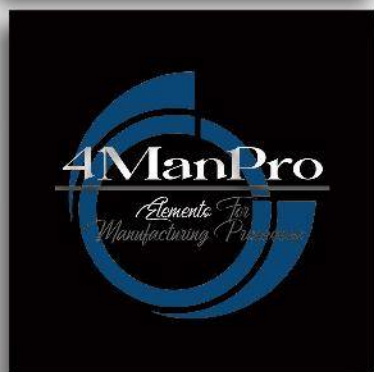




# CATALOG



**TAIWAN  
EXCELLENCE 2020**



# VOL. 1





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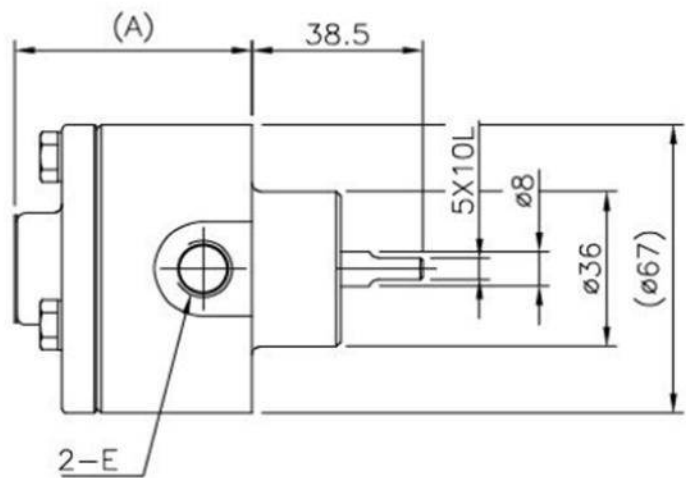
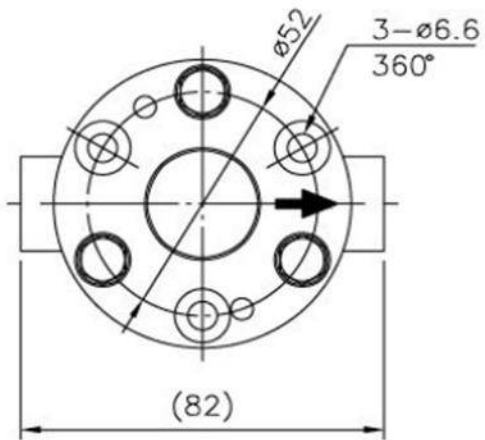
# ISH 1RA SERIES SM 1RA SERIES

FEEDING  
OIL  
PUMP  
(Reversible)

# ISH 1RA-2FS SM 1RA-2FS

## Feeding Oil Pump (Reversible)







# Characteristics & Dimensions

## ISH 1RA SERIES

| MODEL   | OUTPUT VOLUME | OUTPUT VOLUME |              | MAXIMUM OUTPUT PRESSURE | MAXIMUM SPEED | WEIGHT (Gr.) |
|---------|---------------|---------------|--------------|-------------------------|---------------|--------------|
|         |               | 1,500 r.p.m   | 1,800 r.p.m. |                         |               |              |
| 1RA-2FS | 1.80          | 2.70          | 3.20         | 0.50 (5.00)             | 2,000         | 1.10         |
| 1RA-3FS | 2.50          | 3.70          | 4.50         | 0.50 (5.00)             | 2,000         | 1.20         |
| MODEL   | A             |               |              | BORE (E)                |               |              |
| 1RA-2FS | 52.00         |               |              | PT 1/4"                 |               |              |
| 1RA-3FS | 56.00         |               |              | PT 1/4"                 |               |              |

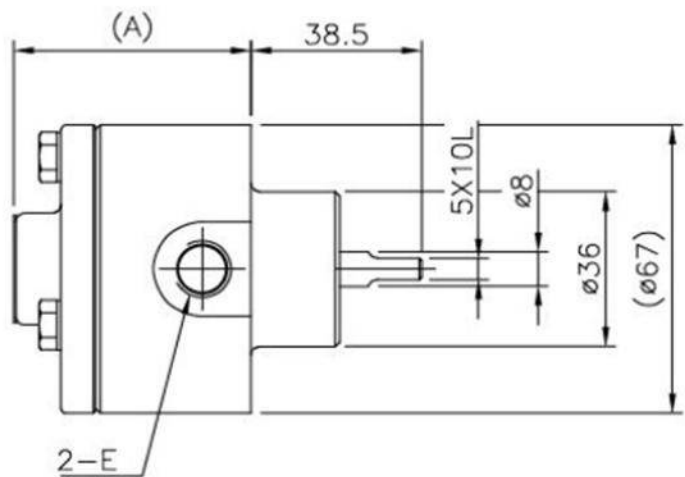
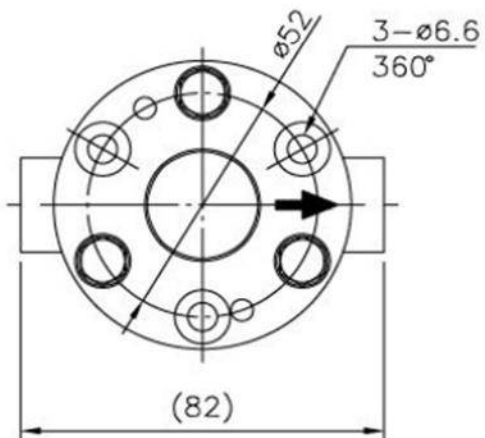
\*\* Flow Rate & Speed is given in r.p.m..  
 \*\*\* Metered volume is determined by c.c./stroke.  
 \*\*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\*\* All dimensions are given in millimeters.



# ISH 1RA-3FS SM 1RA-3FS

## Feeding Oil Pump (Reversible)







## Characteristics & Dimensions

### ISH 1RA SERIES

| MODEL   | OUTPUT VOLUME | OUTPUT VOLUME |              | MAXIMUM OUTPUT PRESSURE | MAXIMUM SPEED | WEIGHT (Gr.) |
|---------|---------------|---------------|--------------|-------------------------|---------------|--------------|
|         |               | 1,500 r.p.m   | 1,800 r.p.m. |                         |               |              |
| 1RA-2FS | 1.80          | 2.70          | 3.20         | 0.50 (5.00)             | 2,000         | 1.10         |
| 1RA-3FS | 2.50          | 3.70          | 4.50         | 0.50 (5.00)             | 2,000         | 1.20         |
| MODEL   |               | A             |              | BORE (E)                |               |              |
| 1RA-2FS |               | 52.00         |              | PT 1/4"                 |               |              |
| 1RA-3FS |               | 56.00         |              | PT 1/4"                 |               |              |

\*\* Flow Rate & Speed is given in r.p.m..  
 \*\*\* Metered volume is determined by c.c./stroke.  
 \*\*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\*\* All dimensions are given in millimeters.



# ISH 4400 SERIES SM 4400 SERIES

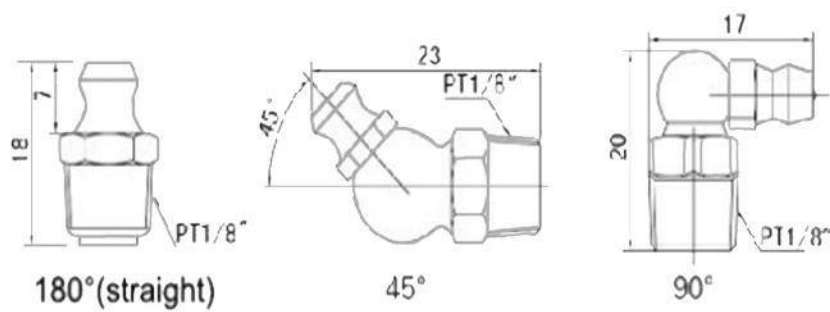
## GREASERS

# ISH 4400 SM 4400

## GREASERS









## Characteristics & Dimensions

| MODEL  | CONEXIÓN      | WEIGHT (gr) |
|--------|---------------|-------------|
| 440029 | PT1/4" X 45°  | 15.00       |
| 440026 | PT1/8 X 45°   | 8.50        |
| 440027 | PT1/8" X 90°  | 9.00        |
| 440057 | M8 X 90°      | 8.00        |
| 440023 | PT1/4" X 180° | 12.50       |
| 440000 | PT1/8" X 180° | 8.50        |
| 440047 | M8 X 180°     | 4.00        |

\*\*\* This products are manufactured in Zamak.  
 \*\*\*\* All dimensions are given in millimeters.



# ISH 440N03-C SERIES SM 440N03-C SERIES

STRAIGHT ADAPTER  
FOR  
NYLON TUBES

# ISH 440N03-C SM 440N03-C

## STREIGHT ADAPTOR FOR NYLON TUBE



## Characteristics & Dimensions

| MODEL        | DIMENSIONS       | WEIGHT (gr) |
|--------------|------------------|-------------|
| 440N03-C1006 | PT1/8" x Ø6      | 16.00       |
| 440N03-C1010 | PT1/8" x PE1/8"  | 12.00       |
| 440N03-C1020 | PT1/8" x PE1/4"  | 16.00       |
| 440N03-C1025 | PT1/8" x PE5/16" | 18.00       |
| 440N03-C2006 | PT1/4" x Ø6      | 22.00       |
| 440N03-C2010 | PT1/4" x Ø10     | 28.00       |
| 440N03-C2020 | PT1/4" x PE1/4"  | 21.00       |
| 440N03-C2025 | PT1/4" x PE5/16" | 25.00       |
| 440N03-C2030 | PT1/4" x PE3/8"  | 27.50       |
| 440N03-C3020 | PT3/8" x PE1/4"  | 27.50       |

\*\*\* This products ara manufactured from zamak..  
\*\*\*\* All dimensions are given in millimeters.





# ISH 440N06-L SERIES SM 440N06-L SERIES

ELBOW  
ADAPTER FOR NYLON  
TUBES

# ISH 440N06-L SM 440N06-L

## Elbow Adaptor For Nylon Tube





## Characteristics & Dimensions

| MODEL        | DIMENSIONS              | WEIGHT (gr)  |
|--------------|-------------------------|--------------|
| 440N06-L102  | <i>PT1/8" x PE1/4"</i>  | <i>16.50</i> |
| 440N06-L1025 | <i>PT1/8" x PE5/16"</i> | <i>23.50</i> |
| 440N06-L2006 | <i>PT1/4" x Ø6</i>      | <i>25.50</i> |
| 440N06-L2010 | <i>PT1/4" x Ø10</i>     | <i>30.50</i> |
| 440N06-L2020 | <i>PT1/4" x PE1/4"</i>  | <i>26.00</i> |
| 440N06-L2025 | <i>PT1/4" x PE5/16"</i> | <i>32.50</i> |
| 440N06-L203  | <i>PT1/4" x PE3/8"</i>  | <i>34.50</i> |
| 440N06-L302  | <i>PT3/8" x PE1/4"</i>  | <i>31.50</i> |

\*\*\* This products are manufactured in Zamak.

\*\*\*\* All dimensions are given in millimeters.



# ISH BEIP SERIES SM BEIP SERIES

## ELECTRIC SUCTION PUMPS

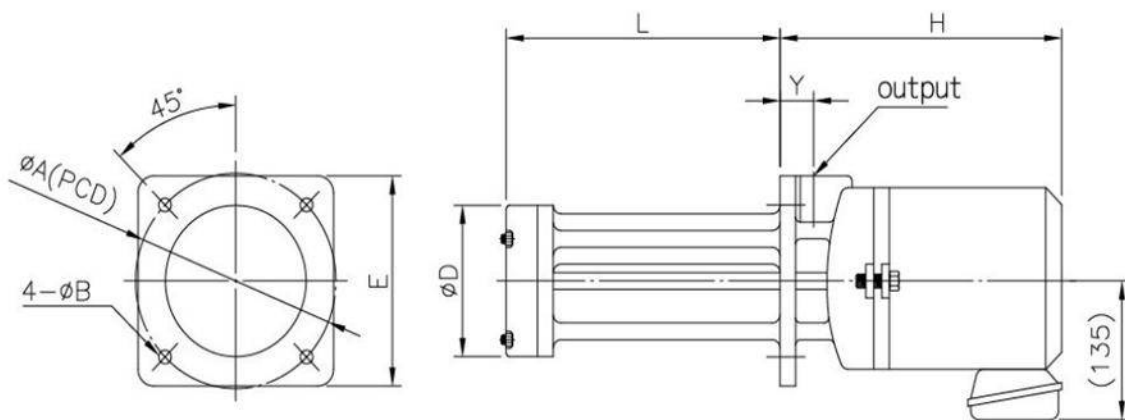
# ISH BEIP-1

## Electric Suction Pump

(1/8 H.P. Electric Motor)







## Characteristics & Dimensions

| MODEL                                      | ISH BEIP-1                  |
|--------------------------------------------|-----------------------------|
| Voltage In One Phase <i>(Volts)</i>        | 110/220   220/380   220/440 |
| Motor Power <i>(H.P.)</i>                  | 0.125                       |
| H                                          | 150.00                      |
| Pumping Water Capacity 2 m. <i>(L/min)</i> | 25.00                       |
| Output Bore <i>(Ancho)</i>                 | PT3/8"                      |
| ØA                                         | 128.00                      |
| ØB                                         | 8                           |
| E                                          | 125.000                     |
| ØD                                         | 90.00                       |
| Y                                          | 18.00                       |
| L                                          | 110/130/150/180/210         |
| Device Total weight <i>(Kg)</i>            | 6.40                        |

\*\*\* Special configuration can be manufactured upon customers request.

\*\*\*\* All dimensios are given in millimeters.

# ISH BEIP-2 SM BEIP-2

## ELECTRIC SUCTION PUMP

*(1/4 H.P. Electric Motor)*

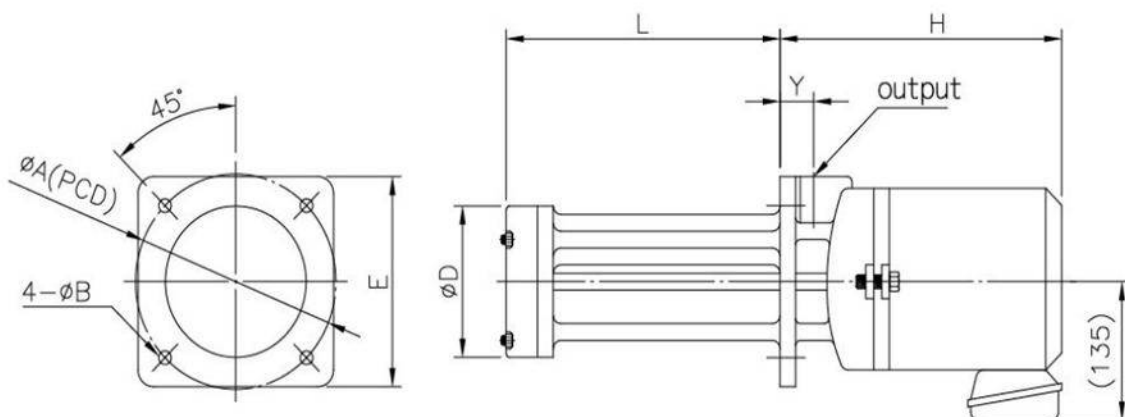




**ISHAW** 伊山精密工業股份有限公司  
LUBRICATION SYSTEM ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM





## Characteristics & Dimensions

| MODEL                                      | ISH BEIP-3                  |
|--------------------------------------------|-----------------------------|
| Voltage In One Phase <b>(Volts)</b>        | 110/220   220/380   220/440 |
| Motor Power <b>(H.P.)</b>                  | ½                           |
| H                                          | 230.00                      |
| Pumping Water Capacity 2 m. <b>(L/min)</b> | 107.00                      |
| Output Bore <b>(Ancho)</b>                 | PT¾"                        |
| ØA                                         | 170.00                      |
| ØB                                         | 9                           |
| E                                          | 180.000                     |
| ØD                                         | 140.00                      |
| Y                                          | 20.00                       |
| L                                          | 150                         |
| Device Total weight <b>(Kg)</b>            | 19.40                       |

\*\*\* Special configuration can be manufactured upon customers request.

\*\*\*\* All dimensios are given in millimeters.

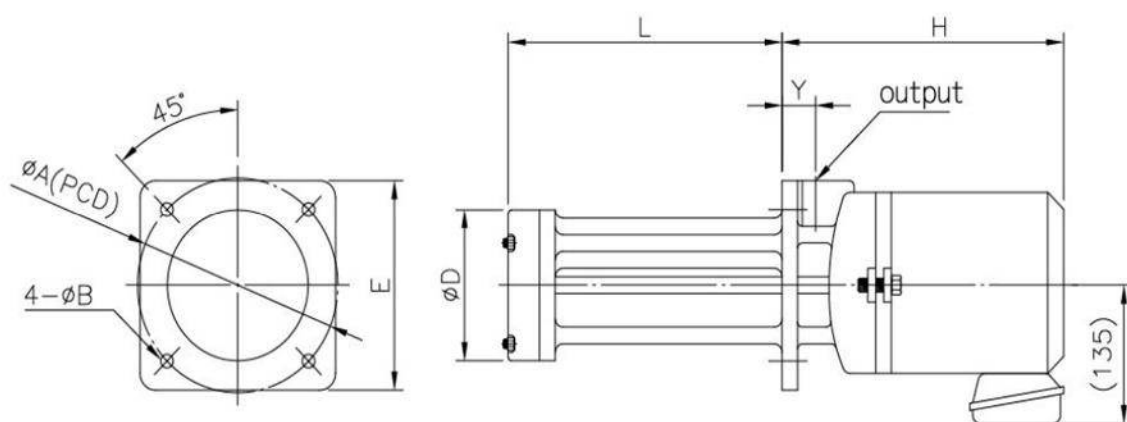


# ISH BEIP-3 SM BEIP-3

## ELECTRIC SUCTION PUMP

(1/2 H.P. Electric Motor)





## Characteristics & Dimensions

| MODEL                                      | ISH BEIP-2                  |
|--------------------------------------------|-----------------------------|
| Voltage In One Phase <i>(Volts)</i>        | 110/220   220/380   220/440 |
| Motor Power <i>(H.P.)</i>                  | 1/4                         |
| H                                          | 170.00                      |
| Pumping Water Capacity 2 m. <i>(L/min)</i> | 60.00                       |
| Output Bore <i>(Ancho)</i>                 | PT 1/2"                     |
| ØA                                         | 155.00                      |
| ØB                                         | 9.00                        |
| E                                          | 180.000                     |
| ØD                                         | 125.00                      |
| Y                                          | 20.00                       |
| L                                          | 150/180/210/270             |
| Device Total weight <i>(Kg)</i>            | 13.50                       |

\*\*\* Special configuration can be manufactured upon customers request.  
\*\*\*\* All dimensios are given in millimeters.

# ISH BEIP-4 SM BEIP-4

## ELECTRIC SUCTION PUMP

*(1/2 H.P. Electric Motor)*



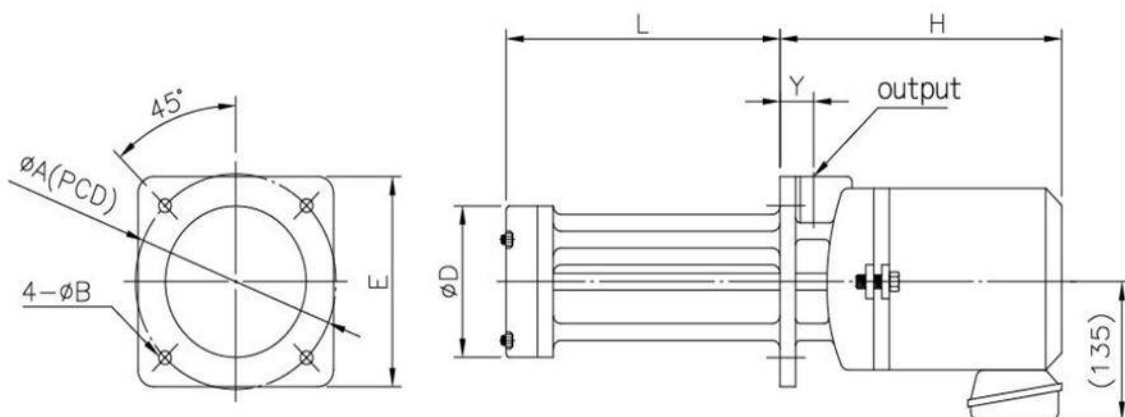


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## Characteristics & Dimensions

| MODEL                                      | ISH BEIP-4                  |
|--------------------------------------------|-----------------------------|
| Voltage In One Phase <b>(Volts)</b>        | 110/220   220/380   220/440 |
| Motor Power <b>(H.P.)</b>                  | ½                           |
| H                                          | 240.00                      |
| Pumping Water Capacity 2 m. <b>(L/min)</b> | 107.00                      |
| Output Bore <b>(Ancho)</b>                 | PT¾"                        |
| ØA                                         | 170.00                      |
| ØB                                         | 10                          |
| E                                          | 195.000                     |
| ØD                                         | 140.00                      |
| Y                                          | 25.00                       |
| L                                          | 175/210/300                 |
| Device Total weight <b>(Kg)</b>            | 19.40                       |

\*\*\* Special configuration can be manufactured upon customers request.

\*\*\*\* All dimensios are given in millimeters.

# ISH BEIP-5 SM BEIP-5

## ELECTRIC SUCTION PUMP

*(1 H.P. Electric Motor)*



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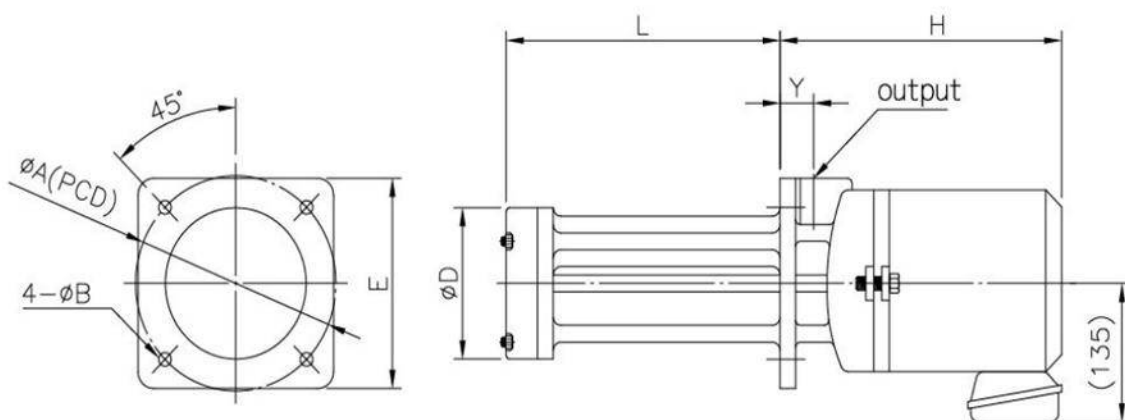


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## Characteristics & Dimensions

| MODEL                                      | ISH BEIP-5                  |
|--------------------------------------------|-----------------------------|
| Voltage In One Phase <i>(Volts)</i>        | 110/220   220/380   220/440 |
| Motor Power <i>(H.P.)</i>                  | 1.000                       |
| H                                          | 295.00                      |
| Pumping Water Capacity 2 m. <i>(L/min)</i> | 160.00                      |
| Output Bore <i>(Ancho)</i>                 | PT1"                        |
| ØA                                         | 170.00                      |
| ØB                                         | 10                          |
| E                                          | 195.000                     |
| ØD                                         | 150.00                      |
| Y                                          | 27.00                       |
| L                                          | 180/280                     |
| Device Total weight <i>(Kg)</i>            | 24.20                       |

\*\*\* Special configuration can be manufactured upon customers request.  
\*\*\*\* All dimensios are given in millimeters.



# ISH BESP SERIES SM BESP SERIES

## ELECTRIC SUCTION PUMPS

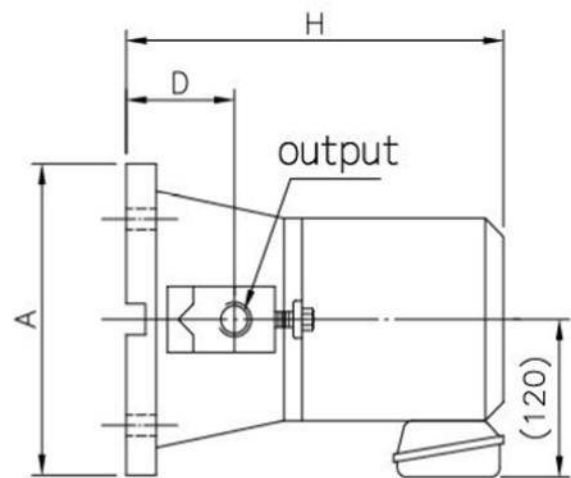
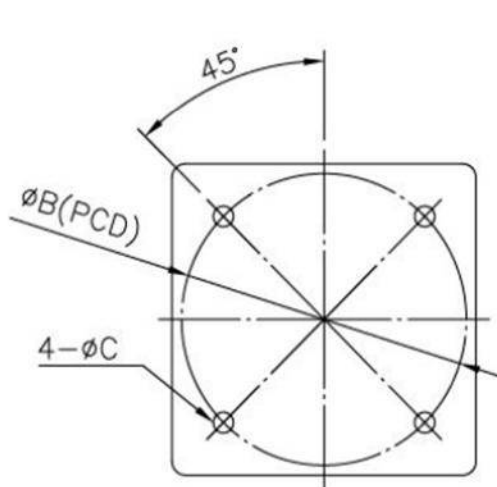


# ISH BEBP-1 SM BEBP-1

## ELECTRIC SUCTION PUMP

*(1/8 H.P. Electric Motor)*





## Characteristics & Dimensions

| MODEL                               | ISH BESP-1                  |
|-------------------------------------|-----------------------------|
| Voltage In One Phase (Volts)        | 110/220   220/380   220/440 |
| Motor Power (H.P.)                  | 1/8                         |
| H                                   | 175.00                      |
| Pumping Water Capacity 2 m. (L/min) | 22.00                       |
| Input                               | PT3/8"                      |
| Output                              | PT3/8"                      |
| A                                   | 142.00                      |
| B                                   | 140.00                      |
| ØC                                  | 8.00                        |
| D                                   | 48.00                       |
| Total Device Weight (Kg)            | 65                          |

\*\*The Output Volume is Calculated on a Pump Performance at 60Hz.

\*\*\*The Motor Should Be Positioned At The Bottom Of The Coolant.

\*\*\*\*The coolant level must be higher than the pump inlet to ensure convenient operation.

\*\*\*\*\* All dimensions are given in millimeters.

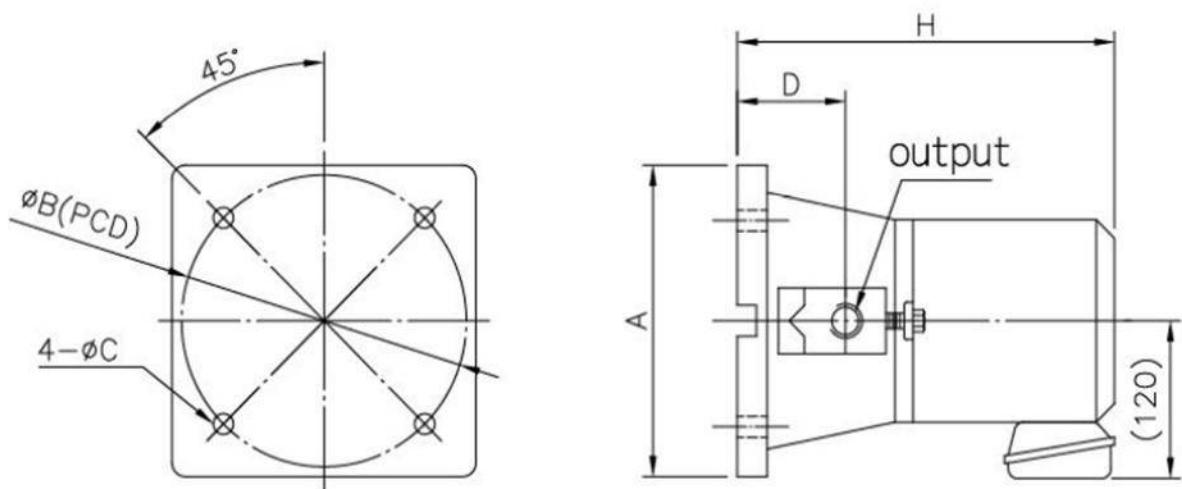
# ISH BE SP-2 SM BE SP-2

## ELECTRIC SUCTION PUMP

*(1/4 H.P. Electric Motor)*









## Characteristics & Dimensions

| MODEL                               | ISH BESP-2                       |
|-------------------------------------|----------------------------------|
| Voltage In One Phase (Volts)        | 110/220   220/380   220/440      |
| Motor Power (H.P.)                  | 1/4                              |
| H                                   | 235.00                           |
| Pumping Water Capacity 2 m. (L/min) | 56.00                            |
| Input                               | PT <sup>3</sup> / <sub>4</sub> " |
| Output                              | PT <sup>1</sup> / <sub>2</sub> " |
| A                                   | 185.00                           |
| B                                   | 185.00                           |
| ØC                                  | 9.00                             |
| D                                   | 55.00                            |
| Total Device Weight (Kg)            | 14.20                            |

\*\*The Output Volume is Calculated on a Pump Performance at 60Hz.

\*\*\*The Motor Should Be Positioned At The Bottom Of The Coolant.

\*\*\*\*The coolant level must be higher than the pump inlet to ensure convenient operation.

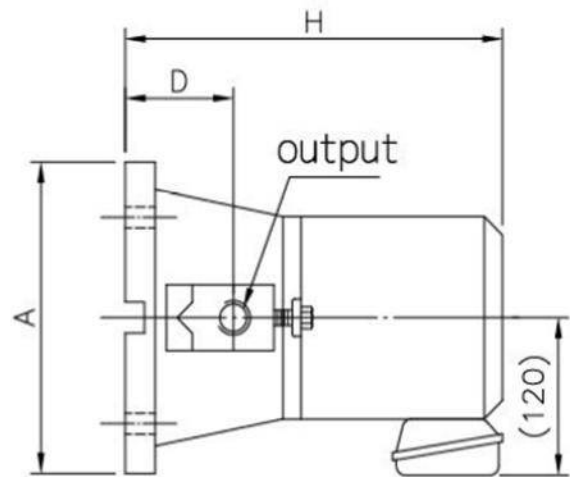
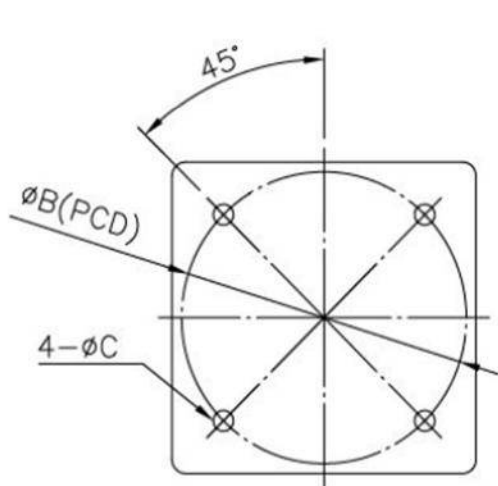
\*\*\*\*\* All dimensions are given in millimeters.

