



# LTX

**LTX low pressure  
three-lobe roots blower**

LTX

LTX low pressure three-lobe roots blower



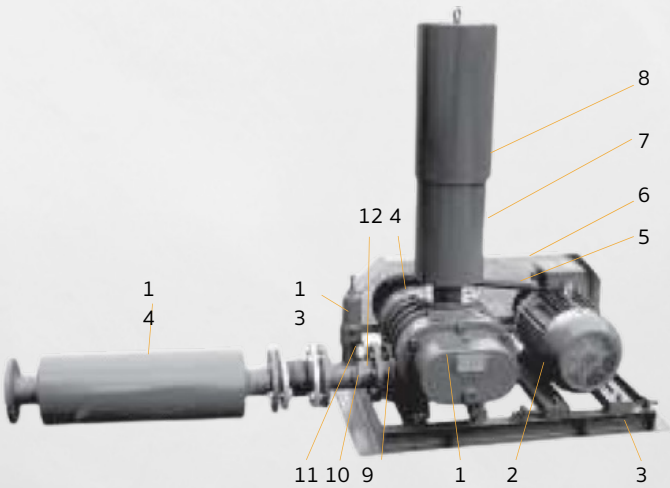
Theory

LTX 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 to body, impeller to impeller. When the impeller rotates through the suction inlet, it can gather an amount of air between the body and impeller, then the impeller go 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

- Wide range of capacity and pressure. Calibre: 50mm-300mm (2"-12") Capacity: 0.63-121m³/min (22-4236CFM)
- Wide range of capacity and pressure. Calibre: 50mm-300mm (2"-12") Capacity: 0.63-121m³/min (22-4236CFM)
- Pressure: The pressure up to 6000mmAq (0.6kgf/cm²)
- Delivers completely oil-free air.
- Low oscillation and low noise by dynamic balance which revised by computer.
- Smaller change in capacity against change in pressure.
- High efficiency due to special impeller design, great air- delivery low power.
- Simpler and solidier structure, less trouble.
- Highest quality pilot & accurate great applied, long life and low noise assured.
- Standardized product with strict quality control.
- Our impeller has used the most advanced technic, one time for all working process of the six-shaft method, to enhance the precision of leave wheel.

Externality construction



| NO. | ACCESSORIES           |
|-----|-----------------------|
| 1   | Blower body           |
| 2   | Motor                 |
| 3   | Foundation            |
| 4   | Pulley                |
| 5   | Driving belt          |
| 6   | Belt cover            |
| 7   | Inlet silencer        |
| 8   | Rain cover            |
| 9   | Check valve           |
| 10  | Gauge pipe            |
| 11  | Outlet pressure gauge |
| 12  | T-joint               |
| 13  | Relief valve          |
| 14  | Outlet silencer       |

Type description

LTX - 65

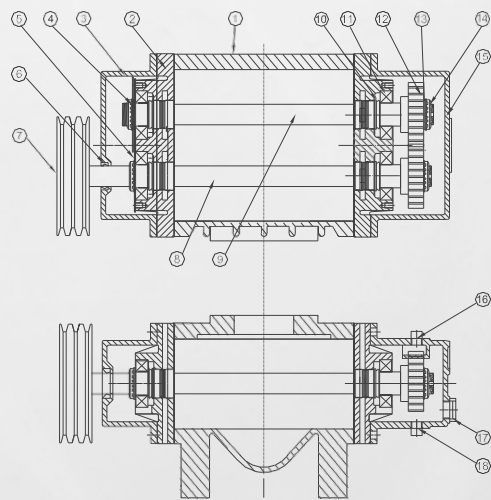
Diameter (mm)

Low Pressure three-lobe roots blower

Construction

| NO. | NAME               | MATERIAL |          |
|-----|--------------------|----------|----------|
|     |                    | GB       | JIS      |
| 1   | Casing             | HT250    | FC250    |
| 2   | Bearing housing    | HT250    | FC250    |
| 3   | Oil box            | HT250    | FC250    |
| 4   | Oil splash         | Q235     | SS400    |
| 5   | Bearing washer     | Q235     | SS400    |
| 6   | Framework oil seal | NBR      | NBR      |
| 7   | Pulley             | HT250    | FC250    |
| 8   | Drive rotor        | HT250    | FC250    |
| 9   | Driven rotor       | HT250    | FC250    |
| 10  | V-ring             | NBR      | NBR      |
| 11  | Bearing            | GCr15    | SUJ2     |
| 12  | Gear               | 35CrMa   | SCM435   |
| 13  | Lock washer        | Q235     | SS400    |
| 14  | Lock nut           | 45       | S45C     |
| 15  | Gear box           | HT250    | FC250    |
| 16  | Lubrication plug   | 45       | S45C     |
| 17  | Oil gauge          | Assembly | Assembly |
| 18  | Purge plug         | 45       | S45C     |

Note: Different model has a little difference.



## Conversion table

| PRESSURE                    | atm      | kPa     | bar      | lbt/in <sup>2</sup> (psi) | kgf/cm <sup>2</sup> | 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                     | 0.0102              | 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 <sup>2</sup> (psi) | 0.068    | 6.894   | 0.0689   | 1                         | 0.0703              | 2.036  | 2.308  | 51.71      | 703   |
| 1 kgf/cm <sup>2</sup>       | 0.968    | 98.062  | 0.981    | 14.228                    | 1                   | 28.96  | 32.82  | 735.53     | 10000 |
| 1 inHg                      | 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 <sup>3</sup> /min | l/min | cm <sup>3</sup> /s | in <sup>3</sup> /s | ft <sup>3</sup> /min(cfm) |
|-----------------------------|---------------------|-------|--------------------|--------------------|---------------------------|
| 1 m <sup>3</sup> /min       | 1                   | 1000  | 16667              | 1016               | 35.288                    |
| 1 l/min                     | 0.001               | 1     | 16.67              | 1.02               | 0.0353                    |
| 1 cm <sup>3</sup> /s        | 0.00006             | 0.06  | 1                  | 0.061              | 0.002                     |
| 1 in <sup>3</sup> /s        | 0.00098             | 0.983 | 16.39              | 1                  | 0.035                     |
| 1 ft <sup>3</sup> /min(cfm) | 0.028               | 28.32 | 471.95             | 28.8               | 1                         |

### Pressure Conversion Formula

$$1 \text{ kPa} = 1000 \text{ Pa} = 1000 \text{ N/m}^2$$

$$1 \text{ mbar} = 10.198 \text{ mmAq}$$

$$1 \text{ mmHg(Torr)} = 133.8 \text{ Pa}$$

## 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 (20°C temperature, absolute pressure 1.0332 kgf/cm<sup>2</sup> and relative humidity 65%) .
- The reference air capacity (0°C temperature and absolute pressure 1.0332 kgf/cm<sup>2</sup>) is generally indicated in Nm<sup>3</sup>/min.
- The inlet air capacity can be converted as following.
 
$$Q_2 = Q_1 \times \frac{P_1}{P_2} \times \frac{273 + T_2}{273 + T_1}$$

$$Q_1: \text{Air capacity (m}^3/\text{min) based on absolute pressure } P_1(\text{mmAq}) \text{ and temperature } T_1(^{\circ}\text{C})$$

$$Q_2: \text{Air capacity (m}^3/\text{min) based on absolute pressure } P_2(\text{mmAq}) \text{ and temperature } T_2(^{\circ}\text{C})$$
- The motor power is 1.1~1.3 multiple of shaft power.
- The error of the parameter is about 5%.

