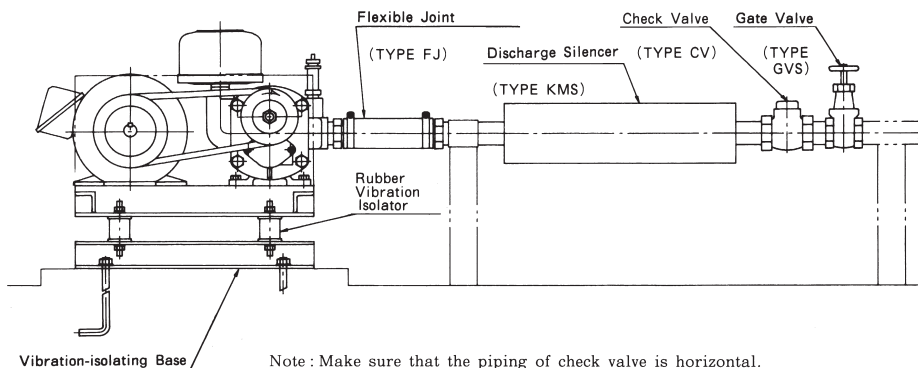
TYPES TSA PERFORMANCE TABLE

0.75KW 1.5KW
2.2KW 3.7KW

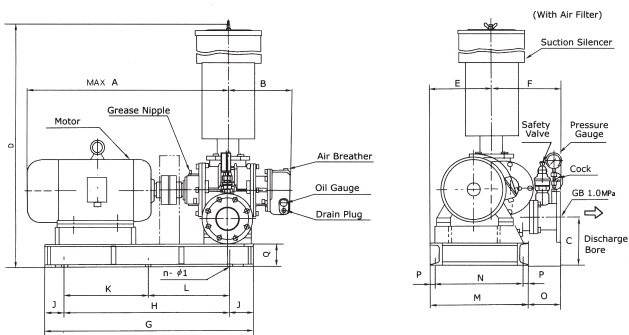
Qs : Suction-phase Air Volume (m³/min)
La : Required electric power (kw)

Type	Bore	rpm	Discharge Pressure (kgf/m ²)																	
			0.10		0.15		0.20		0.25		0.30		0.35		0.40		0.45		0.50	
			9.8kPa		14.7kPa		19.6kPa		24.5kPa		29.4kPa		34.3kPa		39.2kPa		44.1kPa		49.0kPa	
			Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
TSA-40	1½B (40A)	1000	0.45	0.32	0.42	0.36	0.39	0.40	0.36	0.46	0.33	0.52								
		1250	0.65	0.40	0.62	0.45	0.59	0.50	0.56	0.58	0.53	0.65	0.51	0.73	0.48	0.80	0.46	0.90	0.43	0.99
		1500	0.84	0.48	0.81	0.54	0.78	0.60	0.75	0.69	0.72	0.78	0.70	0.87	0.67	0.96	0.65	1.07	0.62	1.18
		1750	1.04	0.56	1.01	0.63	0.98	0.70	0.95	0.81	0.92	0.91	0.90	1.01	0.87	1.11	0.85	1.25	0.82	1.38
TSA-50	2B (50A)	1000	0.82	0.64	0.78	0.72	0.73	0.80	0.69	0.92	0.65	1.04	0.61	1.16	0.57	1.28				
		1250	1.22	0.80	1.18	0.90	1.13	1.00	1.09	1.15	1.05	1.30	1.01	1.45	0.97	1.60	0.93	1.79	0.89	1.97
		1500	1.61	0.96	1.57	1.08	1.52	1.20	1.48	1.38	1.44	1.56	1.40	1.74	1.36	1.92	1.32	2.14	1.28	2.36
		1750	2.01	1.12	1.97	1.26	1.92	1.40	1.88	1.61	1.84	1.82	1.80	2.02	1.76	2.22	1.72	2.49	1.68	2.76
TSA-65	2½B (65A)	1000	1.19	0.80	1.07	0.90	0.94	1.00	0.85	1.15	0.75	1.30	0.67	1.45	0.59	1.60				
		1250	1.69	1.00	1.57	1.13	1.45	1.25	1.36	1.44	1.26	1.63	1.18	1.82	1.10	2.00	1.05	2.23	0.99	2.45
		1500	2.18	1.20	2.06	1.35	1.93	1.50	1.84	1.73	1.74	1.95	1.66	2.18	1.58	2.40	1.53	2.68	1.47	2.95
		1750	2.68	1.40	2.56	1.58	2.43	1.75	2.34	2.02	2.24	2.28	2.16	2.53	2.08	2.78	2.03	3.12	1.97	3.45

