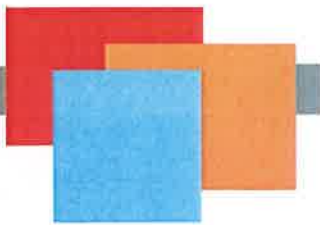
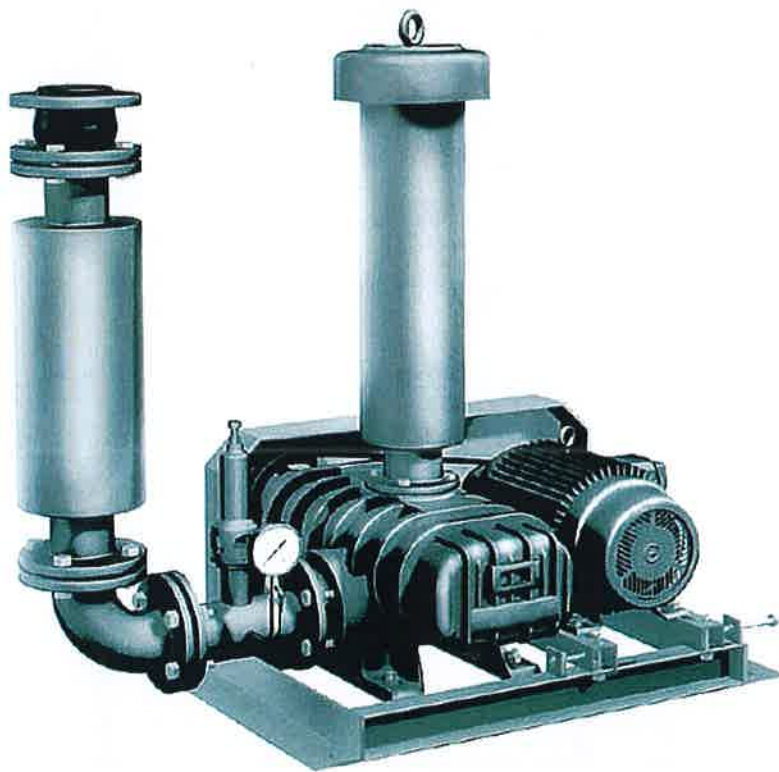


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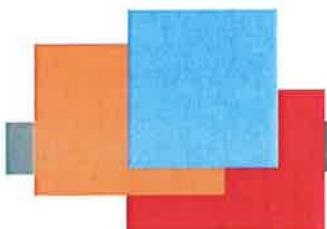


# WIND MAXX



## WM-WML SERIES

### THREE LOBE ROTARY BLOWER



# THREE-LOBE ROOTS BLOWER

**WIND MAXX** is professional manufacturer for three-lobe roots blower in Taiwan, with our diligence, faith and honor for developing roots blower. blowers, And high efficiency blowers

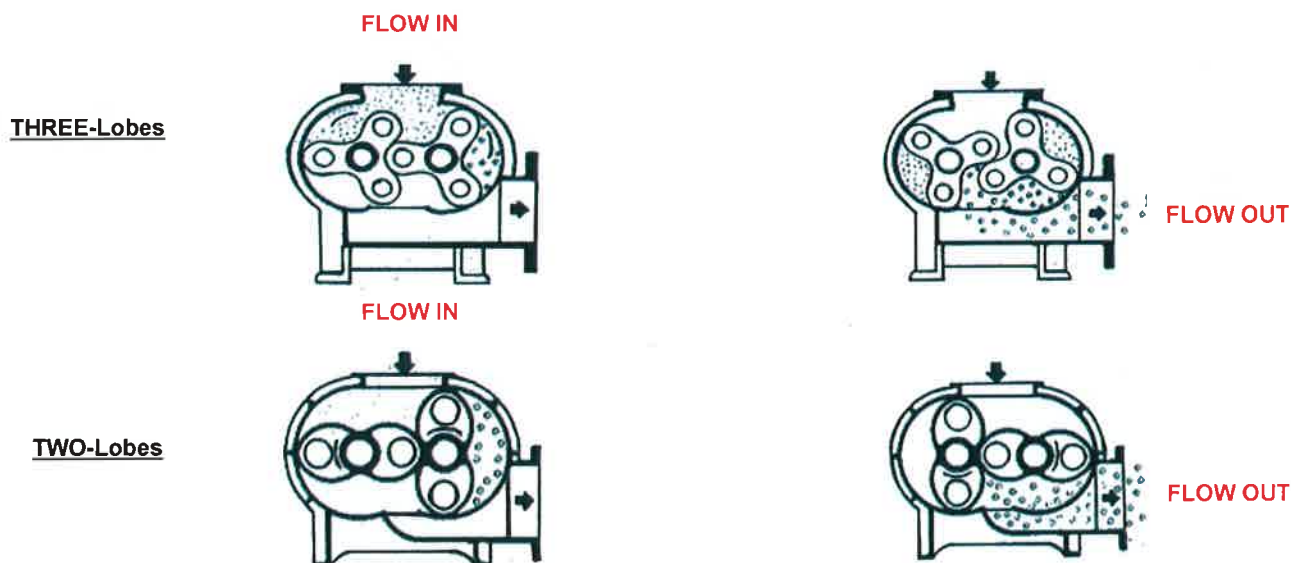
## FEATURES :

- |                                                                                                                                                                                                         |                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Wide range of capacity, pressure, vacuum<br>Bore size : 50 mm ~ 300 mm (2" to 12")<br>Capacity : 1.02 ~ 264.94 m <sup>3</sup> /min<br>Pressure : WM-SERIES up to 8000 mmAq (0.8 Kg/cm <sup>2</sup> ) | 6. Solid construction, no defect<br>7. First degree gear, high precision, low consumption<br>8. Standardized processing system<br>9. One step process for rotor<br>10. Piston ring installed |
| 2. Air blower delivers completely oil-free air                                                                                                                                                          |                                                                                                                                                                                              |
| 3. Computerized balance to lower noise level and vibration                                                                                                                                              |                                                                                                                                                                                              |
| 4. Steady blow, steady capacity                                                                                                                                                                         |                                                                                                                                                                                              |
| 5. Rotor of special design, high efficiency, low consumption                                                                                                                                            |                                                                                                                                                                                              |

**The difference between roots blowers of TWO lobes and THREE lobes**  
Traditional TWO lobes roots blower has high vibration and noise level, this causes short life of