Performance parameters

| Qs(m³/min) Pressure(mmAq) La (kW) |      |          |      |          |      |          |      |          |      |          |       |          |       |
|-----------------------------------|------|----------|------|----------|------|----------|------|----------|------|----------|-------|----------|-------|
| Type                              | RPM  | 1000mmAq |      | 2000mmAq |      | 3000mmAq |      | 4000mmAq |      | 5000mmAq |       | 6000mmAq |       |
|                                   |      | Qs       | La   | Qs       | La   | Qs       | La   | Qs       | La   | Qs       | La    | Qs       | La    |
| LTX-50                            | 850  | 1.02     | 0.42 | 0.89     | 0.64 | 0.79     | 0.85 | 0.71     | 1.07 | 0.63     | 1.29  | -        | -     |
|                                   | 950  | 1.18     | 0.47 | 1.05     | 0.71 | 0.95     | 0.95 | 0.86     | 1.20 | 0.79     | 1.44  | -        | -     |
|                                   | 1050 | 1.33     | 0.52 | 1.20     | 0.79 | 1.10     | 1.06 | 1.02     | 1.32 | 0.94     | 1.59  | -        | -     |
|                                   | 1150 | 1.49     | 0.57 | 1.36     | 0.86 | 1.26     | 1.16 | 1.18     | 1.45 | 1.10     | 1.74  | -        | -     |
|                                   | 1250 | 1.65     | 0.62 | 1.52     | 0.94 | 1.42     | 1.26 | 1.33     | 1.58 | 1.26     | 1.90  | 1.19     | 2.22  |
|                                   | 1350 | 1.80     | 0.67 | 1.67     | 1.01 | 1.57     | 1.36 | 1.49     | 1.70 | 1.42     | 2.05  | 1.35     | 2.39  |
|                                   | 1450 | 1.96     | 0.71 | 1.83     | 1.09 | 1.73     | 1.46 | 1.65     | 1.83 | 1.57     | 2.20  | 1.50     | 2.57  |
|                                   | 1550 | 2.12     | 0.76 | 1.99     | 1.16 | 1.89     | 1.56 | 1.80     | 1.95 | 1.73     | 2.35  | 1.66     | 2.75  |
|                                   | 1650 | 2.27     | 0.81 | 2.14     | 1.24 | 2.04     | 1.66 | 1.96     | 2.08 | 1.89     | 2.50  | 1.82     | 2.93  |
|                                   | 1750 | 2.43     | 0.86 | 2.30     | 1.31 | 2.20     | 1.76 | 2.12     | 2.21 | 2.04     | 2.65  | 1.98     | 3.10  |
| LTX-65                            | 850  | 1.81     | 0.61 | 1.64     | 0.97 | 1.52     | 1.34 | 1.41     | 1.70 | 1.31     | 2.06  | 1.22     | 2.42  |
|                                   | 950  | 2.07     | 0.68 | 1.91     | 1.09 | 1.78     | 1.49 | 1.67     | 1.90 | 1.57     | 2.30  | 1.48     | 2.71  |
|                                   | 1050 | 2.34     | 0.75 | 2.17     | 1.20 | 2.04     | 1.65 | 1.93     | 2.10 | 1.83     | 2.55  | 1.75     | 2.99  |
|                                   | 1150 | 2.60     | 0.82 | 2.43     | 1.32 | 2.30     | 1.81 | 2.19     | 2.30 | 2.09     | 2.79  | 2.01     | 3.28  |
|                                   | 1250 | 2.86     | 0.90 | 2.69     | 1.43 | 2.56     | 1.96 | 2.45     | 2.50 | 2.35     | 3.03  | 2.27     | 3.56  |
|                                   | 1350 | 3.12     | 0.97 | 2.95     | 1.54 | 2.82     | 2.12 | 2.71     | 2.70 | 2.62     | 3.27  | 2.53     | 3.85  |
|                                   | 1450 | 3.38     | 1.04 | 3.21     | 1.66 | 3.08     | 2.28 | 2.97     | 2.90 | 2.88     | 3.51  | 2.79     | 4.13  |
|                                   | 1550 | 3.64     | 1.11 | 3.47     | 1.77 | 3.34     | 2.43 | 3.23     | 3.10 | 3.14     | 3.76  | 3.05     | 4.42  |
|                                   | 1650 | 3.90     | 1.18 | 3.73     | 1.89 | 3.61     | 2.59 | 3.50     | 3.30 | 3.40     | 4.00  | 3.31     | 4.70  |
|                                   | 1750 | 4.16     | 1.26 | 4.00     | 2.00 | 3.87     | 2.75 | 3.76     | 3.50 | 3.66     | 4.24  | 3.57     | 4.99  |
| LTX-80                            | 850  | 2.38     | 0.79 | 2.16     | 1.18 | 2.00     | 1.66 | 1.86     | 2.13 | 1.74     | 2.60  | 1.63     | 3.07  |
|                                   | 950  | 2.71     | 0.88 | 2.50     | 1.32 | 2.34     | 1.85 | 2.20     | 2.38 | 2.08     | 2.91  | 1.97     | 3.43  |
|                                   | 1050 | 3.05     | 0.97 | 2.84     | 1.46 | 2.68     | 2.05 | 2.54     | 2.63 | 2.42     | 3.21  | 2.31     | 3.79  |
|                                   | 1150 | 3.39     | 1.06 | 3.18     | 1.60 | 3.02     | 2.24 | 2.88     | 2.88 | 2.76     | 3.52  | 2.65     | 4.15  |
|                                   | 1250 | 3.73     | 1.16 | 3.52     | 1.74 | 3.36     | 2.44 | 3.22     | 3.13 | 3.10     | 3.82  | 2.99     | 4.52  |
|                                   | 1350 | 4.07     | 1.25 | 3.86     | 1.88 | 3.70     | 2.63 | 3.56     | 3.38 | 3.44     | 4.13  | 3.33     | 4.88  |
|                                   | 1450 | 4.41     | 1.34 | 4.20     | 2.02 | 4.04     | 2.83 | 3.90     | 3.63 | 3.78     | 4.43  | 3.67     | 5.24  |
|                                   | 1550 | 4.75     | 1.43 | 4.54     | 2.16 | 4.38     | 3.02 | 4.24     | 3.88 | 4.12     | 4.74  | 4.01     | 5.60  |
|                                   | 1650 | 5.09     | 1.53 | 4.88     | 2.30 | 4.72     | 3.22 | 4.58     | 4.13 | 4.46     | 5.05  | 4.35     | 5.96  |
|                                   | 1750 | 5.43     | 1.62 | 5.22     | 2.44 | 5.06     | 3.41 | 4.92     | 4.38 | 4.80     | 5.35  | 4.69     | 6.32  |
| LTX-100                           | 850  | 5.77     | 1.71 | 5.56     | 2.58 | 5.40     | 3.61 | 5.26     | 4.63 | 5.14     | 5.66  | 5.03     | 6.68  |
|                                   | 950  | 6.11     | 1.80 | 5.90     | 2.72 | 5.74     | 3.80 | 5.60     | 4.88 | 5.48     | 5.96  | 5.37     | 7.05  |
|                                   | 1050 | 6.45     | 1.90 | 6.24     | 2.87 | 6.08     | 4.00 | 5.94     | 5.07 | 5.78     | 6.25  | 5.66     | 7.42  |
|                                   | 1150 | 6.79     | 2.00 | 6.58     | 3.02 | 6.42     | 4.19 | 6.28     | 5.26 | 6.07     | 6.54  | 5.95     | 7.79  |
|                                   | 1250 | 7.13     | 2.10 | 6.92     | 3.17 | 6.76     | 4.38 | 6.56     | 5.45 | 6.36     | 6.83  | 6.14     | 8.16  |
|                                   | 1350 | 7.47     | 2.20 | 7.26     | 3.32 | 7.10     | 4.57 | 6.84     | 5.64 | 6.65     | 7.12  | 6.33     | 8.53  |
|                                   | 1450 | 7.81     | 2.30 | 7.60     | 3.47 | 7.44     | 4.76 | 7.12     | 5.83 | 6.94     | 7.41  | 6.52     | 8.90  |
|                                   | 1550 | 8.15     | 2.40 | 7.94     | 3.62 | 7.78     | 4.95 | 7.40     | 6.02 | 7.23     | 7.69  | 6.71     | 9.27  |
|                                   | 1650 | 8.49     | 2.50 | 8.28     | 3.77 | 8.12     | 5.14 | 7.68     | 6.21 | 7.52     | 7.98  | 6.90     | 9.64  |
|                                   | 1750 | 8.83     | 2.60 | 8.62     | 3.92 | 8.46     | 5.33 | 7.96     | 6.40 | 7.81     | 8.27  | 7.09     | 10.01 |
| LTX-120                           | 850  | 9.17     | 2.70 | 8.96     | 4.07 | 8.80     | 5.52 | 8.64     | 6.59 | 8.10     | 8.56  | 7.28     | 10.38 |
|                                   | 950  | 9.51     | 2.80 | 9.30     | 4.22 | 9.14     | 5.71 | 8.98     | 6.78 | 8.49     | 8.95  | 7.47     | 10.75 |
|                                   | 1050 | 9.85     | 2.90 | 9.64     | 4.37 | 9.48     | 5.90 | 9.32     | 6.97 | 8.88     | 9.34  | 7.66     | 11.12 |
|                                   | 1150 | 10.19    | 3.00 | 9.98     | 4.52 | 9.82     | 6.09 | 9.66     | 7.16 | 9.27     | 9.73  | 7.85     | 11.49 |
|                                   | 1250 | 10.53    | 3.10 | 10.32    | 4.67 | 10.16    | 6.28 | 9.94     | 7.35 | 9.66     | 10.12 | 8.04     | 11.86 |
|                                   | 1350 | 10.87    | 3.20 | 10.66    | 4.82 | 10.50    | 6.47 | 10.22    | 7.54 | 9.95     | 10.51 | 8.23     | 12.23 |
|                                   | 1450 | 11.21    | 3.30 | 11.00    | 4.97 | 10.84    | 6.66 | 10.50    | 7.73 | 10.34    | 10.90 | 8.42     | 12.60 |
|                                   | 1550 | 11.55    | 3.40 | 11.34    | 5.12 | 11.18    | 6.85 | 10.78    | 7.92 | 10.73    | 11.29 | 8.61     | 12.97 |
|                                   | 1650 | 11.89    | 3.50 | 11.68    | 5.27 | 11.52    | 7.04 | 11.06    | 8.11 | 11.12    | 11.68 | 8.80     | 13.34 |
|                                   | 1750 | 12.23    | 3.60 | 12.02    | 5.42 | 11.86    | 7.23 | 11.34    | 8.30 | 11.51    | 12.07 | 9.00     | 13.71 |



