

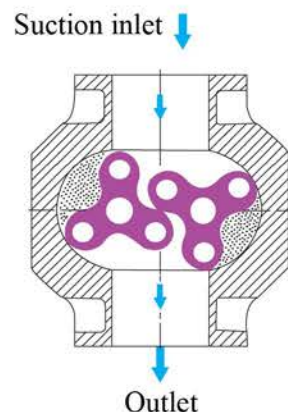
AIRFLOW

HIGH EFFICIENCY ROOTS BLOWER



Theory

ABH is a displacement blower, the pressure can be adjusted according to the requirement of the user in allowing range. There are two impellers in the blower body which rotate in the opposite direction, in order to let the impeller rotate, there are some tiny gaps between the impeller and body, impeller and impeller. When the impeller rotates through the suction inlet, it can gather an amount of air between the body and impeller, then the impeller goes on rotating, and the air will be pressured, the pressure in the body will rise, finally the air has been sent to the outlet.



Features

ABH series 3-lobe roots blowers are researched and developed on a basis of AB series. The biggest feature of this blower is high rotation speed (the maximum can be 400 RPM), high capacity. With the breakthrough of technology and the modification of practical application, ABH series blowers have higher efficiency, higher pressure and lower weight. The inlet sizes are from 2.5" to 12". The pressure of single blower can be 1 Kg/cm².

- High efficiency

Great liner structure, reduce sectional area of rotors to improve capacity of blowers.

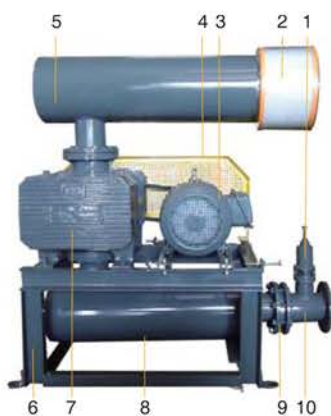
- Low vibration

High grade of balance accuracy (G2.5) can control the vibration of X, Y, Z coordinate.

- Low loss of pressure

180 degrees vertical structure between inlet and outlet, reduce its pressure loss of blowers.

Externality Construction



NO.	NAME
1	Safety Valve
2	Filter Barrel
3	Motor
4	Hood
5	Inlet Silencer
6	Bottom Case
7	Main Body
8	Outlet Silencer
9	Check Valve
10	T-Joint

Type Description

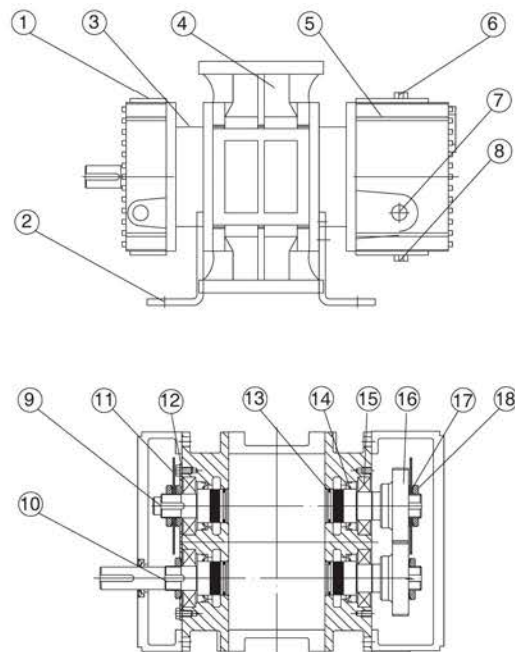
ABH - 50

DIAMETER (mm)

HIGH EFFICIENCY THREE-LOBE ROOTS BLOWER

Construction

NO.	NAME	MATERIAL
1	Oil Box	HT250
2	Foot	Q235
3	Bearing Housing	HT250
4	Casing	HT250
5	Gear Box	HT250
6	Lubrication Plug	45
7	Oil Gauge	
8	Purge Plug	45
9	Driven Rotor	
10	Drive Rotor	
11	Oil Splash	Q235
12	Bearing Washer	Q235
13	Piston Ring	HT-200
14	Framework Oil Seal	VITON
15	Bearing	SUJ2
16	Gear Box	20GrNmTi
17	Lock Washer	Q235
18	Lock Nut	45



