

OXFORD FLOW GAS REGULATOR

MODEL: IM-C

High performance flanged gas pressure regulator with in-line serviceable top-entry cartridge design.



PRODUCT OVERVIEW

The IM-C Series range offers excellent pressure control for gas distribution and transmission applications.

The innovative cartridge insert design utilises the patented Oxford Flow piston control system to deliver world class pressure management in an easily accessible body for inline servicing.

The unique design employs a single, piston instead of a diaphragm, increasing reliability and reducing maintenance costs.

APPLICATIONS

For use with all clean, dry gases. Not for use as a safety device.

Max. Upstream Pressure	103.4 barg / 1450 psig ¹
Downstream Pressure range	0.005 - 102 barg / 0.07 - 1435 psig ²
Min. Pressure Drop	0.4 barg / 5.8 psig ³
Temp Range (Capability)	-40°C to +120°C / -40°F to +248°F
Temp Range (EN334 Certified)	-20°C to +60°C / -4°F to +140°F
Leakage	ANSI/FCI 70-3: CLASS VI
Lock-up Class	Up to CLASS 5
Accuracy Class	Down to AC 1
Ports	1/4" NPT

¹ Maximum pressure ratings are ANSI Class dependant, values shown for standard material offering of WCC (ASME B16.5 Group 1.2)

² Dependent on pilot valve. It is recommended that the IM-C Regulator be used with the Oxford Flow range of pilot regulators

³ Flow rate & size dependant

BENEFITS & FEATURES

- A single moving part for minimal maintenance
- Extremely accurate pressure and flow control
- No stem to minimise failure points
- Piston controlled - no diaphragm
- Robust and reliable
- Top-entry cartridge design for easy in-line service
- Noise attenuating DAN cage upgrades available

PERFORMANCE & SIZING

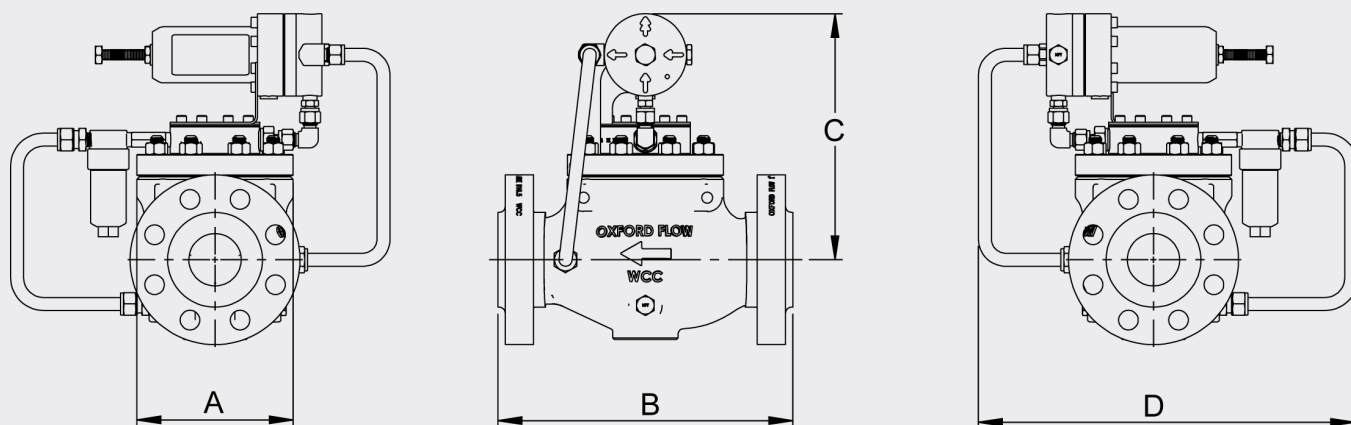
IM-C Series Regulators are available in DN050 - DN200 (2"-8") in classes 150 - 600 as follows:

IM-C Series	C _v	C _g	K _v	K _g
DN50(2")	50	1446	43	1521
DN80(3")	109	3058	94	3217
DN100(4")	172	5023	149	5284
DN150(6")	355	10213	307	10744
DN200(8")	547	15830	473	16653



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KEY DIMENSIONS*

Nominal Diameter	Cartridge Diameter (A)	Length* (B)	Height (C)	Width (D)	Weight*
DN50 (2")	165 mm / 6.5"	286 mm / 11.3"	248 mm / 9.7"	369 mm / 14.5"	34 kg / 75 lbs
DN80 (3")	210 mm / 8.3"	337 mm / 13.3"	276 mm / 10.9"	400 mm / 15.7"	58 kg / 127 lbs
DN100 (4")	275 mm / 10.8"	394 mm / 15.5"	312 mm / 12.3"	340 mm / 13.4"	105 kg / 231 lbs
DN150 (6")	355 mm / 14.0"	508 mm / 20.0"	360 mm / 14.2"	480 mm / 18.9"	221 kg / 487 lbs
DN200 (8")	420 mm / 16.5"	610 mm / 24.0"	399 mm / 15.7"	605 mm / 23.8"	392 kg / 864 lbs

* Lengths and weights for ASME Class 600, Length (B) to ISA-75.08.01-2016



SIMPLE INSTALLATION



CONSTRUCTION MATERIALS

Components	Standard Materials**
Cartridge Assembly	Stainless steel 316
Body/Bonnet	Cast carbon steel WCC
Static seals & soft parts	FKM
Dynamic seal	NBR
Pilot	Stainless steel 316L (in gas contact), Aluminium 6082-T6
Fixings & fittings	Stainless steel 316L

**Alternative materials available on request

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