

## REFRIGERANT CYLINDERS

Worthington Cylinders is the global leader in DOT-39 non-refillable and refillable refrigerant cylinders, as well as refrigerant recovery cylinders. With clean, dry interiors and corrosion-resistant exteriors, Worthington cylinders provide the highest quality, the longest life and the greatest reliability available.

**DOT-39 Non-Refillable Cylinders**

The preferred industry choice, Worthington's non-refillable refrigerant cylinders are manufactured in the United States and Portugal, and meet DOT, TC, EN, South Korean and Chinese specifications. Used worldwide, our cylinders are lightweight, easy to handle and ready to evacuate, fill and ship. A new, wider collar design and protective shipping carton ensures sturdiness and greater valve accessibility for easy filling.

And at the heart of every one of our non-refillable cylinders, you'll find the world's most reliable non-refillable valve. With the most advanced design in the business, Worthington's non-refillable valve has a precision-engineered, nickel-plated, steel valve body that is formed entirely in-house to maintain the highest quality standards in the world. The proven valve design allows filling and problem-free storage and shipping, yet absolutely prevents refilling of cylinders. Worthington's world-renowned, non-refillable valves are available with a standard CGA 165 (1/4-inch SAE) outlet or optional CGA 167 (1/2-inch ACME) outlet for automotive R134a applications.

**Refillable Cylinders**

Worthington's refillable refrigerant cylinders are available in a full range of sizes from 30 lb. (13.6 kg) to 1,000 lb. (454 kg) and up to 400 psig (27.6 bar) service pressure for commercial, industrial, residential and automotive applications meeting ARI, DOT, TC and EN requirements. Our Durabond powder coat paint, combined with a holding charge, ensures a long service life and clean, dry interiors.

Considered the most economical and transportable bulk container in the world, our 1,000 lb. refillable cylinder includes 4-way pallet entry forklift rails, sturdy lifting lugs, and a stable stand base for easy handling – making it the premier choice in refillable refrigerant cylinders.

**Recovery Cylinders**

Worthington's recovery cylinders meet ARI guidelines and government specifications for CFC, HCFC and HFC recovered refrigerants and can be manufactured to meet U.S. DOT and/or Canadian TC specifications. Worthington's 4BA and 4BW refrigerant recovery cylinders have an unlimited service life when requalifying in accordance with DOT and TC requirements.

At Worthington, our expectation is to exceed yours. It's what we do. Every member of our team works hard to deliver superior products and service. That's why we continue to be the world's leading global supplier of pressure cylinders.



"Worthington respects what I do. And that respect and recognition goes a long way in supporting our strong work force."





## REFRIGERANT

## RECOVERY



### SPECIFICATIONS

| MODEL (LBS.)               | 30 POUND    | 50 POUND    | 123 POUND   | 239 POUND   | 1,000 POUND |
|----------------------------|-------------|-------------|-------------|-------------|-------------|
| HEIGHT (IN.)               | 17.7        | 18.8        | 54.8        | 48.7        | 57.3        |
| HEIGHT (MM)                | 450.9       | 477.5       | 1,392       | 1,237       | 1,455       |
| WATER CAPACITY (LBS)       | 26.2        | 47.7        | 123         | 239         | 1,000       |
| WATER CAPACITY (KG)        | 11.9        | 21.7        | 55.6        | 108.4       | 450         |
| NOMINAL TARE WEIGHT (LBS.) | 17          | 27.8        | 58          | 78.5        | 334         |
| NOMINAL TARE WEIGHT (KG)   | 7.7         | 12.6        | 26.3        | 35.6        | 151.5       |
| CYLINDER DIAMETER (IN.)    | 9.1         | 12.3        | 10          | 14.7        | 30          |
| CYLINDER DIAMETER (MM)     | 231.1       | 312.4       | 254         | 373.4       | 762         |
| CYLINDER VOLUME (CU. IN.)  | 726         | 1,324       | 3,393       | 6,591       | 27,461      |
| CYLINDER VOLUME (LITERS)   | 11.9        | 21.7        | 55.6        | 108         | 450         |
| COLLAR DIAMETER (IN.)      | 6.5         | 6.5         | 3.9         | 11.4        | 16          |
| COLLAR DIAMETER (MM)       | 165.1       | 165.1       | 98.4        | 289.6       | 406.4       |
| COLLAR HEIGHT (IN.)        | 5.1         | 5.1         | N/A         | 6.4         | 6.9         |
| COLLAR HEIGHT (MM)         | 130         | 130         | N/A         | 163         | 175         |
| FOOTRING DIAMETER (IN.)    | 7.8         | 7.8         | 10          | 14.5        | 22          |
| FOOTRING DIAMETER (MM)     | 198.1       | 198.1       | 254         | 368.3       | 558.8       |
| STANDARD SPECIFICATION     | DOT-4BA-400 | DOT-4BA-400 | DOT-4BW-400 | DOT-4BW-260 | DOT-4BW-260 |
| SERVICE PRESSURE (PSIG)    | 400         | 400         | 400         | 260         | 260         |
| SERVICE PRESSURE (BAR)     | 27.6        | 27.6        | 27.6        | 17.9        | 17.9        |
| TEST PRESSURE (PSIG)       | 800         | 800         | 800         | 520         | 520         |
| TEST PRESSURE (BAR)        | 55.2        | 55.2        | 55.2        | 35.9        | 35.9        |
| OPTIONAL SPECIFICATION     | N/A         | N/A         | N/A         | N/A         | DOT-4BW-400 |
| SERVICE PRESSURE (PSIG)    | N/A         | N/A         | N/A         | N/A         | 400         |
| SERVICE PRESSURE (BAR)     | N/A         | N/A         | N/A         | N/A         | 27.6        |
| TEST PRESSURE (PSIG)       | N/A         | N/A         | N/A         | N/A         | 800         |
| TEST PRESSURE (BAR)        | N/A         | N/A         | N/A         | N/A         | 55.2        |

All tare weights and dimensions are approximate.