Conversion Table

PRESSURE	atm	kPa	bar	lbt/in ² (psi)	kgf/cm ²	in Hg	ftAq	mmHg (Torr)	mmAq
1 atm	1	101.325	1.01325	14.696	1.0333	29.921	33.914	760	10333
1 kPa	0.0099	1	0.01	0.145	0.0101	0.295	0.335	7.5	102
1 bar	0.9869	100	1	14.504	1.0198	29.53	33.47	750	10198
1 lbt/in ² (psi)	0.068	6.894	0.0689	1	0.0703	2.036	2.308	51.71	703
1 kgf/cm ²	0.968	98.062	0.981	14.228	1	28.96	32.82	735.53	10000
1 in Hg	0.0334	3.3863	0.0339	0.491	0.0345	1	1.133	25.4	345.3
1 ftAq	0.0295	2.99	0.0299	0.434	0.0305	0.882	1	22.42	304.8
1 mmHg (Torr)	0.013	0.1338	0.00138	0.019	0.0014	0.04	0.045	1	13.6
1 mmAq	0.000097	0.0098	0.000098	0.0014	0.0001	0.003	0.0033	0.074	1

CAPACITY	m ³ /min	l/min	cm ³ /s	in ³ /s	ft ³ /min (cfm)
1 m ³ /min	1	1000	16667	1016	35.288
1 l/min	0.001	1	16.67	1.02	0.0353
1 cm ³ /s	0.00006	0.06	1	0.061	0.02
1 in ³ /s	0.00098	0.983	16.39	1	0.035
1 ft ³ /min (cfm)	0.028	28.32	471.95	28.8	1

Pressure Conversion Fomula

1 kPa = 1000 Pa = 1000 N/m²

1 mbar = 10.198 mmAq

1 mmHg (Torr) = 133.8 Pa

Working Directions of Performance Table

- The performance parameter indicate the type, caliber, revolutions, discharge pressure, actual inlet air capacity and shaft power of the blower.
- The performance parameter indicate the air quantity in standard suction condition (temperature 20°C, absolute pressure 1.0332 kgf/cm² and relative humidity 65%.
- The reference air capacity (temperature 0°C and absolute pressure 1.033 kgf/cm²) is generally indicated in Nm³/min.
- The inlet air capacity can be converted as following.
- The motor power is 1.1-1.3 multiple of shaft power.
- The error of the parameter is about 5%.

$$Q_2 = Q_1 \times \frac{P_1}{P_2} \times \frac{273+T_2}{273+T_1}$$

Q₁: Air capacity (m³/min) based on absolute pressure P₁ (mmAq) and temperature T₁ (°C)

Q₂: Air capacity (m³/min) based on absolute pressure P₂ (mmAq) and temperature T₂ (°C)