# ISH BESP-3 SM BESP-3

## ELECTRIC SUCTION PUMP

*(1/2 H.P. Electric Motor)*





## Characteristics & Dimensions

| MODEL                               | ISH BESP-3                  |
|-------------------------------------|-----------------------------|
| Voltage In One Phase (Volts)        | 110/220   220/380   220/440 |
| Motor Power (H.P.)                  | ½                           |
| H                                   | 310.00                      |
| Pumping Water Capacity 2 m. (L/min) | 100.00                      |
| Input                               | PT1"                        |
| Output                              | PT¾"                        |
| A                                   | 165.00                      |
| B                                   | 185.00                      |
| ØC                                  | 10.00                       |
| D                                   | 70.00                       |
| Total Device Weight (Kg)            | 18.50                       |

\*\*The Output Volume is Calculated on a Pump Performance at 60Hz.

\*\*\*The Motor Should Be Positioned At The Bottom Of The Coolant.

\*\*\*\*The coolant level must be higher than the pump inlet to ensure convenient operation.

\*\*\*\*\* All dimensions are given in millimeters.



## ISH BL SERIES SM BL SERIES

**MOTOR FOR CONNECTION  
WITH STEEL HOUSING**

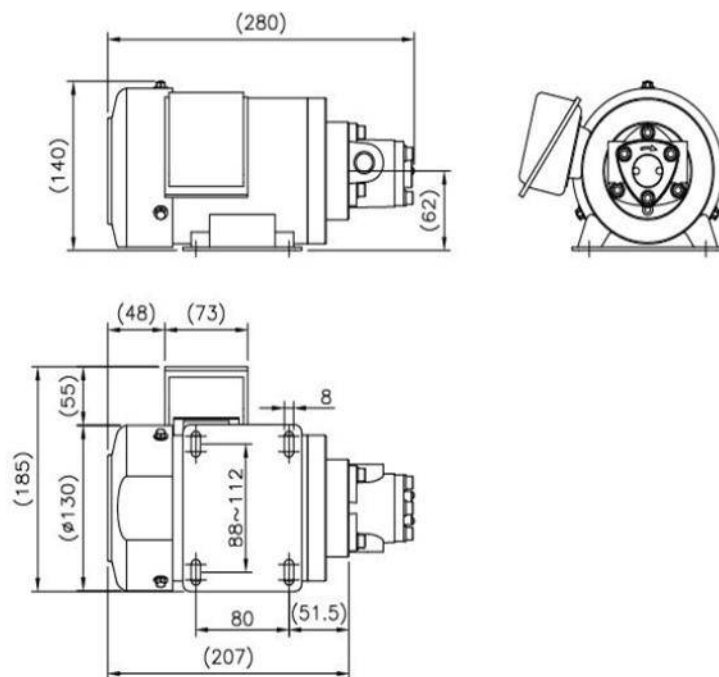


**ISH BL-1**  
**SM BL-1**

# CONNECTING MOTOR WITH IRON CASE

*(With TOP Feeding Pump)*







## Características Y Dimensiones

| Modelo                          | ISH BL-1           |
|---------------------------------|--------------------|
| Voltaje En Un Sola Fase (Volts) | 110/220<br>220/440 |
| Polos                           | 4.00               |
| Tiempo De Intervalos            | Continuo           |
| Velocidad (r.p.m.)              | 1,400 / 1,700      |
| Frecuencia                      | 50/60              |
| Peso (Kg)                       | 7.00               |

\* Pueden ser producidos modelos especiales de acuerdo a solicitud del cliente.

\*\*\*\* Todas las dimensiones están dadas en milímetros.

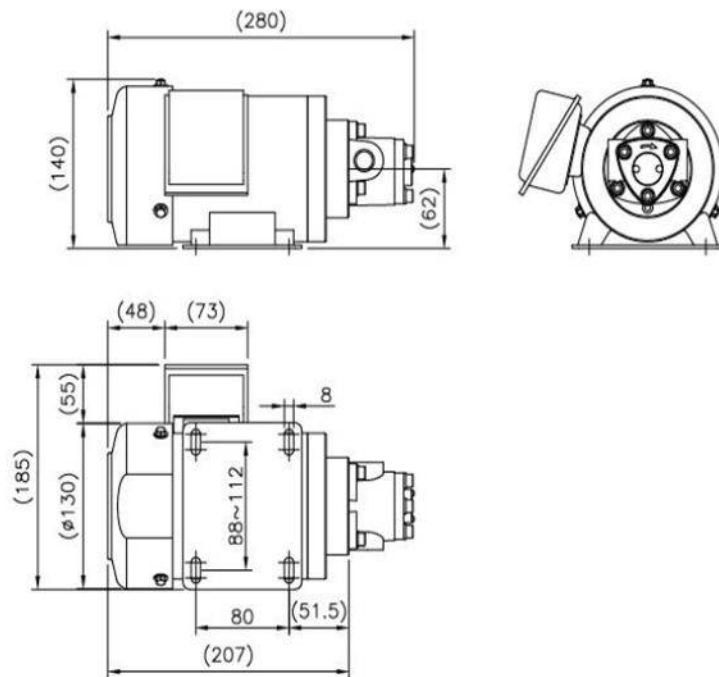
**ISH BL-2**  
**SM BL-2**

## CONNECTING MOTOR WITH IRON CASE

*(With Long Shaft Connector)*











## Characteristics & Dimensions

| MODEL                                                                                                                                                     | ISH BL-2        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Voltage In One Phase (Volts)                                                                                                                              | 110/220 220/440 |
| Pole                                                                                                                                                      | 4.00            |
| Timer Interval                                                                                                                                            | Continuo        |
| Speed (r.p.m.)                                                                                                                                            | 1,400 / 1,700   |
| Frecuency (Hz.)                                                                                                                                           | 50/60           |
| Total Device Weight (Kg)                                                                                                                                  | 8.00            |
| <p>* Pueden ser producidos modelos especiales de acuerdo a solicitud del cliente.<br/>           *** Todas las dimensiones estan dadas en milimetros.</p> |                 |

# ISH BL-3 SM BL-3

## CONNECTING MOTOR WITH IRON CASE

*(With Milling Iron Case)*



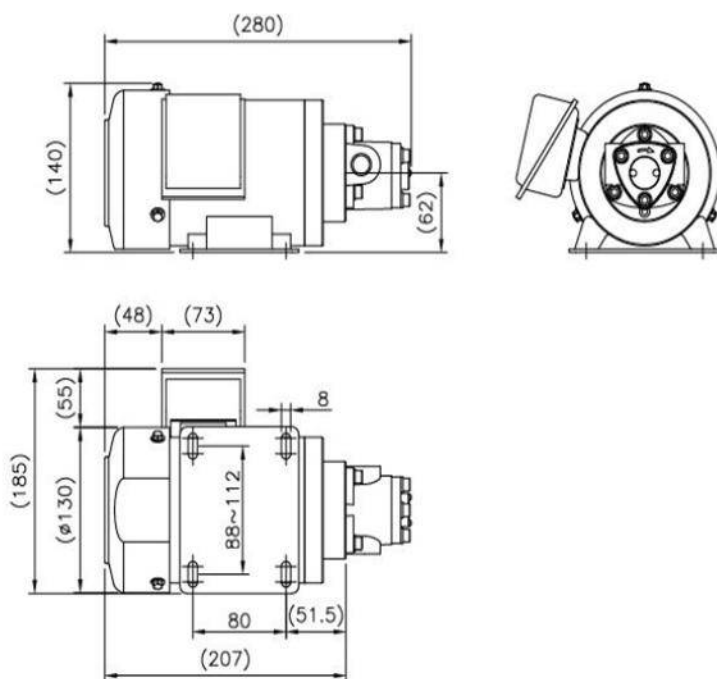
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**ISHAW**  
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## Characteristics & Dimensions

| MODEL                        | ISH BL-3                    |
|------------------------------|-----------------------------|
| Voltage In One Phase (Volts) | 110/220   220/380   220/440 |
| Pole                         | 4.00                        |
| Timer Interval               | Continuos                   |
| Speed (r.p.m.)               | 1,400 / 1,700               |
| Frecuency (Hz.)              | 50/60                       |
| Total Device Weight (Kg)     | 10.00                       |

\*\*\* Special configuration can be manufactured upon customers request.  
 \*\*\*\* All dimensios are given in millimeters.



# ISH DAR SERIES SM DAR SERIES

## PROPORTIONAL DEVICES



# ISH DAR 156001-SE SM DAR 156001-SE



## REPLACEMENT RESIN OIL TANK



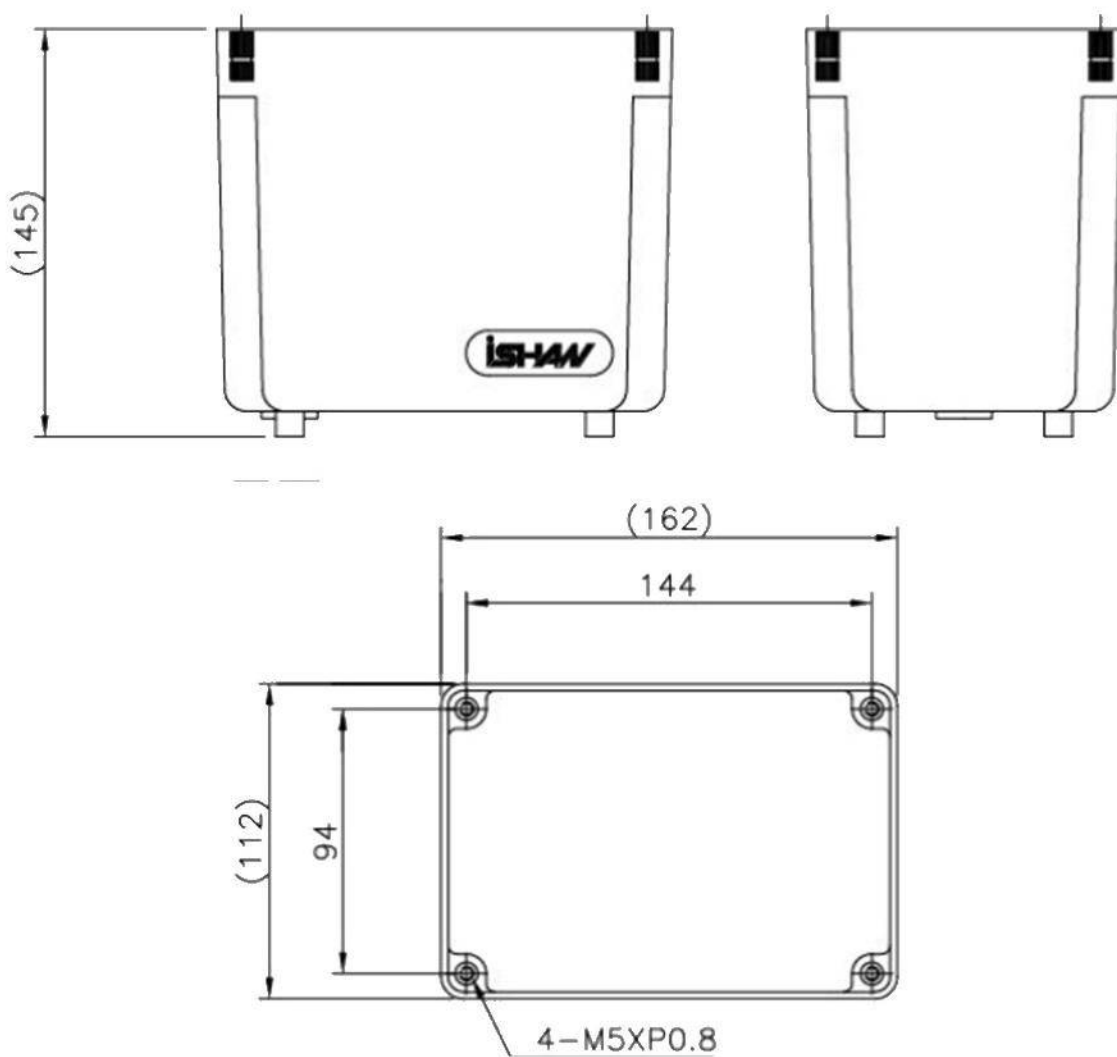
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**ISHAW**  
LUBRICATION SYSTEM





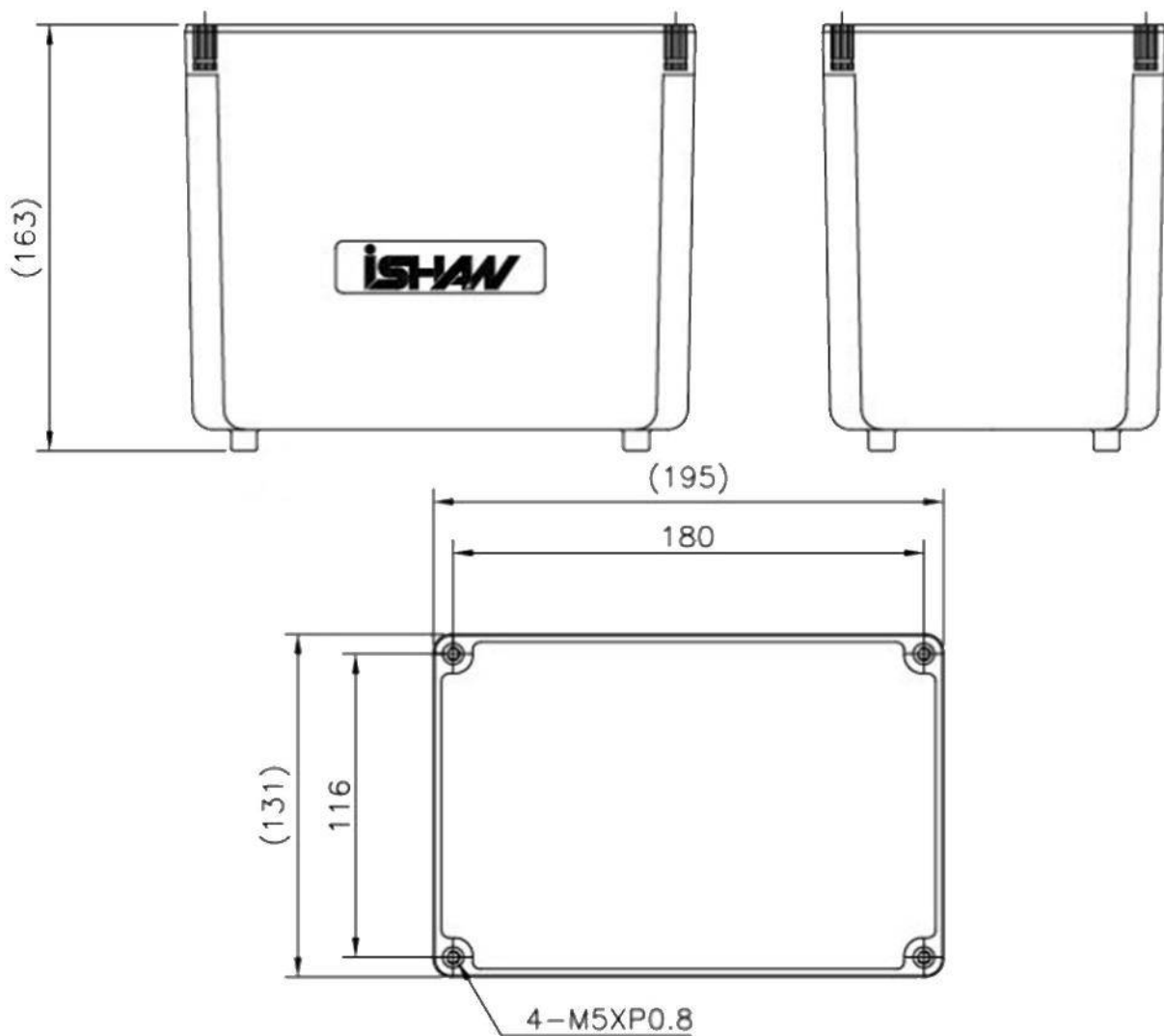
## Characteristics & Dimensions

| MODEL         | W      | L      | H      | TANK CAPACITY | TANK MATERIAL   |
|---------------|--------|--------|--------|---------------|-----------------|
| 156001-SE     | 112.00 | 162.00 | 145.00 | <b>2.00</b>   | <i>Acrylic</i>  |
| 156002-SE     | 131.00 | 195.00 | 163.00 | <b>3.00</b>   | <i>Aluminum</i> |
| 156145-001-SE | 141.00 | 230.00 | 230.00 | <b>4.00</b>   | <i>Aluminum</i> |
| 156016-SE     | 212.00 | 328.00 | 328.00 | <b>6.00</b>   | <i>Steel</i>    |
| 156013-SE     | 227.00 | 357.00 | 357.00 | <b>8.00</b>   | <i>Steel</i>    |

\*\*\* Tank Capacity is given in Liters.  
 \*\*\*\* All dimensions are given in millimeters.

# REPLACEMENT RESIN OIL TANK









## Characteristics & Dimensions

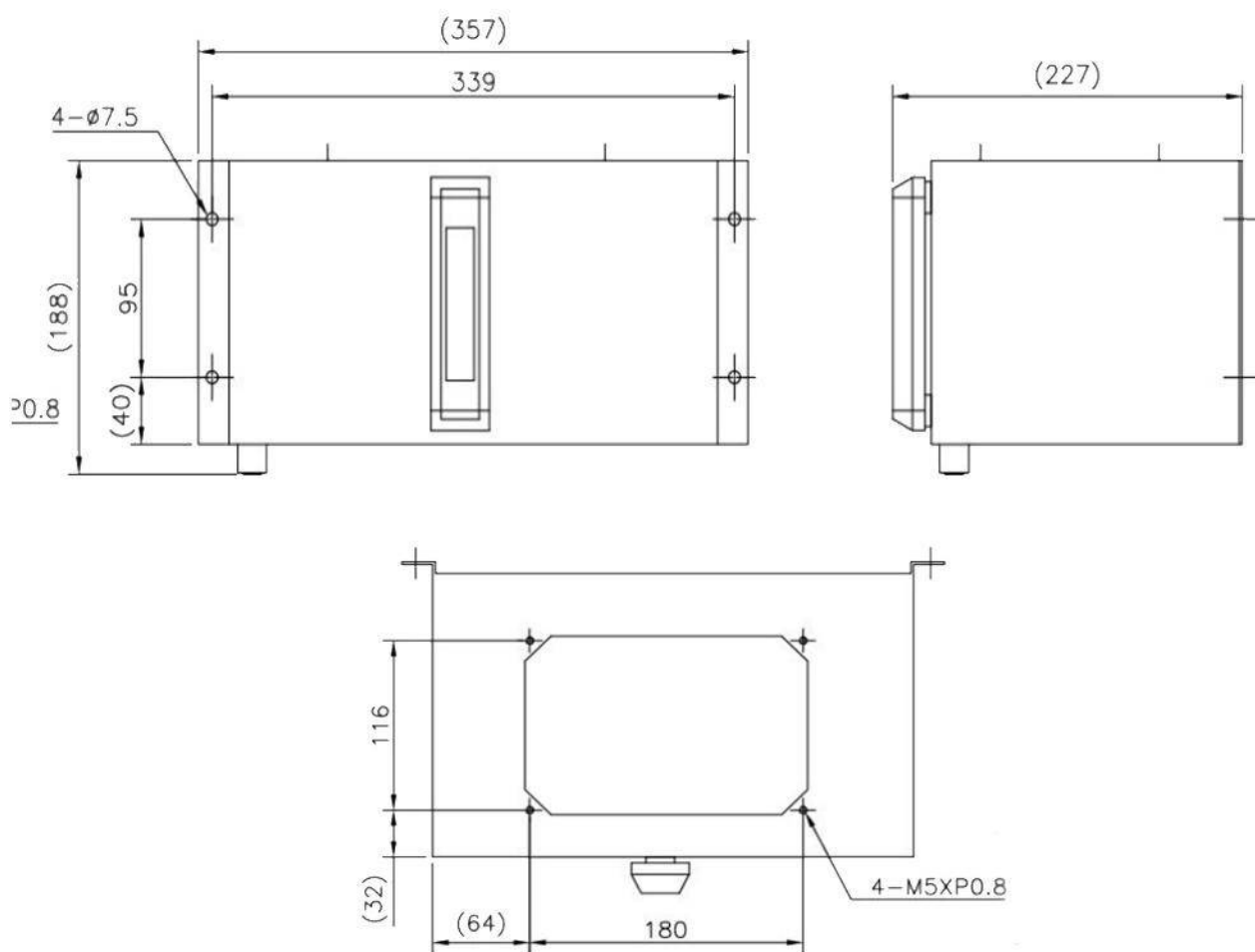
| MODEL         | W      | L      | H      | TANK CAPACITY | TANK MATERIAL   |
|---------------|--------|--------|--------|---------------|-----------------|
| 156001-SE     | 112.00 | 162.00 | 145.00 | <b>2.00</b>   | <i>Acrylic</i>  |
| 156002-SE     | 131.00 | 195.00 | 163.00 | <b>3.00</b>   | <i>Aluminum</i> |
| 156145-001-SE | 141.00 | 230.00 | 230.00 | <b>4.00</b>   | <i>Aluminum</i> |
| 156016-SE     | 212.00 | 328.00 | 328.00 | <b>6.00</b>   | <i>Steel</i>    |
| 156013-SE     | 227.00 | 357.00 | 357.00 | <b>8.00</b>   | <i>Steel</i>    |

\*\*\* Tank Capacity is given in Liters.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DAR 156013-SE SM DAR 156013-SE

## STEEL REPLACEMENT OIL TANK







## Características & Dimensiones

| Modelo                           | ISH 156016-SE   |
|----------------------------------|-----------------|
| Capacidad Del Deposito De Aceite | <b>6 Litros</b> |
| W                                | <b>212.00</b>   |
| L                                | <b>328.00</b>   |
| H                                | <b>170.00</b>   |

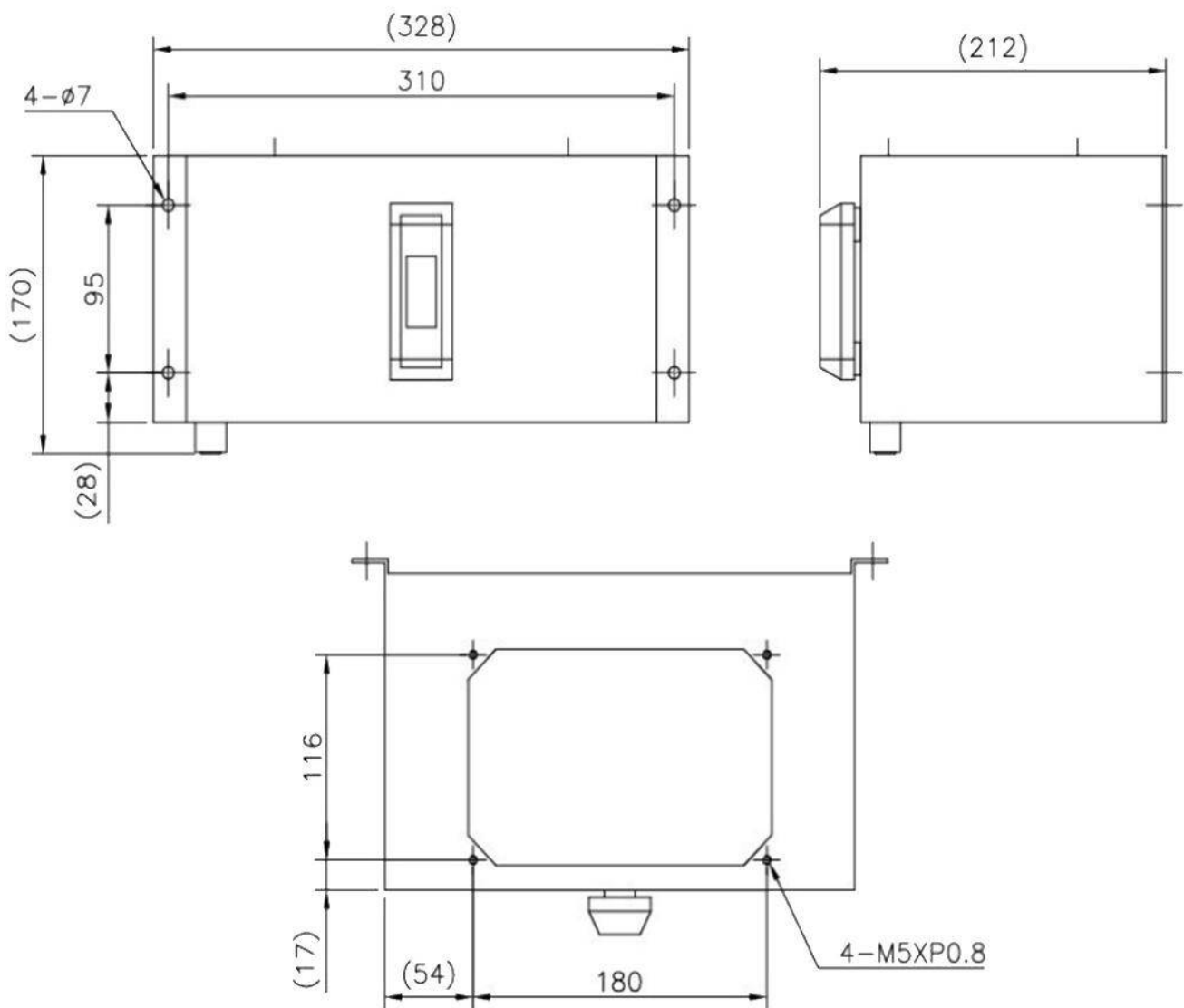
\*\*\*\* Todas las dimensiones están dadas en milímetros.

# ISH DAR 156016-SE SM DAR 156016-SE

## STEEL REPLACEMENT OIL TANK









## Characteristics & Dimensions

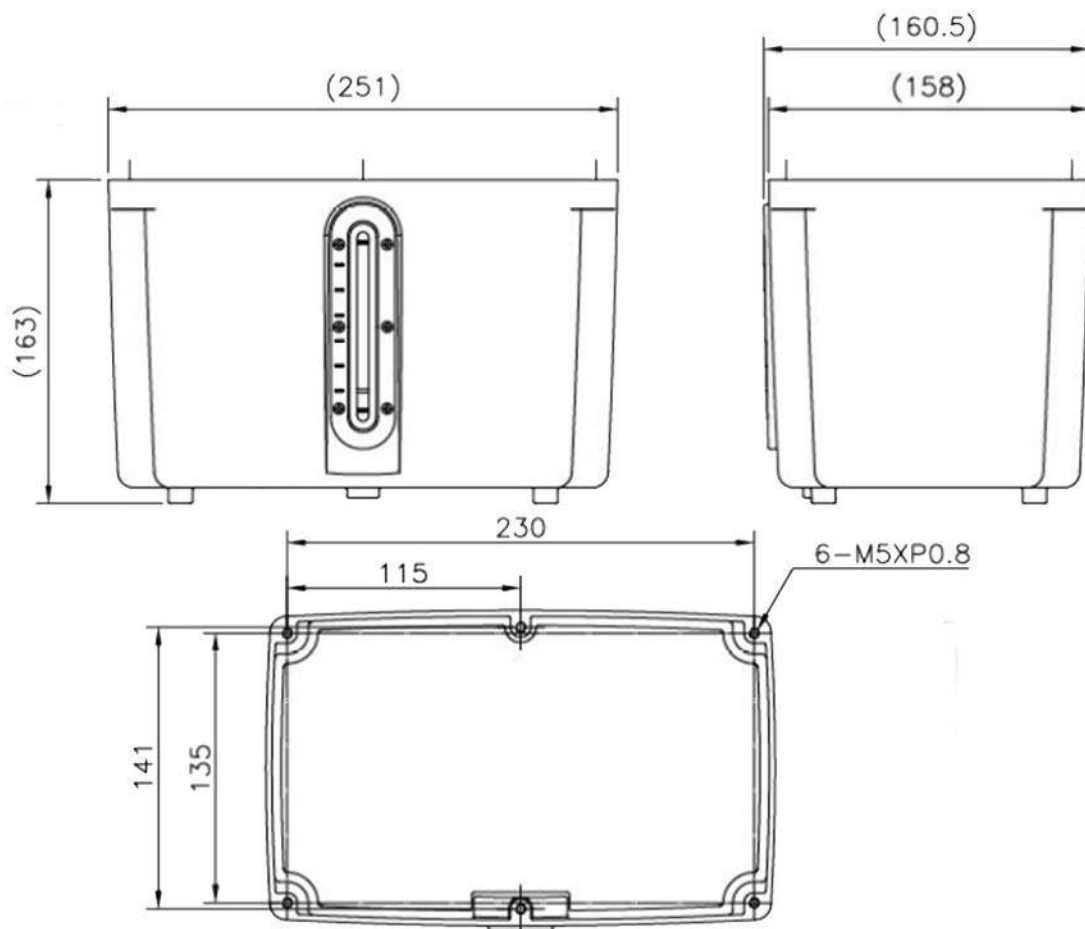
| MODEL         | W      | L      | H      | TANK CAPACITY | TANK MATERIAL   |
|---------------|--------|--------|--------|---------------|-----------------|
| 156001-SE     | 112.00 | 162.00 | 145.00 | <b>2.00</b>   | <i>Acrylic</i>  |
| 156002-SE     | 131.00 | 195.00 | 163.00 | <b>3.00</b>   | <i>Aluminum</i> |
| 156145-001-SE | 141.00 | 230.00 | 230.00 | <b>4.00</b>   | <i>Aluminum</i> |
| 156016-SE     | 212.00 | 328.00 | 328.00 | <b>6.00</b>   | <i>Steel</i>    |
| 156013-SE     | 227.00 | 357.00 | 357.00 | <b>8.00</b>   | <i>Steel</i>    |

\*\*\* Tank Capacity is given in Liters.  
 \*\*\*\* All dimensions are given in millimeters.

**ISH DAR 156145-000-SE**  
**SM DAR 156145-000-SE**

## STEEL OIL TANK REPLACEMENT







## Characteristics & Dimensions

| MODEL         | W      | L      | H      | TANK CAPACITY | TANK MATERIAL   |
|---------------|--------|--------|--------|---------------|-----------------|
| 156001-SE     | 112.00 | 162.00 | 145.00 | <b>2.00</b>   | <i>Acrylic</i>  |
| 156002-SE     | 131.00 | 195.00 | 163.00 | <b>3.00</b>   | <i>Aluminum</i> |
| 156145-001-SE | 141.00 | 230.00 | 230.00 | <b>4.00</b>   | <i>Aluminum</i> |
| 156016-SE     | 212.00 | 328.00 | 328.00 | <b>6.00</b>   | <i>Steel</i>    |
| 156013-SE     | 227.00 | 357.00 | 357.00 | <b>8.00</b>   | <i>Steel</i>    |

\*\*\* Tank Capacity is given in Liters.  
 \*\*\*\* All dimensions are given in millimeters.