## THE ADVANTAGE OF THREE-LOBE ROOTS BLOWER :

1. Low reverse pressure, steady capacity, low vibration, low noise level
2. Low fluctuation of outlet pressure, make long life of bearing, gear
3. In the same RPM, THREE-lobe roots blower has low noise level, low vibration, longer life



## APPLICATIONS :

1. Waste water treatment plant
2. Dust collecting after burning
3. Equipment of dust collection
4. Vacuum dehydration for dying, paper industry
5. Ventilation, desolates
6. Environment caring
7. Air exhaust, air dry
8. Air transportation
9. Gas, bulk conveyance
10. Aquarium
11. Conveyance by air
12. Liquid agitation

## UNIT CONVERSION :

### PRESSURE

| PRESSURE              | mbar                   | Pa                    | atm                    | 1bt/in <sup>2</sup>   | Kgf/cm <sup>2</sup>   | in Hg                  | mmAq                  |
|-----------------------|------------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|-----------------------|
| 1 mbar                | 1                      | 10 <sup>2</sup>       | 9.869x10 <sup>-4</sup> | 1.45x10 <sup>-2</sup> | 1.02x10 <sup>-3</sup> | 2.953x10 <sup>-2</sup> | 10.197                |
| 1 Pa                  | 0.01                   | 1                     | 9.87x10 <sup>-5</sup>  | 1.45x10 <sup>-4</sup> | 1.02x10 <sup>-5</sup> | 2.953x10 <sup>-4</sup> | 0.102                 |
| 1 atm                 | 1.013x10 <sup>3</sup>  | 1.013x10 <sup>5</sup> | 1                      | 14.7                  | 1.033                 | 29.92                  | 1.033x10 <sup>4</sup> |
| 1 lb/in <sup>2</sup>  | 68.95                  | 6.895x10 <sup>3</sup> | 6.805x10 <sup>-2</sup> | 1                     | 7.03x10 <sup>-2</sup> | 2.036                  | 7.03x10 <sup>2</sup>  |
| 1 kgf/cm <sup>2</sup> | 9.807x10 <sup>2</sup>  | 9.807x10 <sup>4</sup> | 0.968                  | 14.22                 | 1                     | 28.96                  | 10 <sup>4</sup>       |
| 1 in Hg               | 33.86                  | 3.386x10 <sup>3</sup> | 3.342x10 <sup>-2</sup> | 0.491                 | 3.45x10 <sup>-2</sup> | 1                      | 3.45x10 <sup>2</sup>  |
| 1 mmAq                | 9.807x10 <sup>-2</sup> | 9.807                 | 9.667x10 <sup>-5</sup> | 1.42x10 <sup>-3</sup> | 10 <sup>-4</sup>      | 2.896x10 <sup>-3</sup> | 1                     |

### Pressure Conversion Formula

- 1 Pa = 0.102 mmAq  
 1 mbar = 10.197 mmAq  
 1 mmHg = 13.6 mmAq  
 1 psi = 703 mmAq  
 1 Torr = 133.3 Pa  
 1 Torr = 1.333 mbar

### CAPACITY

| CAPACITY                    | m <sup>3</sup> /min | m <sup>3</sup> /h | l/min | ft <sup>3</sup> /min(ctm) |
|-----------------------------|---------------------|-------------------|-------|---------------------------|
| 1 m <sup>3</sup> /min       | 1                   | 60                | 1000  | 35.31                     |
| 1 m <sup>3</sup> /h         | 0.017               | 1                 | 16.67 | 0.589                     |
| 1 l/min                     | 0.001               | 0.06              | 1     | 0.035                     |
| 1 ft <sup>3</sup> /min(ctm) | 0.028               | 1.699             | 28.32 | 1                         |

### POWER

| POWER      | kg-m/sec | kw    | HP    | PS    |
|------------|----------|-------|-------|-------|
| 1 kg-m/sec | 1        | 0.01  | 0.013 | 0.013 |
| 1 kW       | 101.97   | 1     | 1.341 | 1.360 |
| 1 HP       | 76.038   | 0.746 | 1     | 1.014 |
| 1 PS       | 75       | 0.736 | 0.986 | 1     |

## HOW TO SELECT THE BLOWER :

### 1. Application and conditions :

Describe the purpose of use, continuous or intermittent operation.

### 2. Capacity :

Describe whether the flow rate is at standard condition or normal condition (unless specified, the flow rate will be calculated as a flow rate under suction condition, and it is not handled as discharge flow rate i.e. at 760 mmHg, 20°C 65% RH or standard contion.)

### 3. Pressure :

Describe whether pressure is constant or variable, if variable, specify the range and the relationship between air flow rate and pressure. Describe whether pressure shows static pressure of the discharge or difference between suction and discharge pressure. State whether suction pressure is atmospheric pressure. Otherwise, specify suction and discharge pressure respectively.

### 4. Type of Gas and Specific Gravity :

Specify the follwing points: Type of gas and its compon-  
 ents, content of impurities and their sizes, specific gravity,  
 chemical properties, suggestions for materials, explosive  
 and/or toxious nature (regarded as normal-temperature,  
 normal-pressure air unless specified).

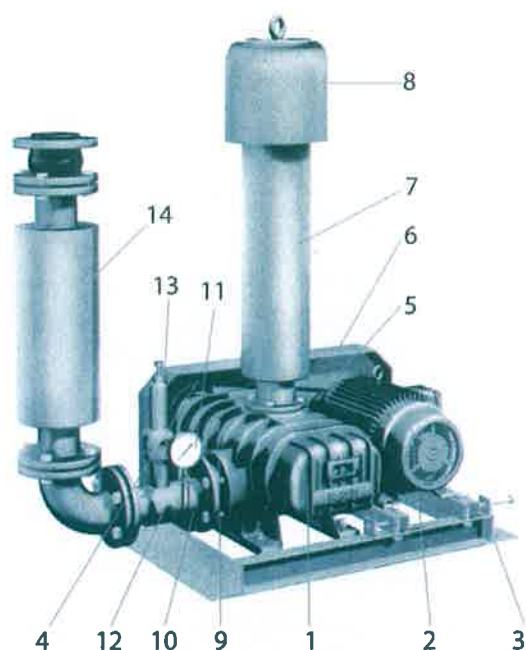
### 5. Gas Temperature

Roots Blowers are normally used for normal  
 temperature at suction. If suction temperature is higher  
 than normal temperature, please inform HEY-WEL CO.