Performance Parameters

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq		9000mmAq		10000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABH-65	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	1.73	4.85	1.63	5.39
	2050	2.89	0.57	2.71	1.13	2.54	1.70	2.37	2.27	2.25	2.83	2.14	3.40	2.08	3.97	2.04	4.53	1.89	5.10	1.79	5.67
	2150	3.05	0.59	2.87	1.19	2.70	1.78	2.52	2.38	2.40	2.97	2.30	3.57	2.24	4.16	2.20	4.75	2.04	5.35	1.94	5.94
	2250	3.20	0.62	3.02	1.24	2.85	1.82	2.68	2.49	2.56	3.11	2.46	3.73	2.39	4.35	2.35	4.98	2.20	5.60	2.10	6.22
	2350	3.36	0.65	3.18	1.30	3.01	1.95	2.83	2.60	2.71	3.25	2.61	3.90	2.55	4.55	2.51	5.20	2.35	5.85	2.26	6.50
	2450	3.51	0.68	3.34	1.35	3.16	2.03	2.99	2.71	2.87	3.39	2.77	4.06	2.70	4.74	2.66	5.42	2.51	6.09	2.41	6.77
	2550	3.67	0.70	3.49	1.41	3.32	2.11	3.15	2.82	3.03	3.52	2.92	4.23	2.86	4.93	2.82	5.64	2.66	6.34	2.57	7.05
	2650	3.82	0.73	3.65	1.46	3.48	2.20	3.30	2.93	3.18	3.66	3.08	4.39	3.01	5.13	2.97	5.86	2.82	6.59	2.72	7.32
	2750	3.9	0.76	3.80	1.52	3.63	2.28	3.46	3.04	3.34	3.80	3.23	4.56	3.17	5.32	3.13	6.08	2.98	6.84	2.88	7.60
	2850	4.14	0.79	3.96	1.58	3.79	2.36	3.61	3.15	3.49	3.94	3.39	4.73	3.33	5.51	3.29	6.30	3.13	7.09	3.03	7.88
	2950	4.29	0.82	4.11	1.63	3.94	2.45	3.77	3.26	3.65	4.08	3.55	4.89	3.48	5.71	3.44	6.52	3.29	7.34	3.19	8.15
	3050	4.45	0.84	4.27	1.69	4.10	2.53	3.92	3.37	3.80	4.22	3.70	5.06	3.64	5.90	3.60	6.74	3.44	7.59	3.35	8.43
	3150	4.60	0.87	4.43	1.71	4.25	2.61	4.08	3.48	3.96	4.35	3.86	5.22	3.79	6.09	3.75	6.97	3.60	7.84	3.50	8.71
	3250	7.76	0.90	4.58	1.80	4.41	2.70	4.24	3.59	4.12	4.49	4.01	5.39	3.95	6.29	3.91	7.19	3.75	8.09	3.66	8.98
	3350	4.91	0.93	4.74	1.85	4.57	2.78	4.39	3.70	4.27	4.63	4.17	5.56	4.10	6.48	4.06	7.41	3.91	8.33	3.81	9.26
	3450	5.07	0.95	4.89	1.91	4.72	2.86	4.55	3.81	4.43	4.77	4.32	5.72	4.26	6.68	4.22	7.63	4.07	8.58	3.97	9.54
ABH-80	1950	4.88	0.90	4.80	1.80	4.74	2.70	4.71	3.59	4.71	4.49	4.70	5.39	4.71	6.29	4.70	7.19	4.70	8.09	4.71	8.98
	2050	5.14	0.94	5.06	1.89	5.00	2.83	4.97	3.78	4.97	4.72	4.96	5.67	4.97	6.61	4.96	7.56	4.96	8.50	4.97	9.44
	2150	5.40	0.99	5.32	1.98	5.26	2.97	5.23	3.96	5.23	4.95	5.21	5.94	5.23	6.93	5.22	7.92	5.22	8.91	5.23	9.90
	2250	5.66	1.04	5.58	2.07	5.52	3.11	5.48	4.15	5.49	5.18	5.47	6.22	5.49	7.26	5.48	8.29	5.48	9.33	5.49	10.37
	2350	5.92	1.08	5.84	2.17	5.78	3.25	5.74	4.33	5.75	5.41	5.73	6.50	5.74	7.58	5.74	8.66	5.74	9.74	5.75	10.83
	2450	6.18	1.13	6.10	2.26	6.04	3.39	6.00	4.51	6.01	5.64	5.99	6.77	6.00	7.90	6.00	9.03	6.00	10.16	6.01	11.29
	2550	6.44	1.17	6.36	2.35	6.30	3.52	6.26	4.70	6.27	5.87	6.25	7.05	6.26	8.22	6.26	9.40	6.26	10.57	6.26	11.75
	2650	6.70	1.22	6.62	2.44	6.56	3.66	6.52	4.88	6.53	6.10	6.51	7.32	6.52	8.55	6.52	9.77	6.52	10.99	6.52	12.21
	2750	6.96	1.27	6.88	2.53	6.82	3.80	6.78	5.07	6.79	6.33	6.77	7.60	6.78	8.87	6.78	10.14	6.78	11.40	6.78	12.67
