

Methane



Grade	Semicon 4N	ULSI 5N
Purity, %	99.99	99.999
Oxygen	≤10 ppmv	≤1 ppmv
Nitrogen	≤60 ppmv	≤4 ppmv
Carbon Dioxide	≤3 ppmv	≤2 ppmv
Carbon Monoxide	≤1 ppmv	≤1 ppmv
Water	≤3 ppmv	≤1 ppmv
Ethane	≤20 ppmv	≤3 ppmv
Ethylene	≤1 ppmv	≤1 ppmv
Hydrogen	≤1 ppmv	≤1 ppmv
Propane	≤1 ppmv	≤1 ppmv
Propylene	≤1 ppmv	≤1 ppmv

- A lot analysis is provided for each order. – Individual analysis is also available upon request.
- Pneumatic valves and JIS connections are available upon request.

CYLINDER	Internal Volume	Liters	43.8	17.1
	Cylinder Sizes >>		QF/QA/QB	GF/GA
	Content	Liters	8,100	2,830
		ft ³	286	100
	Cylinder Pressure*	psig	2,265	2,000
atm		160.3	141.6	

* @ NTP

SHIP	DOT Shipping Name	Methane, Compressed	UN Number	UN 1971	Shipped as
	DOT Classification	2.1 (Flammable Gas)	ECCN #	1C983	Compressed Gas
	DOT Label	FLAMMABLE GAS	Harmonized #	2901.10.6000	

TECHNICAL DATA	Specific Volume	1.48 m ³ /kg
	@NTP	23.7 ft ³ /lb
	CAS No	74-82-0
	CGA/DISS/JIS	350/724
	Molecular Weight	16.04 g/mol

Critical Temperature	-116.6°C	-182.5°F
Critical Pressure	49 atm	667.7 psia

NTP = 21°C or 70°F and 101.3 kPa or 1 atm

Cylinder	Treatment	Nominal Diameter (OD)xHeight*		Material of Construction	
		cm	Inches	Cylinder	Valve
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
QA	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	Brass
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	SS
GF	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	SS
GA	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	Brass

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top of the handwheel
CS: Carbon Steel SS: Stainless Steel



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