TSS, Reference Drawing of Piping for Type TSS



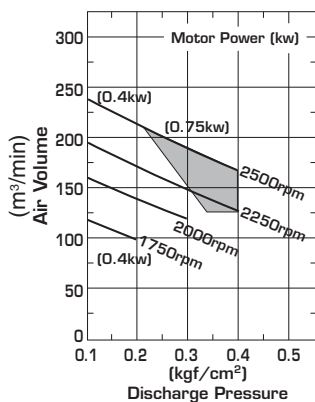
TSA, Reference Drawing of Piping for Type TSA



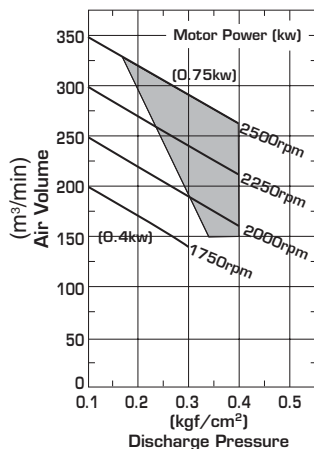
PERFORMANCE CURVE

TSS

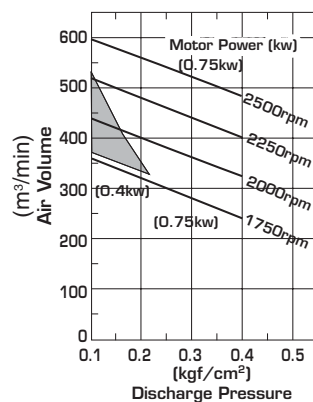
TSS-20



TSS-25

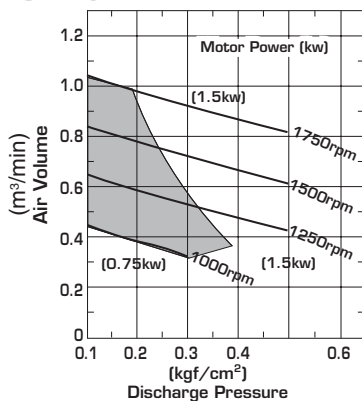


TSS-32

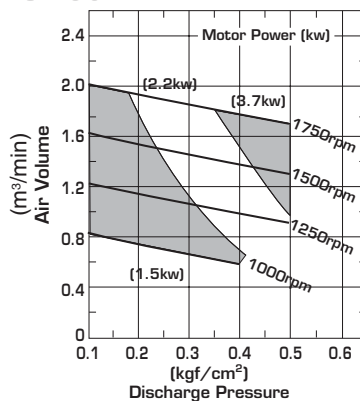


TSA

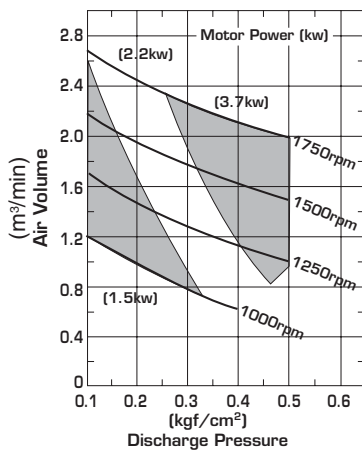
TSA-40



TSA-50

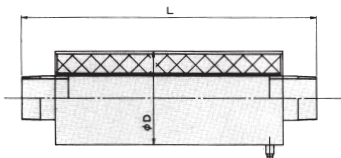


TSA-65



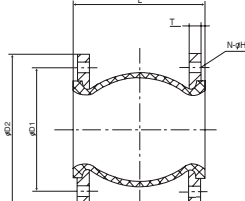
TYPES TSS, TSA, SSR ACCESSORIES

Discharge Silencer (KMS)