**To convert to refrigerant capacity:**

Maximum allowable gross cylinder fill weight is 0.8 x water capacity x specific gravity of the refrigerant recovered @ 77°F/25°C + the cylinder tare weight.

Cylinder photos are not shown to scale.



## REFRIGERANT

## REFILLABLE



### SPECIFICATIONS

| MODEL/WATER CAPACITY (LBS.)   | 30 POUND    | 123 POUND   | 1,000 POUND |
|-------------------------------|-------------|-------------|-------------|
| HEIGHT (IN.)                  | 19.8        | 54.8        | 57.3        |
| HEIGHT (MM)                   | 503         | 1,392       | 1,455       |
| WATER CAPACITY (KG)           | 13.6        | 55.6        | 450         |
| NOMINAL TARE WEIGHT (LBS.)    | 21          | 58          | 334         |
| NOMINAL TARE WEIGHT (KG)      | 9.3         | 26.3        | 151.5       |
| CYLINDER DIAMETER (IN.)       | 9.1         | 10          | 30          |
| CYLINDER DIAMETER (MM)        | 231.1       | 254         | 762         |
| CYLINDER VOLUME (CU. IN.)     | 830         | 3,393       | 27,461      |
| CYLINDER VOLUME (LITERS)      | 13.6        | 55.6        | 450         |
| COLLAR DIAMETER (IN.)         | 8           | 3.9         | 16          |
| COLLAR DIAMETER (MM)          | 203.2       | 98.4        | 406.4       |
| COLLAR HEIGHT (IN.)           | 5.1         | N/A         | 6.9         |
| COLLAR HEIGHT (MM)            | 130         | N/A         | 175         |
| FOOTRING DIAMETER (IN.)       | 6.9         | 10          | 22          |
| FOOTRING DIAMETER (MM)        | 175         | 254         | 558.8       |
| <b>STANDARD SPECIFICATION</b> | DOT-4BA-400 | DOT-4BW-400 | DOT-4BW-260 |
| SERVICE PRESSURE (PSIG)       | 400         | 400         | 260         |
| SERVICE PRESSURE (BAR)        | 27.6        | 27.6        | 17.9        |
| TEST PRESSURE (PSIG)          | 800         | 800         | 520         |
| TEST PRESSURE (BAR)           | 55.2        | 55.2        | 35.9        |
| <b>OPTIONAL SPECIFICATION</b> | N/A         | N/A         | DOT-4BW-400 |
| SERVICE PRESSURE (PSIG)       | N/A         | N/A         | 400         |
| SERVICE PRESSURE (BAR)        | N/A         | N/A         | 27.6        |
| TEST PRESSURE (PSIG)          | N/A         | N/A         | 800         |
| TEST PRESSURE (BAR)           | N/A         | N/A         | 55.2        |

All tare weights and dimensions are approximate.  
For more information on 400 psig 1,000 lb. DOT-4BW tare weight, call Worthington Cylinders.  
Cylinder photos are not shown to scale.



REFRIGERANT

DOT 39 NON-REFILLABLE



SPECIFICATIONS

| MODEL/DIAMETER (IN.)          | 7.5 INCH | 9 INCH | 9.5 INCH |      | 12 INCH |
|-------------------------------|----------|--------|----------|------|---------|
| HEIGHT (IN.)                  | 14.6     | 16.4   | 16.4     |      | 17.6    |
| HEIGHT (MM)                   | 369.8    | 416.7  | 416.7    |      | 446     |
| WATER CAPACITY (LBS.)         | 15.8     | 26.7   | 29.7     |      | 49.6    |
| WATER CAPACITY (KG)           | 7.2      | 12.1   | 13.5     |      | 22.5    |
| DIAMETER (MM)                 | 190.5    | 228.6  | 241.3    |      | 304.8   |
| CYLINDER VOLUME (CU. IN.)     | 438      | 739    | 822      |      | 1,378   |
| CYLINDER VOLUME (LITERS)      | 7.2      | 12.1   | 13.5     |      | 22.5    |
| <b>STANDARD SPECIFICATION</b> |          |        |          |      |         |
| SERVICE PRESSURE (PSIG)       | 260      | 260    | 260      |      | 260     |
| SERVICE PRESSURE (BAR)        | 17.9     | 17.9   | 17.9     |      | 17.9    |
| TEST PRESSURE (PSIG)          | 325      | 325    | 325      |      | 325     |
| TEST PRESSURE (BAR)           | 22.4     | 22.4   | 22.4     |      | 22.4    |
| <b>OPTIONAL SPECIFICATION</b> |          |        |          |      |         |
| SERVICE PRESSURE (PSIG)       | 400      | N/A    | 400      | 320  | 320     |
| SERVICE PRESSURE (BAR)        | 27.6     | N/A    | 27.6     | 22   | 22      |
| TEST PRESSURE (PSIG)          | 500      | N/A    | 500      | 400  | 400     |
| TEST PRESSURE (BAR)           | 34.5     | N/A    | 34.5     | 27.6 | 27.6    |

All dimensions are approximate.