# ISH DB SERIES SM DB SERIES

## PROPORTIONAL DEVICES

# ISH DB041 SM DB041

## PROPORTIONAL DEVICES

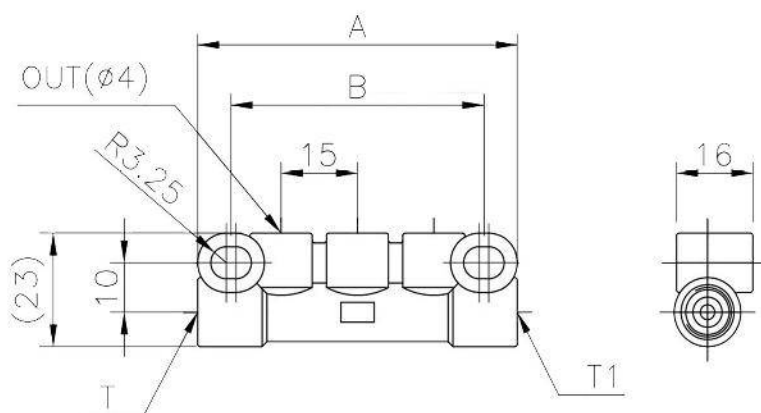




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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

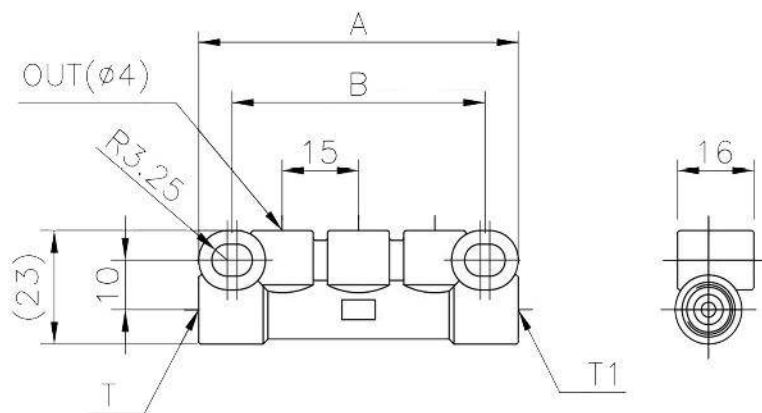
\*\*\* All dimensions are given in millimeters.

# ISH DB042 SM DB042

## PROPORTIONAL DEVICES







## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB043 SM DB043

## PROPORTIONAL DEVICES



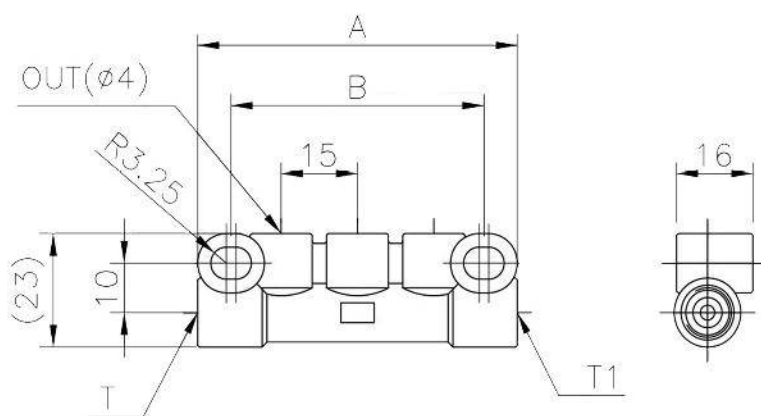


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

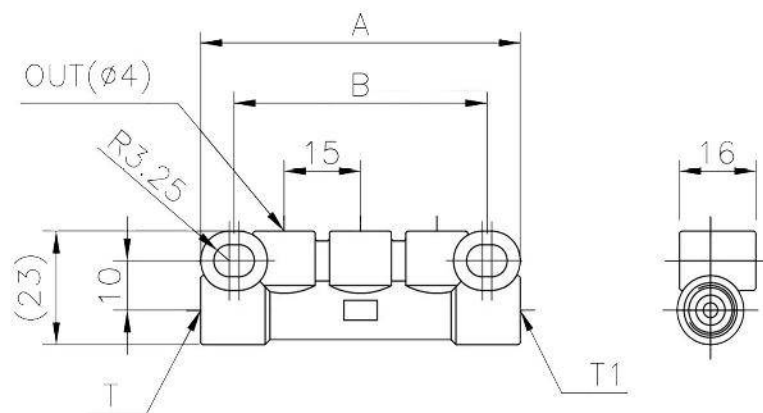
\*\*\* All dimensions are given in millimeters.



# ISH DB051 SM DB051

## PROPORTIONAL DEVICES





## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB052 SM DB052

## PROPORTIONAL DEVICES



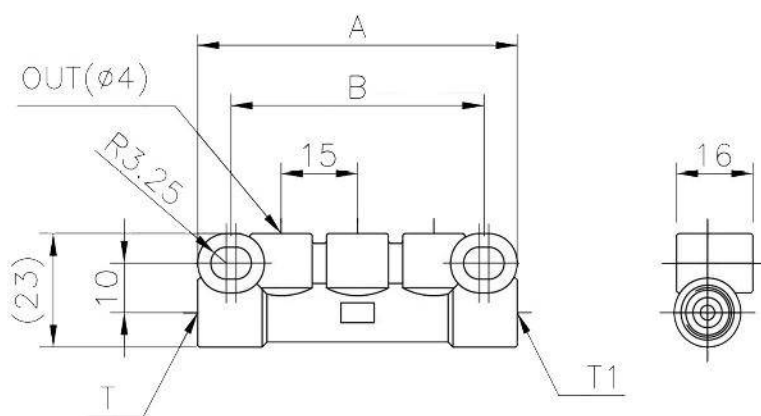


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB053 SM DB053

## PROPORTIONAL DEVICES



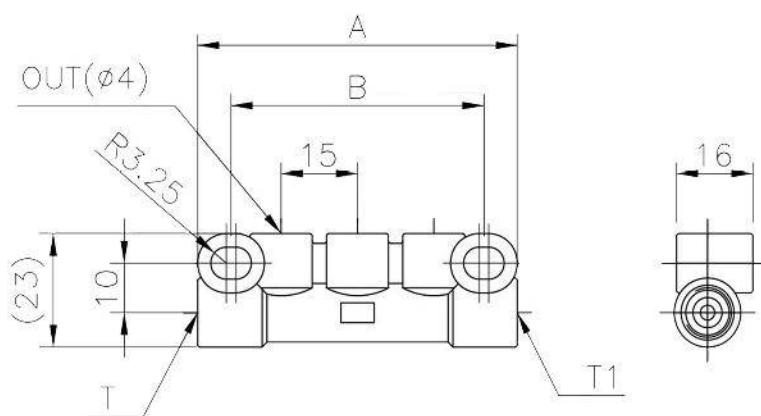


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB061 SM DB061

## PROPORTIONAL DEVICES



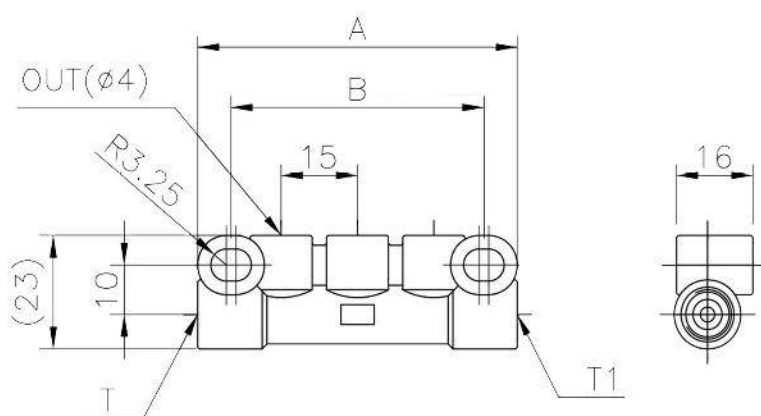




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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

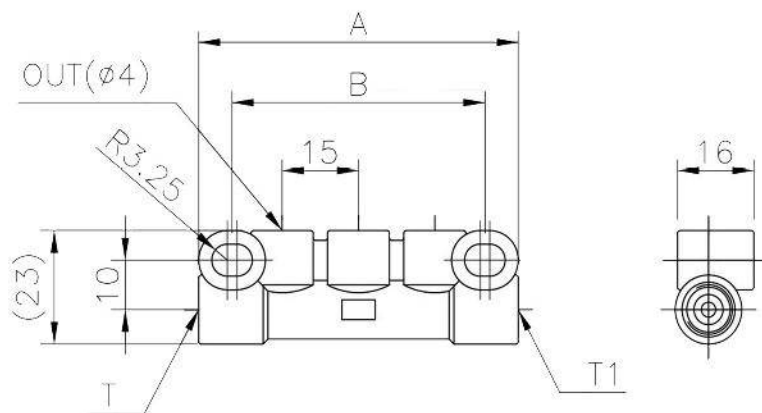
| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB062 SM DB062

## PROPORTIONAL DEVICES





## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB063 SM DB063

## PROPORTIONAL DEVICES



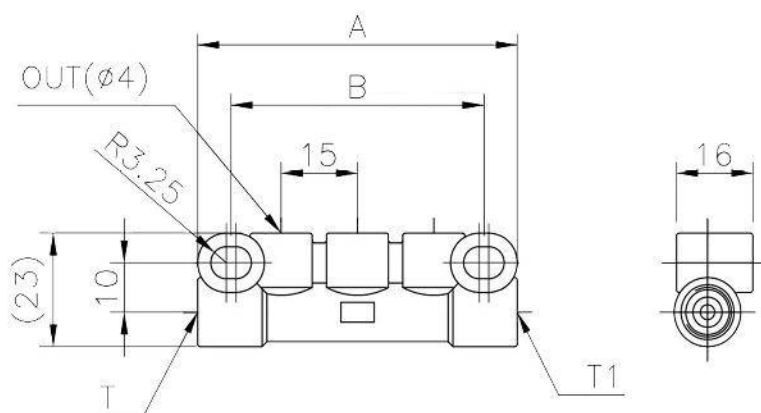


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB071 SM DB071

## PROPORTIONAL DEVICES



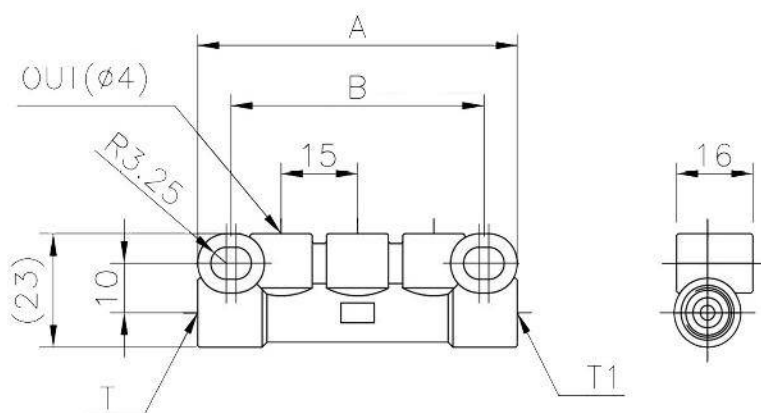


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB072 SM DB072

## PROPORTIONAL DEVICES



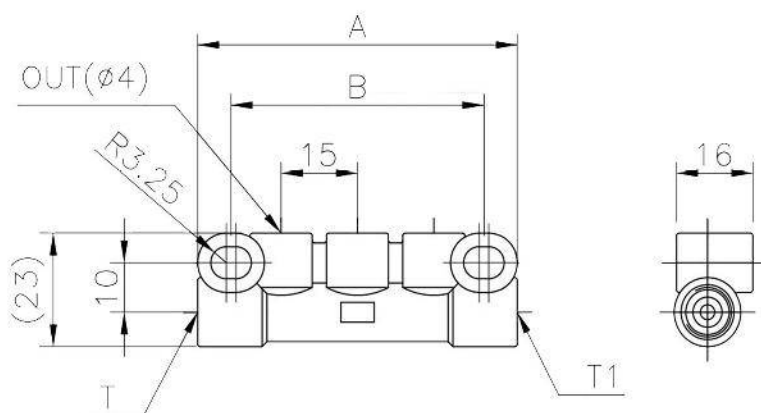


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB073 SM DB073

## PROPORTIONAL DEVICES



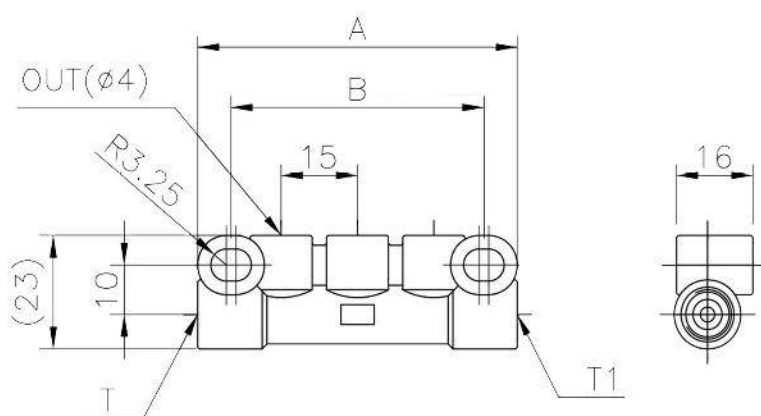




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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB081

## Proportional Devices



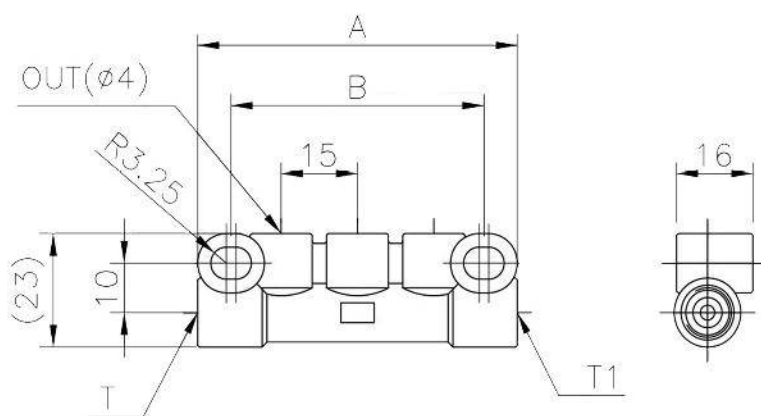


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

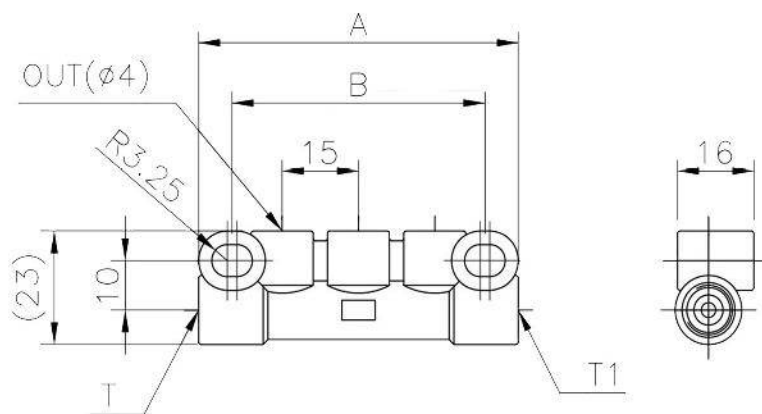
\*\*\* All dimensions are given in millimeters.



# ISH DB082 SM DB082

## PROPORTIONAL DEVICES





## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB082 SM DB082

## PROPORTIONAL DEVICES



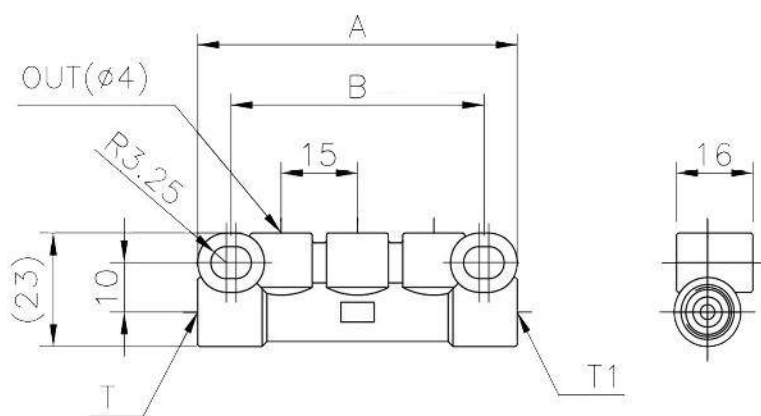


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB083 SM DB083

## PROPORTIONAL DEVICES



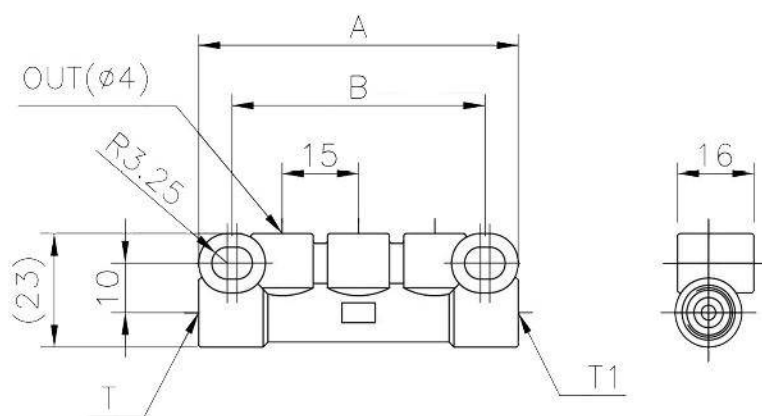


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB091 SM DB091

## PROPORTIONAL DEVICES



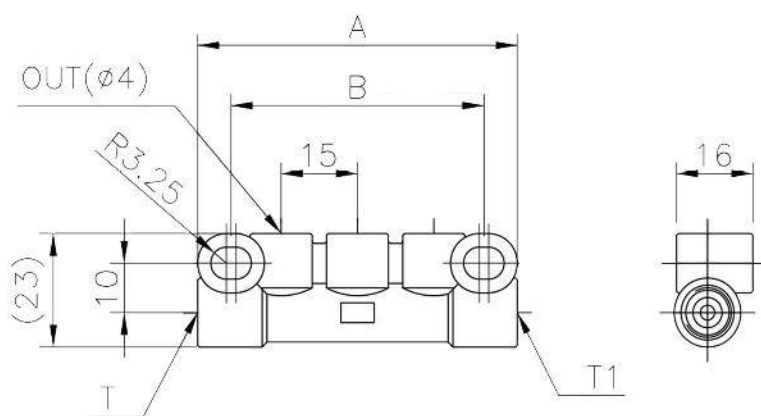




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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB092 SM DB092

## PROPORTIONAL DEVICES



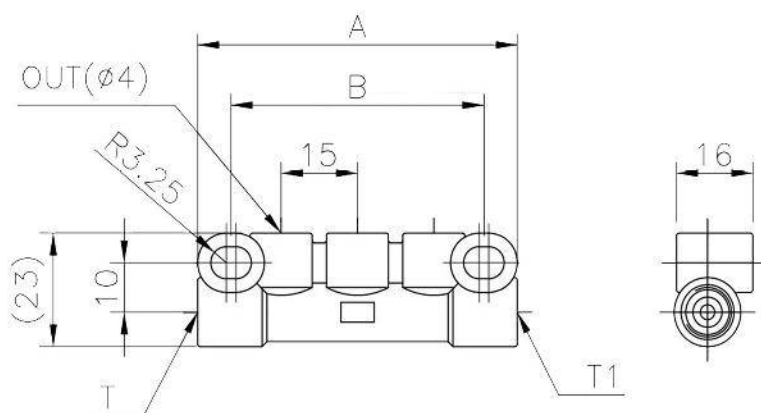


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB093 SM DB093

## PROPORTIONAL DEVICES



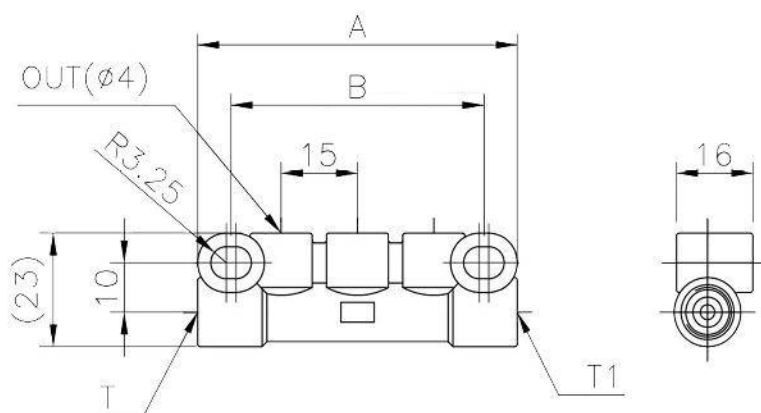


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB01001 SM DB01001

## PROPORTIONAL DEVICES



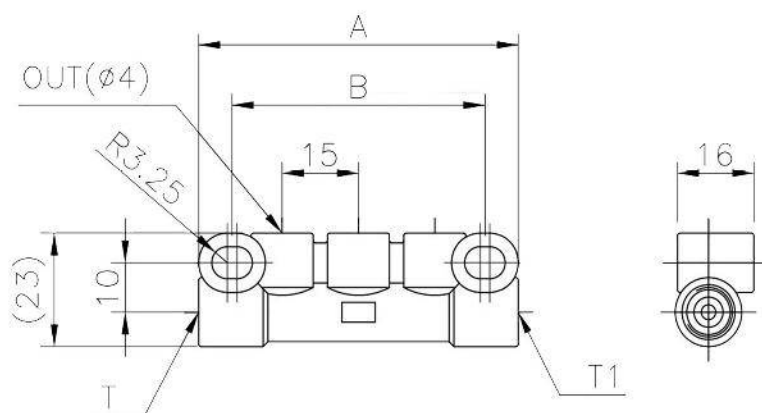


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB01002 SM DB01002

## PROPORTIONAL DEVICES



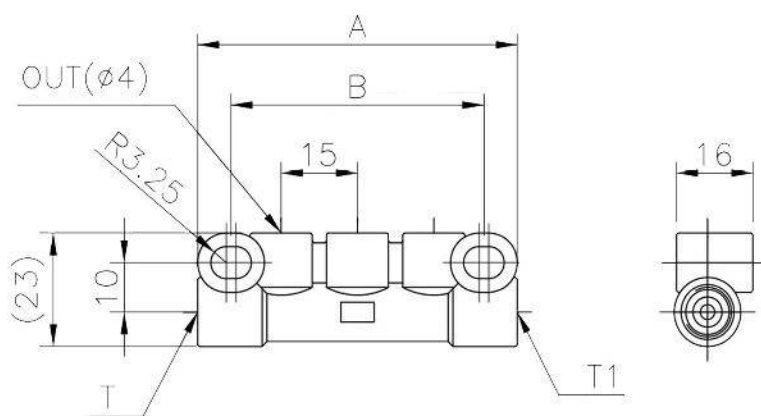


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB01003 SM DB01003

## PROPORTIONAL DEVICES





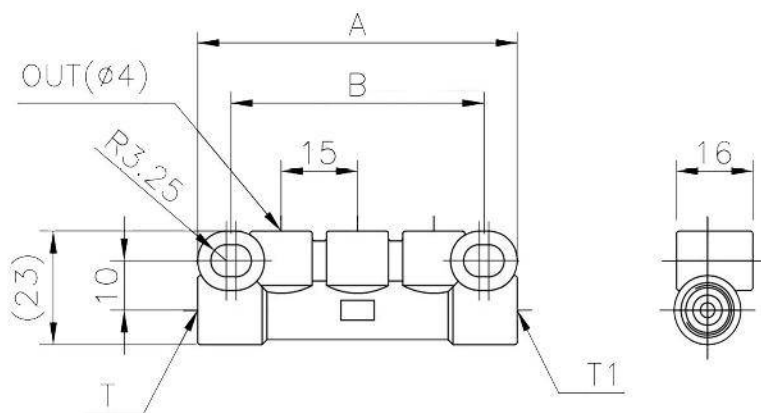


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB01021 SM DB01021

## PROPORTIONAL DEVICES



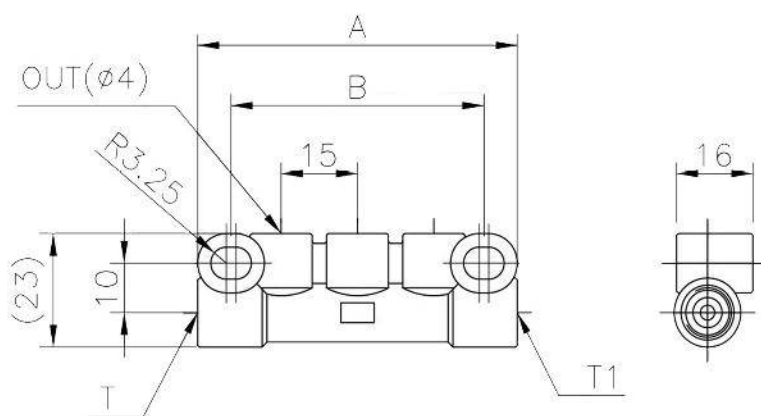


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



# ISH DB01022 SM DB01022

## PROPORTIONAL DEVICES



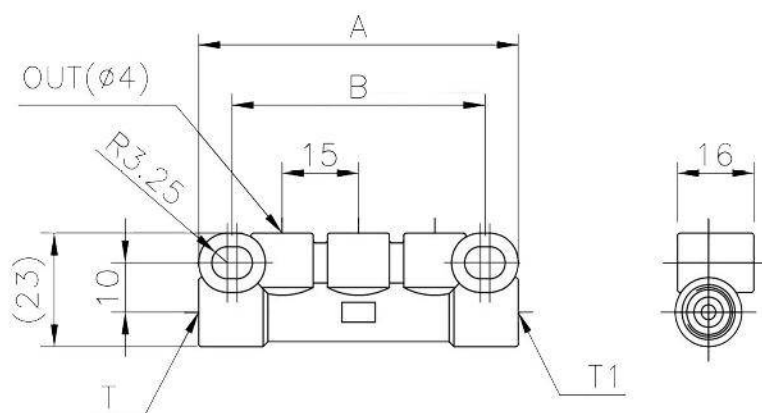


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.

# ISH DB01023 SM DB01023

## PROPORTIONAL DEVICES



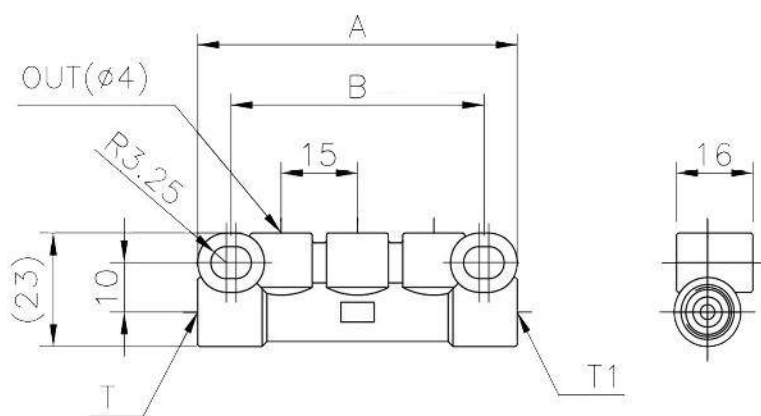


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## Characteristics & Dimensions

### DB SERIES (RESISTANCE DISTRIBUTORS)

| MODEL | T/TI    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A      | B              | WEIGHT<br>(Gr.) |
|-------|---------|----------------------|----------------|--------|----------------|-----------------|
| DB041 | Ø4 x Ø4 | 2                    | Ø4 / Ø6        | 48.00  | 35.00 ~ 36.00  | 168.00          |
| DB042 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB043 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB051 | Ø4 x Ø4 | 3                    | Ø4 / Ø6        | 64.00  | 51.00 ~ 55.00  | 168.00          |
| DB052 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB053 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB061 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 80.00  | 68.00          | 168.00          |
| DB062 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB063 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB071 | Ø4 x Ø4 | 5                    | Ø4 / Ø6        | 96.00  | 84.00          | 168.00          |
| DB072 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB073 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB081 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 112.00 | 95.00 ~ 100.00 | 168.00          |
| DB082 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB083 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB091 | Ø4 x Ø4 | 7                    | Ø4 / Ø6        | 128.00 | 116.00         | 168.00          |
| DB092 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB093 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB101 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 144.00 | 132.00         | 168.00          |
| DB102 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB103 | Ø6 x Ø6 |                      |                |        |                |                 |
| DB121 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 176.00 | 164.00         | 168.00          |
| DB122 | Ø4 x Ø6 |                      |                |        |                |                 |
| DB123 | Ø6 x Ø6 |                      |                |        |                |                 |

\*\*\* All dimensions are given in millimeters.



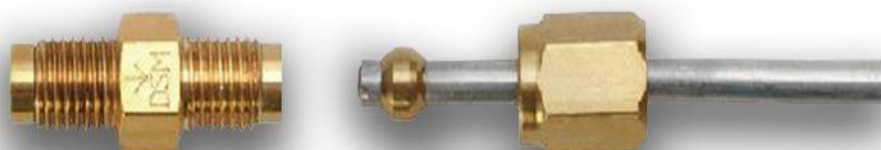
# ISH DCM SERIES SM DCM SERIES

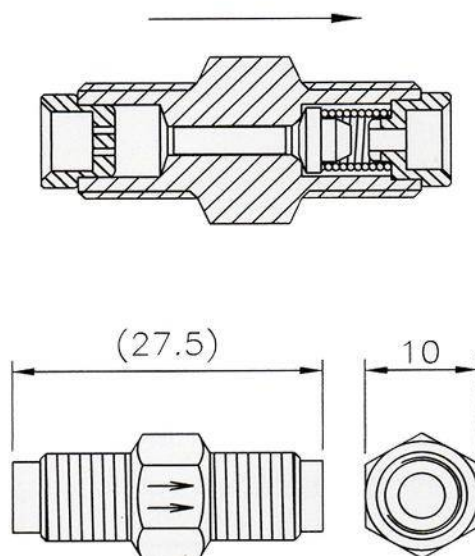
IN-LINE FLOW  
PRESSURE  
DISTRIBUTORS

# ISH DCM SERIES

## PROPORTIONAL DEVICES

INPUT: 5/16 - 24  
OUTPUT: 1/8 NPT





# Characteristics & Dimensions

## ISH DCM SERIES

**156001-SE**

**5/16" - 24**

**145.00**

**1/8" NPT**

### MODEL

### LUBRICANT FLOW RATE

ISH DCM-000

000

ISH DCM-00

00

ISH DCM-0

0

ISH DCM-1

1

ISH DCM-2

2

ISH DCM-3

3

ISH DCM-4

4

ISH DCM-5

5

Working Pressure Range

0.20 ~ 2.00 Mpa (2.00 ~ 20.00 Kg/cm<sup>2</sup>)

Oil Ciscosity

20.00 ~ 500.00 cSt.