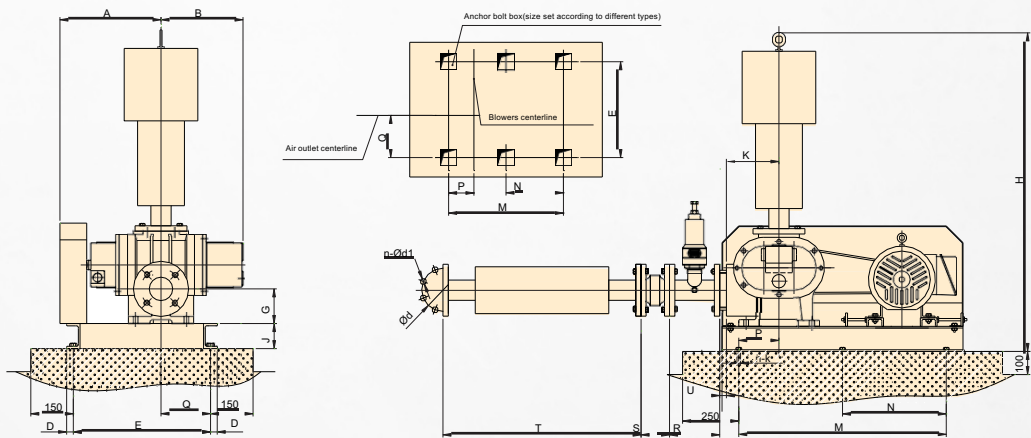
Performance parameters

| Qs(m³/min) Pressure(mmAq) La (kW) |      |          |       |          |       |          |       |          |       |          |       |          |       |
|-----------------------------------|------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| Type                              | RPM  | 1000mmAq |       | 2000mmAq |       | 3000mmAq |       | 4000mmAq |       | 5000mmAq |       | 6000mmAq |       |
|                                   |      | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    |
| LTX-125                           | 800  | 5.78     | 1.98  | 5.39     | 3.07  | 5.09     | 4.17  | 4.84     | 5.26  | 4.62     | 6.36  | 4.42     | 7.46  |
|                                   | 900  | 6.61     | 2.22  | 6.23     | 3.46  | 5.93     | 4.69  | 5.68     | 5.92  | 5.46     | 7.15  | 5.26     | 8.39  |
|                                   | 1000 | 7.45     | 2.47  | 7.07     | 3.84  | 6.77     | 5.21  | 6.52     | 6.58  | 6.30     | 7.95  | 6.10     | 9.32  |
|                                   | 1100 | 8.29     | 2.72  | 7.90     | 4.22  | 7.61     | 5.73  | 7.36     | 7.24  | 7.14     | 8.74  | 6.94     | 10.25 |
|                                   | 1200 | 9.13     | 2.96  | 8.74     | 4.61  | 8.45     | 6.25  | 8.20     | 7.90  | 7.98     | 9.54  | 7.78     | 11.18 |
|                                   | 1300 | 9.97     | 3.21  | 9.58     | 4.99  | 9.29     | 6.77  | 9.03     | 8.55  | 8.81     | 10.33 | 8.61     | 12.12 |
|                                   | 1400 | 10.81    | 3.46  | 10.42    | 5.37  | 10.12    | 7.29  | 9.87     | 9.21  | 9.65     | 11.13 | 9.45     | 13.05 |
|                                   | 1500 | 11.65    | 3.70  | 11.26    | 5.76  | 10.96    | 7.81  | 10.71    | 9.87  | 10.49    | 11.92 | 10.29    | 13.98 |
|                                   | 1600 | 12.49    | 3.95  | 12.10    | 6.14  | 11.80    | 8.33  | 11.55    | 10.53 | 11.33    | 12.72 | 11.13    | 14.91 |
|                                   | 1650 | 12.91    | 4.07  | 12.52    | 6.33  | 12.22    | 8.60  | 11.97    | 10.86 | 11.75    | 13.12 | 11.55    | 15.38 |
|                                   | 1750 | 13.74    | 4.32  | 13.36    | 6.72  | 13.06    | 9.12  | 12.81    | 11.51 | 12.59    | 13.91 | 12.39    | 16.31 |
|                                   | 1850 | 14.58    | 4.57  | 14.20    | 7.10  | 13.90    | 9.64  | 13.65    | 12.17 | 13.43    | 14.71 | 13.23    | 17.24 |
| LTX-150                           | 1950 | 15.42    | 4.81  | 15.03    | 7.49  | 14.74    | 10.16 | 14.49    | 12.83 | 14.27    | 15.50 | 14.07    | 18.17 |
|                                   | 780  | 12.64    | 3.82  | 12.08    | 6.11  | 11.64    | 8.39  | 11.27    | 10.68 | 10.95    | 12.97 | 10.66    | 15.26 |
|                                   | 830  | 13.54    | 4.06  | 12.97    | 6.50  | 12.54    | 8.93  | 12.17    | 11.37 | 11.85    | 13.81 | 11.55    | 16.24 |
|                                   | 880  | 14.44    | 4.30  | 13.87    | 6.89  | 13.44    | 9.47  | 13.07    | 12.05 | 12.75    | 14.64 | 12.45    | 17.22 |
|                                   | 930  | 15.34    | 4.55  | 14.77    | 7.28  | 14.34    | 10.01 | 13.97    | 12.74 | 13.64    | 15.47 | 13.35    | 18.20 |
|                                   | 990  | 16.42    | 4.84  | 15.85    | 7.75  | 15.41    | 10.65 | 15.05    | 13.56 | 14.72    | 16.47 | 14.43    | 19.37 |
|                                   | 1050 | 17.50    | 5.14  | 16.93    | 8.22  | 16.49    | 11.30 | 16.12    | 14.38 | 15.80    | 17.46 | 15.51    | 20.55 |
|                                   | 1110 | 18.57    | 5.43  | 18.01    | 8.69  | 17.57    | 11.95 | 17.20    | 15.20 | 16.88    | 18.46 | 16.59    | 21.72 |
|                                   | 1180 | 19.83    | 5.77  | 19.26    | 9.24  | 18.83    | 12.70 | 18.46    | 16.16 | 18.14    | 19.63 | 17.84    | 23.09 |
|                                   | 1250 | 21.09    | 6.11  | 20.52    | 9.78  | 20.09    | 13.45 | 19.72    | 17.12 | 19.39    | 20.79 | 19.10    | 24.46 |
|                                   | 1320 | 22.35    | 6.46  | 21.78    | 10.33 | 21.34    | 14.21 | 20.98    | 18.08 | 20.65    | 21.96 | 20.36    | 25.83 |