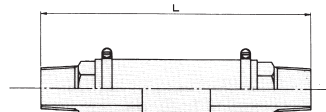
Type	Bore	D	L	(kg) Weight
KMS-20	R $\frac{1}{4}$	89	440	3.6
KMS-25	R1	89	440	4.0
KMS-32	R1 $\frac{1}{2}$	102	490	5.1
KMS-40	R1 $\frac{1}{2}$	115	490	6.2
KMS-50	R2	134	530	8.3
KMS-65	R2 $\frac{1}{2}$	160	620	13.0

Series Resilient Connect (K x 7)



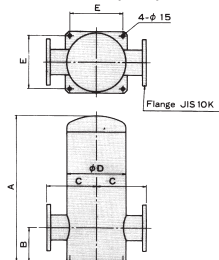
Type	Bore	D1	D2	L	T	n-φH	Weight
50	50A	126	165	105	18	4-φ17.5	3.0
65	65A	145	185	115	20	4-φ17.5	3.5
80	80A	160	200	135	20	8-φ17.5	4.0
100	100A	180	220	150	22	8-φ17.5	5.0
125	125A	210	260	165	24	8-φ22.0	6.5
150	150A	240	285	180	24	8-φ22.0	9.5
200	200A	295	340	240	24	8-φ22.0	16.0

Flexible Joint (FJ)



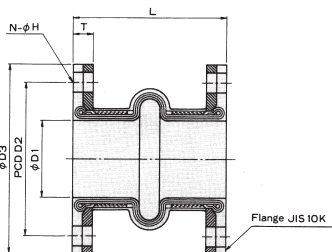
Type	Bore	L	(kg) Weight
FJ-20	R $\frac{3}{4}$	170	0.26
FJ-25	R1	200	0.46
FJ-32	R1 $\frac{1}{2}$	200	0.62
FJ-40	R1 $\frac{1}{2}$	250	1.02
FJ-50	R2	280	1.54
FJ-65	R2 $\frac{1}{2}$	310	2.42

Vertical Discharge Silencer (RKM)



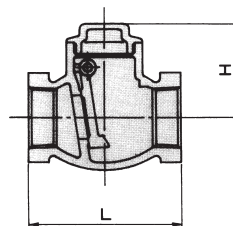
Type	Bore	A	B	C	D	F	G	n-φH	Weight
RKM-50	50A	420	120	150	140	130	125	4-φ19	15
RKM-65	65A	480	130	175	191	170	145	4-φ19	18
RKM-80	80A	595	145	200	216	190	160	8-φ19	27
RKM-100	100A	660	155	225	267	230	180	8-φ19	34
RKM-125	125A	800	190	250	280	240	210	8-φ23	58
RKM-150	150A	920	210	300	356	290	240	8-φ23	80

Expansion Joint (EXJ)



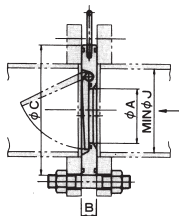
Type	Bore	D1	D2	D3	L	T	n-φH	(kg) Weight
EXJ-50	50A	51	120	155	150	18	4-φ19	3.0
EXJ-65	65A	64	140	175	150	18	4-φ19	3.5
EXJ-80	80A	76	150	185	150	18	8-φ19	4.0
EXJ-100	100A	102	175	210	150	19	8-φ19	5.0
EXJ-125	125A	127	210	250	150	19	8-φ23	6.5
EXJ-150	150A	152	240	280	200	19	8-φ23	9.5
EXJ-200	200A	203	290	330	200	24	12-φ23	12.0