	2850	7.22	1.31	7.14	2.63	7.07	3.94	7.04	5.25	7.05	6.56	7.03	7.88	7.04	9.19	7.03	10.50	7.04	11.82	7.04	13.13
	2950	7.48	1.36	7.40	2.72	7.33	4.08	7.30	5.44	7.31	6.80	7.29	8.15	7.30	9.51	7.29	10.87	7.30	12.23	7.30	13.59
	3050	7.74	1.41	7.66	2.81	7.59	4.22	7.56	5.62	7.57	7.03	7.55	8.43	7.56	9.84	7.55	11.24	7.56	12.65	7.56	14.05
	3150	8.00	1.45	7.92	2.90	7.85	4.35	7.82	5.80	7.83	7.26	7.81	8.71	7.82	10.16	7.81	11.61	7.82	13.06	7.82	14.51
	3250	8.26	1.50	8.18	2.99	8.11	4.49	8.08	5.99	8.09	7.49	8.07	8.98	8.08	10.48	8.07	11.98	8.08	13.48	8.08	14.97
	3350	8.52	1.54	8.44	3.09	8.37	4.63	8.34	6.17	8.35	7.72	8.33	9.26	8.34	10.80	8.33	12.35	8.34	13.89	8.34	15.43
	3450	8.78	1.59	8.74	3.18	8.63	4.77	8.60	6.36	8.61	7.95	8.59	9.54	8.60	11.13	8.59	12.71	8.59	14.30	8.60	15.89
	3550	9.04	1.64	8.96	3.27	8.89	4.91	8.86	6.54	8.87	8.18	8.85	9.81	8.86	11.45	8.85	13.08	8.85	14.72	8.86	16.35
	3650	9.30	1.68	9.22	3.36	9.15	5.04	9.12	6.73	9.13	8.41	9.11	10.09	9.12	11.77	9.11	13.45	9.11	15.13	9.12	16.82
	3750	9.56	1.73	9.48	3.46	9.41	5.18	9.38	6.91	9.38	8.64	9.37	10.37	9.38	12.09	9.37	13.82	9.37	15.55	9.38	17.28
	3850	9.81	1.77	9.73	3.55	9.67	5.32	9.64	7.09	9.64	8.87	9.63	10.64	9.64	12.42	9.63	14.19	9.63	15.96	9.64	17.74
	3950	10.07	1.82	9.99	3.94	9.93	5.46	9.90	7.28	9.90	9.10	9.89	10.92	9.90	12.74	9.89	14.56	9.89	16.38	9.90	18.20
	4050	10.33	1.87	10.25	3.73	10.19	5.60	10.16	7.40	10.16	9.33	10.14	11.19	10.16	13.06	10.15	14.93	10.15	16.79	10.16	18.66
	4150	10.59	1.91	10.51	3.82	10.45	5.74	10.42	7.65	10.42	9.56	10.40	11.47	10.42	13.38	10.41	15.29	10.41	17.21	10.42	19.12
	4250	10.85	1.96	10.77	3.92	10.71	5.87	10.67	7.83	10.68	9.79	10.66	11.75	10.67	13.71	10.67	15.66	10.67	17.62	10.68	19.58
	4350	11.11	2.00	11.03	4.01	10.97	6.01	10.93	8.02	10.94	10.01	10.92	12.02	10.93	14.03	10.93	16.03	10.93	18.04	10.94	20.04
	4450	11.37	2.05	11.29	4.10	11.23	6.15	11.19	8.20	11.20	10.25	11.18	12.30	11.19	14.35	11.19	16.40	11.19	18.45	11.10	20.50
ABH-100	2050	8.86	1.74	9.48	3.49	9.42	5.23	9.35	6.97	9.31	8.72	9.29	10.46	9.25	12.20	9.21	13.95	9.18	15.69	9.16	17.43
	2150	9.34	1.83	9.95	3.66	9.90	5.49	9.83	7.31	9.79	9.14	9.77	10.97	9.72	12.80	9.69	14.63	9.66	16.46	9.64	18.28
	2250	9.82	1.91	10.43	3.83	10.38	5.74	10.31	7.65	10.27	9.57	10.25	11.48	10.20	13.39	10.16	15.31	10.14	17.22	10.12	19.13
	2350	10.30	2.00	10.91	4.00	10.86	6.00	10.79	7.99	10.75	9.99	10.73	11.99	10.68	13.99	10.64	15.99	10.62	17.99	10.60	19.99
	2450	10.78	2.08	11.39	4.17	11.34	6.25	11.26	8.33	11.23	10.42	11.20	12.50	11.16	14.59	11.12	16.67	11.10	18.75	11.08	20.84
	2550	11.26	2.17	11.87	4.34	11.82	6.51	11.74	8.67	11.71	10.84	11.68	13.01	11.64	15.18	11.60	17.35	11.58	19.52	11.56	21.69
	2650	11.73	2.25	12.35	4.51	12.30	6.76	12.22	9.01	12.19	11.27	12.16	13.52	12.12	15.78	12.08	18.03	12.06	20.28	12.04	22.54
	2750	12.21	2.34	12.83	4.68	1															