|                                   | 1390 | 23.61    | 6.80  | 23.04    | 10.88 | 22.60    | 14.96 | 22.23    | 19.04 | 21.91    | 23.12 | 21.62    | 27.20 |
|                                   | 1470 | 25.04    | 7.19  | 24.48    | 11.51 | 24.04    | 15.82 | 23.67    | 20.14 | 23.35    | 24.45 | 23.06    | 28.76 |
|                                   | 1560 | 26.66    | 7.63  | 26.09    | 12.21 | 25.66    | 16.79 | 25.29    | 21.37 | 24.97    | 25.95 | 24.67    | 30.53 |
| LTX-200                           | 1650 | 28.28    | 8.07  | 27.71    | 12.91 | 27.27    | 17.76 | 26.91    | 22.60 | 26.58    | 27.44 | 26.29    | 32.29 |
|                                   | 1750 | 30.08    | 8.56  | 29.51    | 13.70 | 29.07    | 18.83 | 28.70    | 23.97 | 28.38    | 29.11 | 28.09    | 34.24 |
|                                   | 1850 | 31.87    | 9.05  | 31.30    | 14.48 | 30.87    | 19.91 | 30.50    | 25.34 | 30.18    | 30.77 | 29.88    | 36.20 |
|                                   | 780  | 23.65    | 7.06  | 22.70    | 9.52  | 21.97    | 13.76 | 21.36    | 17.99 | 20.81    | 22.23 | 20.32    | 26.47 |
|                                   | 830  | 25.31    | 7.52  | 24.36    | 10.13 | 23.63    | 14.64 | 23.02    | 19.15 | 22.48    | 23.66 | 21.99    | 28.17 |
|                                   | 880  | 26.98    | 7.97  | 26.03    | 10.74 | 25.30    | 15.52 | 24.68    | 20.30 | 24.14    | 25.08 | 23.65    | 29.86 |
|                                   | 930  | 28.64    | 8.42  | 27.69    | 11.35 | 26.96    | 16.40 | 26.34    | 21.45 | 25.80    | 26.51 | 25.31    | 31.56 |
|                                   | 990  | 30.63    | 8.96  | 29.68    | 12.08 | 28.95    | 17.46 | 28.34    | 22.84 | 27.80    | 28.22 | 27.31    | 33.60 |
|                                   | 1050 | 32.63    | 9.51  | 31.68    | 12.81 | 30.95    | 18.52 | 30.34    | 24.22 | 29.79    | 29.93 | 29.30    | 35.63 |
|                                   | 1110 | 34.63    | 10.05 | 33.68    | 13.55 | 32.95    | 19.58 | 32.33    | 25.61 | 31.79    | 31.64 | 31.30    | 37.67 |
|                                   | 1180 | 36.95    | 10.68 | 36.00    | 14.40 | 35.27    | 20.81 | 34.66    | 27.22 | 34.12    | 33.63 | 33.63    | 40.04 |
|                                   | 1250 | 39.28    | 11.32 | 38.33    | 15.26 | 37.60    | 22.05 | 36.99    | 28.84 | 36.45    | 35.63 | 35.96    | 42.42 |
|                                   | 1320 | 41.61    | 11.95 | 40.66    | 16.11 | 39.93    | 23.28 | 39.32    | 30.45 | 38.77    | 37.62 | 38.28    | 44.79 |
|                                   | 1390 | 43.94    | 12.59 | 42.99    | 16.96 | 42.26    | 24.52 | 41.64    | 32.07 | 41.10    | 39.62 | 40.61    | 47.17 |
| LTX-250                           | 1470 | 46.60    | 13.31 | 45.65    | 17.94 | 44.92    | 25.93 | 44.31    | 33.91 | 43.76    | 41.90 | 43.27    | 49.88 |
|                                   | 1560 | 49.59    | 14.12 | 48.64    | 19.04 | 47.91    | 27.51 | 47.30    | 35.99 | 46.76    | 44.46 | 46.27    | 52.94 |
|                                   | 1650 | 52.59    | 14.94 | 51.64    | 20.14 | 50.91    | 29.10 | 50.29    | 38.06 | 49.75    | 47.03 | 49.26    | 55.99 |
|                                   | 1750 | 55.91    | 15.85 | 54.96    | 21.36 | 54.23    | 30.86 | 53.62    | 40.37 | 53.08    | 49.88 | 52.59    | 59.39 |
| LTX-250                           | 1850 | 59.24    | 16.75 | 58.29    | 22.58 | 57.56    | 32.63 | 56.94    | 42.68 | 56.40    | 52.73 | 55.91    | 62.78 |
|                                   | 830  | 37.22    | 10.80 | 36.20    | 17.28 | 35.42    | 23.75 | 34.77    | 30.23 | 34.19    | 36.71 | 33.67    | 43.19 |
|                                   | 880  | 39.61    | 11.45 | 38.59    | 18.32 | 37.81    | 25.19 | 37.16    | 32.05 | 36.58    | 38.92 | 36.06    | 45.79 |
|                                   | 930  | 42.00    | 12.10 | 40.98    | 19.36 | 40.20    | 26.62 | 39.55    | 33.88 | 38.97    | 41.13 | 38.45    | 48.39 |
| LTX-250                           | 990  | 44.86    | 12.88 | 43.85    | 20.61 | 43.07    | 28.33 | 42.41    | 36.06 | 41.84    | 43.79 | 41.31    | 51.52 |