### 6. Type of Prime Mover

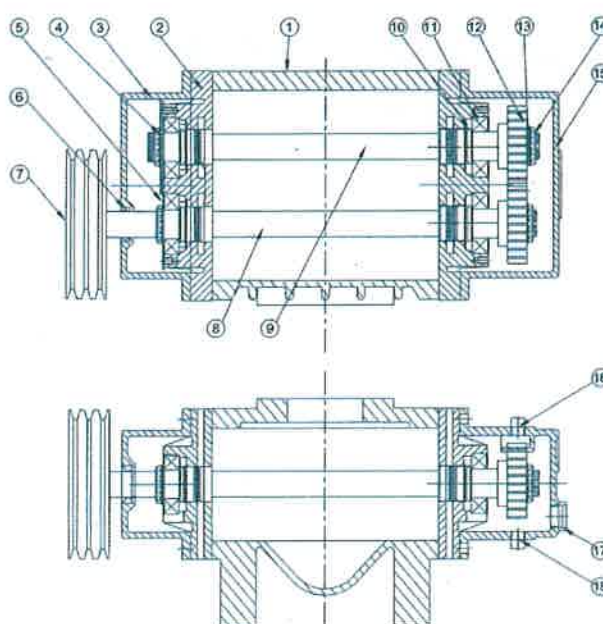
When a motor is used as the prime mover, Specify the  
 voltage, frequency and power supply condition ect.

## CONSTRUCTION



| NO. | ACCESSORIES           |
|-----|-----------------------|
| 1   | Blower body           |
| 2   | Motor                 |
| 3   | Foundation            |
| 4   | Fulley                |
| 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       |

| NO. | ACCESSORIES        | MATERAIL |
|-----|--------------------|----------|
| 1   | Casing             | FC250    |
| 2   | Bearing housing    | FC250    |
| 3   | Oil box            | FC250    |
| 4   | Oil splash         | SS400    |
| 5   | Bearing washer     | SS400    |
| 6   | Framework oil seal | NBR      |
| 7   | Pulley             | FC250    |
| 8   | Drive rotor        | FC251    |
| 9   | Drive rotor        | FC252    |
| 10  | V-ring             | NBR      |
| 11  | Bearing            | SUJ2     |
| 12  | Gear               | SCM435   |
| 13  | Lock washer        | SS400    |
| 14  | Lock nut           | S45C     |
| 15  | Gear box           | FC250    |
| 16  | Lubrication plug   | S45C     |
| 17  | Oil gauge          | Assembly |
| 18  | Purge plug         | S45C     |



# SELECTION CHART WML-SERIES

NOTE : inlet flow rate  $Q_s = m^3/min$  and  $La, Kw$

| Model   | RPM  | PERFORMANCE |      |          |      |          |      |          |       |          |       |          |       |
|---------|------|-------------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|
|         |      | 1000mmAq    |      | 2000mmAq |      | 3000mmAq |      | 4000mmAq |       | 5000mmAq |       | 6000mmAq |       |
|         |      | $Q_s$       | $La$ | $Q_s$    | $La$ | $Q_s$    | $La$ | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  |
| WML-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  |
| WML-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  |
| WML-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  |
| WML-100 | 800  | 4.11        | 1.30 | 3.83     | 2.09 | 3.62     | 2.87 | 3.44     | 3.65  | 3.28     | 4.44  | 3.13     | 5.22  |
|         | 900  | 4.71        | 1.47 | 4.43     | 2.35 | 4.22     | 3.23 | 4.03     | 4.11  | 3.87     | 4.99  | 3.73     | 5.87  |
|         | 1000 | 5.31        | 1.63 | 5.03     | 2.61 | 4.82     | 3.59 | 4.63     | 4.57  | 4.47     | 5.55  | 4.33     | 6.52  |
|         | 1100 | 5.91        | 1.79 | 5.63     | 2.87 | 5.42     | 3.95 | 5.23     | 5.02  | 5.07     | 6.10  | 4.93     | 7.18  |
|         | 1200 | 6.51        | 1.96 | 6.23     | 3.13 | 6.01     | 4.31 | 5.83     | 5.48  | 5.67     | 6.65  | 5.53     | 7.83  |
|         | 1300 | 7.11        | 2.12 | 6.83     | 3.39 | 6.61     | 4.66 | 6.43     | 5.94  | 6.27     | 7.21  | 6.13     | 8.48  |
|         | 1400 | 7.71        | 2.28 | 7.43     | 3.65 | 7.21     | 5.02 | 7.03     | 6.39  | 6.87     | 7.76  | 6.73     | 9.13  |
|         | 1500 | 8.31        | 2.45 | 8.03     | 3.91 | 7.81     | 5.38 | 7.63     | 6.85  | 7.47     | 8.32  | 7.32     | 9.79  |
|         | 1600 | 8.91        | 2.61 | 8.63     | 4.18 | 8.41     | 5.74 | 8.23     | 7.31  | 8.07     | 8.87  | 7.92     | 10.44 |
|         | 1650 | 9.21        | 2.69 | 8.93     | 4.31 | 8.71     | 5.92 | 8.53     | 7.54  | 8.37     | 9.15  | 8.22     | 10.76 |
| WML-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 |

# SELECTION CHART WML-SERIES

NOTE : inlet flow rate  $Q_s = m^3/min$  and  $La, Kw$

| Model   | RPM  | PERFORMANCE |       |          |       |          |       |          |       |          |        |          |        |
|---------|------|-------------|-------|----------|-------|----------|-------|----------|-------|----------|--------|----------|--------|
|         |      | 1000mmAq    |       | 2000mmAq |       | 3000mmAq |       | 4000mmAq |       | 5000mmAq |        | 6000mmAq |        |
|         |      | $Q_s$       | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$   | $Q_s$    | $La$   |
| WML-150 | 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  |
|         | 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  |
| WML-200 | 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  |
|         | 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    | 38.05 | 49.75    | 47.03  | 49.26    | 55.99  |
| WML-250 | 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  |
|         | 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  |
|         | 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  | 47.50    | 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  |
| WML-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 |