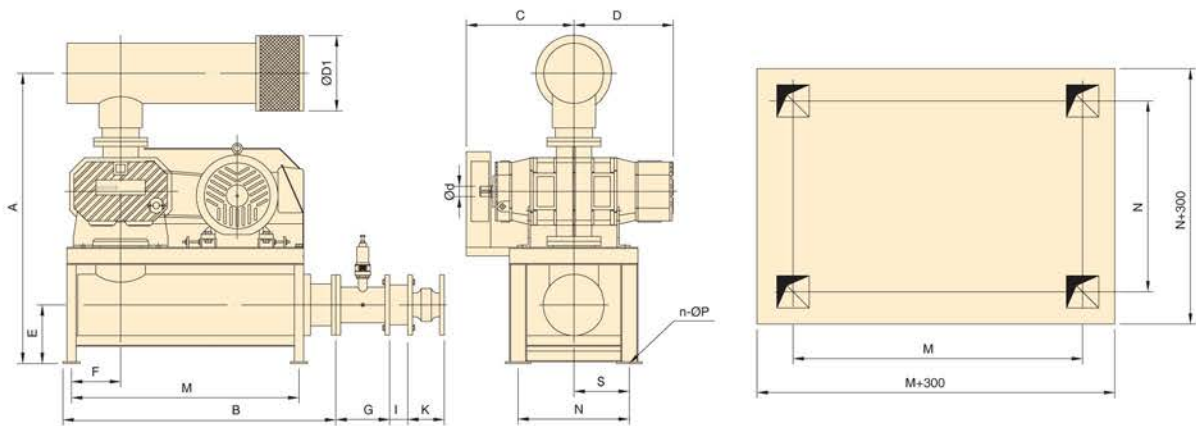
Performance Parameters

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq		9000mmAq		10000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABH-125	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	9.04	15.25	8.62	17.43	8.34	19.61	8.09	21.79
	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	9.64	16.00	9.22	18.23	8.94	20.57	8.69	22.86
	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	10.24	16.74	9.82	19.13	9.54	21.53	9.28	23.92
	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	10.84	17.49	10.42	19.99	10.13	22.48	9.88	24.98
	2450	13.71	2.60	13.29	5.21	12.94	7.81	12.47	10.42	12.14	13.02	11.85	15.63	11.43	18.23	11.02	20.84	10.73	23.44	10.48	26.04
	2550	14.30	2.71	13.89	5.42	13.54	8.13	13.07	10.84	12.74	13.55	12.45	16.26	12.03	18.98	11.62	21.69	11.33	24.40	11.08	27.11
	2650	14.90	2.82	14.49	5.63	14.14	8.45	13.67	11.27	13.34	14.09	13.05	16.90	12.63	19.72	12.21	22.54	11.93	25.35	11.68	28.17
	2750	15.50	2.92	15.08	5.85	14.74	8.77	14.27	11.69	13.94	14.62	13.65	17.54	13.23	20.46	12.81	23.39	12.53	26.31	12.28	29.23
	2850	16.10	3.03	15.68	6.06	15.34	9.09	14.87	12.12	14.54	15.15	14.24	18.18	13.83	21.21	13.41	24.24	13.13	27.27	12.88	30.30
	2950	16.70	3.14	16.28	6.27	15.93	9.41	15.47	12.54	15.14	15.68	14.84	18.82	14.43	21.95	14.01	25.09	13.73	28.22	13.48	31.36
	3050	17.30	3.24	16.88	6.48	16.53	9.73	16.07	12.97	15.74	16.21	15.44	19.45	15.03	22.70	14.61	25.94	14.33	29.18	14.07	32.42
	3150	17.90	3.35	17.48	6.70	17.13	10.05	16.67	13.39	16.33	16.74	16.04	20.09	15.63	23.44	15.21	26.79	14.92	30.11	14.67	33.49
	3250	18.50	3.45	18.08	6.91	17.73	10.36	17.26	13.82	16.93	17.27	16.64	20.73	16.22	24.18	15.81	27.64	15.52	31.09	15.27	34.55
	3350	19.09	3.56	18.68	7.12	18.33	10.68	17.86	14.24	17.53	17.81	17.24	21.37	16.82	24.93	16.41	28.49	16.12	32.05	15.87	35.61
	3450	19.69	3.67	19.28	7.34	18.93	11.00	18.46	14.67	18.13	18.34	17.84	22.01	17.42	25.67	17.00	29.34	16.72	33.01	16.47	36.68
	3550	20.29	3.77	19.87	7.55	19.53	11.32	19.06	15.10	18.73	18.87	18.44	22.64	18.02	26.42	17.60	30.19	17.32	33.96	17.07	37.74
ABH-150	1650	19.02	3.60	18.36	7.20	17.75	10.79	17.17	14.39	16.60	17.99	16.05	21.59	15.51	25.19	15.00	28.78	14.50	32.38	14.04	35.98
	1750	20.25	3.82	19.58	7.63	18.98	11.45	18.39	15.26	17.83	19.08	17.28	22.90	16.74	26.71	16.23	30.53	15.73	34.35	15.26	38.16
	1850	21.48	4.03	20.81	8.07	20.20	12.10	19.62	16.14	19.06	20.17	18.51	24.21	17.97	28.24	17.15	32.27	16.96	36.31	16.49	40.34
	1950	22.71	4.25	22.04	8.50	21.43	12.76	20.85	17.01	20.28	21.26	19.73	25.51	19.20	29.77	18.68	34.02	18.19	38.27	17.72	42.52
	2050	23.94	4.47	23.27	8.94	22.66	13.41	22.08	17.88	21.51	22.35	20.96	26.82	20.43	31.29	19.91	35.76	19.42	40.23	18.95	44.70
	2150	25.17	4.69	24.50	9.38	23.89	14.07	23.31	18.75	22.74	23.44	22.19	28.13	21.65	32.82	21.14	37.51	20.65	42.20	20.18	46.88
	2250	26.39	4.91	25.73	9.81	25.12	14.72	24.54	19.63	23.97	24.53	23.42	29.44	22.88	34.35	22.37	39.25	21.87	44.16	21.40	49.06