Total Lenght

25.50

Total Widht

10.00

Total Device Weight (gr.)

11.00

\*\* Flow must be multiplied by the  
\*\*\* There are many more DSM Device Model, so please feel free to ask.  
\*\*\* All dimensions are given in millimeters.





# ISH DCM-M SERIES SM DCM-M SERIES

## PROPORTIONAL DEVICES

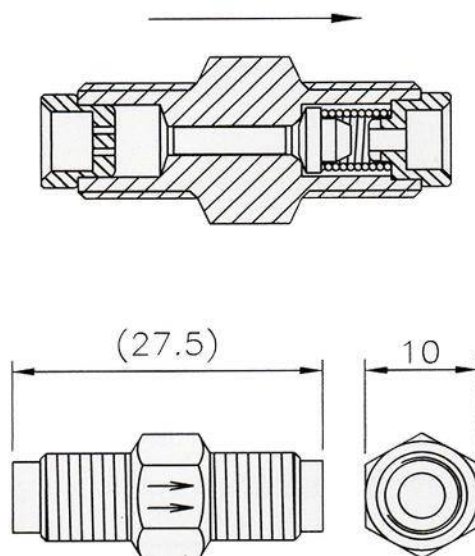
# ISH DCM-M SERIES

## PROPORTIONAL DEVICES

INPUT: M8 x 1.0

OUTPUT: 1/8 PT





# Characteristics & Dimensions

## ISH DCM-M SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| <b>M8 x 1.0</b>     | <b>1/8 PT</b>                             |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DCM-000M        | 000                                       |
| ISH DCM-00M         | 00                                        |
| ISH DCM-0M          | 0                                         |
| ISH DCM-1M          | 1                                         |
| ISH DCM-2M          | 2                                         |
| ISH DCM-3M          | 3                                         |
| ISH DCM-4M          | 4                                         |
| ISH DCM-5M          | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



# ISH DE SERIES SM DE SERIES

RESISTANCE  
OIL  
DISTRIBUTORS



# ISH DE-041 SM DE-041

## RESISTANCE OIL DISTRIBUTORS





# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-042 SM DE-042

## RESISTANCE OIL DISTRIBUTORS







# Characteristics & Dimensions

## DE SERIES

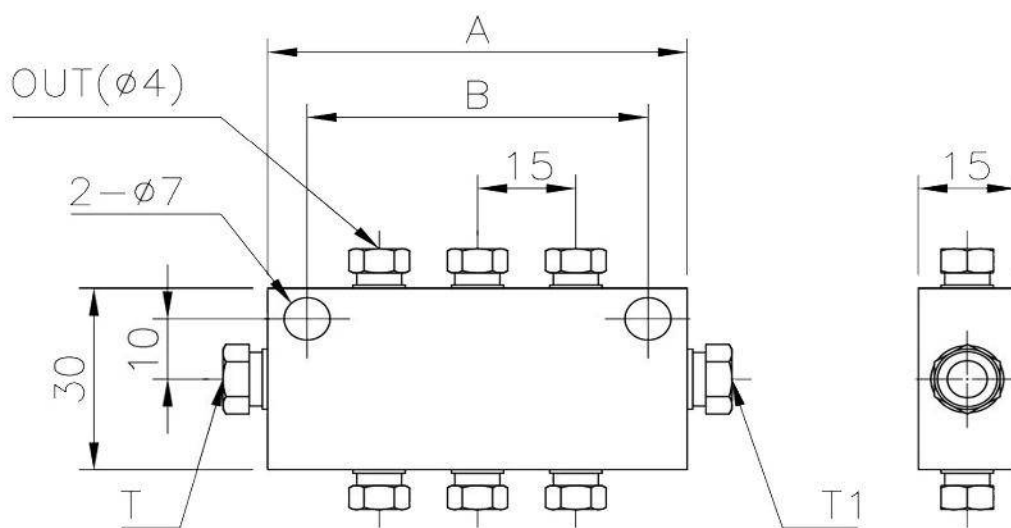
| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-043 SM DE-043

## RESISTANCE OIL DISTRIBUTORS





## Characteristics & Dimensions

### DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

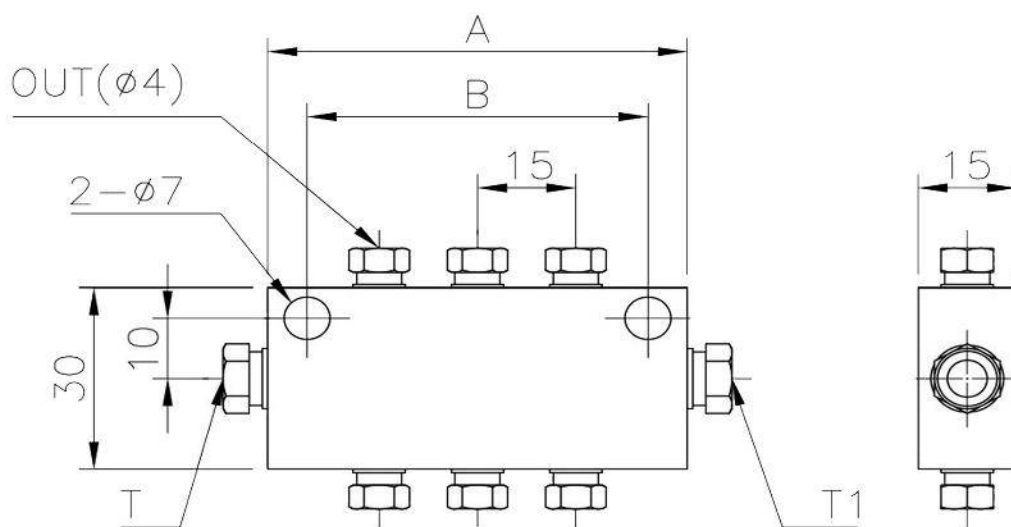
\*\*\* All dimensions are given in millimeters.

# ISH DE-061 SM DE-061

## RESISTANCE OIL DISTRIBUTORS







# Characteristics & Dimensions

## DE SERIES

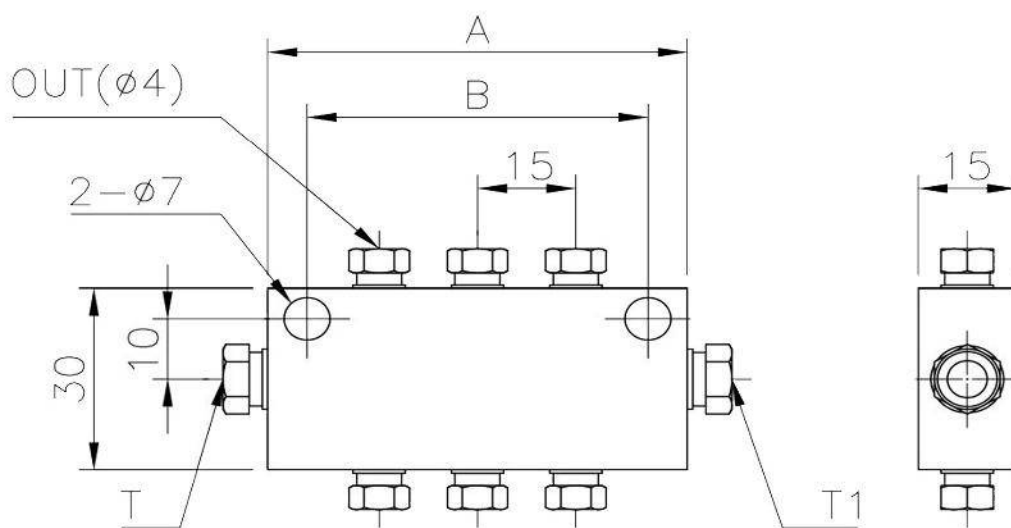
| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-062 SM DE-062

## RESISTANCE OIL DISTRIBUTORS





## Characteristics & Dimensions

### DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.



# ISH DE-063 SM DE-063

## RESISTANCE OIL DISTRIBUTORS





# Characteristics & Dimensions

## DE SERIES

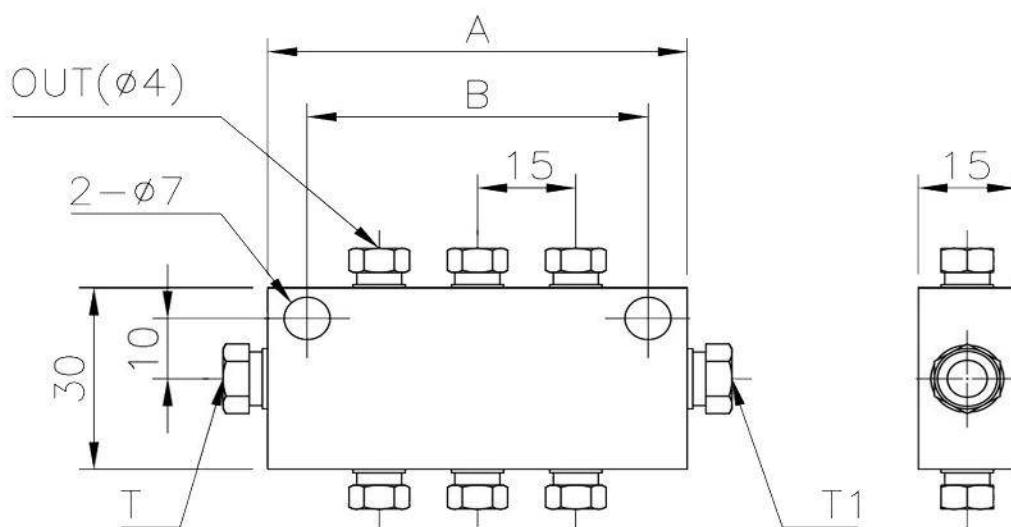
| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-081 SM DE-081

## RESISTANCE OIL DISTRIBUTORS







# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-082 SM DE-082

## RESISTANCE OIL DISTRIBUTORS



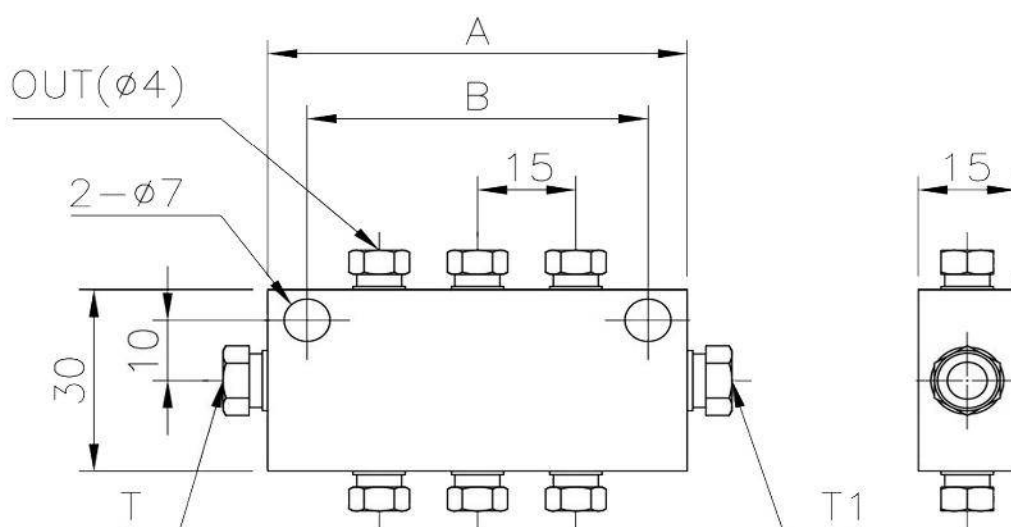
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# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

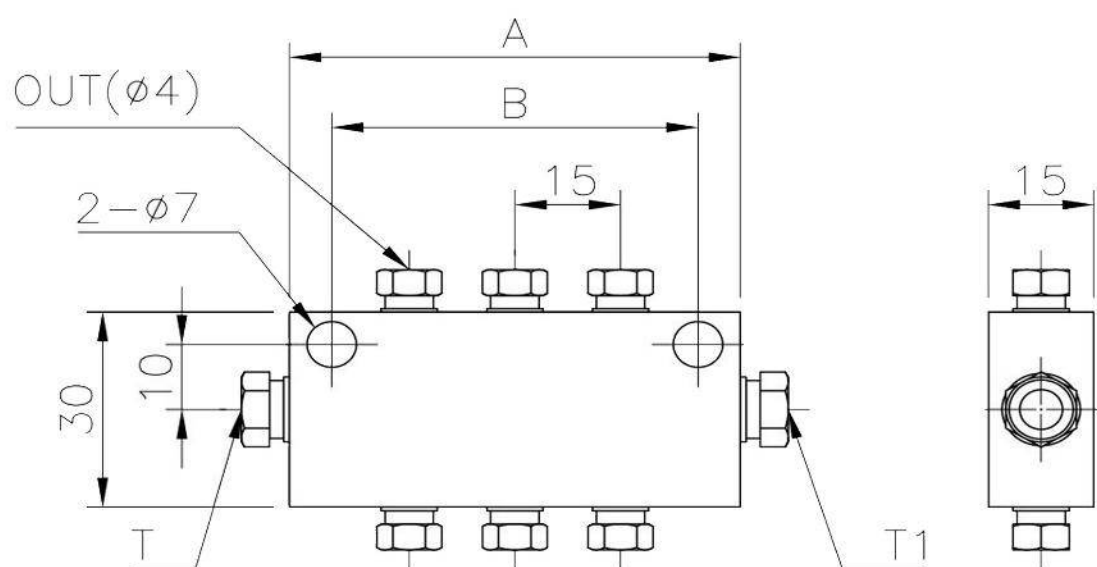
\*\*\* All dimensions are given in millimeters.

# ISH DE-083 SM DE-083

## RESISTANCE OIL DISTRIBUTORS







# Characteristics & Dimensions

## DE SERIES

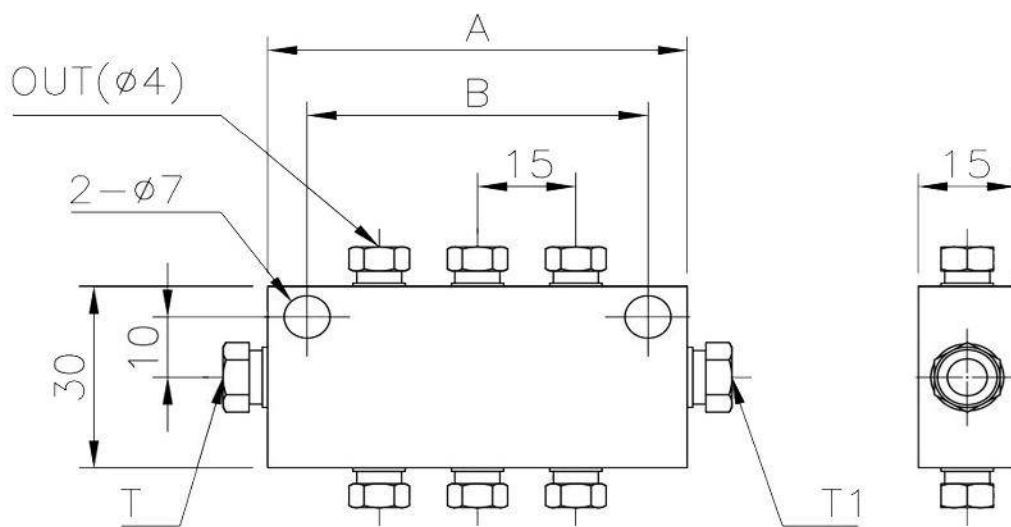
| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-01001 SM DE-01001

## RESISTANCE OIL DISTRIBUTORS





## Characteristics & Dimensions

### DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\*\* All dimensions are given in millimeters.



# ISH DE-01002 SM DE-01002

## RESISTANCE OIL DISTRIBUTORS



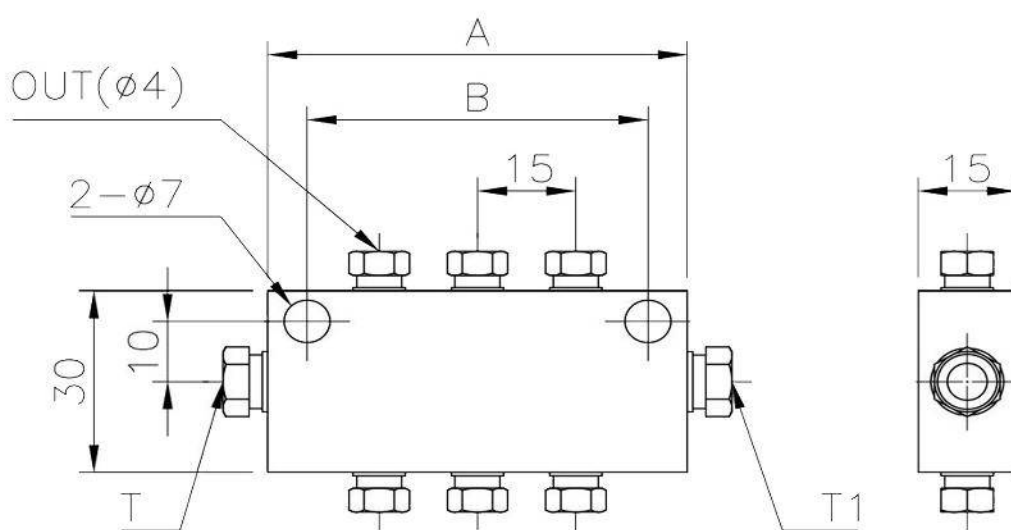


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# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-01003 SM DE-01003

## RESISTANCE OIL DISTRIBUTORS



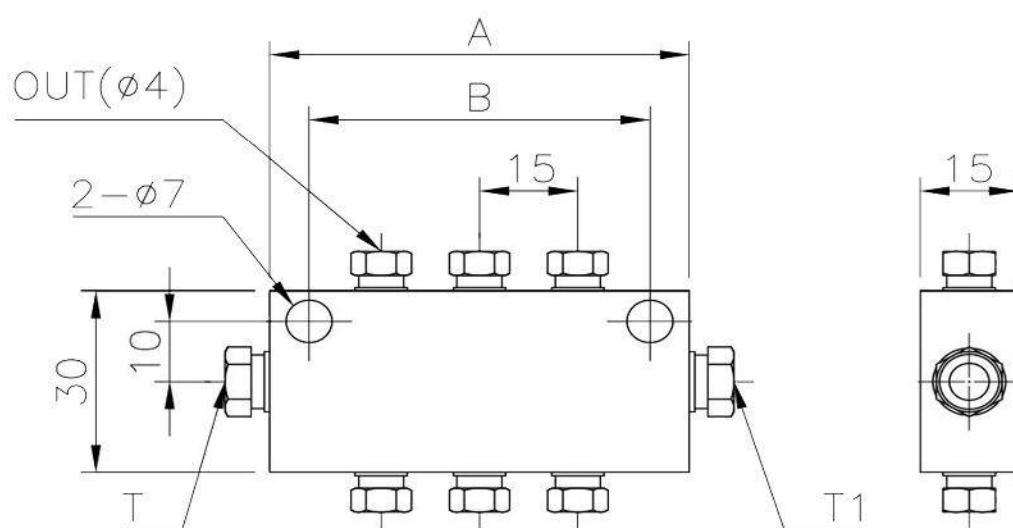
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# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-01021 SM DE-01021

## RESISTANCE OIL DISTRIBUTORS





# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-01022 SM DE-01022

## RESISTANCE OIL DISTRIBUTORS





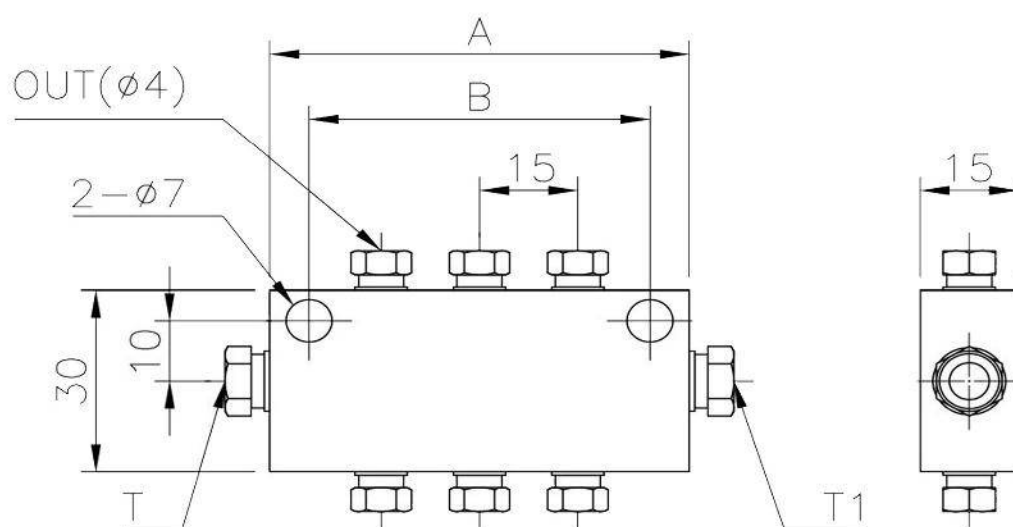
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LUBRICATION SYSTEM

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ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM



## Characteristics & Dimensions

### DE SERIES

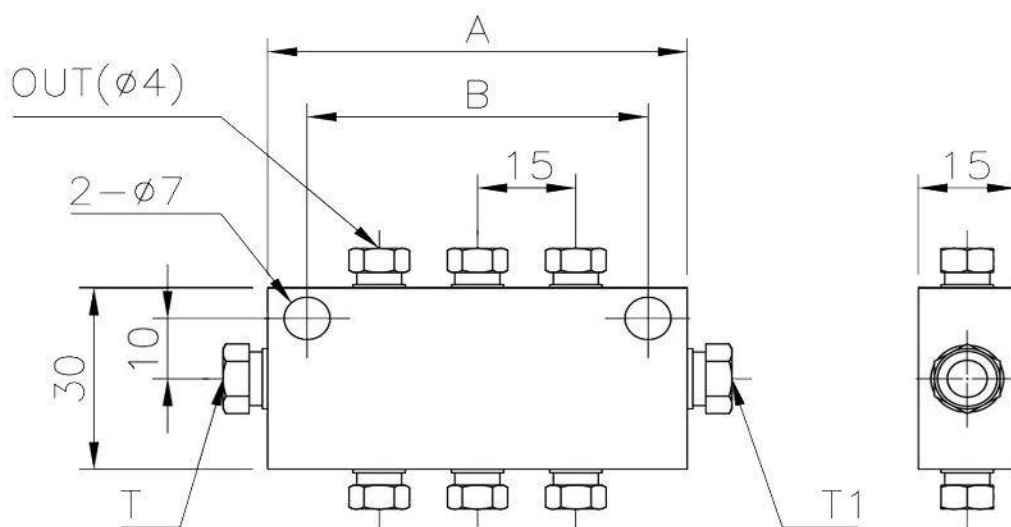
| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.

# ISH DE-01023 SM DE-01023

## RESISTANCE OIL DISTRIBUTORS





# Characteristics & Dimensions

## DE SERIES

| MODEL | T/T1    | NUMBER OF<br>OUTLETS | OUTLET<br>BORE | A   | B  | WEIGHT<br>(Kg) |
|-------|---------|----------------------|----------------|-----|----|----------------|
| DE041 | Ø4 x Ø4 | 4                    | Ø4 / Ø6        | 48  | 36 | 70             |
| DE042 | Ø4 x Ø6 |                      |                |     |    |                |
| DE043 | Ø6 x Ø6 |                      |                |     |    |                |
| DE061 | Ø4 x Ø4 | 6                    | Ø4 / Ø6        | 64  | 52 | 92             |
| DE062 | Ø4 x Ø6 |                      |                |     |    |                |
| DE063 | Ø6 x Ø6 |                      |                |     |    |                |
| DE081 | Ø4 x Ø4 | 8                    | Ø4 / Ø6        | 80  | 68 | 116            |
| DE082 | Ø4 x Ø6 |                      |                |     |    |                |
| DE083 | Ø6 x Ø6 |                      |                |     |    |                |
| DE101 | Ø4 x Ø4 | 10                   | Ø4 / Ø6        | 96  | 84 | 138            |
| DE102 | Ø4 x Ø6 |                      |                |     |    |                |
| DE103 | Ø6 x Ø6 |                      |                |     |    |                |
| DE121 | Ø4 x Ø4 | 12                   | Ø4 / Ø6        | 112 | 99 | 159            |
| DE122 | Ø4 x Ø6 |                      |                |     |    |                |
| DE123 | Ø6 x Ø6 |                      |                |     |    |                |

\*\*\* All dimensions are given in millimeters.





# ISH DFA SERIES

# SM DFA SERIES

## PISTON

## DISTRIBUTORS

# ISH DFA12 SM DFA12

## PISTON OIL DISTRIBUTORS



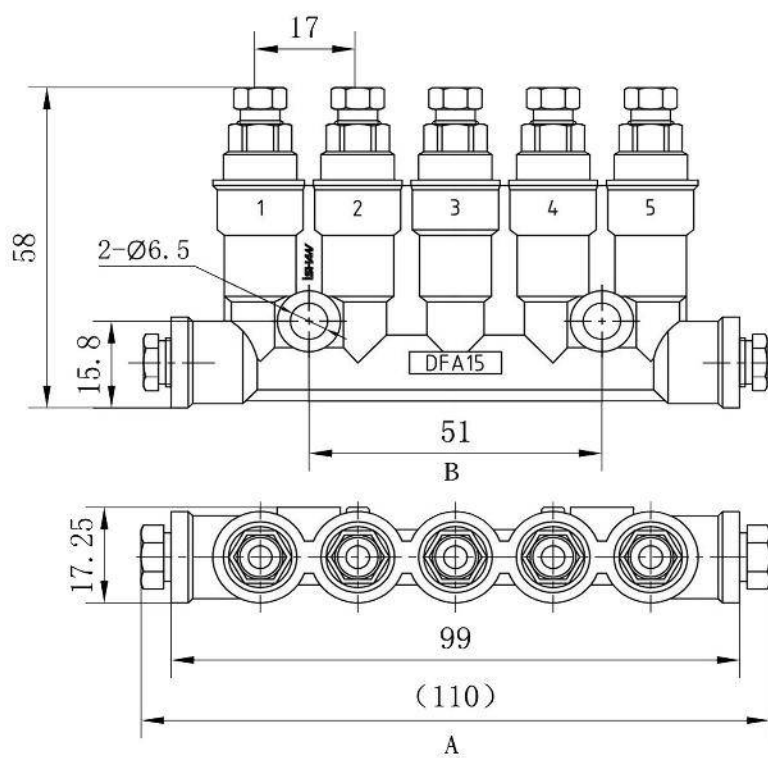
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## Characteristics & Dimensions

### DFA SERIES

| MODEL | NUMBER OF OULETS | A      | B     | METERED VOLUME (c.c.)        |
|-------|------------------|--------|-------|------------------------------|
| DFA12 | 2                | 76.00  | 34.00 | 0.03<br>0.06<br>0.10<br>0.16 |
| DFA13 | 3                | 93.00  | 17.00 |                              |
| DFA14 | 4                | 96.00  | 34.00 |                              |
| DFA15 | 5                | 110.00 | 51.00 |                              |
| DFA16 | 6                | 127.00 | 68.00 |                              |

\*\*\* All dimensions are given in millimeters.

# ISH DFA13 SM DFA13

## PISTON OIL DISTRIBUTORS





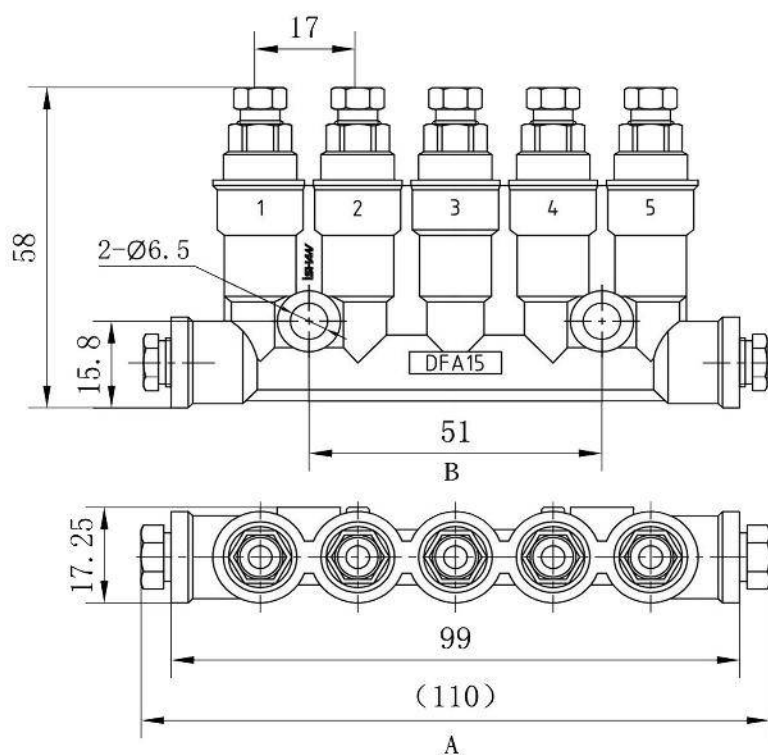
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## Characteristics & Dimensions

### DFA SERIES

| MODEL | NUMBER OF OULETS | A      | B     | METERED VOLUME (c.c.)        |
|-------|------------------|--------|-------|------------------------------|
| DFA12 | 2                | 76.00  | 34.00 | 0.03<br>0.06<br>0.10<br>0.16 |
| DFA13 | 3                | 93.00  | 17.00 |                              |
| DFA14 | 4                | 96.00  | 34.00 |                              |
| DFA15 | 5                | 110.00 | 51.00 |                              |
| DFA16 | 6                | 127.00 | 68.00 |                              |

\*\*\* All dimensions are given in millimeters.