# SELECTION CHART WM-SERIES

NOTE : inlet flow rate  $Q_s = m^3/min$  and  $La, Kw$

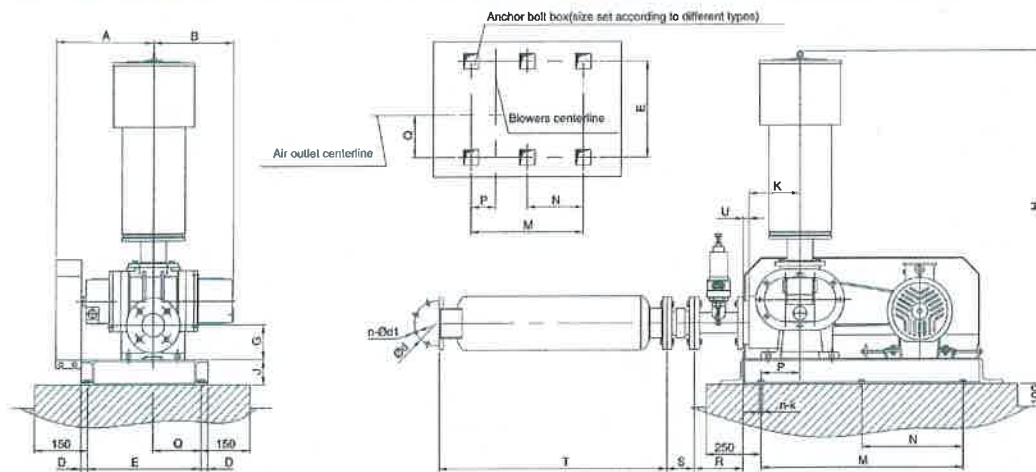
| Model  | RPM  | PERFORMANCE |      |          |       |          |       |          |       |          |       |          |       |          |       |          |       |
|--------|------|-------------|------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
|        |      | 1000mmAq    |      | 2000mmAq |       | 3000mmAq |       | 4000mmAq |       | 5000mmAq |       | 6000mmAq |       | 7000mmAq |       | 8000mmAq |       |
|        |      | $Q_s$       | $La$ | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  | $Q_s$    | $La$  |
| WM-50  | 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  | 1.14     | 2.79  | 1.07     | 3.15  |
|        | 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  | 1.40     | 3.11  | 1.33     | 3.52  |
|        | 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  | 1.67     | 3.44  | 1.59     | 3.89  |
|        | 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  | 1.93     | 3.77  | 1.85     | 4.26  |
|        | 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  | 2.19     | 4.10  | 2.11     | 4.63  |
|        | 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  | 2.45     | 4.42  | 2.37     | 5.00  |
|        | 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  | 2.71     | 4.75  | 2.64     | 5.37  |
|        | 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  | 2.97     | 5.08  | 2.90     | 5.74  |
|        | 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  | 3.23     | 5.41  | 3.16     | 6.11  |
| WM-65  | 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  | 1.53     | 3.54  | 1.44     | 4.01  |
|        | 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  | 1.87     | 3.96  | 1.78     | 4.49  |
|        | 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  | 2.21     | 4.38  | 2.12     | 4.96  |
|        | 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  | 2.55     | 4.79  | 2.46     | 5.43  |
|        | 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  | 2.89     | 5.21  | 2.80     | 5.90  |
|        | 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  | 3.23     | 5.63  | 3.14     | 6.38  |
|        | 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  | 3.57     | 6.04  | 3.48     | 6.85  |
|        | 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  | 3.91     | 6.46  | 3.82     | 7.32  |
|        | 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  | 4.25     | 6.88  | 4.16     | 7.79  |
| WM-80  | 800  | 4.11        | 1.30 | 3.83     | 2.09  | 3.62     | 2.87  | 3.44     | 3.65  | 3.28     | 4.44  | 3.13     | 5.22  | 3.00     | 6.00  | 2.87     | 6.78  |
|        | 900  | 4.71        | 1.47 | 4.43     | 2.35  | 4.22     | 3.23  | 4.03     | 4.11  | 3.87     | 4.99  | 3.73     | 5.87  | 3.60     | 6.75  | 3.47     | 7.63  |
|        | 1000 | 5.31        | 1.63 | 5.03     | 2.61  | 4.82     | 3.59  | 4.63     | 4.57  | 4.47     | 5.55  | 4.33     | 6.52  | 4.20     | 7.50  | 4.07     | 8.48  |
|        | 1100 | 5.91        | 1.79 | 5.63     | 2.87  | 5.42     | 3.95  | 5.23     | 5.02  | 5.07     | 6.10  | 4.93     | 7.18  | 4.79     | 8.25  | 4.67     | 9.33  |
|        | 1200 | 6.51        | 1.96 | 6.23     | 3.13  | 6.01     | 4.31  | 5.83     | 5.48  | 5.67     | 6.65  | 5.53     | 7.83  | 5.39     | 9.00  | 5.27     | 10.18 |
|        | 1300 | 7.11        | 2.12 | 6.83     | 3.39  | 6.61     | 4.66  | 6.43     | 5.94  | 6.27     | 7.21  | 6.13     | 8.48  | 5.99     | 9.75  | 5.87     | 11.03 |
|        | 1400 | 7.71        | 2.28 | 7.43     | 3.65  | 7.21     | 5.02  | 7.03     | 6.39  | 6.87     | 7.76  | 6.73     | 9.13  | 6.59     | 10.50 | 6.47     | 11.87 |
|        | 1500 | 8.31        | 2.45 | 8.03     | 3.91  | 7.81     | 5.38  | 7.63     | 6.85  | 7.47     | 8.32  | 7.32     | 9.79  | 7.19     | 11.25 | 7.07     | 12.72 |
|        | 1600 | 8.91        | 2.61 | 8.63     | 4.18  | 8.41     | 5.74  | 8.23     | 7.31  | 8.07     | 8.87  | 7.92     | 10.44 | 7.79     | 12.00 | 7.67     | 13.57 |
|        | 1650 | 9.21        | 2.69 | 8.93     | 4.31  | 8.71     | 5.92  | 8.53     | 7.54  | 8.37     | 9.15  | 8.22     | 10.76 | 8.09     | 12.38 | 7.97     | 13.99 |
| WM-100 | 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  | 4.24     | 8.55  | 4.07     | 9.65  |
|        | 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  | 5.08     | 9.62  | 4.91     | 10.85 |
|        | 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  | 5.91     | 10.69 | 5.74     | 12.06 |
|        | 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 | 6.75     | 11.76 | 6.58     | 13.27 |
|        | 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 | 7.59     | 12.83 | 7.42     | 14.47 |
|        | 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 | 8.43     | 13.90 | 8.26     | 15.68 |
|        | 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 | 9.27     | 14.97 | 9.10     | 16.88 |
|        | 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 | 10.11    | 16.03 | 9.94     | 18.09 |
|        | 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 | 10.95    | 17.10 | 10.78    | 19.30 |
|        | 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 | 11.37    | 17.64 | 11.20    | 19.90 |
| WM-125 | 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 | 10.39    | 17.55 | 10.14    | 19.84 |
|        | 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 | 11.28    | 18.68 | 11.03    | 21.11 |
|        | 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 | 12.18    | 19.80 | 11.93    | 22.39 |
|        | 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 | 13.08    | 20.93 | 12.83    | 23.66 |
|        | 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 | 14.16    | 22.28 | 13.91    | 25.18 |
|        | 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 | 15.24    | 23.63 | 14.99    | 26.71 |
|        | 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 | 16.32    | 24.98 | 16.07    | 28.24 |
|        | 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 | 17.57    | 26.55 | 17.32    | 30.02 |
|        | 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 | 18.83    | 28.13 | 18.58    | 31.80 |
|        | 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 | 20.09    | 29.70 | 19.84    | 33.58 |
|        | 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 | 21.35    | 31.28 | 21.10    | 35.36 |
|        | 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 | 22.79    | 33.08 | 22.53    | 37.39 |
|        | 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 | 24.40    | 35.10 | 24.17    | 39.68 |
|        | 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 | 26.02    | 37.13 | 25.77    | 41.97 |