	2350	27.62	5.12	26.95	10.25	26.35	15.37	25.76	20.50	25.20	25.62	24.65	30.75	24.11	35.87	23.60	41.00	23.10	46.12	22.63	51.25
	2450	28.85	5.34	28.18	10.69	27.57	16.03	26.99	21.37	26.43	26.71	25.87	32.06	25.34	37.40	24.82	42.74	24.33	48.08	23.86	53.43
	2550	30.08	5.56	29.41	11.12	28.80	16.68	28.22	22.24	27.65	27.80	27.10	33.36	26.57	38.92	26.05	44.49	25.56	50.05	25.09	55.61
	2650	31.31	5.78	30.64	11.56	30.03	17.34	29.45	23.12	28.88	28.89	28.33	34.67	27.80	40.45	27.28	46.23	26.79	52.01	26.32	57.79
	2750	32.54	6.00	31.87	11.99	31.26	17.99	30.68	23.99	30.11	29.98	29.56	35.98	29.03	41.98	28.51	47.97	28.02	53.97	27.55	59.97
	2850	33.76	6.21	33.10	12.43	32.49	18.64	31.90	24.86	31.34	31.07	30.79	37.29	30.25	43.50	29.74	49.72	29.24	55.93	28.44	62.15
	2950	34.99	6.43	34.32	12.87	33.72	19.30	33.13	25.73	32.57	32.16	32.02	38.60	31.48	45.03	30.97	51.46	30.47	57.90	30.00	64.33
	3050	36.22	6.65	35.55	13.30	34.94	19.95	34.36	26.60	33.80	33.26	33.24	39.91	32.71	46.56	32.19	53.21	31.70	59.86	31.23	66.51
	3150	37.45	6.87	36.78	13.74	36.17	20.61	35.59	27.48	35.02	34.35	34.47	41.21	33.94	48.08	33.42	54.95	32.93	61.82	32.46	68.69
	3250	38.68	7.09	38.01	14.17	37.40	21.26	36.82	28.35	36.25	35.44	35.70	42.52	35.17	49.61	34.65	56.70	34.16	63.78	33.69	70.87
	3350	39.91	7.31	39.24	14.61	38.63	21.92	38.05	29.22	37.48	36.53	36.93	43.83	36.39	51.14	35.83	58.44	35.39	65.75	34.92	73.05
	3450	41.13	7.52	40.47	15.05	39.86	22.57	39.27	30.09	38.71	37.62	38.16	45.14	37.62	52.66	37.11	60.19	36.61	67.71	36.14	75.23
	3550	42.36	7.74	41.69	15.48	41.09	23.22	40.50	30.97	39.94	38.71	39.39	46.45	38.85	54.19	38.34	61.93	37.84	69.67	37.37	77.41
ABH-200	1470	34.56	6.33	33.96	12.66	33.42	18.99	32.91	25.32	32.40	31.65	31.91	37.99	31.44	44.32	30.98	50.65	30.54	56.98	30.12	63.31
	1560	36.74	6.72	36.15	13.44	35.61	20.16	35.09	26.87	34.59	33.59	34.10	40.31	33.62	47.03	33.16	53.75	32.72	60.47	32.31	67.18
	1650	38.92	7.11	38.33	14.21	37.79	21.32	37.27	28.12	36.77	35.53	36.28	42.64	35.80	49.74	35.35	56.85	34.91	63.95	34.49	71.06
	1750	41.35	7.54	40.75	15.07	40.21	22.61	39.70	30.15	39.19	37.68	38.71	45.22	38.23	52.76	37.77	60.29	37.33	67.83	36.92	75.37
	1850	43.77	7.97	43.18	15.93	42.64	23.90	42.12	31.87	41.62	39.84	41.13	47.80	40.66	55.77	40.20	63.74	39.76	71.71	39.34	79.67
	1950	46.20	8.40	45.61	16.80	45.07	25.19	44.55	33.59	44.05	41.99	43.56	50.39	43.08	58.79	42.62	67.18	42.19	75.58	41.77	83.98
	2050	48.63	8.83	48.03	17.66	47.49	26.49	46.97	35.32	46.47	44.14	45.98	52.97	45.51	61.80	45.05	70.63	44.61	79.56	44.19	88.29
	2150	51.05	9.26	50.46	18.52	49.92	27.78	49.40	37.04	48.90	46.30	48.41	55.56	47.93	64.82	47.48	74.08	47.04	83.33	46.62	92.59
	2250	53.48	9.69	52.88	19.38	52.34	29.07	51.83	38.76	51.32	48.45	50.83	58.14	50.36	67.83	49.90	77.52	49.46	87.21	49.05	96.90
	2350	55.90	10.12	55.31	20.24	54.77	30.36	54.25	40.48	53.75	40.60	53.26	60.72	52.79	70.85	52.33	80.97	51.89	91.09	51.47	101.21
	2450	58.33	10.55	57.74	21.10	57.20	31.65	56.68	42.21	56.18	52.76	55.69	73.31	55							