Check Valve (CV)



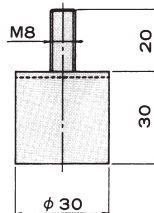
Type	Bore	L	H	(kg) Weight
CV-20	Rc $\frac{1}{4}$	65	40	0.34
CV-25	Rc1	75	47	0.50
CV-32	Rc1 $\frac{1}{2}$	90	63	0.98
CV-40	Rc1 $\frac{1}{2}$	100	65	1.07
CV-50	Rc2	120	75	1.71
CV-65	Rc2 $\frac{1}{2}$	150	85	3.02

Check Valve (DCV)

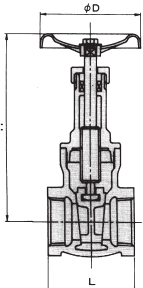


Type	Bore	A	B	C	J	Fixing Bolt Size (Number)	(kg) Weight
DCV-50	50A	25	19	104	52.7	M16 x86 (4)	1.1
DCV-65	65A	36	19	124	65.9	M16 x108 (4)	1.4
DCV-80	80A	46	19	134	78.1	M16 x108 (8)	1.6
DCV-100	100A	67	19	159	102.3	M16 x108 (8)	2.3
DCV-125	125A	88	21	190	126.6	M20 x115 (8)	3.4
DCV-150	150A	108	24	220	151	M20 x120 (8)	5.0
DCV-200	200A	138	29	270	200	M20 x200 (8)	1.0

Rubber Vibration Isolator (TSS)

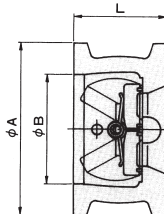


Gate Valve (GVS)



Type	Bore	L	H	D	(kg) Weight
GVS-20	Rc $\frac{1}{4}$	49	80	56	0.4
GVS-25	Rc1	54	98	63	0.6
GVS-32	Rc1 $\frac{1}{2}$	57	105	70	0.8
GVS-40	Rc1 $\frac{1}{2}$	63	128	79	1.1
GVS-50	Rc2	72	145	89	1.7
GVS-65	Rc2 $\frac{1}{2}$	82	185	111	3.1

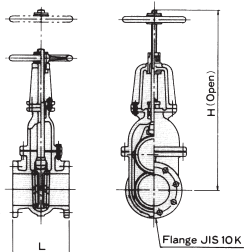
Check Valve (K)



Type	Bore	A	B	L	(kg) Weight	Fixing Bolt Size (Number)
K-50	50A	101	60	54	3	M16 x135 (4)
K-65	65A	121	73	54	4	M16 x135 (4)
K-80	80A	131	89	57	5	M16 x135 (8)
K-100	100A	156	114	64	6	M16 x145 (8)
K-125	125A	187	141	70	9	M20 x160 (8)
K-150	150A	217	168	76	10	M20 x170 (8)

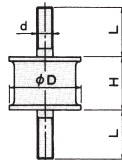
TYPES TSS, TSA, SSR ACCESSORIES

Gate Valve (GV)



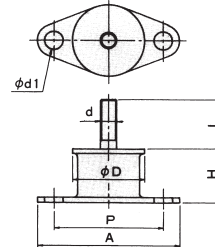
Type	Bore	L	H	(kg) Weight
GV-50	50A	180	381	18
GV-65	65A	190	428	24
GV-80	80A	200	493	27.7
GV-100	100A	230	588	43.5
GV-125	125A	250	689	61
GV-150	150A	270	798	82

Rubber Vibration Isolator
(TYPE A)