Performance parameters

| Qs(m³/min) Pressure(mmAq) La (kW) |      |          |       |          |       |          |       |          |       |          |        |          |        |
|-----------------------------------|------|----------|-------|----------|-------|----------|-------|----------|-------|----------|--------|----------|--------|
| Type                              | RPM  | 1000mmAq |       | 2000mmAq |       | 3000mmAq |       | 4000mmAq |       | 5000mmAq |        | 6000mmAq |        |
|                                   |      | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La     | Qs       | La     |
| LTX-250                           | 1050 | 47.73    | 13.66 | 46.72    | 21.86 | 45.94    | 30.05 | 45.28    | 38.25 | 44.70    | 46.44  | 44.18    | 54.64  |
|                                   | 1110 | 50.60    | 14.44 | 49.58    | 23.10 | 48.81    | 31.77 | 48.15    | 40.43 | 47.57    | 49.10  | 47.05    | 57.76  |
|                                   | 1180 | 53.94    | 15.35 | 52.93    | 24.56 | 52.15    | 33.77 | 51.49    | 42.98 | 50.92    | 52.19  | 50.39    | 61.40  |
|                                   | 1250 | 57.29    | 16.26 | 56.27    | 26.02 | 55.50    | 35.77 | 54.84    | 45.53 | 54.26    | 55.29  | 53.74    | 65.05  |
|                                   | 1320 | 60.63    | 17.17 | 59.62    | 27.48 | 58.84    | 37.78 | 58.18    | 48.08 | 57.61    | 58.38  | 57.08    | 68.69  |
|                                   | 1390 | 63.98    | 18.08 | 62.96    | 28.93 | 62.19    | 39.78 | 61.53    | 50.63 | 60.95    | 61.48  | 60.43    | 72.33  |
|                                   | 1470 | 67.80    | 19.12 | 66.79    | 30.60 | 66.01    | 42.07 | 65.35    | 53.55 | 64.78    | 65.02  | 64.25    | 76.49  |
| LTX-300                           | 620  | 48.68    | 14.34 | 47.02    | 22.94 | 45.75    | 31.55 | 44.68    | 40.15 | 43.73    | 48.75  | 42.88    | 57.36  |
|                                   | 660  | 52.07    | 15.26 | 50.42    | 24.42 | 49.15    | 33.58 | 48.08    | 42.74 | 47.13    | 51.90  | 46.28    | 61.06  |
|                                   | 700  | 55.47    | 16.19 | 53.82    | 25.90 | 52.55    | 35.62 | 51.47    | 45.33 | 50.53    | 55.04  | 49.68    | 64.76  |
|                                   | 740  | 58.87    | 17.11 | 57.21    | 27.38 | 55.94    | 37.65 | 54.87    | 47.92 | 53.93    | 58.19  | 53.08    | 68.46  |
|                                   | 780  | 62.27    | 18.04 | 60.61    | 28.86 | 59.34    | 39.69 | 58.27    | 50.51 | 57.33    | 61.33  | 56.47    | 72.16  |
|                                   | 830  | 66.52    | 19.20 | 64.86    | 30.71 | 63.59    | 42.23 | 62.52    | 53.75 | 61.57    | 65.26  | 60.72    | 76.78  |
|                                   | 880  | 70.76    | 20.35 | 69.11    | 32.56 | 67.84    | 44.77 | 66.77    | 56.99 | 65.82    | 69.20  | 64.97    | 81.41  |
|                                   | 930  | 75.01    | 21.51 | 73.36    | 34.41 | 72.09    | 47.32 | 71.01    | 60.22 | 70.07    | 73.13  | 69.22    | 86.03  |
|                                   | 990  | 80.11    | 22.90 | 78.45    | 36.63 | 77.18    | 50.37 | 76.11    | 64.11 | 75.17    | 77.85  | 74.31    | 91.58  |
|                                   | 1050 | 85.21    | 24.28 | 83.55    | 38.85 | 82.28    | 53.42 | 81.21    | 67.99 | 80.27    | 82.56  | 79.41    | 97.13  |
|                                   | 1110 | 90.30    | 25.67 | 88.65    | 41.07 | 87.38    | 56.48 | 86.31    | 71.88 | 85.36    | 87.28  | 84.51    | 102.68 |
|                                   | 1180 | 96.25    | 27.29 | 94.60    | 43.66 | 93.32    | 60.04 | 92.25    | 76.41 | 91.31    | 92.79  | 90.46    | 109.16 |
|                                   | 1250 | 102.20   | 28.91 | 100.54   | 46.25 | 99.27    | 63.60 | 98.20    | 80.95 | 97.26    | 98.29  | 96.40    | 115.64 |
|                                   | 1320 | 108.15   | 30.53 | 106.49   | 48.84 | 105.22   | 67.16 | 104.15   | 85.48 | 103.20   | 103.79 | 102.35   | 122.11 |
|                                   | 1390 | 114.09   | 32.15 | 112.44   | 51.43 | 111.17   | 70.72 | 110.09   | 90.01 | 109.15   | 109.30 | 108.30   | 128.59 |
|                                   | 1470 | 120.89   | 34.00 | 119.23   | 54.40 | 117.96   | 74.79 | 116.89   | 95.19 | 115.95   | 115.59 | 115.09   | 135.99 |