# SELECTION CHART WM-SERIES

NOTE : inlet flow rate Qs=m<sup>3</sup>/min and La,Kw

| Model  | RPM  | PERFORMANCE |       |          |       |          |        |          |        |          |        |          |        |          |        |          |        |
|--------|------|-------------|-------|----------|-------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
|        |      | 1000mmAq    |       | 2000mmAq |       | 3000mmAq |        | 4000mmAq |        | 5000mmAq |        | 6000mmAq |        | 7000mmAq |        | 8000mmAq |        |
|        |      | Qs          | La    | Qs       | La    | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     |
| WM-150 | 780  | 16.35       | 4.92  | 15.64    | 7.87  | 15.09    | 10.82  | 14.62    | 13.78  | 14.22    | 16.73  | 13.85    | 19.68  | 13.51    | 22.63  | 13.20    | 25.59  |
|        | 830  | 17.51       | 5.24  | 16.79    | 8.38  | 16.25    | 11.52  | 15.78    | 14.66  | 15.38    | 17.80  | 15.01    | 20.94  | 14.67    | 24.08  | 14.35    | 27.23  |
|        | 880  | 18.67       | 5.55  | 17.95    | 8.88  | 17.40    | 12.21  | 16.94    | 15.54  | 16.53    | 18.87  | 16.17    | 22.20  | 15.83    | 25.53  | 15.51    | 28.87  |
|        | 930  | 19.83       | 5.87  | 19.11    | 9.39  | 18.56    | 12.91  | 18.10    | 16.43  | 17.69    | 19.95  | 17.33    | 23.47  | 16.99    | 26.99  | 16.67    | 30.51  |
|        | 990  | 21.22       | 6.24  | 20.50    | 9.99  | 19.95    | 13.74  | 19.49    | 17.49  | 19.08    | 21.23  | 18.72    | 24.98  | 18.38    | 28.73  | 18.06    | 32.47  |
|        | 1050 | 22.61       | 6.62  | 21.89    | 10.60 | 21.34    | 14.57  | 20.88    | 18.55  | 20.47    | 22.52  | 20.11    | 26.49  | 19.77    | 30.47  | 19.45    | 34.44  |
|        | 1110 | 24.00       | 7.00  | 23.28    | 11.20 | 22.73    | 15.40  | 22.27    | 19.61  | 21.86    | 23.81  | 21.50    | 28.01  | 21.16    | 32.21  | 20.84    | 36.41  |
|        | 1180 | 25.62       | 7.44  | 24.90    | 11.91 | 24.36    | 16.38  | 23.89    | 20.84  | 23.49    | 25.31  | 23.12    | 29.77  | 22.78    | 34.24  | 22.46    | 38.71  |
|        | 1250 | 27.24       | 7.89  | 26.53    | 12.62 | 25.98    | 17.35  | 25.52    | 22.08  | 25.11    | 26.81  | 24.74    | 31.54  | 24.40    | 36.27  | 24.09    | 41.00  |
|        | 1320 | 28.86       | 8.33  | 28.15    | 13.32 | 27.60    | 18.32  | 27.14    | 23.31  | 26.73    | 28.31  | 26.36    | 33.31  | 26.02    | 38.30  | 25.71    | 43.30  |
|        | 1390 | 30.48       | 8.77  | 29.77    | 14.03 | 29.22    | 19.29  | 28.76    | 24.55  | 28.35    | 29.81  | 27.98    | 35.07  | 27.65    | 40.33  | 27.33    | 45.59  |
|        | 1470 | 32.34       | 9.27  | 31.62    | 14.84 | 31.08    | 20.40  | 30.61    | 25.96  | 30.21    | 31.53  | 29.84    | 37.09  | 29.50    | 42.65  | 29.18    | 48.22  |
|        | 1560 | 34.42       | 9.84  | 33.71    | 15.74 | 33.16    | 21.65  | 32.70    | 27.55  | 32.29    | 33.46  | 31.92    | 39.36  | 31.59    | 45.27  | 31.27    | 51.17  |
|        | 1650 | 36.51       | 10.41 | 35.80    | 16.65 | 35.25    | 22.90  | 34.78    | 29.14  | 34.38    | 35.39  | 34.01    | 41.63  | 33.67    | 47.88  | 33.36    | 54.12  |
| WM-200 | 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  | 35.58    | 52.66  | 35.13    | 59.53  |
|        | 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  | 37.97    | 55.65  | 37.52    | 62.91  |
|        | 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  | 40.83    | 59.24  | 40.39    | 66.97  |
|        | 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  | 43.70    | 62.83  | 43.25    | 71.03  |
|        | 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  | 46.57    | 66.42  | 46.12    | 75.09  |
|        | 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  | 49.91    | 70.61  | 49.47    | 79.82  |