# ISH DFA14 SM DFA14

## PISTON OIL DISTRIBUTORS



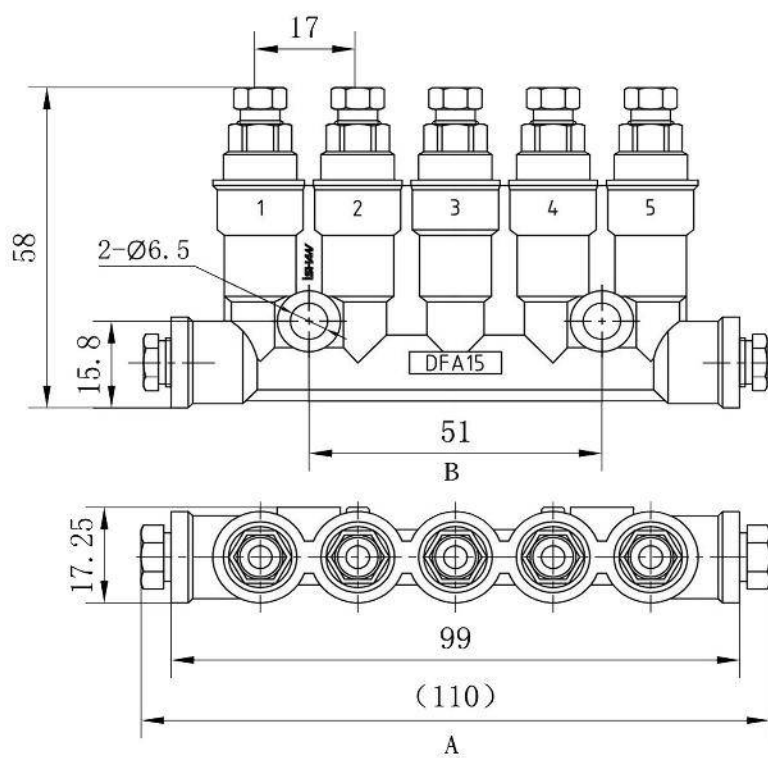
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## Characteristics & Dimensions

### DFA SERIES

| MODEL | NUMBER OF OULETS | A      | B     | METERED VOLUME (c.c.)        |
|-------|------------------|--------|-------|------------------------------|
| DFA12 | 2                | 76.00  | 34.00 | 0.03<br>0.06<br>0.10<br>0.16 |
| DFA13 | 3                | 93.00  | 17.00 |                              |
| DFA14 | 4                | 96.00  | 34.00 |                              |
| DFA15 | 5                | 110.00 | 51.00 |                              |
| DFA16 | 6                | 127.00 | 68.00 |                              |

\*\*\* All dimensions are given in millimeters.



# ISH DFA15 SM DFA15

## PISTON OIL DISTRIBUTORS



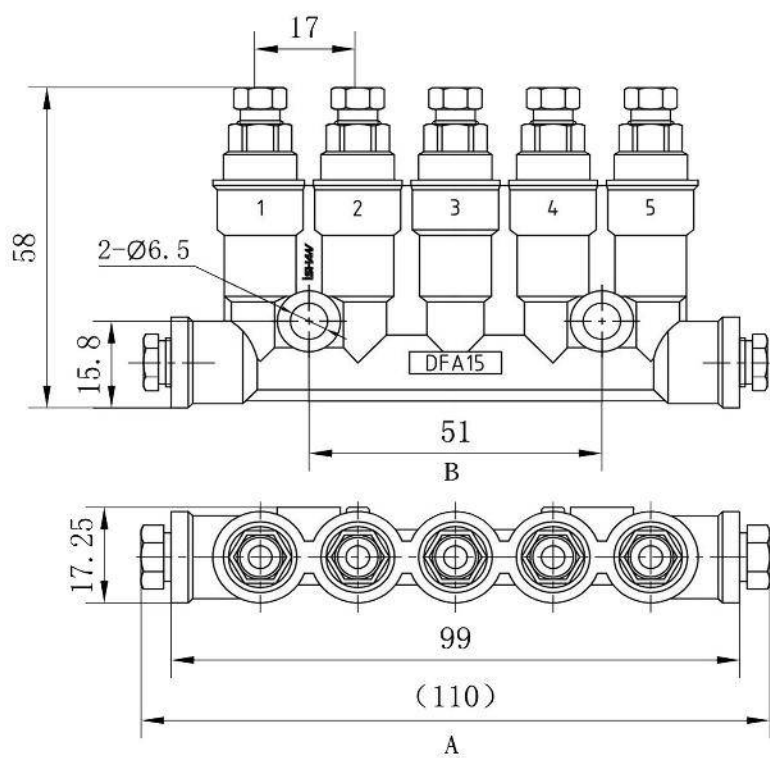
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## Characteristics & Dimensions

### DFA SERIES

| MODEL | NUMBER OF OULETS | A      | B     | METERED VOLUME (c.c.)        |
|-------|------------------|--------|-------|------------------------------|
| DFA12 | 2                | 76.00  | 34.00 | 0.03<br>0.06<br>0.10<br>0.16 |
| DFA13 | 3                | 93.00  | 17.00 |                              |
| DFA14 | 4                | 96.00  | 34.00 |                              |
| DFA15 | 5                | 110.00 | 51.00 |                              |
| DFA16 | 6                | 127.00 | 68.00 |                              |

\*\*\* All dimensions are given in millimeters.

# ISH DFA16 SM DFA16

## PISTON OIL DISTRIBUTORS



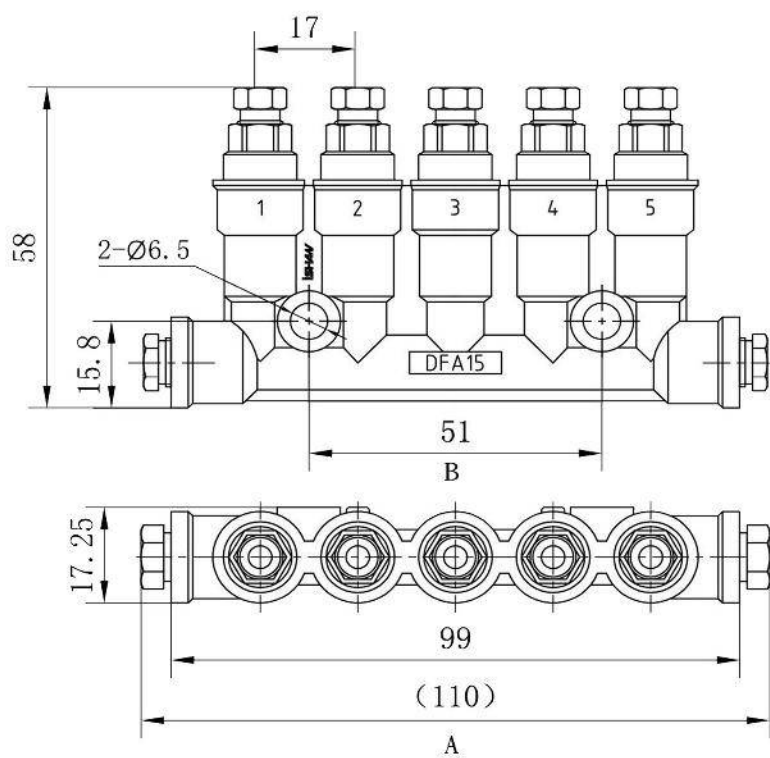
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## Characteristics & Dimensions

### DFA SERIES

| MODEL | NUMBER OF OULETS | A      | B     | METERED VOLUME (c.c.)        |
|-------|------------------|--------|-------|------------------------------|
| DFA12 | 2                | 76.00  | 34.00 | 0.03<br>0.06<br>0.10<br>0.16 |
| DFA13 | 3                | 93.00  | 17.00 |                              |
| DFA14 | 4                | 96.00  | 34.00 |                              |
| DFA15 | 5                | 110.00 | 51.00 |                              |
| DFA16 | 6                | 127.00 | 68.00 |                              |

\*\*\* All dimensions are given in millimeters.



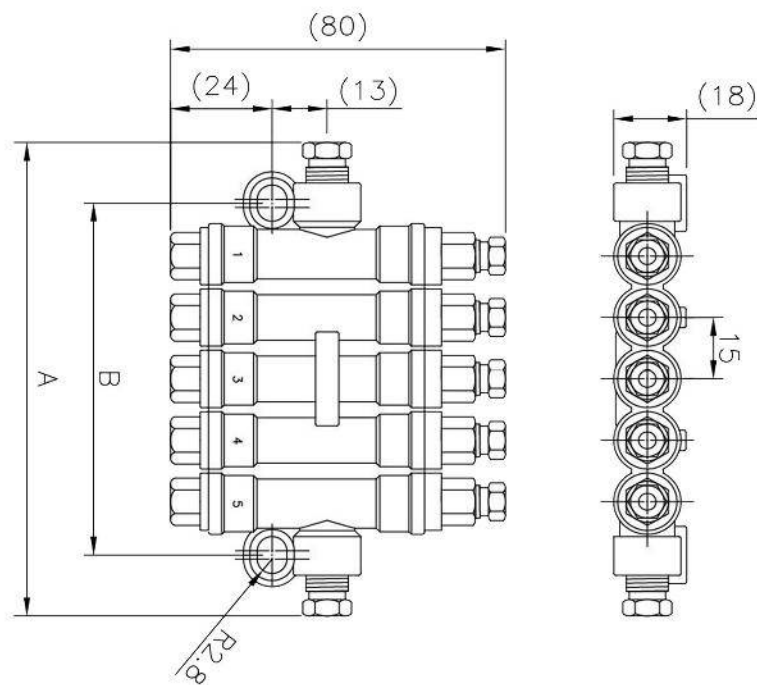
# ISH DG SERIES SM DG SERIES

## GREASE FLOW REGULATORS

# ISH DG-0200 SM DG-0200

## PISTON GREASE DISTRIBUTORS







## Characteristics & Dimensions

### DG SERIES (GREASE PISTON DISTRIBUTORS)

| MODEL   | NUMBER OF OUTLETS | A      | B              | METERED VOLUME (c.c.) | WEIGHT (Gr.) |
|---------|-------------------|--------|----------------|-----------------------|--------------|
| DG-0200 | 2                 | 75.00  | 39.00 ~ 43.00  | 0.30<br>0.40<br>0.50  | 168.00       |
| DG-0300 | 3                 | 90.00  | 54.00 ~ 58.00  |                       | 232.00       |
| DG-0400 | 4                 | 105.00 | 69.00 ~ 73.00  |                       | 299.00       |
| DG-0500 | 5                 | 120.00 | 84.00 ~ 88.00  |                       | 359.00       |
| DG-0600 | 6                 | 135.00 | 99.00 ~ 103.00 |                       | 426.00       |

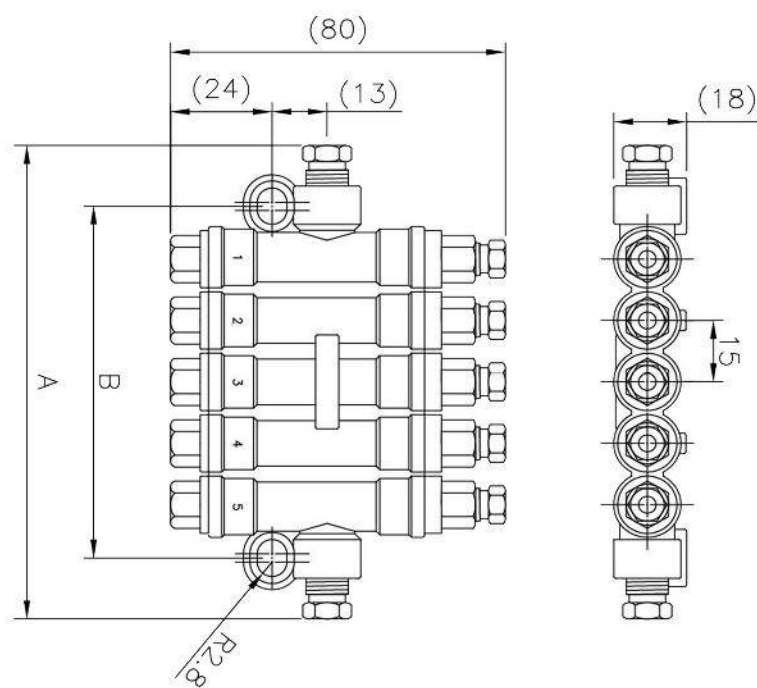
\*\*\* All dimensions are given in millimeters.



# ISH DG-0300 SM DG-0300

## PISTON GREASE DISTRIBUTORS





## Characteristics & Dimensions

### DG SERIES (GREASE PISTON DISTRIBUTORS)

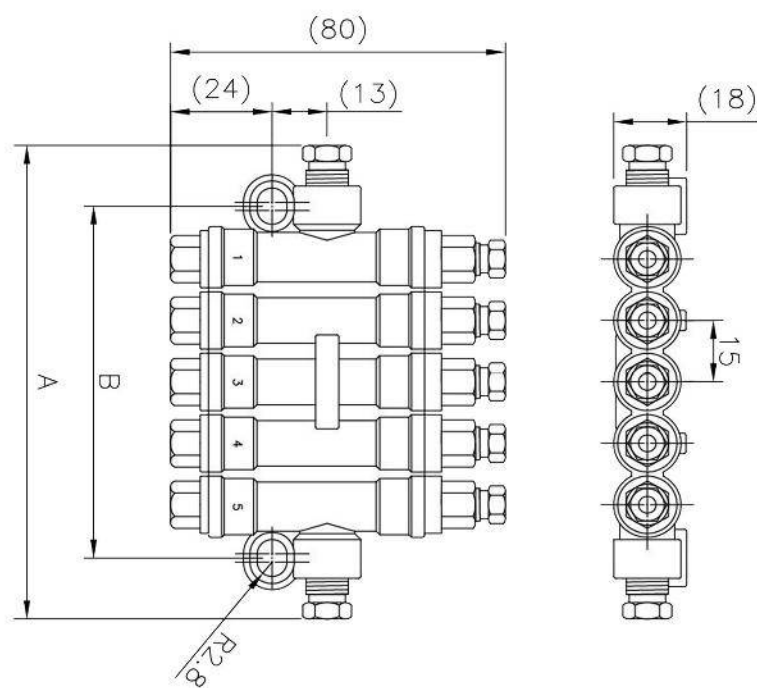
| MODEL   | NUMBER OF<br>OUTLETS | A      | B              | METERED<br>VOLUME<br>(c.c.) | WEIGHT<br>(Gr.) |
|---------|----------------------|--------|----------------|-----------------------------|-----------------|
| DG-0200 | 2                    | 75.00  | 39.00 ~ 43.00  | 0.30<br>0.40<br>0.50        | 168.00          |
| DG-0300 | 3                    | 90.00  | 54.00 ~ 58.00  |                             | 232.00          |
| DG-0400 | 4                    | 105.00 | 69.00 ~ 73.00  |                             | 299.00          |
| DG-0500 | 5                    | 120.00 | 84.00 ~ 88.00  |                             | 359.00          |
| DG-0600 | 6                    | 135.00 | 99.00 ~ 103.00 |                             | 426.00          |

\*\*\* All dimensions are given in millimeters.

# ISH DG-0400 SM DG-0400

## PISTON GREASE DISTRIBUTORS









## Characteristics & Dimensions

### DG SERIES (GREASE PISTON DISTRIBUTORS)

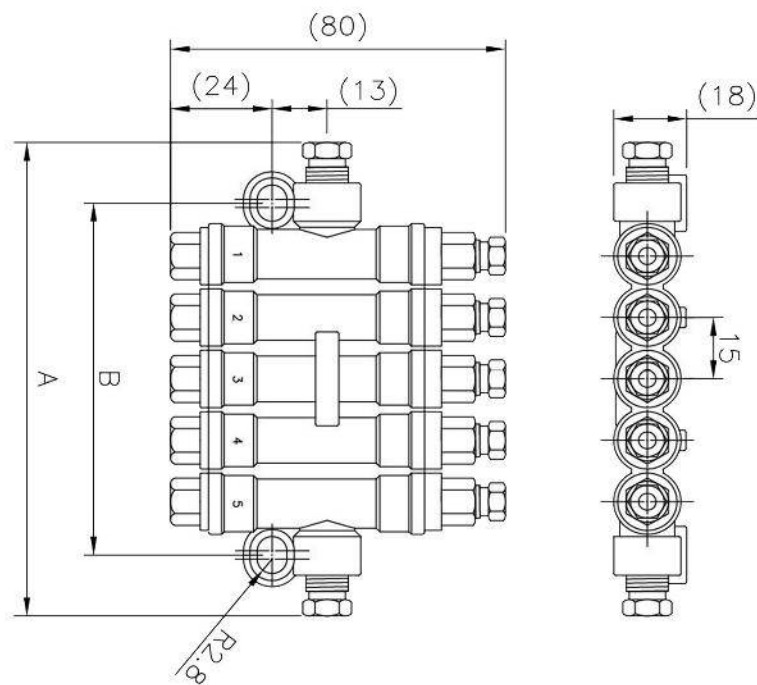
| MODEL   | NUMBER OF<br>OUTLETS | A      | B              | METERED<br>VOLUME<br>(c.c.) | WEIGHT<br>(Gr.) |
|---------|----------------------|--------|----------------|-----------------------------|-----------------|
| DG-0200 | 2                    | 75.00  | 39.00 ~ 43.00  | 0.30<br>0.40<br>0.50        | 168.00          |
| DG-0300 | 3                    | 90.00  | 54.00 ~ 58.00  |                             | 232.00          |
| DG-0400 | 4                    | 105.00 | 69.00 ~ 73.00  |                             | 299.00          |
| DG-0500 | 5                    | 120.00 | 84.00 ~ 88.00  |                             | 359.00          |
| DG-0600 | 6                    | 135.00 | 99.00 ~ 103.00 |                             | 426.00          |

\*\*\* All dimensions are given in millimeters.

# ISH DG-0500 SM DG-0500

## PISTON GREASE DISTRIBUTORS







## Characteristics & Dimensions

### DG SERIES (GREASE PISTON DISTRIBUTORS)

| MODEL   | NUMBER OF<br>OUTLETS | A      | B              | METERED<br>VOLUME<br>(c.c.) | WEIGHT<br>(Gr.) |
|---------|----------------------|--------|----------------|-----------------------------|-----------------|
| DG-0200 | 2                    | 75.00  | 39.00 ~ 43.00  | 0.30<br>0.40<br>0.50        | 168.00          |
| DG-0300 | 3                    | 90.00  | 54.00 ~ 58.00  |                             | 232.00          |
| DG-0400 | 4                    | 105.00 | 69.00 ~ 73.00  |                             | 299.00          |
| DG-0500 | 5                    | 120.00 | 84.00 ~ 88.00  |                             | 359.00          |
| DG-0600 | 6                    | 135.00 | 99.00 ~ 103.00 |                             | 426.00          |

\*\*\* All dimensions are given in millimeters.

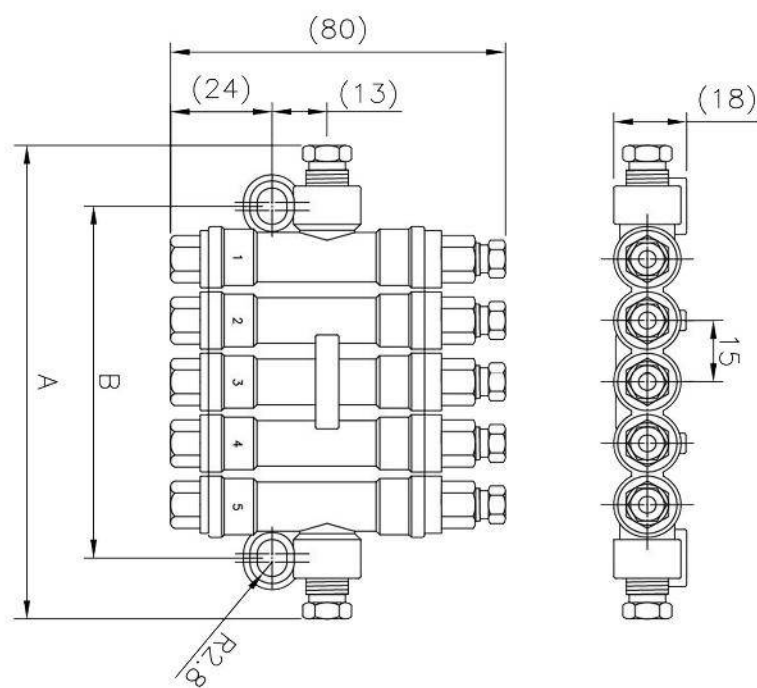


# ISH DG-0600 SM DG-0600

## PISTON GREASE DISTRIBUTORS









## Characteristics & Dimensions

### DG SERIES (GREASE PISTON DISTRIBUTORS)

| MODEL   | NUMBER OF<br>OUTLETS | A      | B              | METERED<br>VOLUME<br>(c.c.) | WEIGHT<br>(Gr.) |
|---------|----------------------|--------|----------------|-----------------------------|-----------------|
| DG-0200 | 2                    | 75.00  | 39.00 ~ 43.00  | 0.30<br>0.40<br>0.50        | 168.00          |
| DG-0300 | 3                    | 90.00  | 54.00 ~ 58.00  |                             | 232.00          |
| DG-0400 | 4                    | 105.00 | 69.00 ~ 73.00  |                             | 299.00          |
| DG-0500 | 5                    | 120.00 | 84.00 ~ 88.00  |                             | 359.00          |
| DG-0600 | 6                    | 135.00 | 99.00 ~ 103.00 |                             | 426.00          |

\*\*\* All dimensions are given in millimeters.



# ISH DM3 SERIES SM DM3 SERIES

## GREASE FLOW REGULATORS

**ISH DM3-0000-03**  
**SM DM3-0000-03**

## GREASE FLOW REGULATOR





# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.



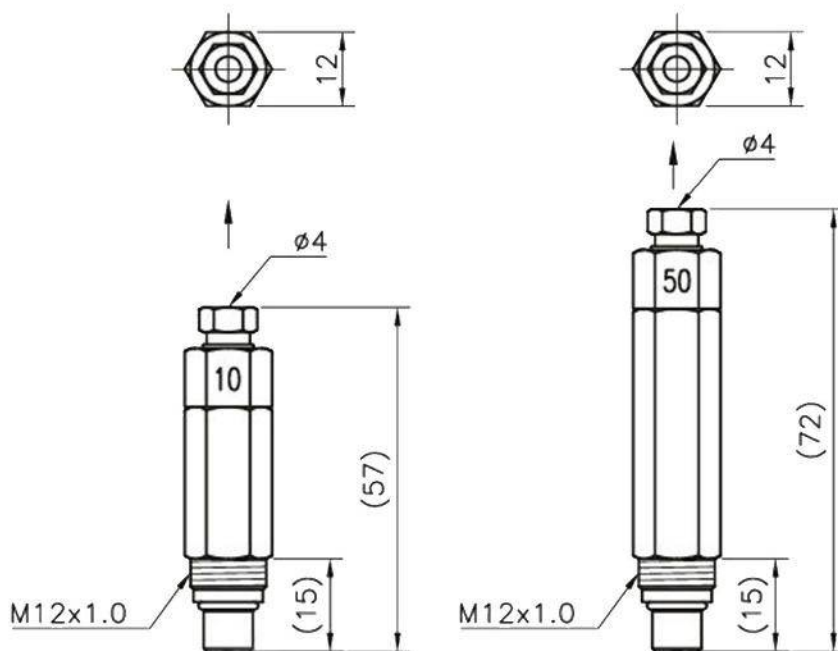


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**ISH DM3-0000-05**  
**SM DM3-0000-05**

## GREASE FLOW REGULATOR



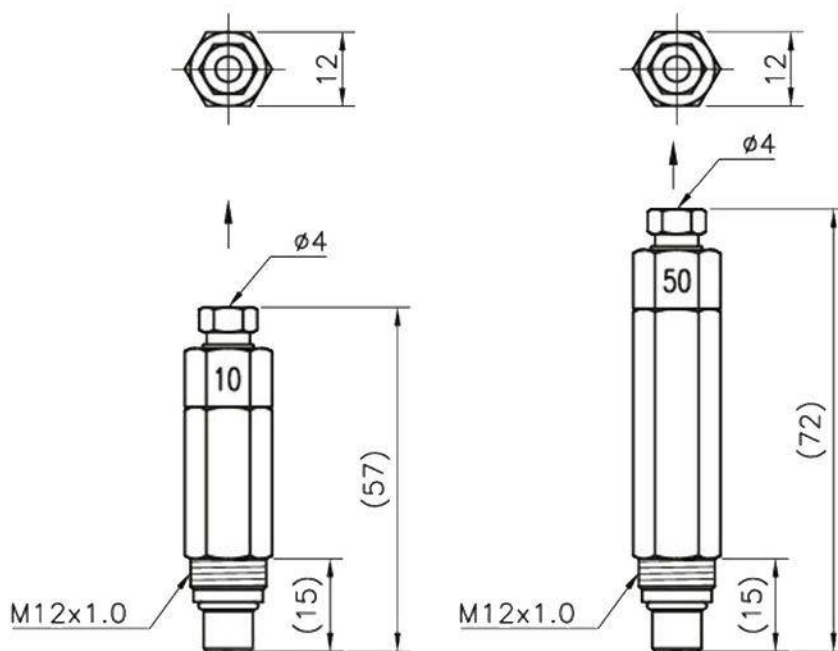


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# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

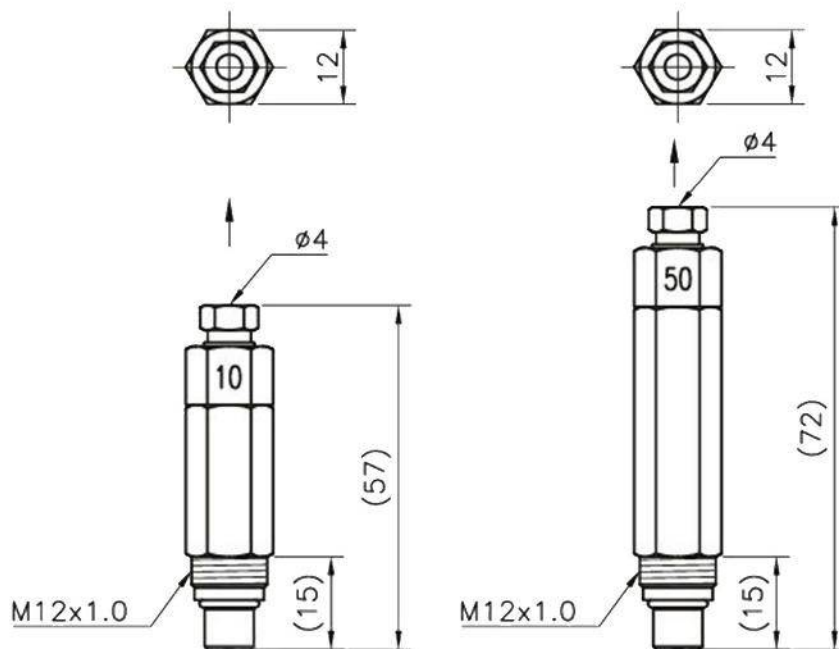
\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DM3-0000-10 SM DM3-0000-10

## GREASE FLOW REGULATOR









# Characteristics & Dimensions

## DMV SERIES

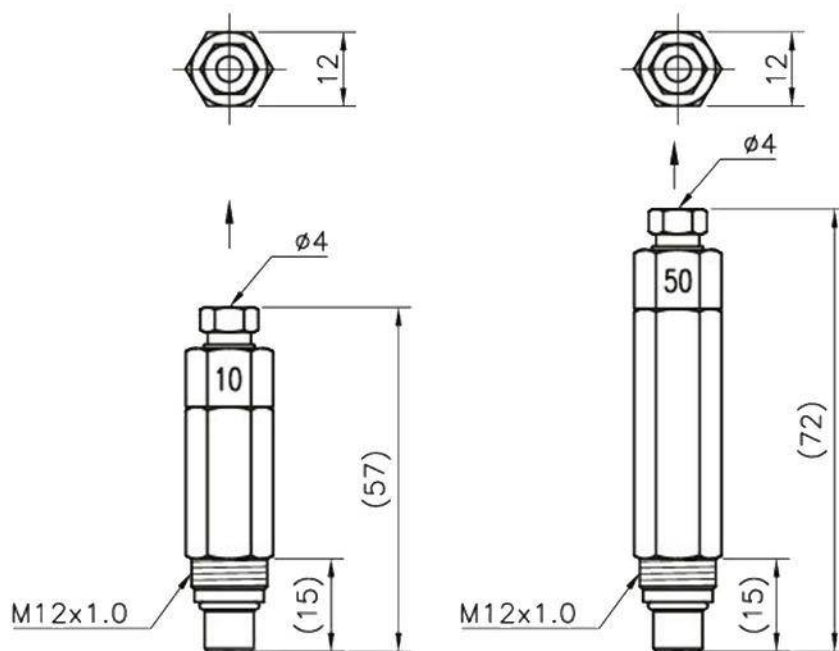
| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DM3-0000-20 SM DM3-0000-20

## GREASE FLOW REGULATOR







# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

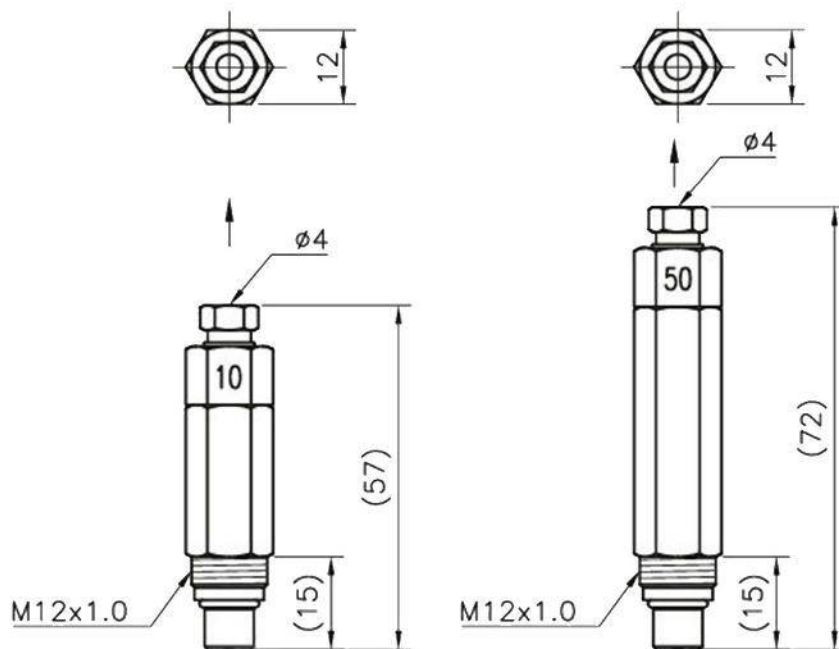
\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.



# ISH DM3-0000-30 SM DM3-0000-30

## GREASE FLOW REGULATOR







# Characteristics & Dimensions

## DMV SERIES

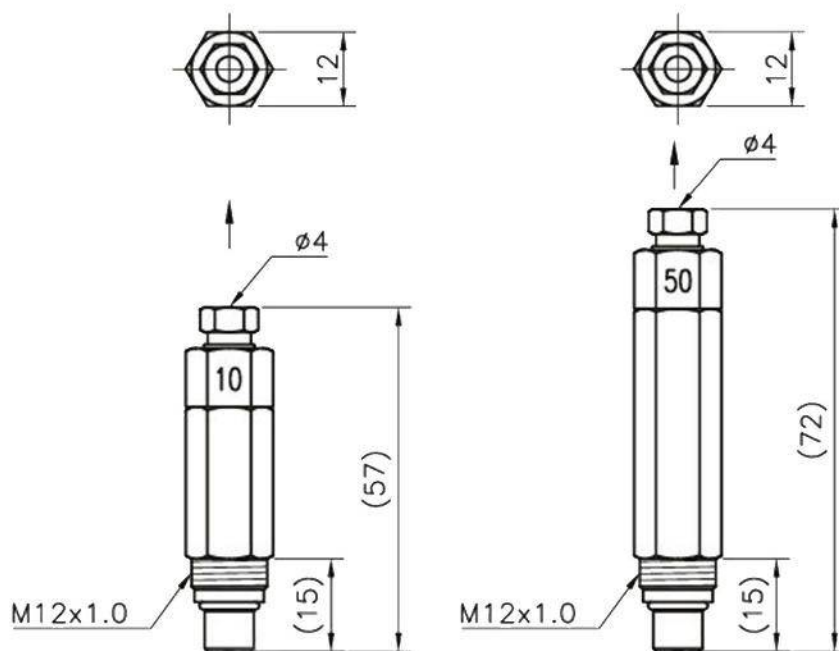
| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DM3-0000-50 SM DM3-0000-50

## GREASE FLOW REGULATOR









# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.