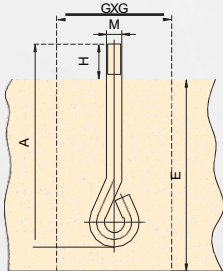
# Installation dimensions (horizontal outlet silencer)



Unit(mm)

| Type    | A   | B   | D  | E   | G     | H    | J   | K   | M    | N   | P   | Q     | R   | S   | T    | U  | d   | n-Ød1  | n-k       |
|---------|-----|-----|----|-----|-------|------|-----|-----|------|-----|-----|-------|-----|-----|------|----|-----|--------|-----------|
| LTX-50  | 235 | 202 | 20 | 412 | 104   | 791  | 56  | 140 | 520  | -   | 98  | 95    | 150 | 105 | 595  | 18 | 125 | 4-Ø18  | 4-M12x160 |
| LTX-65  | 300 | 245 | 20 | 412 | 107   | 971  | 80  | 140 | 520  | -   | 93  | 211   | 150 | 115 | 595  | 18 | 145 | 4-Ø18  | 4-M12x160 |
| LTX-80  | 323 | 273 | 20 | 412 | 110   | 980  | 80  | 160 | 520  | -   | 93  | 188.5 | 180 | 135 | 795  | 18 | 160 | 8-Ø18  | 4-M12x160 |
| LTX-100 | 383 | 300 | 20 | 482 | 115   | 1300 | 80  | 180 | 700  | -   | 80  | 238   | 180 | 150 | 795  | 18 | 180 | 8-Ø18  | 4-M16x220 |
| LTX-125 | 426 | 350 | 20 | 482 | 145   | 1330 | 80  | 180 | 700  | -   | 98  | 195   | 250 | 165 | 1260 | 18 | 210 | 8-Ø18  | 4-M16x220 |
| LTX-150 | 505 | 430 | 24 | 602 | 163.5 | 1910 | 100 | 250 | 950  | -   | 182 | 271   | 250 | 180 | 1260 | 18 | 240 | 8-Ø23  | 4-M16x220 |
| LTX-200 | 605 | 508 | 24 | 602 | 185   | 2020 | 100 | 290 | 950  | -   | 182 | 212   | 250 | 190 | 1645 | 23 | 295 | 8-Ø23  | 6-M20x300 |
| LTX-250 | 565 | 551 | 30 | 940 | 214   | 2395 | 160 | 345 | 1300 | 650 | 310 | 580   | 250 | 230 | 1750 | 38 | 350 | 12-Ø23 | 6-M20x300 |
| LTX-300 | 805 | 726 | 30 | 940 | 255   | 2710 | 160 | 360 | 1500 | 750 | 248 | 470   | 300 | 250 | 1850 | 38 | 400 | 12-Ø23 | 6-M20x300 |

## Anchor bolt

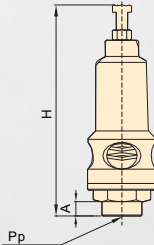


Unit(mm)

| Anchor bolt GB799-88 | A   | H  | E   | GxG     | Application type |
|----------------------|-----|----|-----|---------|------------------|
| M12                  | 160 | 36 | 224 | 100x100 | LTX-50,65,80     |
| M16                  | 220 | 45 | 275 | 120x120 | LTX-100,125,150  |
| M20                  | 300 | 55 | 345 | 150x150 | LTX-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.

## Relief valve



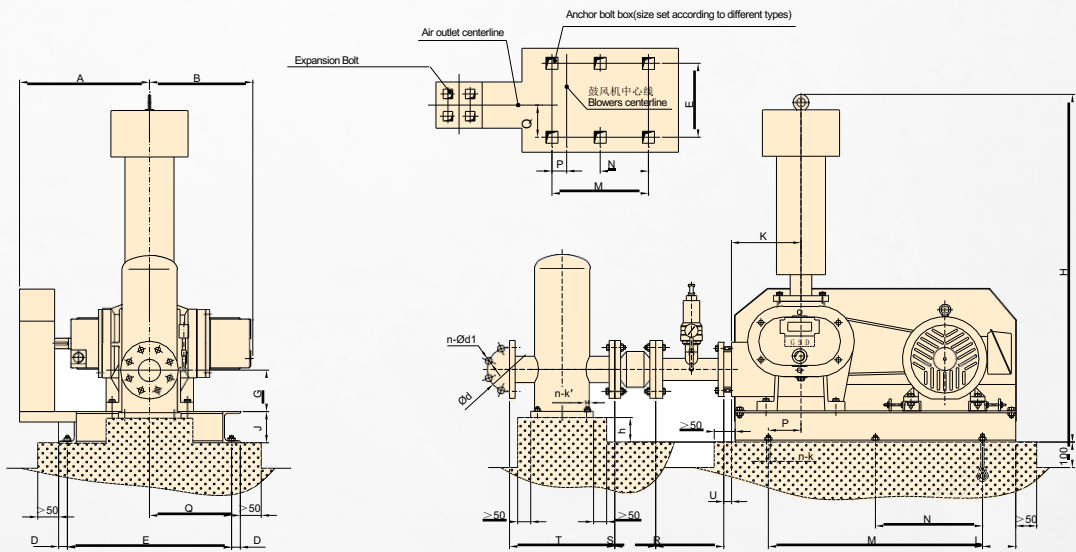
Unit(mm)

| Type     | A  | H   | Application type | Weight (kg) |
|----------|----|-----|------------------|-------------|
| SV1 1/4" | 19 | 145 | LTX-50,65,80     | 0.3         |
| SV2"     | 24 | 185 | LTX-100,125,150  | 1           |
| SV3"     | 30 | 230 | LTX-200,250      | 1.6         |
| SV125    | 90 | 490 | LTX-300          | 29          |

Note: Type DN125 is connect with flange. Refer to JB/T 1.0MPa.