Performance Parameters

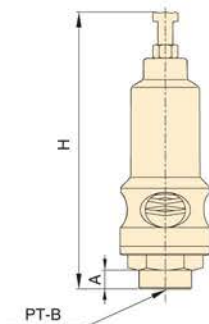
Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq		9000mmAq		10000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABH-300	1050	92.14	16.89	90.54	33.77	89.09	50.66	87.70	67.54	86.34	84.43	85.03	101.31	83.75	118.20	82.52	135.08	81.34	151.97	80.21	168.86
	1110	97.58	17.85	95.98	35.70	94.52	53.55	93.13	71.40	91.78	89.25	90.46	107.10	89.18	124.95	87.95	142.30	86.77	160.65	85.65	178.50
	1180	103.92	18.98	102.32	37.95	100.86	56.93	99.47	75.90	98.12	94.88	96.80	113.86	95.52	132.83	94.29	151.81	93.11	170.79	91.99	189.76
	1250	110.26	20.10	108.66	40.20	107.21	60.31	105.81	80.41	104.46	100.51	103.14	120.61	101.87	140.71	100.63	160.81	99.45	180.92	98.33	201.02
	1320	116.60	21.23	115.00	42.46	113.55	63.68	112.15	84.91	110.80	106.14	109.48	127.37	108.21	148.59	106.97	169.82	105.79	191.05	104.67	212.28
	1390	122.94	22.35	121.34	44.71	119.89	67.06	118.49	89.41	117.41	111.77	115.82	134.12	114.55	156.47	113.31	178.83	112.13	201.18	111.01	223.53
	1480	131.09	23.80	129.49	47.60	128.04	71.40	125.65	95.20	125.29	119.00	123.98	142.80	122.70	166.60	121.47	190.40	120.29	214.21	119.16	238.01
	1560	138.34	25.09	136.74	50.17	135.29	75.26	133.89	100.35	132.54	125.44	131.22	150.52	129.95	175.61	128.71	200.70	127.53	225.78	126.41	250.87
	1650	146.49	26.53	144.89	53.07	143.44	76.60	142.05	106.14	140.69	132.67	139.38	159.21	138.10	185.74	136.86	212.28	135.68	238.81	134.56	265.34
	1750	155.55	28.14	153.95	56.29	152.50	84.43	151.10	112.57	149.75	140.71	148.43	168.86	147.16	197.00	145.92	225.14	144.74	253.28	143.62	281.43
	1850	164.61	29.75	163.01	59.50	161.55	89.25	160.16	119.00	158.81	148.75	157.49	178.50	156.21	208.26	154.98	238.01	153.80	267.76	152.68	297.51

Installation Dimensions



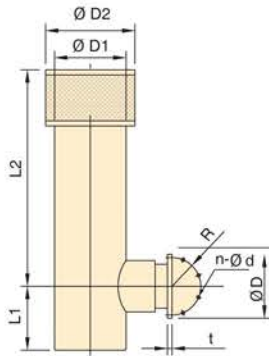
Type	A	B	C	D	D1	E	F	S	G	I	K	M	N	d	n-ØP
ABH-65	910	750	260	242	200	180	80	297	150	24	115	560	420	28	4-Ø18
ABH-80	950	1000	300	282	250	170	151	215	180	24	135	840	450	28	4-Ø18
ABH-100	1100	1150	380	285	280	197	182	240	180	24	150	950	450	38	4-Ø18
ABH-125	1150	1250	405	310	320	192	218.5	265	250	25	165	1100	500	38	4-Ø18
ABH-150	1310	1310	440	404	350	230	228.5	360	250	26	180	1100	560	48	4-Ø18
ABH-200	1580	1580	560	445	450	305	240	322	250	28	190	1250	640	60	4-Ø22
ABH-250	1760	1465	620	502	500	280	235	400	250	28	230	1250	760	65	4-Ø22
ABH-300	1910	1980	900	590	500	310	380	447.5	300	181	250	1800	810	80	4-Ø22

Safety Valve



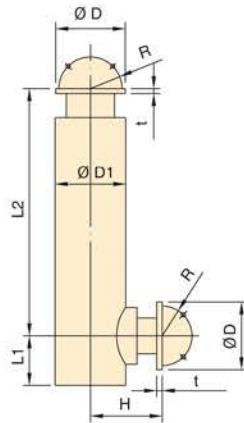
Type	A	H	Application Type	Weight (kg)
SV1½"	25	150	ABH-65, 80	1.6
SV2"	25	180	ABH-100, 125, 150	2.5
SV3"	30	250	ABH-200	5.0
SV4"	25	316	ABH-250, 300	8.5

