

## Low Gas Flow Metering Skid (LGMS)

Accurately measures low gas flow rates and meters rates outside the measuring envelope of the separator

### Applications

Meters low gas flow rates that are normally outside the measuring envelope of the separator

### How it improves wells

Enables the operator to accurately measure quantities

### How it works

The LGMS is a low gas flow metering skid that mounts on the gas outlet of a test separator and meters low gas rates that are normally outside the separator's operating envelope. It consists of a Coriolis meter or an orifice meter with BARTON\* measurement technology recorder.

### Options

The high-temperature ball valve kit available for the low gas metering skid (LGMS-F) increases the maximum working temperature to 125 degC [257 degF].

### The takeaways

Seamless pressure control reinforces measurement accuracy and operational safety.

### Features

- Pressure control valve
- Bypass line mounted on the skid
- Metering options of Coriolis meter or an orifice meter with BARTON technology
- All models come with a quality file record that outlines specifications, and a certificate of conformity from the manufacturer.



Low gas flow metering skid.

### Specifications

Model	LGMS-B	LGMS-C	LGMS-F	LGMS-FB
Working pressure at 212 degC [100 degF], psi [kPa]	1,480 [10,204]	1,480 [10,204]	1,440 [9,930]	1,440 [9,930]
Working temperature, degC [degF]	0 to 100 [32 to 212]	-20 to 100 [-4 to 212]	0 to 100 [32 to 212]	-29 to 100 [-20 to 212]
Meter type	2-in orifice	2-in orifice	Coriolis (CMF100)	Coriolis (CMF100)
Gas flow envelope, Mscf/d	1-10 with 0- to 100-in [0- to 2,540-mm] WC range spring 30-160 with 0- to 200-in [0- to 5,080-mm] WC range spring	1-10 with 0- to 100-in [0- to 2,540-mm] WC range spring 30-160 with 0- to 200-in [0- to 5,080-mm] WC range spring	Min.: 14.126 530 at 50 psi [345 kPa] (5-psi [34 kPa] pressure drop) 3,530 at 1,200 psi [8,273 kPa] (11 psi [76 kPa] pressure drop)	Min.: 14.126 530 at 50 psi [345 kPa] (5-psi [34 kPa] pressure drop) 3,530 at 1,200 psi [8,273 kPa] (11 psi [76 kPa] pressure drop)
<b>Connections</b>				
Inlet	3-in Fig 602 F	3-in Fig 602 F	3-in Fig 602 F	3-in Fig 602 F
Outlet	3-in Fig 602 M	3-in Fig 602 M	3-in Fig 602 M	3-in Fig 602 M
Footprint, m [ft]	3.60 × 0.90 [11.8 × 2.95]	3.60 × 0.90 [11.8 × 2.95]	1.62 × 0.50 [5.3 × 1.64]	1.62 × 0.50 [5.3 × 1.64]
Height, m [ft]	1.81 [5.9]	1.81 [5.9]	1.6 [5.25] <sup>†</sup>	1.6 [5.25] <sup>†</sup>
Weight, kg [lbm]	430 [948]	430 [948]	380 [838]	380 [838]
Applied codes	ASME <sup>‡</sup> VIII, ANSI B31.3, NACE MR0175 (H <sub>2</sub> S)	ASME VIII Div. 2, ANSI B31.3, NACE MR0175 (H <sub>2</sub> S)	ASME VIII, ANSI B31.3, NACE MR0175 (H <sub>2</sub> S), CENELEC EEx ia & d, CENELEC EEx SYST (Group IIB, class T4)	ASME VIII, ASME B31.3, NACE MR0175(H <sub>2</sub> S), CE <sup>§</sup> marked

<sup>†</sup> Depending on position of adjustable legs  
<sup>‡</sup> American Society of Mechanical Engineers  
<sup>§</sup> Conformité Européenne