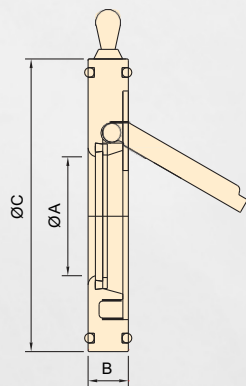
Installation dimensions (vertical outlet silencer)



Unit(mm)

| Type    | A   | B   | D  | E   | G     | H    | J   | K   | M   | N | P   | Q     | R   | S   | T   | U  | h    | d   | n-Ød1 | n-k       | n-k'      |
|---------|-----|-----|----|-----|-------|------|-----|-----|-----|---|-----|-------|-----|-----|-----|----|------|-----|-------|-----------|-----------|
| LTX-50  | 235 | 202 | 20 | 412 | 104   | 791  | 56  | 140 | 520 | - | 98  | 95    | 150 | 105 | 300 | 18 | 64   | 125 | 4-Ø18 | 4-M12x160 | 4-M12x120 |
| LTX-65  | 300 | 245 | 20 | 412 | 107   | 971  | 80  | 140 | 520 | - | 93  | 211   | 150 | 115 | 350 | 18 | 57   | 145 | 4-Ø18 | 4-M12x160 | 4-M12x120 |
| LTX-80  | 323 | 273 | 20 | 412 | 110   | 980  | 80  | 160 | 520 | - | 93  | 188.5 | 180 | 135 | 400 | 18 | 45   | 160 | 8-Ø18 | 4-M12x160 | 4-M12x120 |
| LTX-100 | 383 | 300 | 20 | 482 | 115   | 1300 | 80  | 180 | 700 | - | 80  | 238   | 180 | 150 | 450 | 18 | 40   | 180 | 8-Ø18 | 4-M16x220 | 4-M12x120 |
| LTX-125 | 426 | 350 | 20 | 482 | 145   | 1330 | 80  | 180 | 700 | - | 98  | 195   | 250 | 165 | 500 | 18 | 35   | 210 | 8-Ø18 | 4-M16x220 | 4-M12x120 |
| LTX-150 | 505 | 430 | 24 | 602 | 163.5 | 1910 | 100 | 250 | 950 | - | 182 | 271   | 250 | 180 | 600 | 18 | 53.5 | 240 | 8-Ø22 | 4-M16x220 | 4-M12x120 |
| LTX-200 | 605 | 508 | 24 | 602 | 185   | 2020 | 100 | 290 | 950 | - | 182 | 212   | 250 | 190 | 672 | 23 | 29   | 295 | 8-Ø22 | 6-M20x300 | 4-M12x120 |

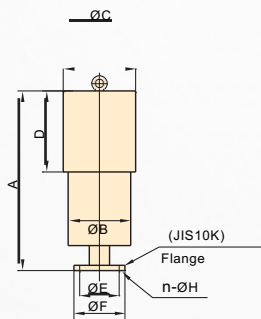
Check valve



Unit(mm)

| Type    | A   | B  | C     | Weight (kg) | Application type |
|---------|-----|----|-------|-------------|------------------|
| DCV-50  | 37  | 18 | 102.5 | 1           | LTX-50           |
| DCV-65  | 45  | 18 | 122.5 | 1.4         | LTX-65           |
| DCV-80  | 52  | 22 | 132   | 0.8         | LTX-80           |
| DCV-100 | 65  | 22 | 158   | 0.9         | LTX-100          |
| DCV-125 | 90  | 22 | 190   | 1.2         | LTX-125          |
| DCV-150 | 115 | 22 | 215   | 1.5         | LTX-150          |
| DCV-200 | 160 | 25 | 268   | 2.6         | LTX-200          |
| DCV-250 | 180 | 38 | 325   | 12.5        | LTX-250          |
| DCV-300 | 213 | 38 | 375   | 18.5        | LTX-300          |

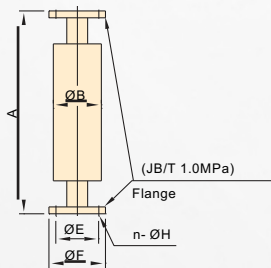
# Suction silencer



Unit(mm)

| Type  | A    | B   | C   | D   | E   | F   | n-ØH   | Weight (kg) | Application type |
|-------|------|-----|-----|-----|-----|-----|--------|-------------|------------------|
| SS50  | 550  | 133 | 150 | 220 | 120 | 155 | 4-Ø19  | 10          | LTX-50           |
| SS65  | 550  | 159 | 190 | 280 | 140 | 175 | 4-Ø19  | 12          | LTX-65           |
| SS80  | 820  | 219 | 245 | 280 | 150 | 185 | 8-Ø19  | 21          | LTX-80           |
| SS100 | 820  | 245 | 273 | 330 | 175 | 210 | 8-Ø19  | 27          | LTX-100          |
| SS125 | 1310 | 273 | 310 | 350 | 210 | 250 | 8-Ø23  | 45          | LTX-125          |
| SS150 | 1310 | 299 | 340 | 370 | 240 | 280 | 8-Ø23  | 52          | LTX-150          |
| SS200 | 1500 | 330 | 380 | 370 | 290 | 330 | 12-Ø23 | 81          | LTX-200          |
| SS250 | 1700 | 400 | 480 | 550 | 355 | 400 | 12-Ø25 | 98          | LTX-250          |
| SS300 | 1825 | 500 | 600 | 650 | 400 | 445 | 16-Ø25 | 135         | LTX-300          |