|        | 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  | 53.26    | 74.80  | 52.81    | 84.56  |
|        | 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  | 56.60    | 78.99  | 56.16    | 89.29  |
|        | 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  | 59.95    | 83.18  | 59.50    | 94.03  |
|        | 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  | 63.77    | 87.97  | 63.33    | 99.44  |
| WM-250 | 830  | 50.02       | 14.40 | 48.83    | 23.03 | 47.92    | 31.67  | 47.15    | 40.31  | 46.48    | 48.95  | 45.87    | 57.59  | 45.30    | 66.22  | 44.78    | 74.86  |
|        | 880  | 53.21       | 15.26 | 52.02    | 24.42 | 51.11    | 33.58  | 50.34    | 42.74  | 49.66    | 51.90  | 49.05    | 61.06  | 48.49    | 70.21  | 47.97    | 79.37  |
|        | 930  | 56.39       | 16.13 | 55.20    | 25.81 | 54.29    | 35.49  | 53.53    | 45.17  | 52.85    | 54.85  | 52.24    | 64.52  | 51.68    | 74.20  | 51.15    | 83.88  |
|        | 990  | 60.21       | 17.17 | 59.03    | 27.48 | 58.12    | 37.78  | 57.35    | 48.08  | 56.67    | 58.38  | 56.06    | 68.69  | 55.50    | 78.99  | 54.97    | 89.29  |
|        | 1050 | 64.04       | 18.21 | 62.85    | 29.14 | 61.94    | 40.07  | 61.17    | 51.00  | 60.50    | 61.92  | 59.88    | 72.85  | 59.32    | 83.78  | 58.80    | 94.71  |
|        | 1110 | 67.86       | 19.25 | 66.67    | 30.81 | 65.76    | 42.36  | 64.99    | 53.91  | 64.32    | 65.46  | 63.71    | 77.01  | 63.14    | 88.57  | 62.62    | 100.12 |
|        | 1180 | 72.32       | 20.47 | 71.13    | 32.75 | 70.22    | 45.03  | 69.46    | 57.31  | 68.78    | 69.59  | 68.17    | 81.87  | 67.60    | 94.15  | 67.08    | 106.43 |
|        | 1250 | 76.78       | 21.68 | 75.59    | 34.69 | 74.68    | 47.70  | 73.92    | 60.71  | 73.24    | 73.72  | 72.63    | 86.73  | 72.06    | 99.74  | 71.54    | 112.75 |
|        | 1320 | 81.24       | 22.90 | 80.05    | 36.63 | 79.14    | 50.37  | 78.38    | 64.11  | 77.70    | 77.85  | 77.09    | 91.58  | 76.53    | 105.32 | 76.00    | 119.06 |
|        | 1390 | 85.70       | 24.11 | 84.51    | 38.58 | 83.60    | 53.04  | 82.84    | 67.51  | 82.16    | 81.97  | 81.55    | 96.44  | 80.99    | 110.91 | 80.46    | 125.37 |
| WM-300 | 1470 | 90.80       | 25.50 | 89.61    | 40.80 | 88.70    | 56.10  | 87.93    | 71.39  | 87.26    | 86.69  | 86.65    | 101.99 | 86.08    | 117.29 | 85.56    | 132.59 |
|        | 800  | 101.28      | 29.11 | 98.93    | 46.58 | 97.12    | 64.05  | 95.60    | 81.52  | 94.26    | 98.99  | 93.05    | 116.46 | 91.94    | 133.92 | 90.90    | 151.39 |
|        | 900  | 114.64      | 32.75 | 112.30   | 52.40 | 110.49   | 72.06  | 108.97   | 91.71  | 107.63   | 111.36 | 106.42   | 131.01 | 105.31   | 150.66 | 104.27   | 170.32 |
|        | 1000 | 128.01      | 36.39 | 125.66   | 58.23 | 123.86   | 80.06  | 122.34   | 101.90 | 121.00   | 123.73 | 119.79   | 145.57 | 118.68   | 167.40 | 117.64   | 189.24 |
|        | 1100 | 141.38      | 40.03 | 139.03   | 64.05 | 137.23   | 88.07  | 135.71   | 112.09 | 134.37   | 136.11 | 133.16   | 160.13 | 132.05   | 184.14 | 131.01   | 208.16 |
|        | 1200 | 154.75      | 43.67 | 152.40   | 69.87 | 150.60   | 96.08  | 149.08   | 122.28 | 147.74   | 148.48 | 146.53   | 174.68 | 145.41   | 200.89 | 144.38   | 227.09 |
|        | 1300 | 168.12      | 47.31 | 165.77   | 75.70 | 163.97   | 104.08 | 162.45   | 132.47 | 161.11   | 160.85 | 159.90   | 189.24 | 158.78   | 217.63 | 157.75   | 246.01 |
|        | 1400 | 181.49      | 50.95 | 179.14   | 81.52 | 177.34   | 112.09 | 175.82   | 142.66 | 174.48   | 173.23 | 173.27   | 203.80 | 172.15   | 234.37 | 171.12   | 264.94 |

## WM SERIES OVERALL DIMENSION

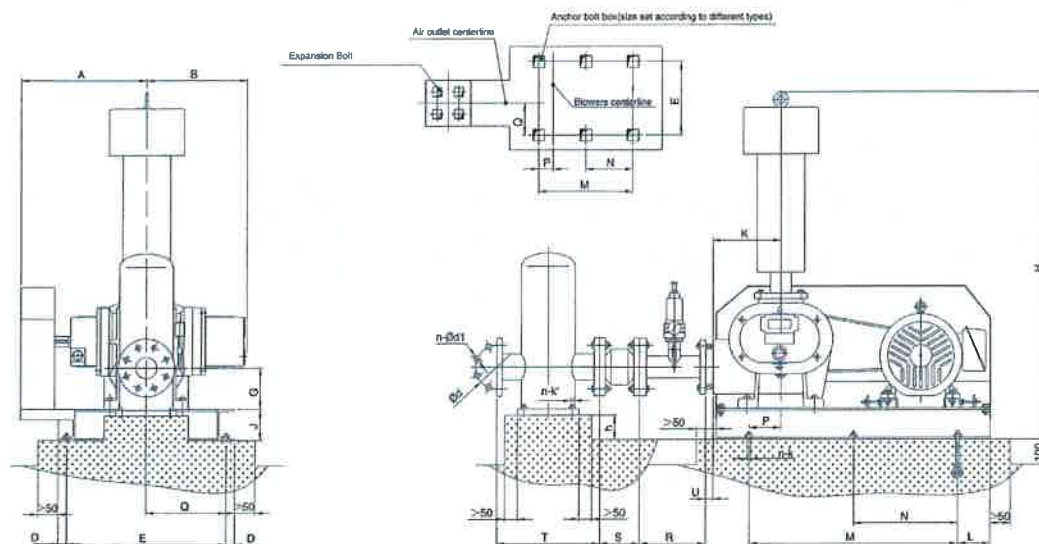


UNIT(MM.)