# ISH DMV SERIES SM DMV SERIES

## PISTON-MOUNTED GREASE DISTRIBUTORS

# ISH DMV-0100 SM DMV-0100

## GREASE PISTON DISTRIBUTORS



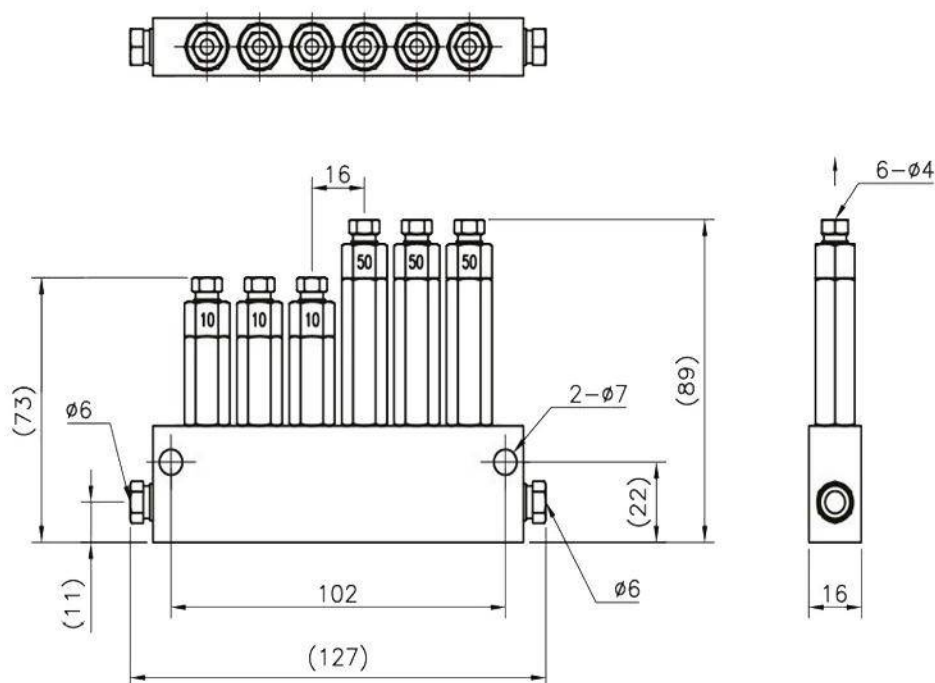
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# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

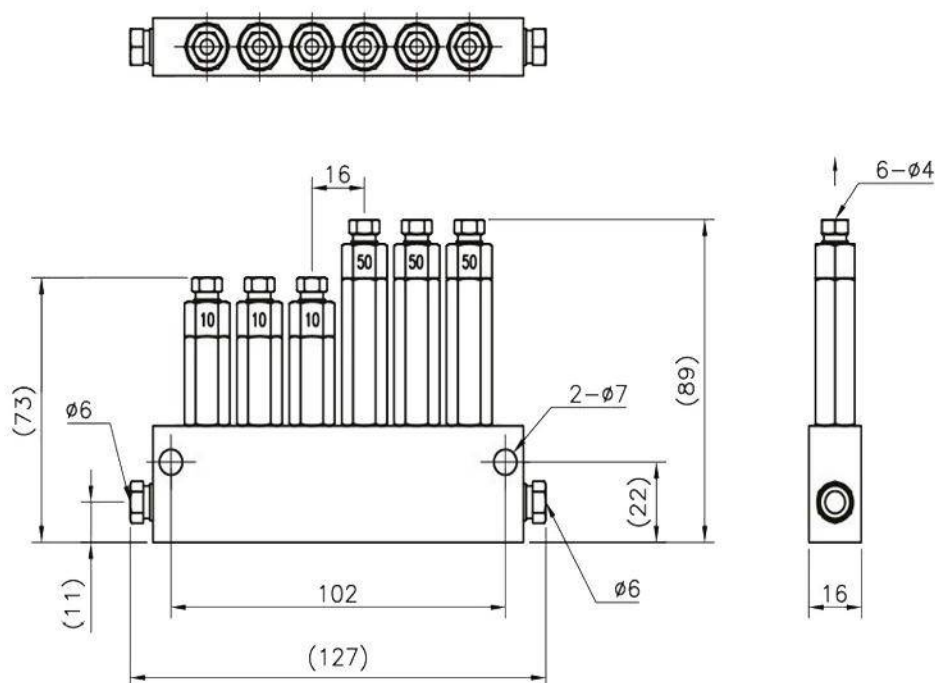
\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.



# ISH DMV-0200 SM DMV-0200

## GREASE PISTON DISTRIBUTORS







# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DMV-0300 SM DMV-0300

## GREASE PISTON DISTRIBUTORS





# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.



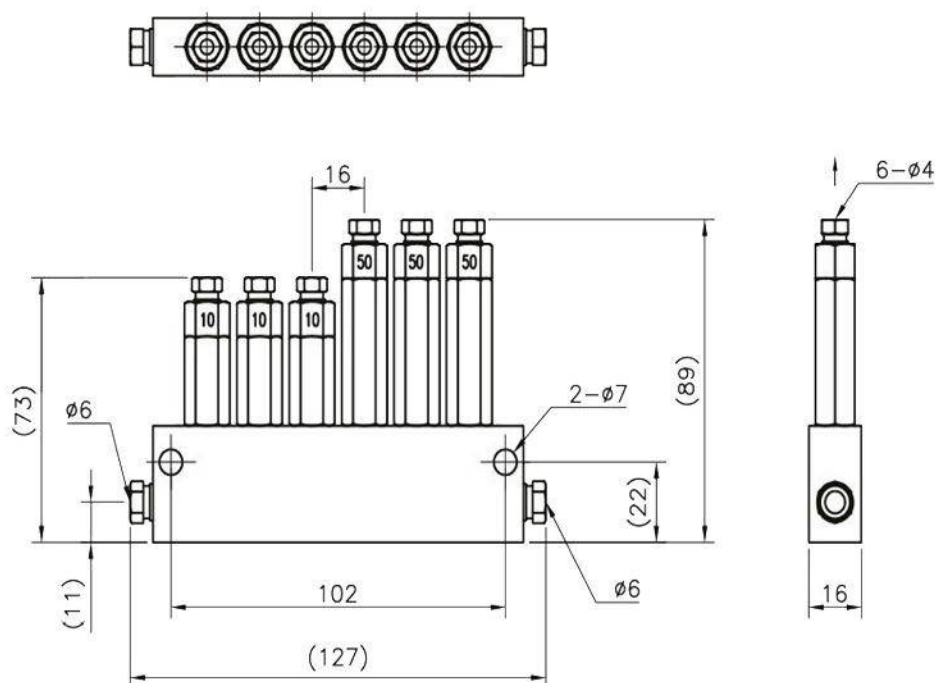
**SMUS**

**ISHAW**  
LUBRICATION SYSTEM

伊山精密工業股份有限公司  
ISHAN PRECISION INDUSTRY, CO., LTD



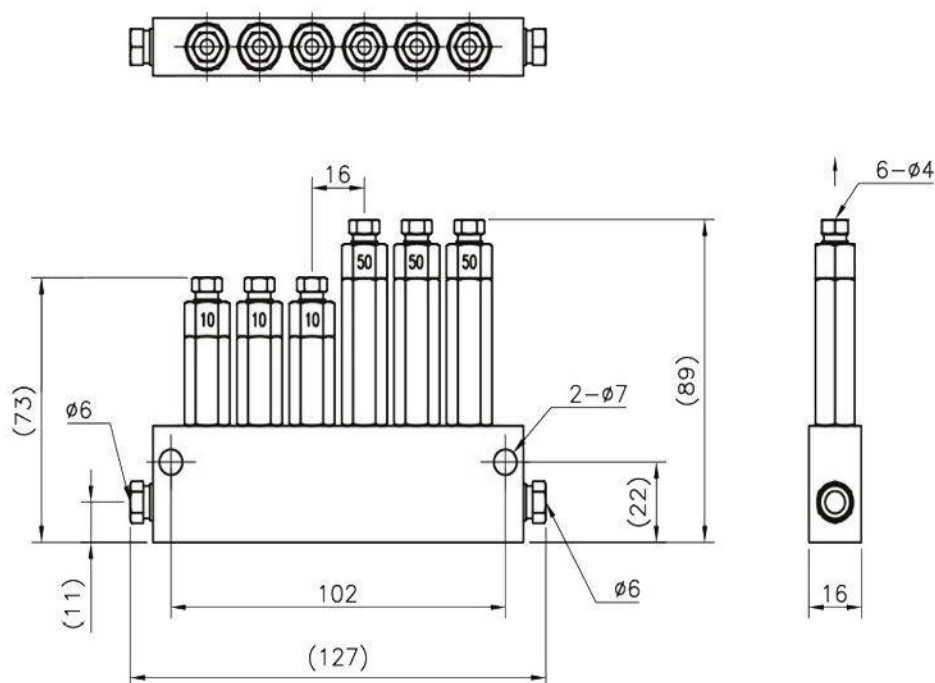
**ISHAW**  
LUBRICATION SYSTEM



# ISH DMV-0400 SM DMV-0400

## GREASE PISTON DISTRIBUTORS







# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DMV-0500 SM DMV-0500

## GREASE PISTON DISTRIBUTORS





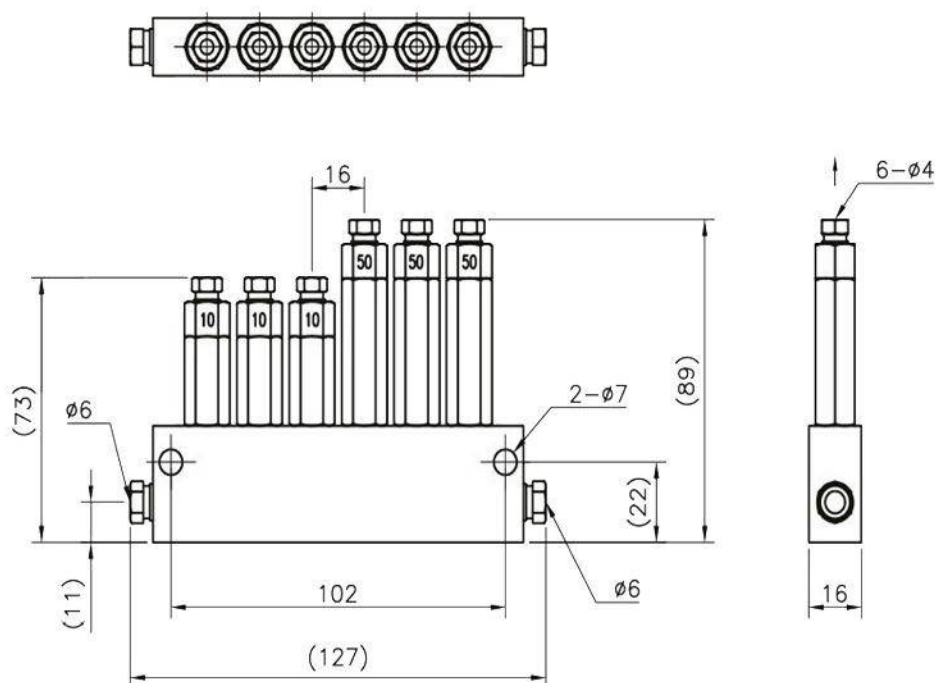
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**ISHAW**  
LUBRICATION SYSTEM





# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.

# ISH DMV-0600 SM DMV-0600

## GREASE PISTON DISTRIBUTORS



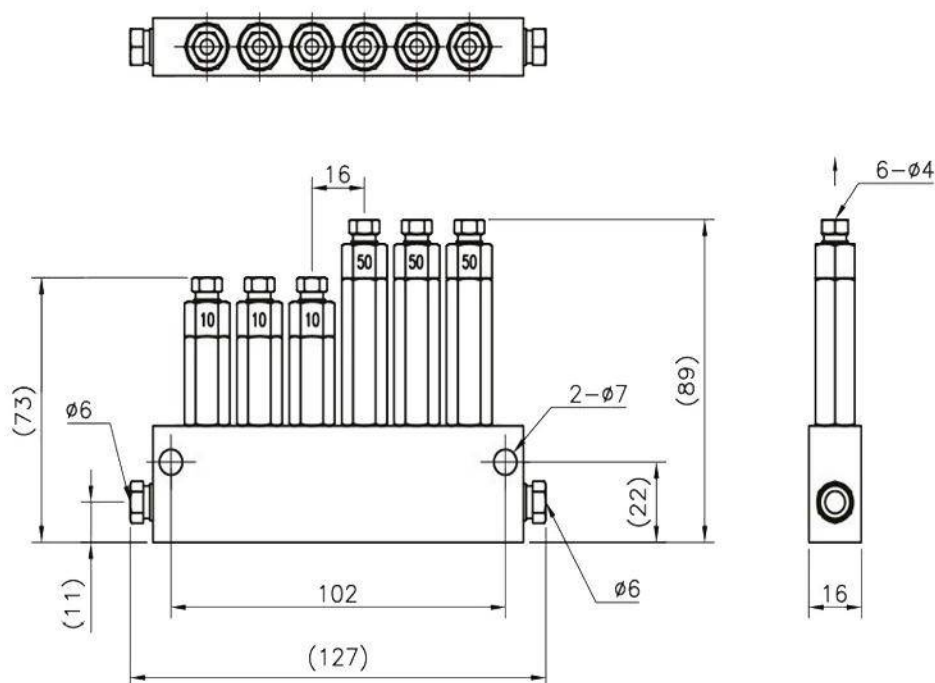
**SMUS**

**ISHAW**  
LUBRICATION SYSTEM

伊山精密工業股份有限公司  
ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM





# Characteristics & Dimensions

## DMV SERIES

| MODEL    | NUMBER OF<br>OUTLETS | A      | B      | METERED<br>VOLUME<br>(c.c./stroke) |
|----------|----------------------|--------|--------|------------------------------------|
| DMV-0100 | 1                    | 33.00  | 22.00  | 0.03                               |
| DMV-0200 | 2                    | 49.00  | 38.00  | 0.05                               |
| DMV-0300 | 3                    | 65.00  | 54.00  | 0.10                               |
| DMV-0400 | 4                    | 81.00  | 70.00  | 0.20                               |
| DMV-0500 | 5                    | 97.00  | 86.00  | 0.30                               |
| DMV-0600 | 6                    | 113.00 | 102.00 | 0.50                               |

\*\*\* Meteret volume is determined by c.c./stroke.  
 \*\*\*\* All dimensions are given in millimeters.





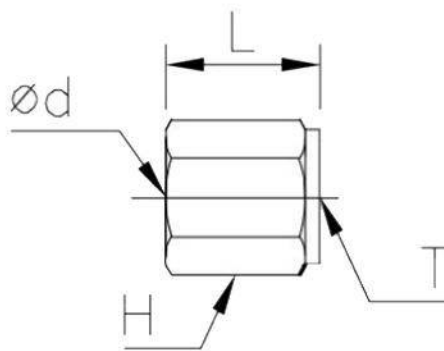
# ISH DP SERIES SM DP SERIES

## COMPRESSION NUT

**ISH DP**  
**SM DP**

## COMPRESION NUT







## Characteristics & Dimensions

| MODEL | OUTPUT<br>BORE | Ød   | D     | L         | H     | WEIGHT (gr) |
|-------|----------------|------|-------|-----------|-------|-------------|
| DP04  | Ø4             | 4.05 | 13.00 | M8 x 1.00 | 10.00 | 3.00        |

\*\*\*\* All dimensions are given in millimeters.



# ISH DPB SERIES SM DPB SERIES

## IN-LINE FLOW PRESSURE DISTRIBUTORS



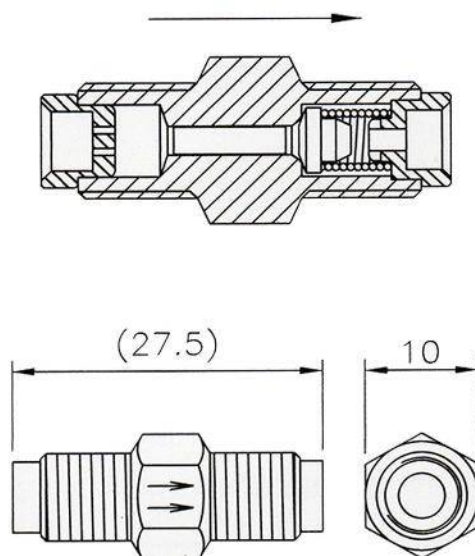
# ISH DPB SERIES SM DPB SERIES

## PROPORTIONAL DEVICES

*Input: M8 x 1.0*

*Output: M8 x 1.0*







# Characteristics & Dimensions

## ISH DPB SERIES

INPUT DIAMETER

OUTPUT DIAMETER

M8 x 1.0

M8 x 1.0

Model

Oil Flow Rate

ISH DPB-1

1.00

ISH DPB-2

2.00

ISH DPB-3

3.00

ISH DPB-4

4.00

ISH DPB-5

5.00

Working Pressure

0.20 ~ 2.00 Mpa (2.00 ~ 20.00 Kgf/cm<sup>2</sup>)

Oil Viscosity

20.00 ~ 500.00 cSt.

Total Length

25.50

Total Width

10.00

Total Device Weight

11.00 gr.

\*\*\* The flow should be multiplied by the serial number sequence.

\*\*\* More models available for selection, please ask.

\*\*\*\* All dimensions are given in millimeters.



# ISH DPS SERIES SM DPS SERIES

## PROPORTIONAL DEVICES

# ISH DPS SERIES SM DPS SERIES

## PROPORTIONAL DEVICES

*Input: M8 x 1.0  
Output: 1/8 PT*





# Characteristics & Dimensions

## ISH DPS SERIES

INPUT DIAMETER

OUTPUT DIAMETER

M8 x 1.0

1/8 PT

Model

Oil Flow Rate

ISH DPS-1

1.00

ISH DPS-2

2.00

ISH DPS-3

3.00

ISH DPS-4

4.00

ISH DPS-5

5.00

Working Pressure

0.20 ~ 2.00 Mpa (2.00 ~ 20.00 Kgf/cm<sup>2</sup>)

Oil Viscosity

20.00 ~ 500.00 cSt.

Total Length

25.50

Total Width

10.00

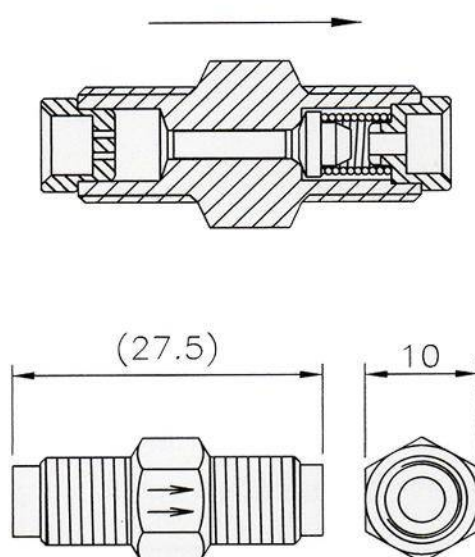
Total Device Weight

11.00 gr.

\*\*\* The flow should be multiplied by the serial number sequence.

\*\*\* More models available for selection, please ask.

\*\*\*\*\* All dimensions are given in millimeters.





# ISH DPT SERIES SM DPT SERIES

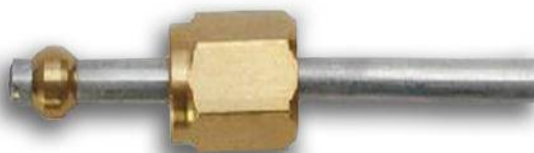
## PROPORTIONAL DEVICES

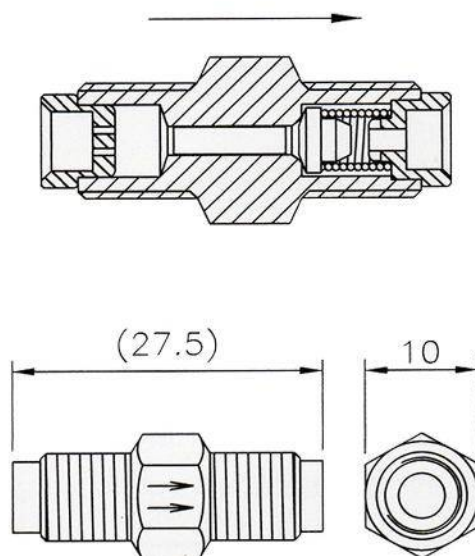
# ISH DPT SERIES SM DPT SERIES

## PROPORTIONAL DEVICES

INPUT: M8 x 1.0

OUTPUT: 1/8 PT







## Characteristics & Dimensions

### ISH DPT SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| M8 x 1.0            | 1/8 PT                                    |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DPT-1           | 1                                         |
| ISH DPT-2           | 2                                         |
| ISH DPT-3           | 3                                         |
| ISH DPT-4           | 4                                         |
| ISH DPT-5           | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



# ISH DPV SERIES SM DPV SERIES

## PROPORTIONAL DEVICES

# ISH DPV SERIES SM DPV SERIES

## PROPORTIONAL DEVICES

INPUT: M8 x 1.0

OUTPUT: M8 x 1.0





## Characteristics & Dimensions

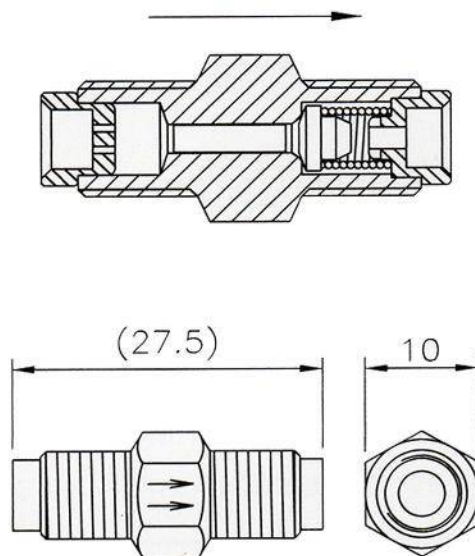
### ISH DPV SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| M8 x 1.0            | M8 x 1.0                                  |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DPV-1           | 1                                         |
| ISH DPV-2           | 2                                         |
| ISH DPV-3           | 3                                         |
| ISH DPV-4           | 4                                         |
| ISH DPV-5           | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.







# ISH DSM SERIES

## SM DSM SERIES

# PROPORTIONAL DEVICES

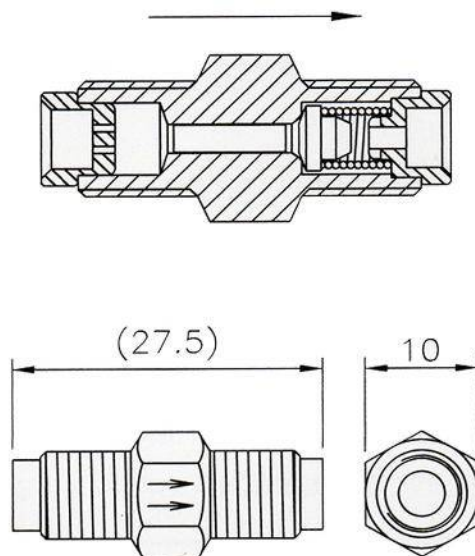
# ISH DSM SERIES SM DSM SERIES

## PROPORTIONAL DEVICES

INPUT: M8 x 1.0

OUTPUT: M8 x 1.0







## Characteristics & Dimensions

### ISH DSM SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| 5/16 - 24           | 5/16 - 24                                 |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DSM-000         | 000                                       |
| ISH DSM-00          | 00                                        |
| ISH DSM-0           | 0                                         |
| ISH DSM-1           | 1                                         |
| ISH DSM-2           | 2                                         |
| ISH DSM-3           | 3                                         |
| ISH DSM-4           | 4                                         |
| ISH DSM-5           | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



# ISH DSM-M SERIES SM DSM-M SERIES

## PROPORTIONAL DEVICES



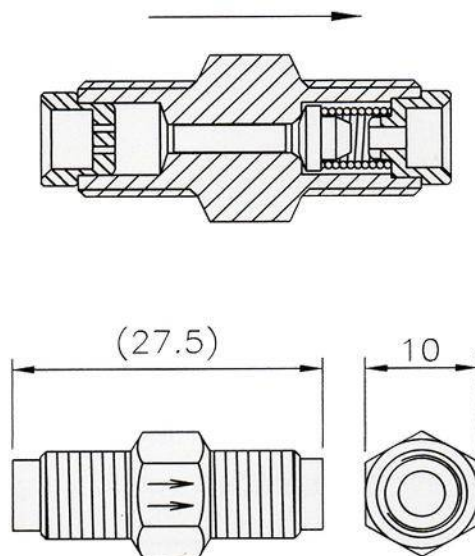
# ISH DSM-M SERIES SM DSM-M SERIES

## PROPORTIONAL DEVICES

INPUT: M8 x 1.0

OUTPUT: M8 x 1.0





# Characteristics & Dimensions

## ISH DSM-M SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| M8 x 1.0            | M8 x 1.0                                  |
| MODEL               | LUBRICANT FLOW RATE                       |
|                     | 000                                       |
| ISH DSM-00M         | 00                                        |
| ISH DSM-0M          | 0                                         |
| ISH DSM-1M          | 1                                         |
| ISH DSM-2M          | 2                                         |
| ISH DSM-3M          | 3                                         |
| ISH DSM-4M          | 4                                         |
| ISH DSM-5M          | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



# ISH DSS SERIES SM DSS SERIES

IN-LINE  
PRESSURE  
FLOW  
DISTRIBUTORS

# ISH DSS SERIES

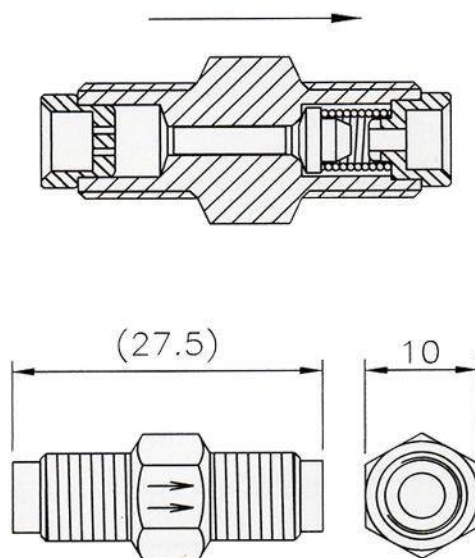
## PROPORTIONAL DEVICES

*INPUT: M8 x 1.0*

*OUTPUT: M8 x 1.0*







# Characteristics & Dimensions

## ISH DSS SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| M8 x 1.0            | M8 x 1.0                                  |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DSS-1           | 1                                         |
| ISH DSS-2           | 2                                         |
| ISH DSS-3           | 3                                         |
| ISH DSS-4           | 4                                         |
| ISH DSS-5           | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



# ISH DST SERIES SM DST SERIES

## IN-LINE FLOW PRESSURE DISTRIBUTORS

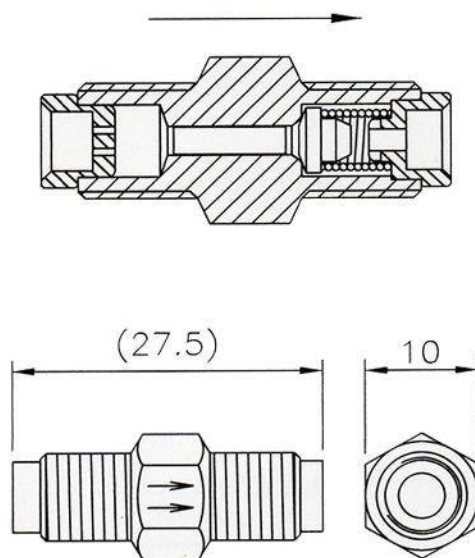
# ISH DST SERIES

## PROPORTIONAL DEVICES

*INPUT: M8 x 1.0*

*OUTPUT: 1/8 PT*







# Characteristics & Dimensions

## ISH DST SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| M8 x 1.0            | 1/8 PT                                    |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DST-1           | 1                                         |
| ISH DST-2           | 2                                         |
| ISH DST-3           | 3                                         |
| ISH DST-4           | 4                                         |
| ISH DST-5           | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



# ISH DT SERIES

## SM DT SERIES

# PROPORTIONAL DEVICES

# ISH DT-0200 SM DT-0200

## PISTON DISTRIBUTORS





## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

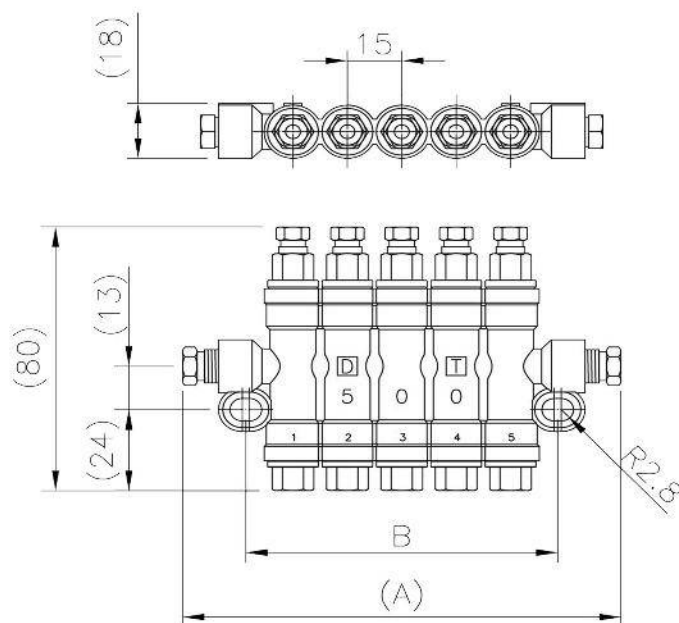
\*\*\* All dimensions are given in millimeters.