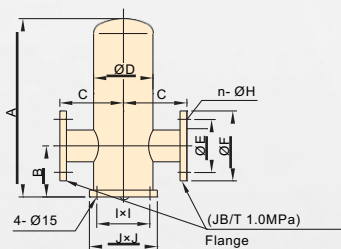
# Horizontal outlet silencer



Unit(mm)

| Type  | A    | B   | E   | F   | n-ØH   | Weight (kg) | Application type |
|-------|------|-----|-----|-----|--------|-------------|------------------|
| DS50  | 595  | 159 | 125 | 160 | 4-Ø18  | 12          | LTX-50           |
| DS65  | 595  | 159 | 145 | 180 | 4-Ø18  | 13.5        | LTX-65           |
| DS80  | 795  | 219 | 160 | 195 | 8-Ø18  | 24          | LTX-80           |
| DS100 | 795  | 219 | 180 | 215 | 8-Ø18  | 25          | LTX-100          |
| DS125 | 1260 | 290 | 210 | 245 | 8-Ø18  | 48          | LTX-125          |
| DS150 | 1260 | 290 | 240 | 280 | 8-Ø23  | 51          | LTX-150          |
| DS200 | 1645 | 356 | 295 | 335 | 8-Ø23  | 79          | LTX-200          |
| DS250 | 1750 | 405 | 350 | 390 | 12-Ø23 | 98          | LTX-250          |
| DS300 | 1850 | 484 | 400 | 440 | 12-Ø23 | 140         | LTX-300          |

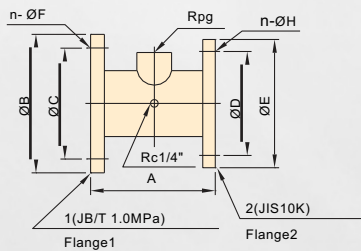
# Vertical outlet silencer



Unit(mm)

| Type   | A    | B   | C   | D   | E   | F   | n-ØH  | I   | J   | Weight (kg) | Application type |
|--------|------|-----|-----|-----|-----|-----|-------|-----|-----|-------------|------------------|
| VDS50  | 420  | 120 | 150 | 140 | 125 | 165 | 4-Ø18 | 125 | 160 | 19.0        | LTX-50           |
| VDS65  | 480  | 130 | 175 | 191 | 145 | 185 | 4-Ø18 | 170 | 210 | 27.0        | LTX-65           |
| VDS80  | 595  | 145 | 200 | 216 | 160 | 200 | 8-Ø18 | 190 | 235 | 36.9        | LTX-80           |
| VDS100 | 660  | 155 | 225 | 267 | 180 | 220 | 8-Ø18 | 230 | 280 | 51.8        | LTX-100          |
| VDS125 | 800  | 190 | 250 | 280 | 210 | 250 | 8-Ø18 | 240 | 300 | 65.9        | LTX-125          |
| VDS150 | 920  | 210 | 300 | 356 | 240 | 285 | 8-Ø22 | 290 | 376 | 99.6        | LTX-150          |
| VDS200 | 1050 | 256 | 325 | 406 | 295 | 340 | 8-Ø22 | 350 | 425 | 131.5       | LTX-200          |

# "T" -Joint

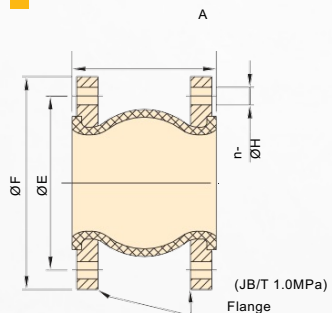


Unit(mm)

| Type  | A   | B   | C   | n-ØF   | E   | D   | n-ØH   | g      | Weight (kg) | Application type |
|-------|-----|-----|-----|--------|-----|-----|--------|--------|-------------|------------------|
| HJ50  | 150 | 160 | 125 | 4-Ø18  | 155 | 120 | 4-Ø19  | 1 1/4" | 5.8         | LTX-50           |
| HJ65  | 150 | 180 | 145 | 4-Ø18  | 175 | 140 | 4-Ø19  | 1 1/4" | 7.5         | LTX-65           |
| HJ80  | 180 | 195 | 160 | 8-Ø18  | 185 | 150 | 8-Ø19  | 1 1/4" | 9           | LTX-80           |
| HJ100 | 180 | 215 | 180 | 8-Ø18  | 210 | 175 | 8-Ø19  | 2"     | 11.5        | LTX-100          |
| HJ125 | 250 | 245 | 210 | 8-Ø18  | 250 | 210 | 8-Ø23  | 2"     | 15.5        | LTX-125          |
| HJ150 | 250 | 280 | 240 | 8-Ø23  | 280 | 240 | 8-Ø23  | 2"     | 18          | LTX-150          |
| HJ200 | 250 | 335 | 295 | 8-Ø23  | 330 | 290 | 12-Ø23 | 3"     | 23          | LTX-200          |
| HJ250 | 250 | 390 | 350 | 12-Ø23 | 400 | 355 | 12-Ø25 | 3"     | 40          | LTX-250          |
| HJ300 | 300 | 440 | 400 | 12-Ø23 | 445 | 400 | 16-Ø25 | DN125  | 45          | LTX-300          |

Note: Type DN125 refer to JB/T 1.0MPa.

Flexible Connector



Unit(mm)

| Type   | A   | E   | F   | n-ØH   | Weight (kg) | Application type |
|--------|-----|-----|-----|--------|-------------|------------------|
| KXT50  | 105 | 125 | 165 | 4-Ø18  | 3.0         | LTX-50           |
| KXT65  | 115 | 145 | 185 | 4-Ø18  | 3.5         | LTX-65           |
| KXT80  | 135 | 160 | 200 | 8-Ø18  | 4.0         | LTX-80           |
| KXT100 | 150 | 180 | 220 | 8-Ø18  | 5.0         | LTX-100          |
| KXT125 | 165 | 210 | 250 | 8-Ø18  | 6.5         | LTX-125          |
| KXT150 | 180 | 240 | 285 | 8-Ø22  | 9.5         | LTX-150          |
| KXT200 | 190 | 295 | 340 | 8-Ø22  | 16.0        | LTX-200          |
| KXT250 | 230 | 350 | 395 | 12-Ø22 | 25.0        | LTX-250          |
| KXT300 | 250 | 400 | 445 | 12-Ø22 | 42          | LTX-300          |

Applications

Water treatment

**1** Aeration of swage

Incinerator

**5** Used for combustion, increasing oxygen to promote combustion

Pipe clearing

**9** Use gas blowing sand to flush pipes

Brewery and beverage industry

**2** Clean up the bottle's dead angle by gas

Fermenting plant

**6** Increasing oxygen to promote the fermentation

Electroplate factory

**10** Stir gas liquid, make its uniformity

spray finishing

**3** Use gas spraying fire-resistant material on the wall

Car washing

**7** Use washing fluid washing car base on siphon principle

Sauna

**11** Do body massage, promote the blood circulation

Fishery

**4** Increasing oxygen in water

Paper mill

**8** The mechanical arm carries the paper after it has been dried by the wind

Conveying

**12** Use gas conveying materials

# WASTEX

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