



**47146501**  
Edition 2  
August 2011

# Air Die Grinders

Models DG18C-A and DG21C-A

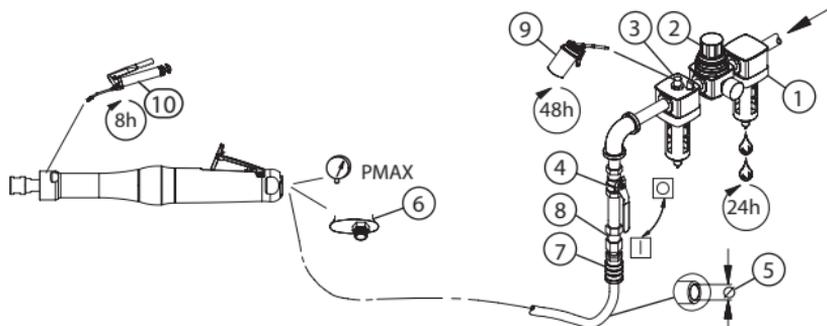
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## Product Information



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 **Ingersoll Rand**



(Dwg. 47151030)

| ①②③        |            | ⑤         | ⑥   | ⑦      | ⑨    | ⑩    |                 |
|------------|------------|-----------|-----|--------|------|------|-----------------|
| IR # - NPT | IR # - BS  | inch (mm) | NPT | IR #   | IR # | IR # | cm <sup>3</sup> |
| C38331-800 | C383C1-810 | 3/8 (10)  | 3/8 | MSCF33 | 10   | 67   | 2               |

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## Product Safety Information

### Intended Use:

These Die Grinders are designed for close-quarter work in the metal fabricating industry, shipyards, pipe fabrication, die and mold manufacturing and limited space applications. They are particularly good where conduits, pipes, ducts etc. pass through bulkheads or frames. These small grinders are very efficient at grinding weld bead and leaving a fine finish.

For Additional information refer to Air Die Grinder Product Safety Information Manual Form 47146659.

Manuals can be downloaded from [www.ingersollrandproducts.com](http://www.ingersollrandproducts.com).

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## Product Specifications

| Model(s) | Free Speed | Collet Size | Power hp (kW) | Sound Level dB (A) (ISO15744) |                           | Vibration (m/s <sup>2</sup> ) (ISO28927) |     |
|----------|------------|-------------|---------------|-------------------------------|---------------------------|--|-----|
|          | rpm        |             |               | † Pressure (L <sub>p</sub> )  | ‡ Power (L <sub>w</sub> ) | Level                                    | *K  |
| DG18C-A  | 18000      | 1/4" (6 mm) | 0.9           | 80.9                          | 91.9                      | 3.5                                      | 1.1 |
| DG21C-A  | 21000      | 1/4" (6 mm) | 0.9           | 82.1                          | 93.1                      | <2.5                                     | --- |

† K<sub>PA</sub> = 3dB measurement uncertainty

‡ K<sub>WA</sub> = 3dB measurement uncertainty

\* K = Vibration measurement uncertainty

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## Installation and Lubrication

Size air supply line to ensure tool's maximum operating pressure (P<sub>MAX</sub>) at tool inlet. Drain condensate from valve(s) at low point(s) of piping, air filter and compressor tank daily. Install a properly sized Safety Air Fuse upstream of hose and use an anti-whip device across any hose coupling without internal shut-off, to prevent hose whipping if a hose fails or coupling disconnects. See drawing 47151030 and table on page 2. Maintenance frequency is shown in circular arrow and defined as h=hours, d=days, and m=months of actual use. Items identified as:

1. Air filter
2. Regulator
3. Lubricator
4. Emergency shut-off valve
5. Hose diameter
6. Thread size
7. Coupling
8. Safety Air Fuse
9. Oil
10. Grease

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## Parts and Maintenance

When the life of the tool has expired, it is recommended that the tool be disassembled, degreased and parts be separated by material so that they can be recycled.

Tool repair and maintenance should only be carried out by an authorized Service Center.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.



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