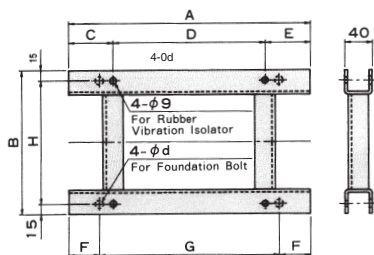
Type	D	H	L	d	Application Type
A-35B	35	36	23	M8	TSA
A-35	35	26	24	M8	SSR-50-80
A-40	40	25	30	M8	SSR-100, 125
A-50	50	27	30	M10	SSR-150
A-75	75	42	45	M12	SSR-200

Rubber Vibration Isolator (TYPE B)



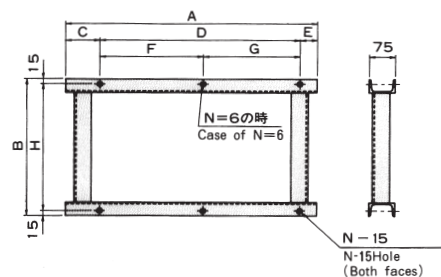
Type	D	H	L	d	dl	A	P	Application Type
B-35	35	26	24	M 8	9	69	53	SSR-50-80
B-40	40	25	30	M 8	9	76	60	SSR-100, 125
B-50	50	27	30	M10	11.5	93	73	SSR-150

Vibration-isolating Base (TSS,TSA)



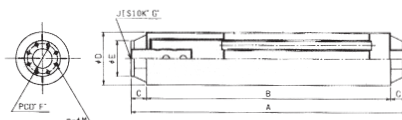
Application Type	A	B	C	D	E	F	G	H	d	(kg) Weight
TSS-20-32	350	210	65	220	65	45	260	180	12	2.7
TSA-40	550	250	150	320	80	115	320	220	15	4.0
TSA-50,65	600	280	175	370	55	115	370	250	15	4.5

Vibration-isolating Base(SSR)



Application Type	A	B	C	D	E	F	G	H	N	(kg) Weight
SSR-50	560	300	100	410	50	-	-	270	4	10
SSR-65	600	340	100	450	50	-	-	310	4	11
SSR-80	650	360	100	500	50	-	-	330	4	12
SSR-100	730	470	100	580	50	-	-	440	4	14
SSR-125	860	480	110	700	50	350	350	440	6	16
SSR-150	960	580	160	750	50	400	350	550	6	18
SSR-200	1280	750	180	1000	100	500	500	705	6	33

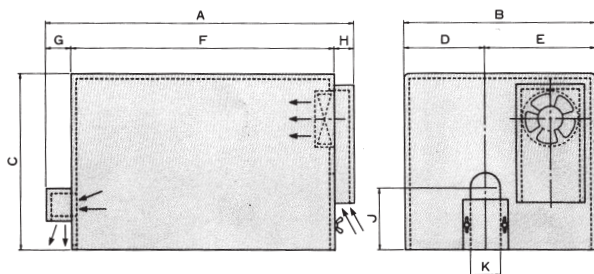
Discharge Silencer (KMB)



Type	Bore	A	B	C	D	E	F	N-φ	(kg) weight
KMB-50	50A	900	740	80	184	155	120	4-φ19	21
KMB-65	65A	1200	1020	90	233	175	140	4-φ19	38
KMB-80	80A	1400	1220	90	280	185	150	8-φ19	45
KMB-100	100A	1600	1420	90	310	210	175	8-φ19	65
KMB-125	125A	1800	1600	100	350	250	210	8-φ23	88
KMB-150	150A	1900	1680	110	450	280	240	8-φ23	135

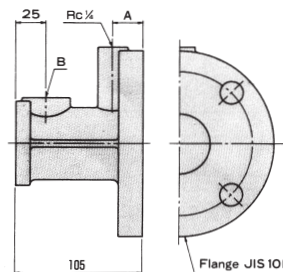
TYPES TSS, TSA, SSR ACCESSORIES

Silencer Box (With Fan)



Application Type	A	B	C	D	E	F	G	J	K	(kg) Weight
TSS-20, 25, 32	610	380	426	160	220	520	50	40	198	60
TSA-40, 50, 65	950	530	500	250	280	820	70	60	234	110

