



# IMR 265, High Pressure Hot Cathode, DN 16 ISO-KF

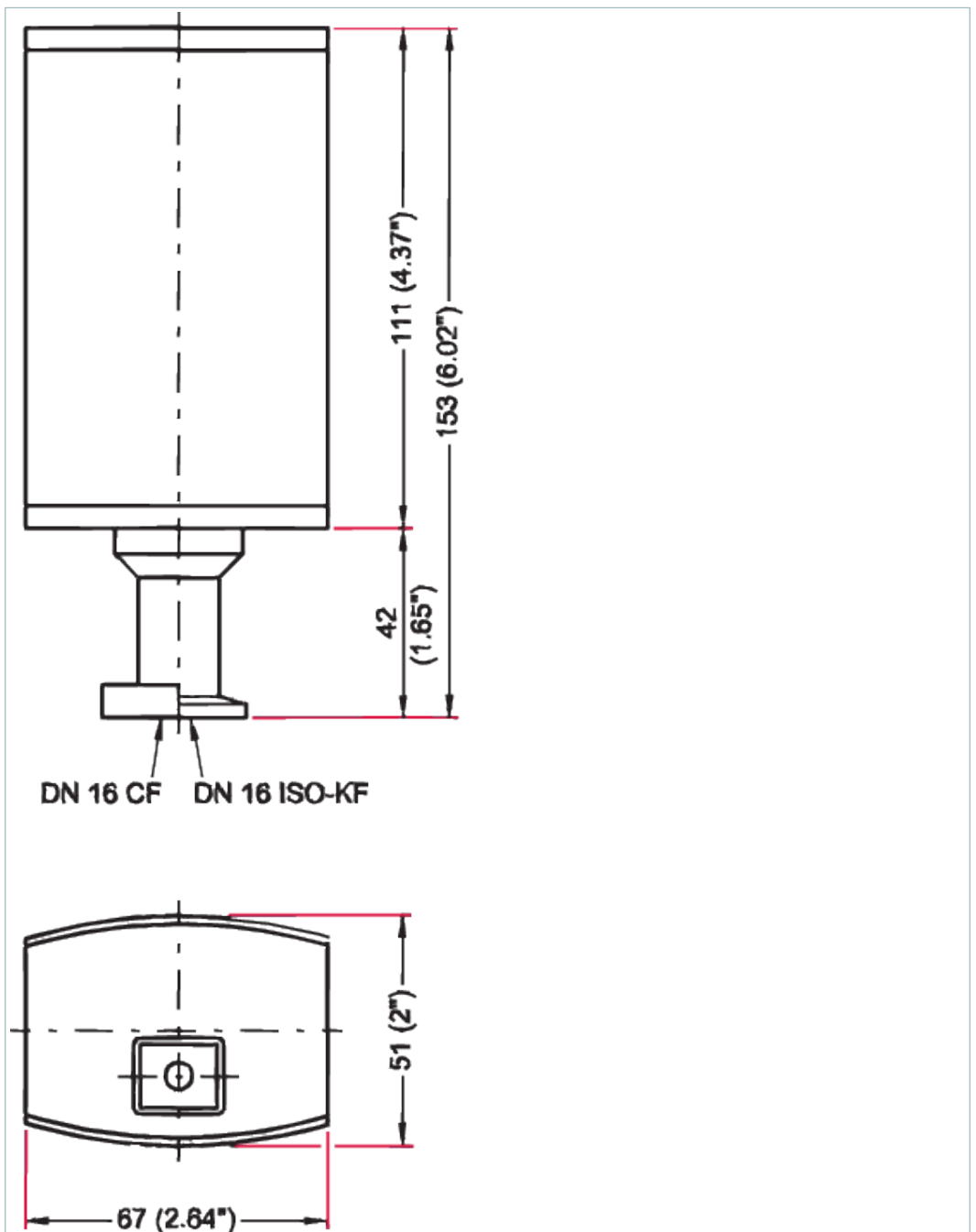


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## IMR 265, High Pressure Hot Cathode, DN 16 ISO-KF