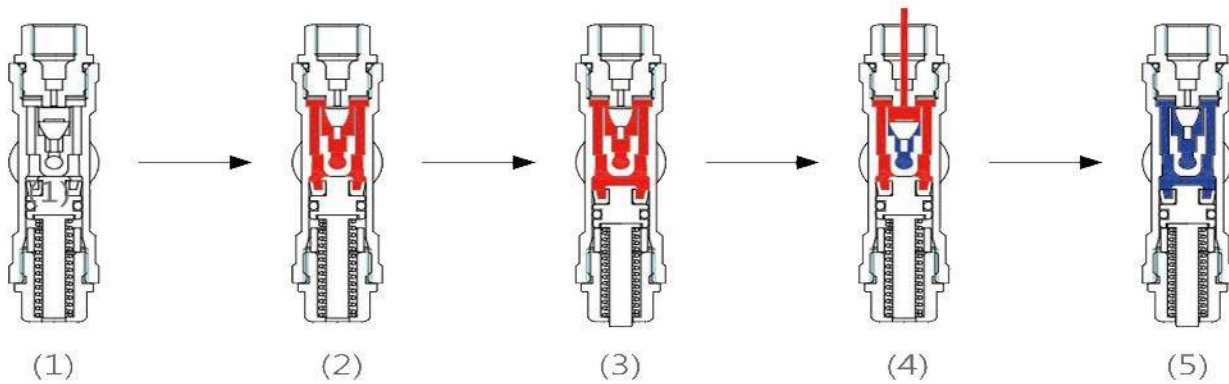
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LUBRICATION SYSTEM ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM







- (1) Before pressurizing
- (2) Under pressurizing
- (3) The lubricant is stored
- (4) The lubricant is discharging
- (5) Ready for next lubrication cycle

They distribute and meter the lubricant fed by an intermittently operated centralized lubrication pump unit in single-line centralized lubrication systems. Exchangeable metering blocks on the distributors make it possible to supply every lube point with the requisite amount of oil per stroke or lubrication cycle. The metered quantity is shown on the individual piston distributor.

#### DT SERIES ELEMENTS OPERATION

1. Before the lubricant is fed to relubrication distributor.
2. The pressure built up in the centralized lubrication system causes the collar to close the outlet to the lubrication point.
3. The lubricant is stored completely as the loaded spring piston moves to the bottom.
4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the spring loaded piston pushes the collar back toward the main line. This closes the main line and opens the outlet to the lubrication point. The lubricant discharges.
5. After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle.

# ISH DT-0300 SM DT-0300

## PISTON DISTRIBUTORS





## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.

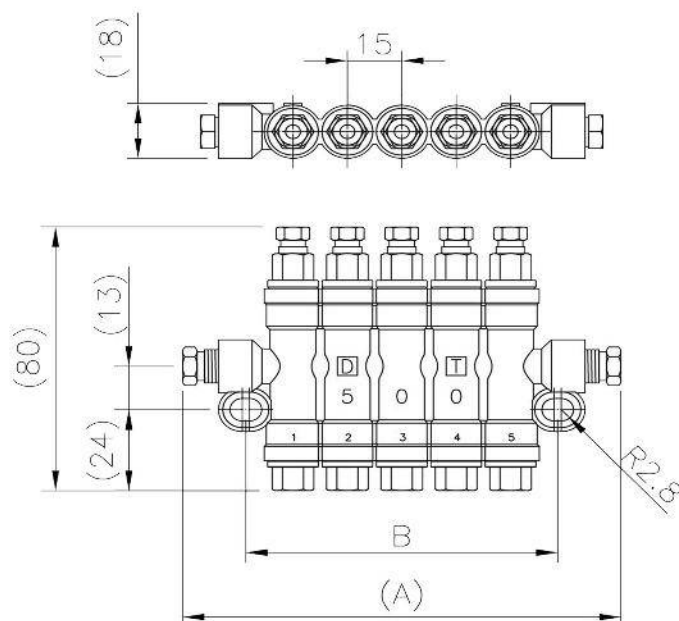


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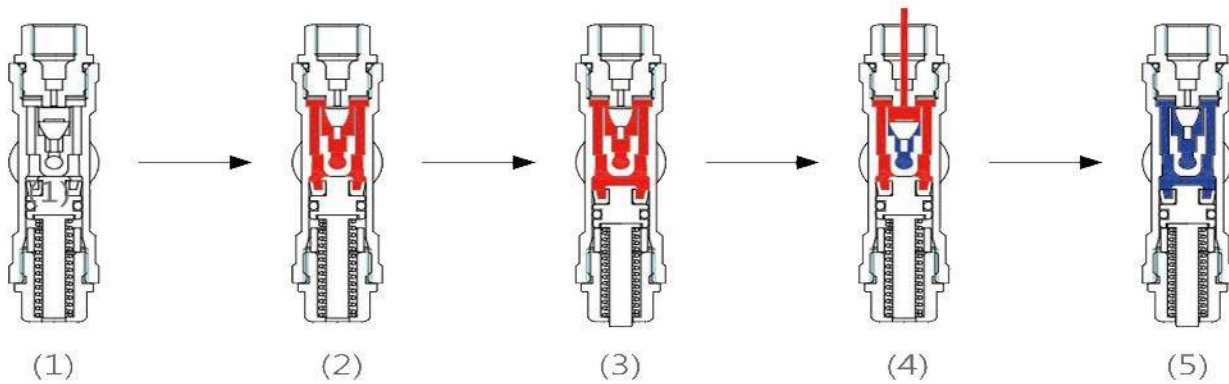
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ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM







- (1) Before pressurizing
- (2) Under pressurizing
- (3) The lubricant is stored
- (4) The lubricant is discharging
- (5) Ready for next lubrication cycle

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4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the spring loaded piston pushes the collar back toward the main line. This closes the main line and opens the outlet to the lubrication point. The lubricant discharges.
5. After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle.



# ISH DT-0400 SM DT-0400

## PISTON DISTRIBUTORS





## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.

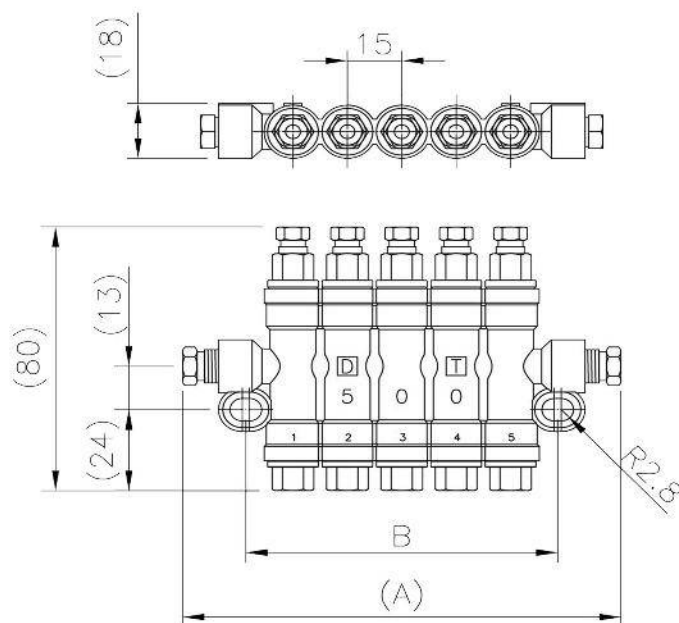


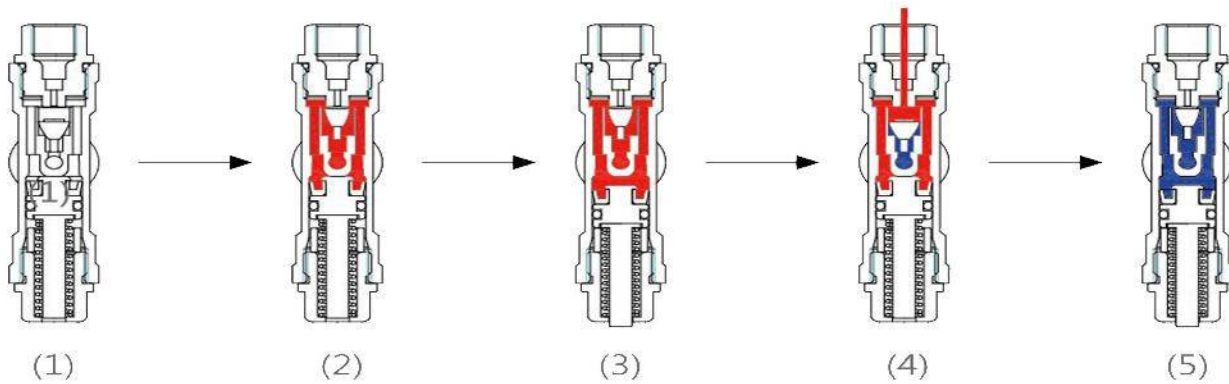
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**ISHAW**  
LUBRICATION SYSTEM





- (1) Before pressurizing
- (2) Under pressurizing
- (3) The lubricant is stored
- (4) The lubricant is discharging
- (5) Ready for next lubrication cycle

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5. After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle.



# ISH DT-0500 SM DT-0500

## PISTON DISTRIBUTORS







## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.

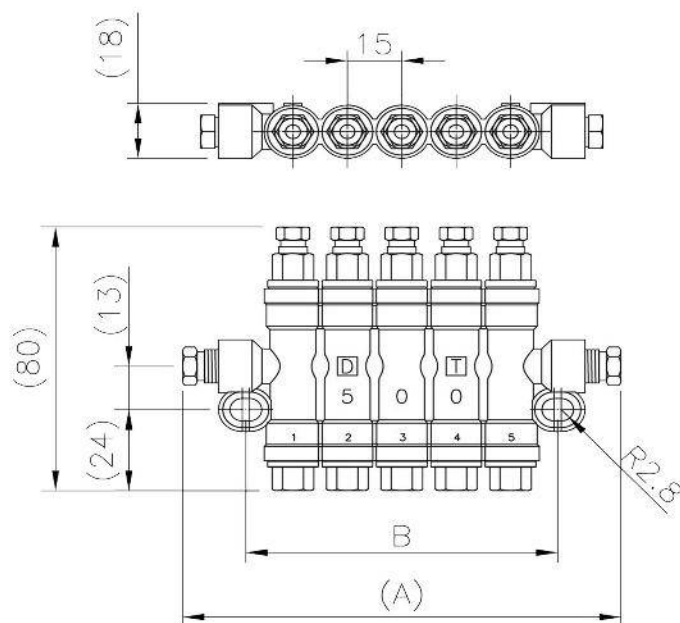


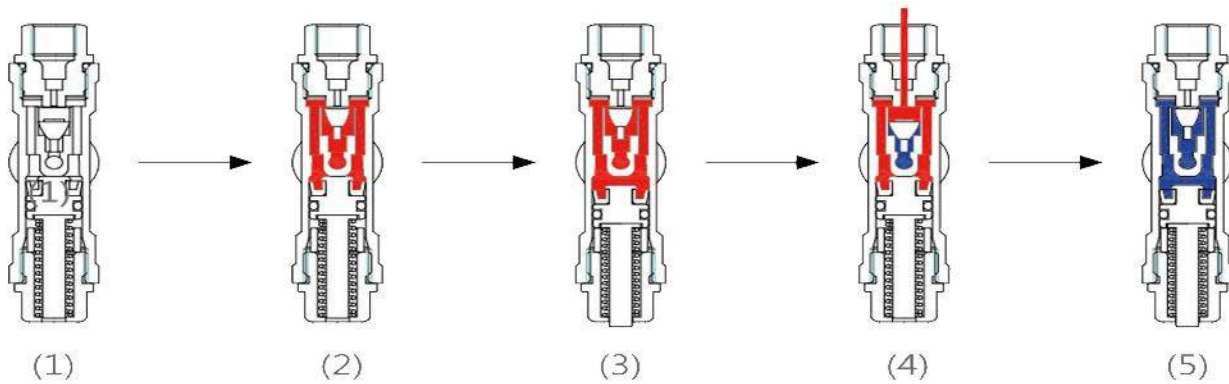
**ISHAW**  
LUBRICATION SYSTEM

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ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM





- (1) Before pressurizing
- (2) Under pressurizing
- (3) The lubricant is stored
- (4) The lubricant is discharging
- (5) Ready for next lubrication cycle

They distribute and meter the lubricant fed by an intermittently operated centralized lubrication pump unit in single-line centralized lubrication systems. Exchangeable metering blocks on the distributors make it possible to supply every lube point with the requisite amount of oil per stroke or lubrication cycle. The metered quantity is shown on the individual piston distributor.

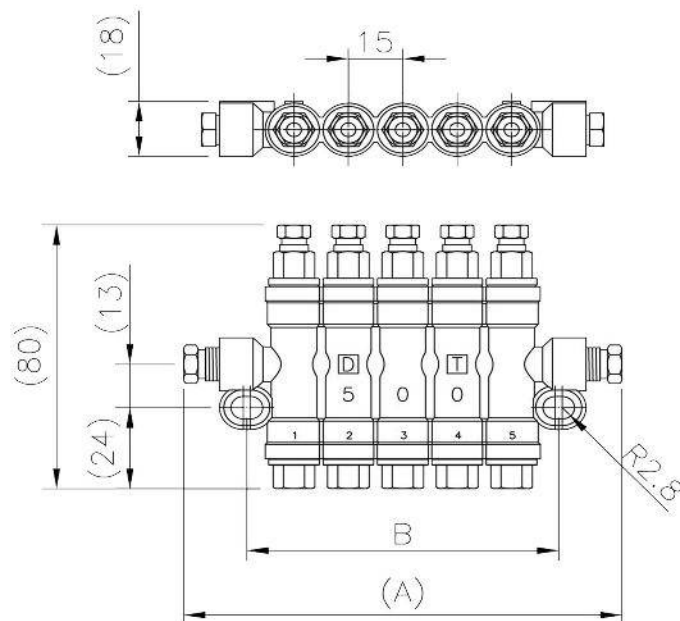
#### DT SERIES ELEMENTS OPERATION

1. Before the lubricant is fed to relubrication distributor.
2. The pressure built up in the centralized lubrication system causes the collar to close the outlet to the lubrication point.
3. The lubricant is stored completely as the loaded spring piston moves to the bottom.
4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the spring loaded piston pushes the collar back toward the main line. This closes the main line and opens the outlet to the lubrication point. The lubricant discharges.
5. After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle.

# ISH DT-0600 SM DT-0600

## PISTON DISTRIBUTORS







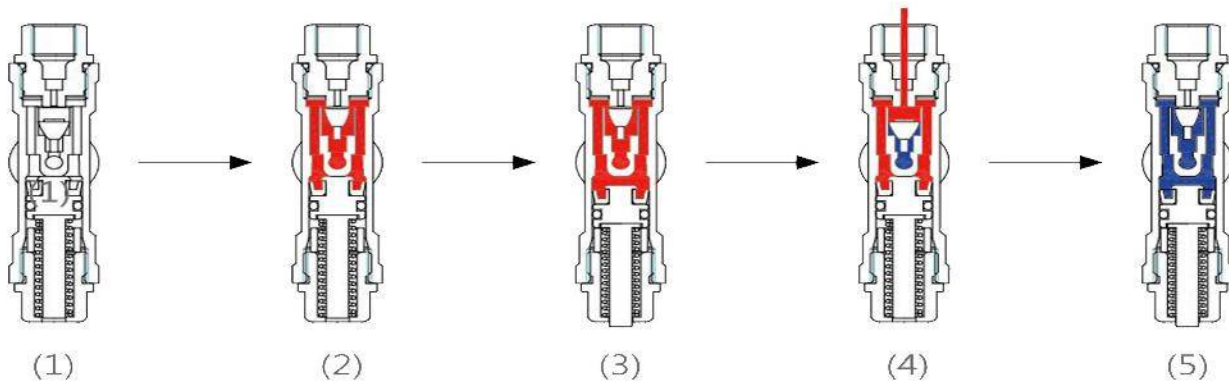


## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.



- (1) Before pressurizing
- (2) Under pressurizing
- (3) The lubricant is stored
- (4) The lubricant is discharging
- (5) Ready for next lubrication cycle

They distribute and meter the lubricant fed by an intermittently operated centralized lubrication pump unit in single-line centralized lubrication systems. Exchangeable metering blocks on the distributors make it possible to supply every lube point with the requisite amount of oil per stroke or lubrication cycle. The metered quantity is shown on the individual piston distributor.

#### DT SERIES ELEMENTS OPERATION

1. Before the lubricant is fed to relubrication distributor.
2. The pressure built up in the centralized lubrication system causes the collar to close the outlet to the lubrication point.
3. The lubricant is stored completely as the loaded spring piston moves to the bottom.
4. When the pump is switched off, the pressure is relieved and the lubricant under preload below the spring loaded piston pushes the collar back toward the main line. This closes the main line and opens the outlet to the lubrication point. The lubricant discharges.
5. After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle.



# ISH DTM SERIES SM DTM SERIES

## PROPORTIONAL DEVICES

# ISH DTM SERIES SM DTM SERIES

## PROPORTIONAL DEVICES

INPUT: 1/8 NPT x 1.0

OUTPUT: 1/8 NPT x 1.0





## Characteristics & Dimensions

### ISH DTM SERIES

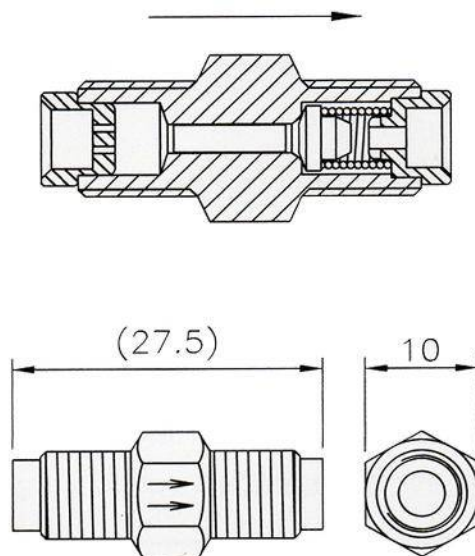
| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| NPT 1/8             | NPT 1/8                                   |
| MODEL               | LUBRICANT FLOW RATE                       |
| ISH DTM-3/0         | 000                                       |
| ISH DTM-00          | 00                                        |
| ISH DTM-0           | 0                                         |
| ISH DTM-1           | 1                                         |
| ISH DTM-2           | 2                                         |
| ISH DTM-3           | 3                                         |
| ISH DTM-4           | 4                                         |
| ISH DTM-5           | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.







# ISH DTM-M SERIES SM DTM-M SERIES

## PROPORTIONAL DEVICES

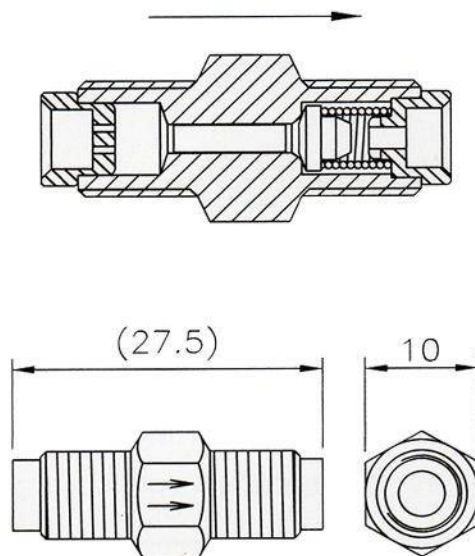
# ISH DTM-M SERIES SM DTM-M SERIES

## PROPORTIONAL DEVICES

INPUT: 1/8 PT x 1.0

OUTPUT: 1/8 PT x 1.0





# Characteristics & Dimensions

## ISH DTM-M SERIES

| INPUT DIAMETER      | OUTPUT DIAMETER                           |
|---------------------|-------------------------------------------|
| PT 1/8              | PT 1/8                                    |
| MODEL               | LUBRICANT FLOW RATE                       |
|                     | 000                                       |
| ISH DTM-00M         | 00                                        |
| ISH DTM-0M          | 0                                         |
| ISH DTM 1M          | 1                                         |
| ISH DTM 2M          | 2                                         |
| ISH DTM 3M          | 3                                         |
| ISH DTM 4M          | 4                                         |
| ISH DTM 5M          | 5                                         |
| Working Pressure    | 0.2 ~ 2 Mpa (2 ~ 20 Kgf/cm <sup>2</sup> ) |
| Oil Viscosity       | 20 ~ 500 cSt.                             |
| Total Length        | 25.5                                      |
| Total Width         | 10                                        |
| Device Total Weight | 11 gr.                                    |

\*\* The flow must be multiplied by the serial number sequence.

\*\*\* More DSM models are available. Please send your inquiry.

\*\*\*\* All dimensions are given in millimeters.



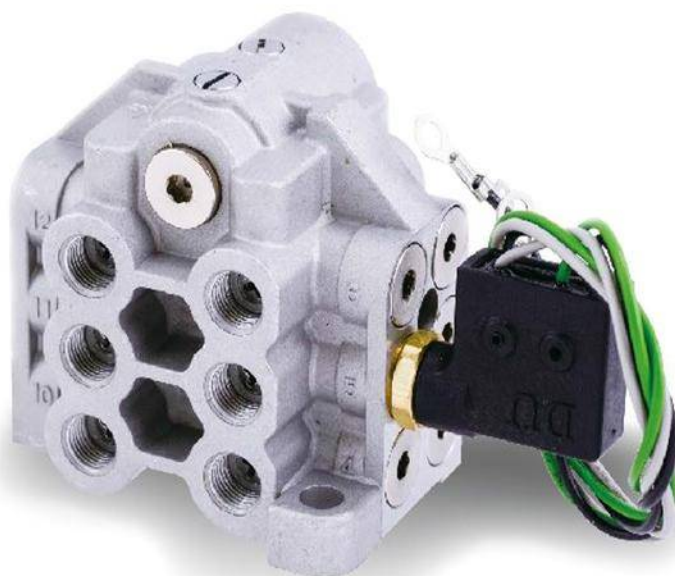


# ISH DU SERIES SM DU SERIES

**PROGRESSIVE GREASE  
DISTRIBUTORS**  
(WITH/WITHOUT  
DETECTION SWITCH)

# ISH DU-4P SM DU-4P

## PROGRESSIUE GREASE DISTRIBUTORS (WITH DETECTION SWITCH)





## Characteristics & Dimensions

### DU-P SERIES

| MODEL   | DETECTION SWITCH | NUMBER OF OUTLETS | METERED VOLUME | MAXIMUM OUTPUT PRESSURE | WEIGHT (Gr.) |
|---------|------------------|-------------------|----------------|-------------------------|--------------|
| DG-0200 | INCLUDED         | 4                 | 0.33           | 15.00<br>(150.00)       | 350.00       |
| DG-0300 | INCLUDED         | 6                 |                |                         | 350.00       |
| DG-0400 | INCLUDED         | 8                 |                |                         | 320.00       |
| DG-0500 | INCLUDED         | 10                |                |                         | 440.00       |
| DG-0600 | INCLUDED         | 12                |                |                         | 440.00       |

\*\* Metered volume is determined by c.c./stroke.  
 \*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\* All dimensions are given in millimeters.

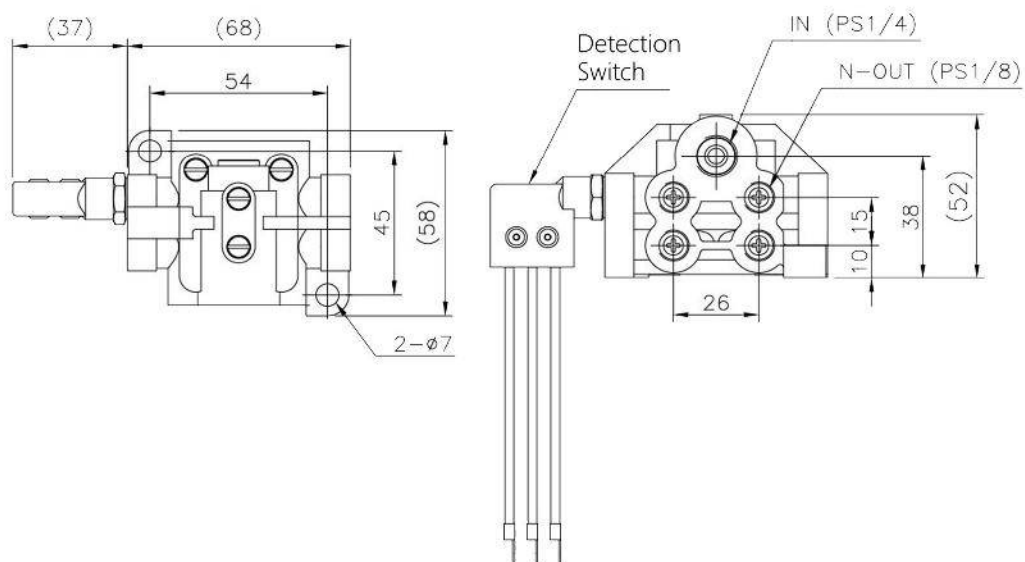
**SMUS**

**ISHAW**  
LUBRICATION SYSTEM

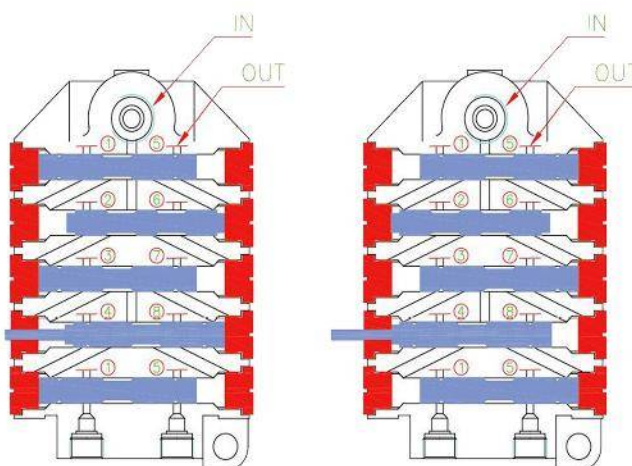
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**ISHAW**  
LUBRICATION SYSTEM







## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition



# ISH DU-4T SM DU-4T

## PROGRESSIVE GREASE DISTRIBUTORS





## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.

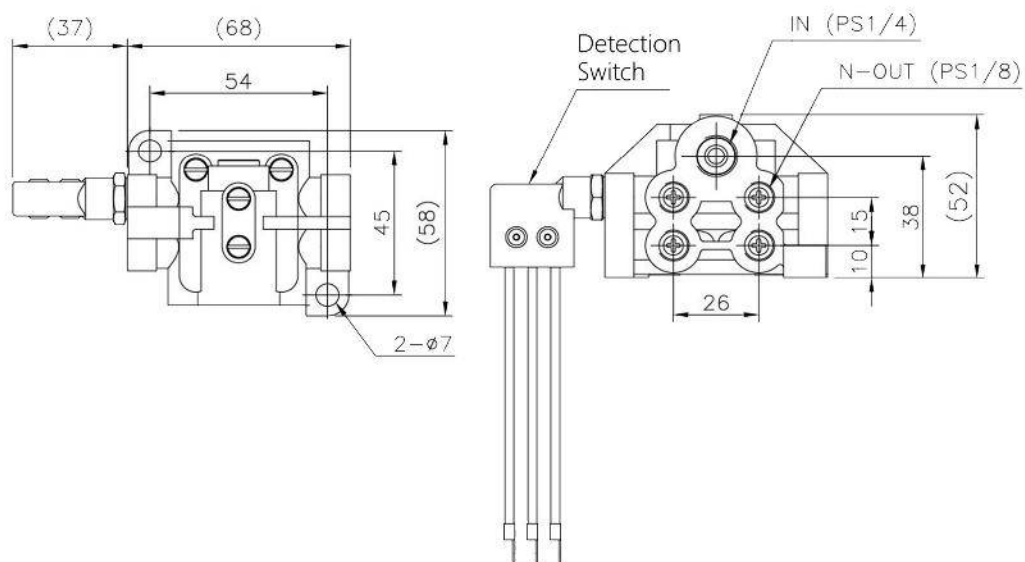
**SMUS**

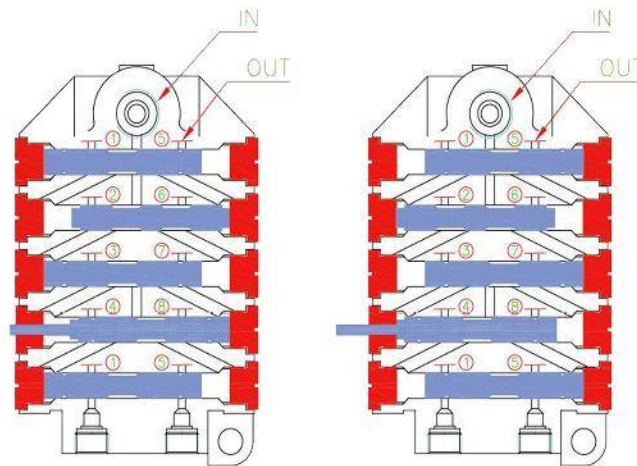
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LUBRICATION SYSTEM





## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition



# ISH DU-6P SM DU-6P

## PROGRESSIUE GREASE DISTRIBUTORS *(WITH DETECTION SWITCH)*





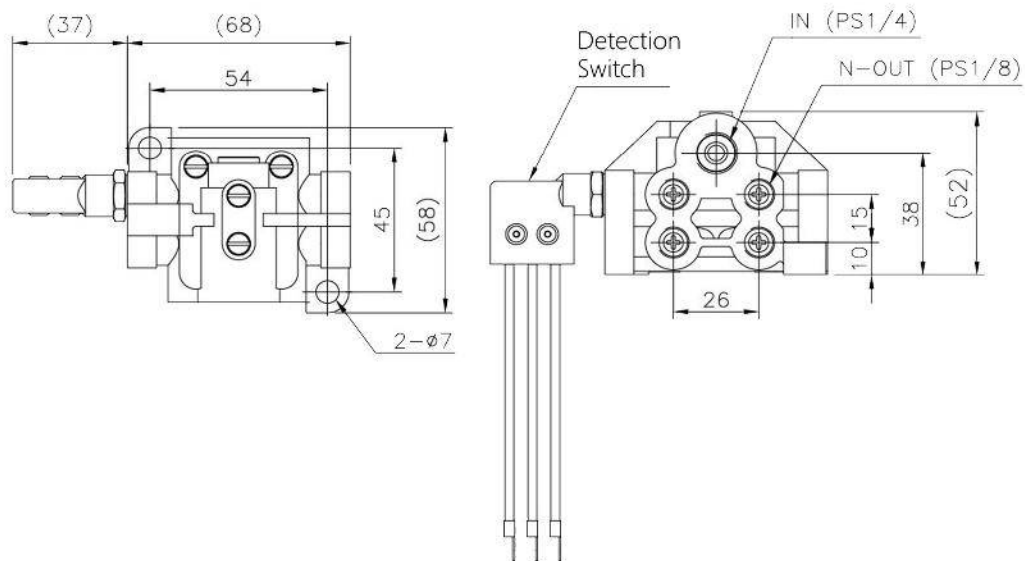


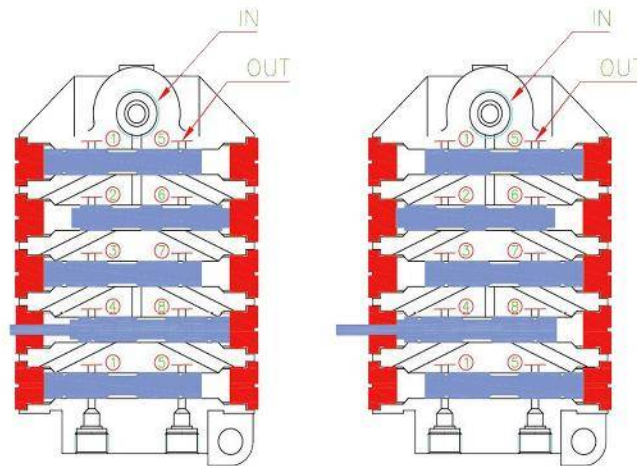
## Characteristics & Dimensions

### DU-P SERIES

| MODEL   | DETECTION SWITCH | NUMBER OF OUTLETS | METERED VOLUME | MAXIMUM OUTPUT PRESSURE | WEIGHT (Gr.) |
|---------|------------------|-------------------|----------------|-------------------------|--------------|
| DG-0200 | INCLUDED         | 4                 | 0.33           | 15.00<br>(150.00)       | 350.00       |
| DG-0300 | INCLUDED         | 6                 |                |                         | 350.00       |
| DG-0400 | INCLUDED         | 8                 |                |                         | 320.00       |
| DG-0500 | INCLUDED         | 10                |                |                         | 440.00       |
| DG-0600 | INCLUDED         | 12                |                |                         | 440.00       |

\*\* Metered volume is determined by c.c./stroke.  
 \*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\* All dimensions are given in millimeters.





## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition

# ISH DU-6T SM DU-6T

## PROGRESSIVE GREASE DISTRIBUTORS







## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.



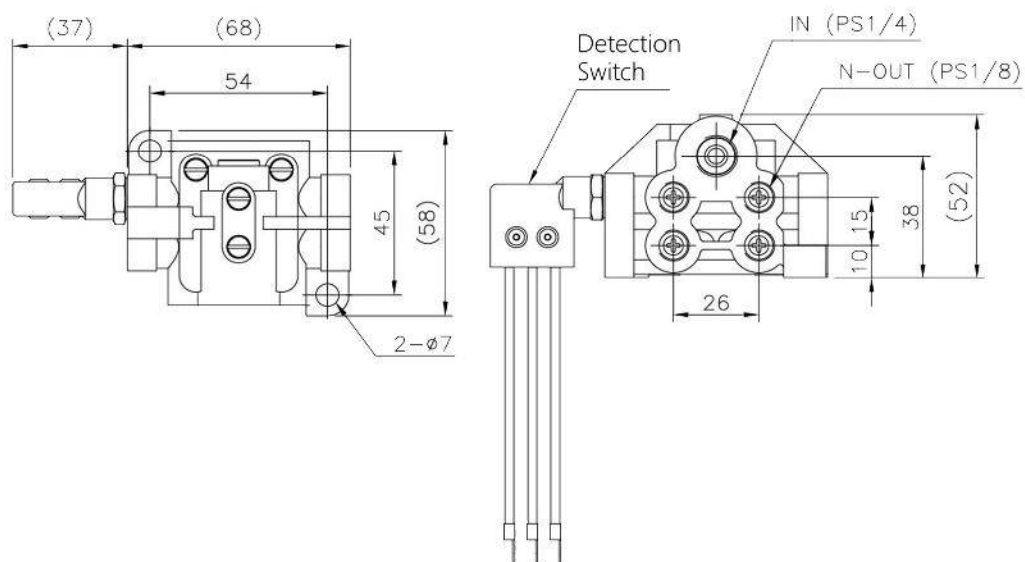
**SMUS**

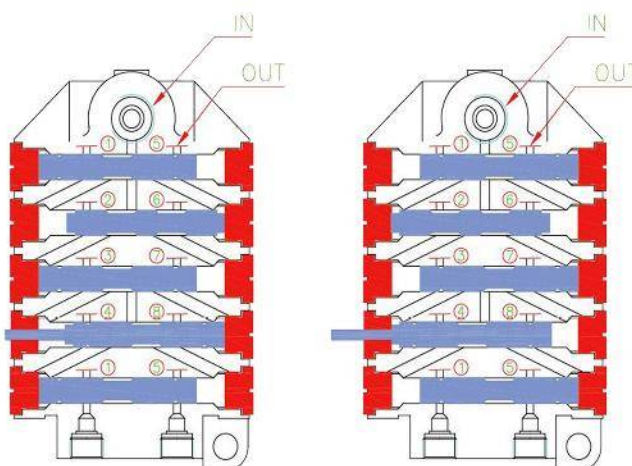
**ISHAW**  
LUBRICATION SYSTEM

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**ISHAW**  
LUBRICATION SYSTEM





## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

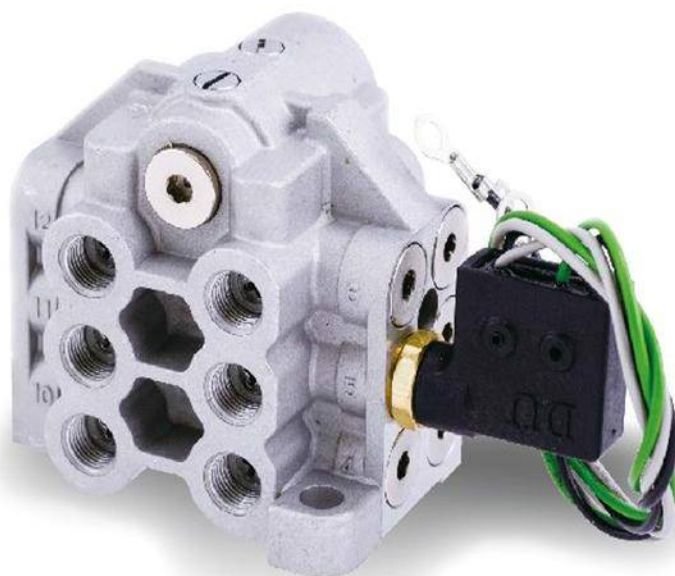
The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition

# ISH DU-8P SM DU-8P

## PROGRESSIUE GREASE DISTRIBUTORS *(WITH DETECTION SWITCH)*



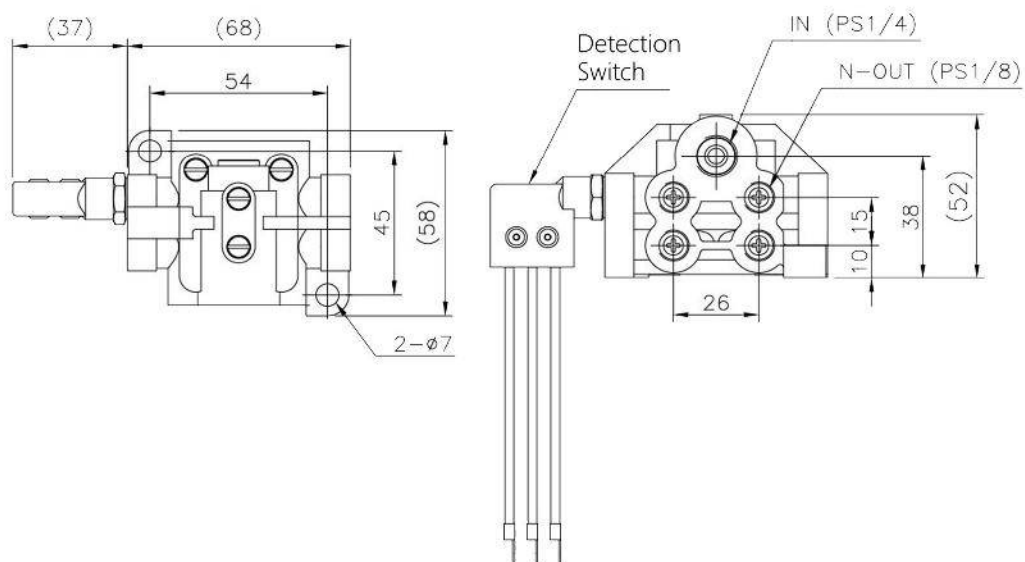
**SMUS**

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**ISHAW**  
LUBRICATION SYSTEM







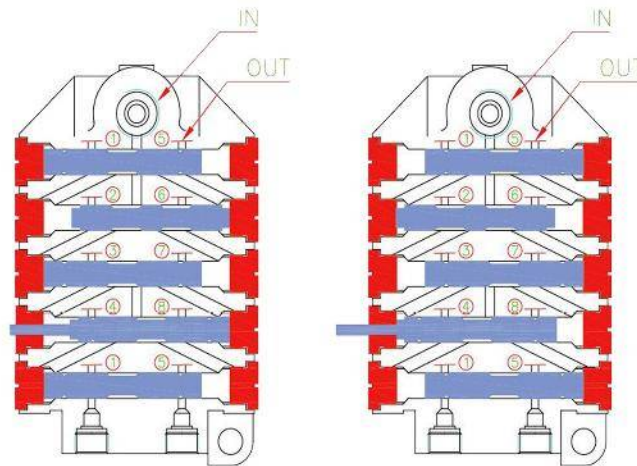
# Characteristics & Dimensions

## DU-P SERIES

| MODEL   | DETECTION SWITCH | NUMBER OF OUTLETS | METERED VOLUME | MAXIMUM OUTPUT PRESSURE | WEIGHT (Gr.) |
|---------|------------------|-------------------|----------------|-------------------------|--------------|
| DG-0200 | INCLUDED         | 4                 | 0.33           | 15.00<br>(150.00)       | 350.00       |
| DG-0300 | INCLUDED         | 6                 |                |                         | 350.00       |
| DG-0400 | INCLUDED         | 8                 |                |                         | 320.00       |
| DG-0500 | INCLUDED         | 10                |                |                         | 440.00       |
| DG-0600 | INCLUDED         | 12                |                |                         | 440.00       |

\*\* Metered volume is determine by c.c./stroke.  
 \*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\* All dimensions are given in millimeters.





## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition

# ISH DU-8T SM DU-8T

## PROGRESSIVE GREASE DISTRIBUTORS





## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.

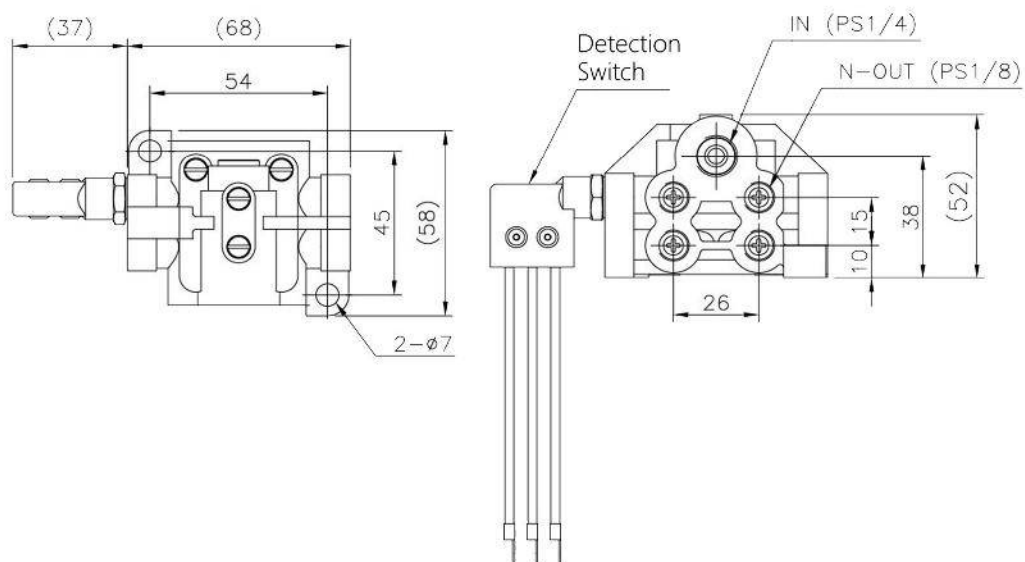
**SMUS**

**ISHAW**  
LUBRICATION SYSTEM

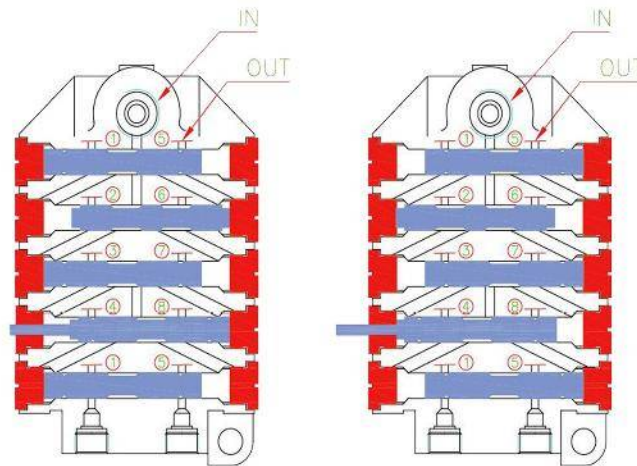
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ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM







## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

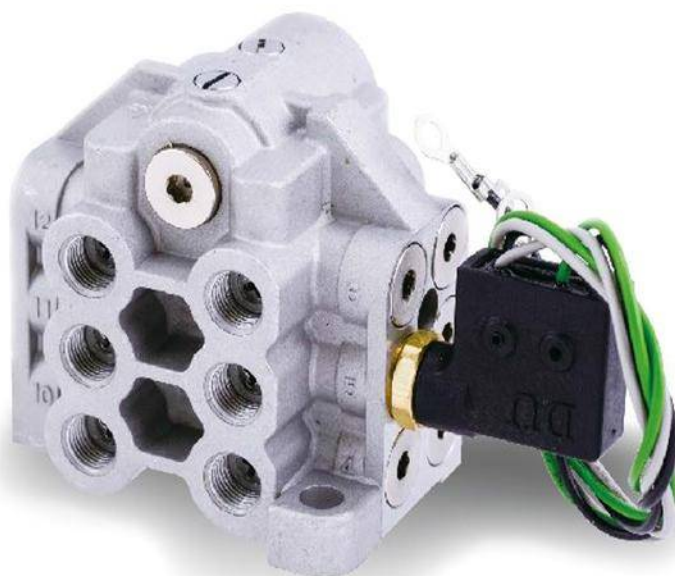
The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

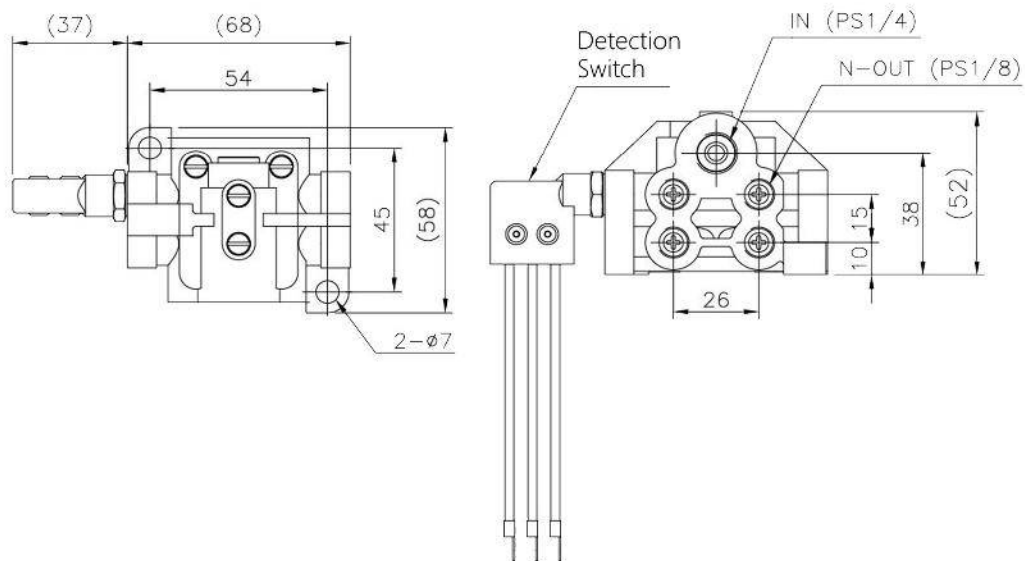
**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition



# ISH DU-10P SM DU-10P

## PROGRESSIUE GREASE DISTRIBUTORS (WITH DETECTION SWITCH)





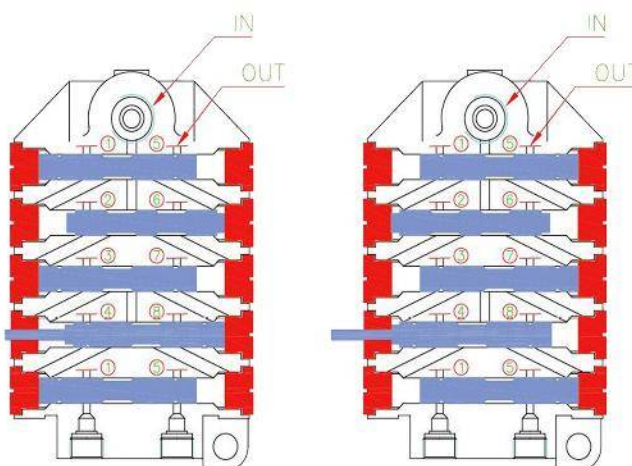


# Characteristics & Dimensions

## DU-P SERIES

| MODEL   | DETECTION SWITCH | NUMBER OF OUTLETS | METERED VOLUME | MAXIMUM OUTPUT PRESSURE | WEIGHT (Gr.) |
|---------|------------------|-------------------|----------------|-------------------------|--------------|
| DG-0200 | INCLUDED         | 4                 | 0.33           | 15.00<br>(150.00)       | 350.00       |
| DG-0300 | INCLUDED         | 6                 |                |                         | 350.00       |
| DG-0400 | INCLUDED         | 8                 |                |                         | 320.00       |
| DG-0500 | INCLUDED         | 10                |                |                         | 440.00       |
| DG-0600 | INCLUDED         | 12                |                |                         | 440.00       |

\*\* Metered volume is determine by c.c./stroke.  
 \*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\* All dimensions are given in millimeters.



## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3-7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 piston hole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram 2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition



# ISH DU-10T SM DU-10T

## PROGRESSIVE GREASE DISTRIBUTORS







## Characteristics & Dimensions

### DT SERIES

| MODEL   | NUMBER OF OULETS | A      | B              | METERED VOLUME (c.c.) |
|---------|------------------|--------|----------------|-----------------------|
| DT-0200 | 2                | 75.00  | 39.00 ~ 43.00  | 0.10                  |
| DT-0300 | 3                | 90.00  | 54.00 ~ 58.00  | 0.16                  |
| DT-0400 | 4                | 105.00 | 69.00 ~ 73.00  | 0.20                  |
| DT-0500 | 5                | 126.00 | 84.00 ~ 88.00  | 0.30                  |
| DT-0600 | 6                | 135.00 | 99.00 ~ 103.00 | 0.40                  |
|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.

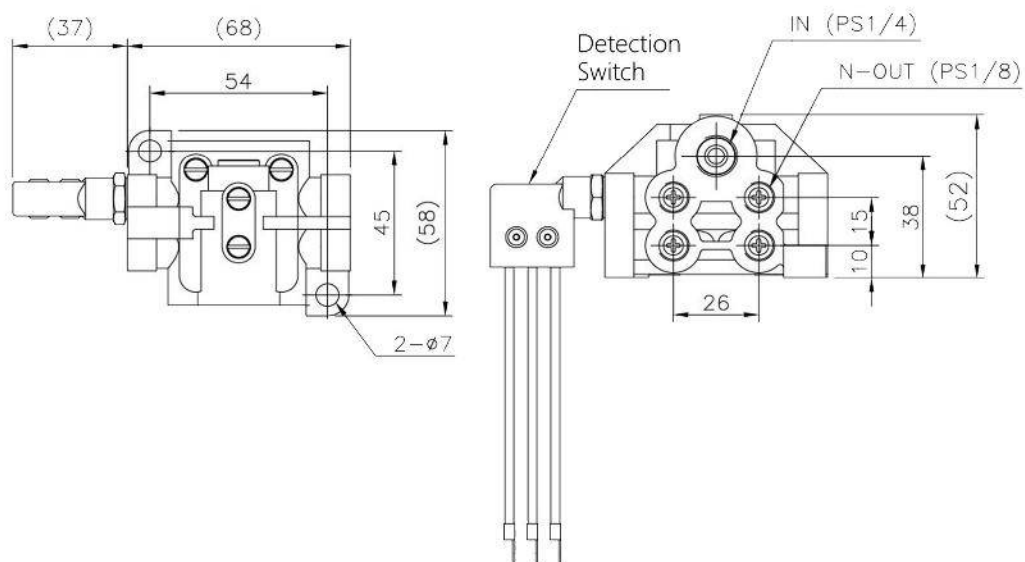
**SMUS**

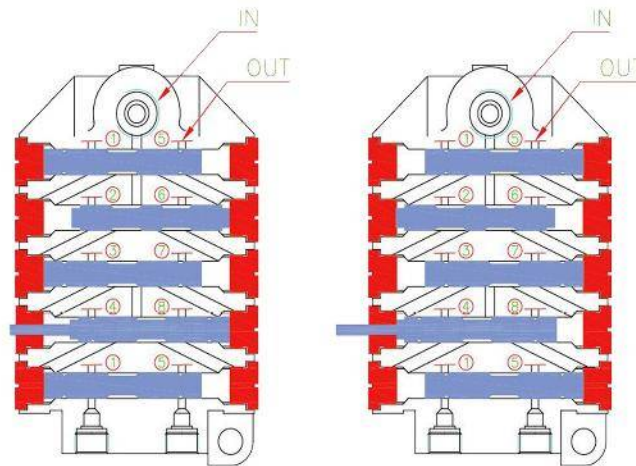
**ISHAW**  
LUBRICATION SYSTEM

伊山精密工業股份有限公司  
ISHAN PRECISION INDUSTRY, CO., LTD



**ISHAW**  
LUBRICATION SYSTEM





## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition

# ISH DU-12P SM DU-12P

## PROGRESSIUE GREASE DISTRIBUTORS *(WITH DETECTION SWITCH)*







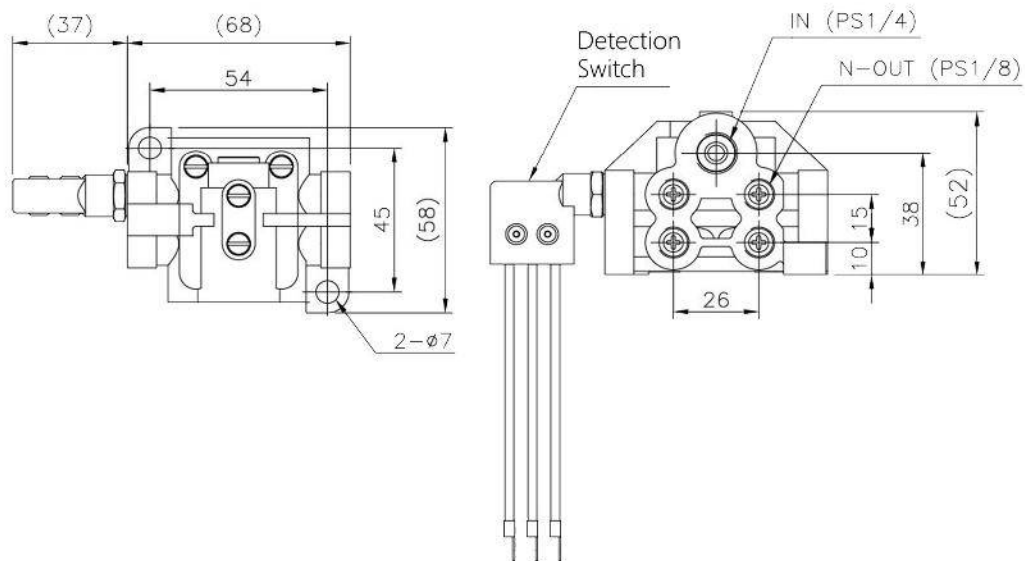
# Characteristics & Dimensions

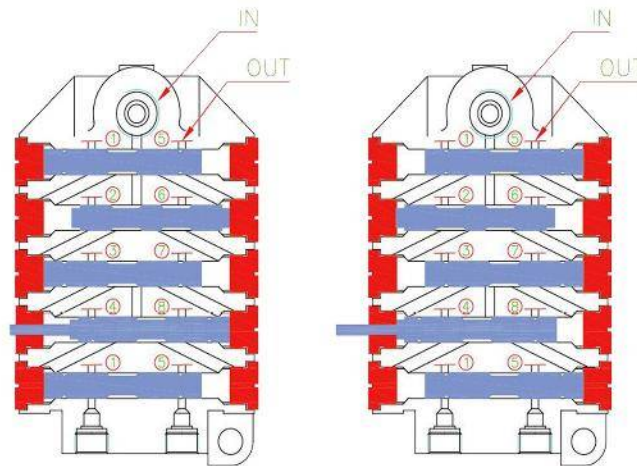
## DU-P SERIES

| MODEL   | DETECTION SWITCH | NUMBER OF OUTLETS | METERED VOLUME | MAXIMUM OUTPUT PRESSURE | WEIGHT (Gr.) |
|---------|------------------|-------------------|----------------|-------------------------|--------------|
| DG-0200 | INCLUDED         | 4                 | 0.33           | 15.00<br>(150.00)       | 350.00       |
| DG-0300 | INCLUDED         | 6                 |                |                         | 350.00       |
| DG-0400 | INCLUDED         | 8                 |                |                         | 320.00       |
| DG-0500 | INCLUDED         | 10                |                |                         | 440.00       |
| DG-0600 | INCLUDED         | 12                |                |                         | 440.00       |

\*\* Metered volume is determine by c.c./stroke.  
 \*\*\* Maximum Output Pressure is determined in Mpa (Kgf/cm<sup>2</sup>).  
 \*\*\*\* All dimensions are given in millimeters.







## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

The grease continuously pushes the left side of No.3 piston hole and pushes piston 3- 7 rightward to discharge grease in No.6 outlet.

The inclined right-sided holes of the closed No.3 piston hole and No.4 piston hole connect, and the inclined left-sided hole of No.4 piston hole connects the No.3 outlet.

The grease continuously pushes the right side of No.4 piston hole and pushes piston 4-8 leftward to discharge grease in No.3 outlet.

The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition

# ISH DU-12T SM DU-12T

## PROGRESSIVE GREASE DISTRIBUTORS



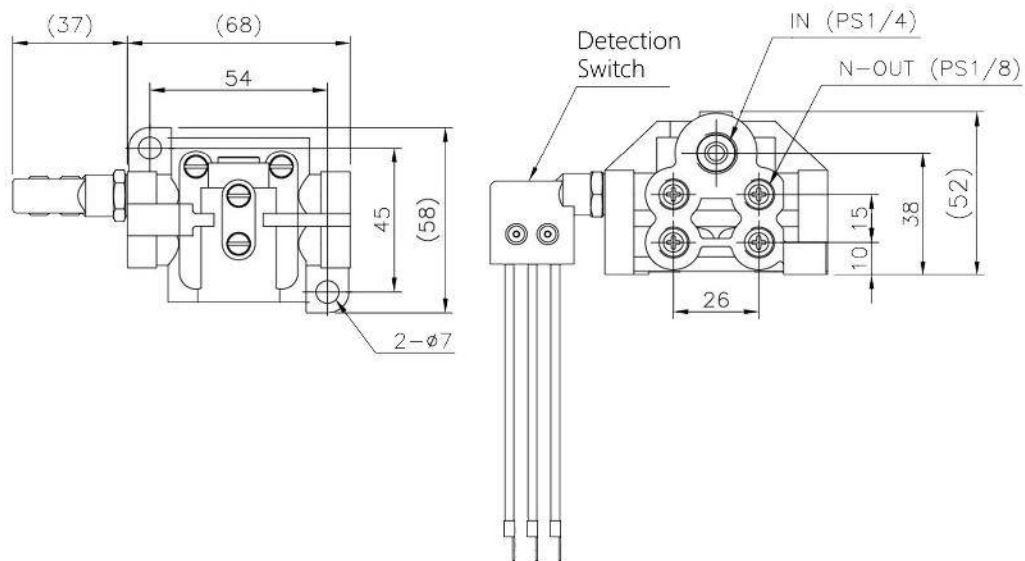


## Characteristics & Dimensions

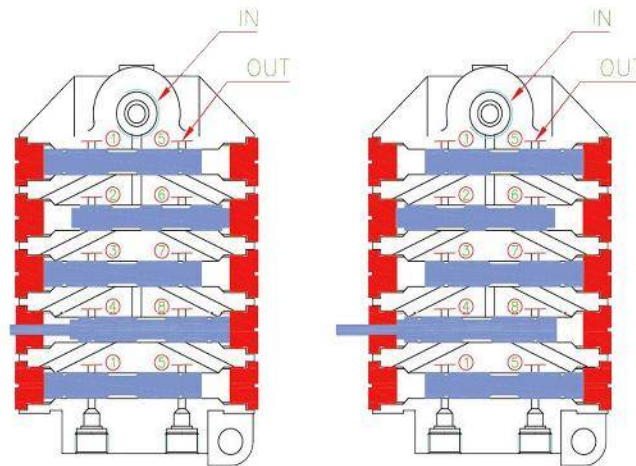
### DT SERIES

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|         |                  |        |                | 0.50                  |

\*\*\* All dimensions are given in millimeters.







## DU-Series Operation

As grease passes IN, each piston balances at the position as Diagram 1.

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The inclined left-sided holes of the closed No.4 piston hole and No.1 piston hole connect, and the inclined right-sided hole of No.1 pistonhole connects the No.8 outlet.

The grease continuously pushes the left side of No.1 piston hole and pushes piston 1-5 rightward to discharge grease in No.8 outlet.

The inclined left-sided holes of the closed No.1 piston hole and No.2 piston hole connect, and the inclined left-sided hole of No.2 piston hole connects the No.1 outlet.

The grease continuously pushes the right side of No.2-6 piston hole and pushes piston leftward to discharge grease in No.1 outlet.

The first half of the discharging completes, and the final position is as Diagram2. The second half cycle is almost the same.

**Note:** Please **DO NOT** plug any outlet on purpose. The distributor **CAN NOT** operate at this condition





伊山精密工業股份有限公司  
ISHAN PRECISION INDUSTRY, CO, LTD



**MEXICO BRANCH OFFICE**

Roberto Díaz No. 401  
Ciudad Industrial  
Aguascalientes, Ags.  
México  
20290

[4ManPro@4ManPro.com](mailto:4ManPro@4ManPro.com)  
+52 (449) 171 3420  
[www.4ManPro.com/SPA/](http://www.4ManPro.com/SPA/)



**USA BRANCH OFFICE**

708 Main St.  
10<sup>th</sup> Floor  
Houston, Tx, USA  
77002

[4ManPro\\_USA@4ManPro.com](mailto:4ManPro_USA@4ManPro.com)  
+1 (832) 871 5022  
[www.4ManPro.com/ENG/](http://www.4ManPro.com/ENG/)

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