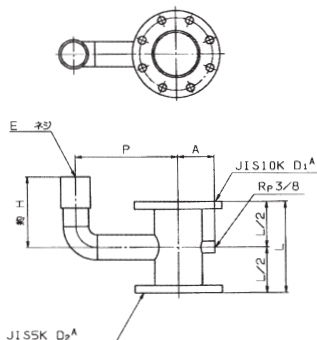
Flange Reducer (TSA)



Bore	A	B	(kg) Weight	Application Type
40A	25	Rc 1/4	3.2	TSA-40
50A	25	Rc 1/4	3.7	TSA-50
65A	27	Rc 1/4	4.6	TSA-65

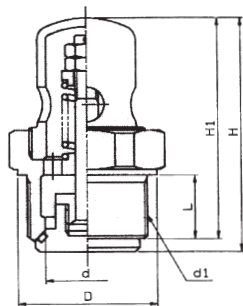
TYPE SSR VACUUM ACCESSORIES

Y shaped reducer (YSS)



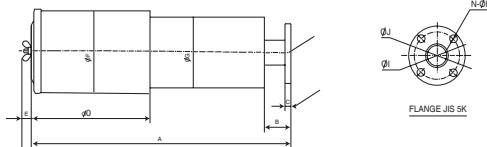
Type	D1	D2	E	L	H	P	A
YSS-50-25	50	40	G1	140	95	130	55
YSS-65-25	65	50	G1	160	105	140	60
YSS-80-32	80	65	G1 1/4	180	115	150	70
YSS-100-32	100	80	G1 1/4	200	125	160	75
YSS-125-50	125	100	G2	250	155	22	85
YSS-150-50	150	125	G2	260	160	27	100

Vacuum Breaker (VOCP-B)



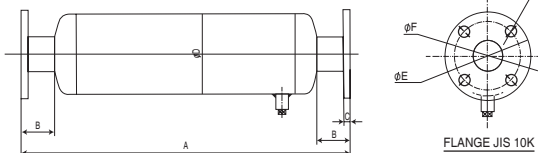
Bore	d	d1	D	L	H1	H
1	22	G1	40	20	69	73
1 1/4	30	G1 1/4	48	22	79	83
1 1/2	36	G1 1/2	54	22	83	88
2	46	G2	68	28	100	106
1 1/2	60	G1 1/2	83	30	114	120
3	72	G3	98	35	132	140
4	90	G4	125	40	172	180

Suction Silencer (KSE)



Type	Bore	A	B	C	D	E	F	G	I	J	n - ØH	Weight
XES-50	40A	547	55	12	250	18	165	140	95	120	4 - Ø15	7.5
KSE-65	50A	612	60	14	300	18	190	165	105	130	4 - Ø15	10
KSE-80	65A	702	70	14	350	22	242	216	130	155	4 - Ø15	15
XES-100	80A	800	90	14	400	22	267	242	145	180	4 - Ø19	20
KES-125	100A	972	90	16	550	22	319	268	165	200	8 - Ø19	27
KSE-150	125A	1102	90	16	600	27	356	319	200	235	8 - Ø19	38
KSE-200	200A	1450	110	20	750	47	440	380	280	320	8 - Ø23	60

Discharge Silencer (KM)



Type	Bore	A	B	C	D	E	F	n - ØH	Weight
KM-50	50A	600	60	16	140	120	155	4 - Ø19	10
KM-65	65A	700	70	16	165	140	175	4 - Ø19	14
KM-80	80A	900	80	18	190	150	185	8 - Ø19	18
KM-100	100A	1200	80	18	217	175	210	8 - Ø19	37
KM-125	125A	1400	95	20	261	210	250	8 - Ø23	44
KM-150	150A	1800	95	22	286	240	280	8 - Ø23	67
KM-200	200A	1800	110	22	320	290	330	12 - Ø23	80