- Flange size: DN 16 ISO-KF
- Maximum pressure refers to inert gases and temperatures of less than 55 °C
- Two gauge heads (Pirani and hot cathode) in a single case
- Highly accurate
- Automatic cathode protection
- Automatic cathode protection
- A single flange from atmosphere to UHV
- Resistant in corrosive media
- Ultimate pressure and temperature range for inert gases is  $\leq 55$  °C

### Dimensions



| Technical Data                                         | IMR 265, High Pressure Hot Cathode, DN 16 ISO-KF                          |
|--------------------------------------------------------|---------------------------------------------------------------------------|
| Accuracy: $1 \cdot 10^{-5} - 1$ hPa                    | $\pm 15$ %                                                                |
| Bakeout temperature                                    | 150 °C, electronic removed °C                                             |
| Electron collector                                     | Stainless steel                                                           |
| Filament                                               | Iridium yttriated                                                         |
| Filament holder                                        | Molybdenum, Platinum                                                      |
| Flange, Material                                       | Stainless steel                                                           |
| Insulator                                              | Glass                                                                     |
| Ion collector                                          | Stainless steel                                                           |
| Measurement range C                                    | $2 \cdot 10^{-6} - 1 \cdot 10^3$ hPa                                      |
| Measurement range max.                                 | $1 \cdot 10^3$ hPa   $7.5 \cdot 10^2$ Torr   $1 \cdot 10^3$ mbar          |
| Measurement range min.                                 | $2 \cdot 10^{-6}$ hPa   $1.5 \cdot 10^{-6}$ Torr   $2 \cdot 10^{-6}$ mbar |
| Method of measurement                                  | Process Ion Gauge                                                         |
| Nominal diameter                                       | DN 16 ISO-KF                                                              |
| Output signal: Measurement range hot cathode           | 1.5 – 7.5 V                                                               |
| Output signal: Measurement range Pirani                | 8.5 – 9.75 V                                                              |
| Output signal: Minimum load                            | 10 kΩ                                                                     |
| Pirani measurement element                             | Copper, Tungsten                                                          |
| Pressure max.                                          | 5,000 hPa   3,750 Torr   5,000 mbar                                       |
| Repeatability: $1 \cdot 10^{-1} - 100$ hPa             | 30 %                                                                      |
| Repeatability: $1 \cdot 10^{-5} - 1 \cdot 10^{-1}$ hPa | 2 %                                                                       |
| Sensor cable length                                    | 100 m                                                                     |
| Sensor cable length max.                               | 100 m                                                                     |
| Supply: Power consumption max.                         | 16 W                                                                      |
| Supply: Voltage V DC                                   | 20 – 30 V DC                                                              |
| Temperature: Operating                                 | 0-50 °C   32-122 °F   273-323 K                                           |
| Temperature: Storage                                   | -20-70 °C   -4-158 °F   253-343 K                                         |
| Volume                                                 | 20 cm <sup>3</sup>                                                        |
| Weight                                                 | 280 g                                                                     |

| Order number |            |
|--------------|------------|
| IMR 265      | PT R26 504 |

| Accessories                                                                     |               |
|---------------------------------------------------------------------------------|---------------|
| <b>Adapters (electrical) Adapter Measurement</b>                                |               |
| Mating connector                                                                | B 4707 283 MA |
| <b>Cables Measurement cables</b>                                                |               |
| Sensor cable, 3 m                                                               | PT 448 250 -T |
| <b>Protection Inlet filters</b>                                                 |               |
| Centering ring with protection filter, pore size 20 µm, FPM/stainless steel     | PF 117 216 -T |
| Centering ring with metal mesh-fine filter, pore size 4 µm, FPM/stainless steel | PT 120 132 -T |

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