| Model  | A   | B     | D  | E    | G     | H    | J   | K   | M    | N    | P   | Q     | R   | S   | T    | U  | d   | n-Ød1  | n-k       |
|--------|-----|-------|----|------|-------|------|-----|-----|------|------|-----|-------|-----|-----|------|----|-----|--------|-----------|
| WM-50  | 300 | 278   | 20 | 412  | 103.5 | 921  | 80  | 140 | 520  | -    | 93  | 211   | 150 | 105 | 595  | 18 | 125 | 4-Ø18  | 4-M12x160 |
| WM-65  | 323 | 308   | 20 | 412  | 104   | 924  | 80  | 152 | 520  | -    | 93  | 188.5 | 150 | 115 | 595  | 18 | 145 | 4-Ø18  | 4-M12x160 |
| WM-80  | 383 | 340   | 20 | 482  | 106.5 | 1241 | 80  | 180 | 700  | -    | 80  | 238   | 180 | 135 | 795  | 22 | 160 | 8-Ø18  | 4-M12x160 |
| WM-100 | 426 | 390   | 20 | 482  | 110   | 1245 | 80  | 180 | 700  | -    | 98  | 195   | 180 | 150 | 795  | 22 | 180 | 8-Ø18  | 4-M16x220 |
| WM-125 | 505 | 430.5 | 24 | 602  | 157.5 | 1635 | 100 | 262 | 950  | -    | 182 | 271   | 250 | 165 | 1260 | 22 | 210 | 8-Ø18  | 4-M16x220 |
| WM-150 | 564 | 485.5 | 24 | 602  | 163.5 | 1860 | 100 | 250 | 950  | -    | 182 | 212   | 250 | 180 | 1260 | 22 | 240 | 8-Ø23  | 4-M16x220 |
| WM-200 | 565 | 515   | 30 | 940  | 194   | 2285 | 160 | 345 | 1300 | 650  | 310 | 580   | 250 | 210 | 1645 | 25 | 295 | 8-Ø23  | 6-M20x300 |
| WM-250 | 695 | 590   | 30 | 940  | 216   | 2520 | 160 | 356 | 1400 | 700  | 270 | 490   | 250 | 230 | 1750 | 38 | 350 | 12-Ø23 | 6-M20x300 |
| WM-300 | 840 | 627.5 | 35 | 1030 | 300   | 2955 | 250 | 510 | 2000 | 1000 | 321 | 487   | 300 | 250 | 1850 | 38 | 400 | 12-Ø23 | 6-M20x300 |

\*\*Weight of blower and standard accessories not including motor.\*\*

## WML SERIES OVERALL DIMENSION



UNIT(MM.)

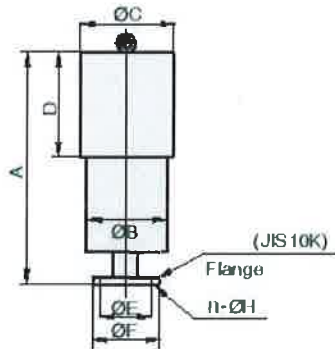
| Model   | A   | B   | D  | E   | G     | H    | J   | K   | M    | N   | P   | Q     | R   | S   | T    | U  | d   | n-Ød1  | n-k       |
|---------|-----|-----|----|-----|-------|------|-----|-----|------|-----|-----|-------|-----|-----|------|----|-----|--------|-----------|
| WML-50  | 235 | 202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

\*\*Weight of blower and standard accessories not including motor.\*\*

## WM - WML SERIES

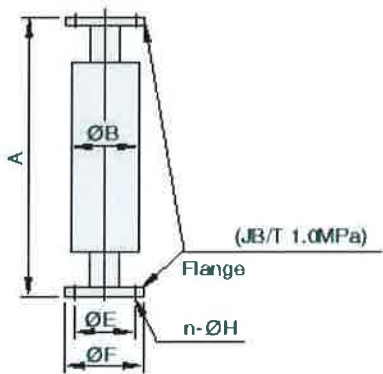
### DIMENSION OF ACCESSORIES (UNIT/MM.)

#### Suction Silencer



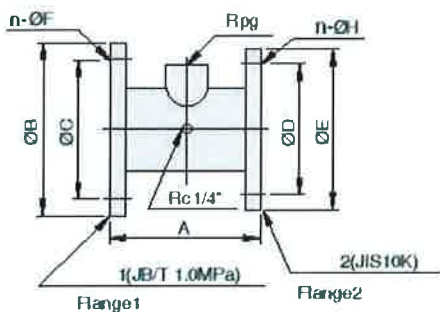
| TYPE  | A    | B   | C   | D   | E   | F   | n-ØH   | Fitting Model  |
|-------|------|-----|-----|-----|-----|-----|--------|----------------|
| SS50  | 550  | 133 | 150 | 220 | 120 | 155 | 4-Ø19  | WM-50/WML-50   |
| SS65  | 550  | 159 | 190 | 280 | 140 | 175 | 4-Ø19  | WM-65/WML-65   |
| SS80  | 820  | 219 | 245 | 280 | 150 | 185 | 8-Ø19  | WM-80/WML-80   |
| SS100 | 820  | 245 | 273 | 330 | 175 | 210 | 8-Ø19  | WM-100/WML-100 |
| SS125 | 1310 | 273 | 310 | 350 | 210 | 250 | 8-Ø23  | WM-125/WML-125 |
| SS150 | 1310 | 299 | 340 | 370 | 240 | 280 | 8-Ø23  | WM-150/WML-150 |
| SS200 | 1500 | 330 | 380 | 370 | 290 | 330 | 12-Ø23 | WM-200/WML-200 |
| SS250 | 1700 | 400 | 480 | 550 | 355 | 400 | 12-Ø25 | WM-250/WML-250 |
| SS300 | 1825 | 500 | 600 | 650 | 400 | 445 | 16-Ø25 | WM-300/WML-300 |