Suction Silencer



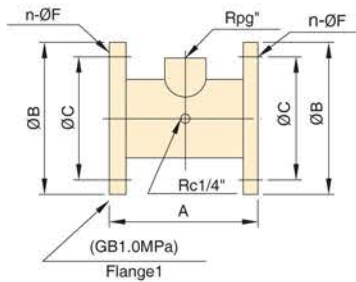
Type	D	t	n	d	r	D1	D2	H	L1	L2
ABH-65	185	16	4	19	72.5	165.2	200	240	120	580
ABH-80	200	16	8	19	80	216.7	250	260	150	650
ABH-100	220	16	8	19	90	240	280	280	180	720
ABH-125	250	18	8	19	105	280	320	320	200	800
ABH-150	285	20	8	23	120	300	350	320	250	850
ABH-200	340	20	8	23	147.5	400	450	360	300	900
ABH-250	395	22	12	23	175	450	500	400	300	1000
ABH-300	445	22	12	23	200	450	500	400	350	1050

Outlet Silencer



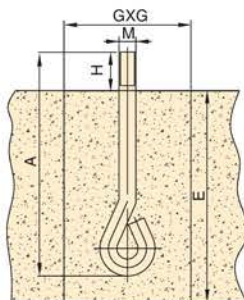
Type	D	t	n	d	r	D1	H	L1	L2
ABH-65	185	16	4	19	72.5	165.2	215	200	800
ABH-80	200	16	8	19	80	165.2	230	200	900
ABH-100	220	16	8	19	90	216	245	200	900
ABH-125	250	18	8	19	105	219	260	200	1000
ABH-150	285	20	8	23	120	285	295	200	1000
ABH-200	340	20	8	23	147.5	345	365	200	1100
ABH-250	395	22	12	23	175	400	400	250	1150
ABH-300	445	22	12	23	200	450	450	250	1250

"T"-Joint



Type	A	ØB	ØC	n-ØF	g	Weight (kg)	Application Type
HJ65	150	185	145	4-Ø18	1¼	9.0	ABH-65
HJ80	180	200	160	8-Ø18	1¼	9.6	ABH-80
HJ100	180	220	180	8-Ø18	2	10.7	ABH-100
HJ125	250	250	210	8-Ø18	2	14.5	ABH-125
HJ150	250	340	295	8-Ø22	2	20.8	ABH-150
HJ200	250	340	295	8-Ø22	3	26.0	ABH-200
HJ250	250	395	350	12-Ø22	3	35.0	ABH-250
HJ300	300	445	400	12-Ø22	3	44.7	ABH-300

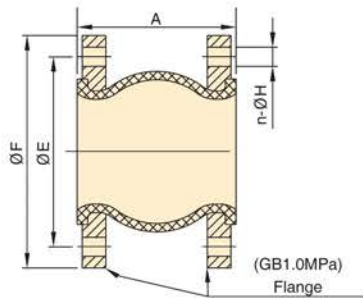
Anchor Bolt



Anchor Bolt GB799-88	A	H	E	GxG	Application Type
M12	160	36	224	100x100	ABH-65, 80
M16	220	45	275	120x120	ABH-100, 125, 150
M20	300	55	345	150x150	ABH-200, 250, 300

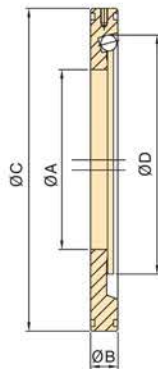
Note: 1. The note E on the drawing is the minimum size, it shall be deepened properly according to the soil condition in the installation place.
2. GxG is the size of the preformed holes for the secondary casting.

Series Resilient Connector



Type	A	ØE	ØF	n-ØH	Weight (kg)	Application Type
KXT65	115	145	185	4-Ø18	3.5	ABH-65
KXT80	135	160	200	8-Ø18	4.0	ABH-80
KXT100	150	180	220	8-Ø18	5.0	ABH-100
KXT125	165	210	250	8-Ø18	6.5	ABH-125
KXT150	180	240	285	8-Ø22	9.5	ABH-150
KXT200	190	295	340	8-Ø22	16.0	ABH-200
KXT250	230	350	395	12-Ø22	25.0	ABH-250
KXT300	250	400	445	12-Ø22	42.0	ABH-300

Check Valve



Type	ØA	B	ØC	ØD	Weight (kg)	Application Type
DCV-65	36	24	124	65.9	1.4	ABH-65
DCV-80	46	24	135	78.1	1.6	ABH-80
DCV-100	67	24	159	102.3	2.3	ABH-100
DCV-125	88	25	190	126.6	3.4	ABH-125
DCV-150	108	26	220	151	5.0	ABH-150
DCV-200	138	28	270	200	10.0	ABH-200
DCV-250	185	28	335	251.4	18.0	ABH-250
DCV-300	-	180	380	300	48.0	ABH-300

Applications