#### Discharge Silencer



| TYPE  | A    | B   | E   | F   | n-ØH   | Fitting Model  |
|-------|------|-----|-----|-----|--------|----------------|
| DS50  | 595  | 159 | 125 | 160 | 4-Ø18  | WM-50/WML-50   |
| DS65  | 595  | 159 | 145 | 180 | 4-Ø18  | WM-65/WML-65   |
| DS80  | 795  | 219 | 160 | 195 | 8-Ø18  | WM-80/WML-80   |
| DS100 | 795  | 219 | 180 | 215 | 8-Ø18  | WM-100/WML-100 |
| DS125 | 1260 | 290 | 210 | 245 | 8-Ø18  | WM-125/WML-125 |
| DS150 | 1260 | 290 | 240 | 280 | 8-Ø23  | WM-150/WML-150 |
| DS200 | 1645 | 356 | 295 | 335 | 8-Ø23  | WM-200/WML-200 |
| DS250 | 1750 | 405 | 350 | 390 | 12-Ø23 | WM-250/WML-250 |
| DS300 | 1850 | 484 | 400 | 440 | 12-Ø23 | WM-300/WML-300 |

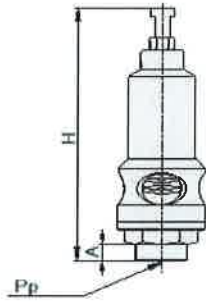
#### "T"-Joint



| TYPE  | A   | B   | C   | n-ØF   | E   | D   | n-ØH   | g      | Fitting Model  |
|-------|-----|-----|-----|--------|-----|-----|--------|--------|----------------|
| HJ50  | 150 | 160 | 125 | 4-Ø18  | 155 | 120 | 4-Ø19  | 1 1/4" | WM-50/WML-50   |
| HJ65  | 150 | 180 | 145 | 4-Ø18  | 175 | 140 | 4-Ø19  | 1 1/4" | WM-65/WML-65   |
| HJ80  | 180 | 195 | 160 | 8-Ø18  | 185 | 150 | 8-Ø19  | 1 1/4" | WM-80/WML-80   |
| HJ100 | 180 | 215 | 180 | 8-Ø18  | 210 | 175 | 8-Ø19  | 2"     | WM-100/WML-100 |
| HJ125 | 250 | 245 | 210 | 8-Ø18  | 250 | 210 | 8-Ø23  | 2"     | WM-125/WML-125 |
| HJ150 | 250 | 280 | 240 | 8-Ø23  | 280 | 240 | 8-Ø23  | 2"     | WM-150/WML-150 |
| HJ200 | 250 | 335 | 295 | 8-Ø23  | 330 | 290 | 12-Ø23 | 3"     | WM-200/WML-200 |
| HJ250 | 250 | 390 | 350 | 12-Ø23 | 400 | 355 | 12-Ø25 | 3"     | WM-250/WML-250 |
| HJ300 | 300 | 440 | 400 | 12-Ø23 | 445 | 400 | 16-Ø25 | DN125  | WM-300/WML-300 |

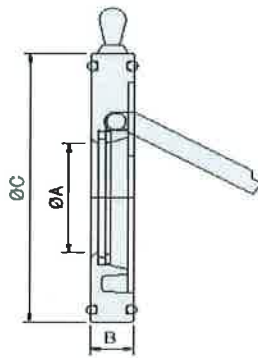
## WM - WML SERIES

### Relief Valve



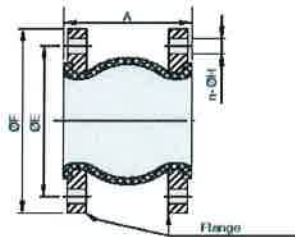
| TYPE    | A  | H   | Fitting Model                  |
|---------|----|-----|--------------------------------|
| SV 1/4" | 19 | 145 | WM-50,65,80/WML-50,65,80       |
| SV 2"   | 24 | 185 | WM-100,125,150/WML-100,125,150 |
| SV 3"   | 30 | 230 | WM-200,250/WML-200,250         |
| SV 125  | 90 | 490 | WM-300/WML-300                 |

### Check Valve

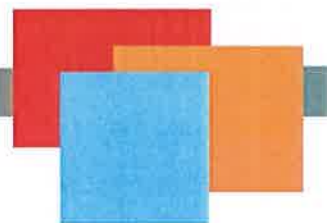


| TYPE    | A   | B  | C     | Fitting Model  |
|---------|-----|----|-------|----------------|
| DCV-50  | 37  | 18 | 102.5 | WM-50/WML-50   |
| DCV-65  | 45  | 18 | 122.5 | WM-65/WML-65   |
| DCV-80  | 52  | 22 | 132   | WM-80/WML-80   |
| DCV-100 | 65  | 22 | 158   | WM-100/WML-100 |
| DCV-125 | 90  | 22 | 190   | WM-125/WML-125 |
| DCV-150 | 115 | 22 | 215   | WM-150/WML-150 |
| DCV-200 | 160 | 25 | 268   | WM-200/WML-200 |
| DCV-250 | 180 | 38 | 325   | WM-250/WML-250 |
| DCV-300 | 213 | 38 | 375   | WM-300/WML-300 |

### Flexible connector



| TYPE   | A   | E   | F   | n-ØH   | Fitting Model  |
|--------|-----|-----|-----|--------|----------------|
| KXT50  | 105 | 125 | 165 | 4-Ø18  | WM-50/WML-50   |
| KXT65  | 115 | 145 | 185 | 4-Ø18  | WM-65/WML-65   |
| KXT80  | 135 | 160 | 200 | 8-Ø18  | WM-80/WML-80   |
| KXT100 | 150 | 180 | 220 | 8-Ø18  | WM-100/WML-100 |
| KXT125 | 165 | 210 | 250 | 8-Ø18  | WM-125/WML-125 |
| KXT150 | 180 | 240 | 285 | 8-Ø22  | WM-150/WML-150 |
| KXT200 | 190 | 295 | 340 | 8-Ø22  | WM-200/WML-200 |
| KXT250 | 230 | 350 | 395 | 12-Ø22 | WM-250/WML-250 |
| KXT300 | 250 | 400 | 445 | 12-Ø22 | WM-300/WML-300 |



Distributor

