

LOPER

LNG OVER-PRESSURE REGULATOR POWERING PRODUCTIVITY THROUGHOUT THE WORLD LNG稳压器

Key Features

- Ideal for use in on-road and off-road applications
- Stainless steel components for continued operation at cryogenic temperatures:
 - SS diaphragm (bellows) retains full functionality at sub-zero levels
 - SS plunger body and all springs stay working at sub-zero levels
- MAP (Manifold Absolute Pressure) reference fitting is built into the design
- Retains steadier output than competitive models:
 - pressure balanced plunger design maintains outlet pressure vs. flow (droop) performance as inlet pressure varies
- Designed for operation with fuel temperatures of -40°C to 120°C with excursions to -60°C
- Flexibility for a range of applications with outlet pressure setting range from 3.8-9.0 barg (55-130 psi_g) depending on model
- Robust design validated through rigorous testing

主要特性

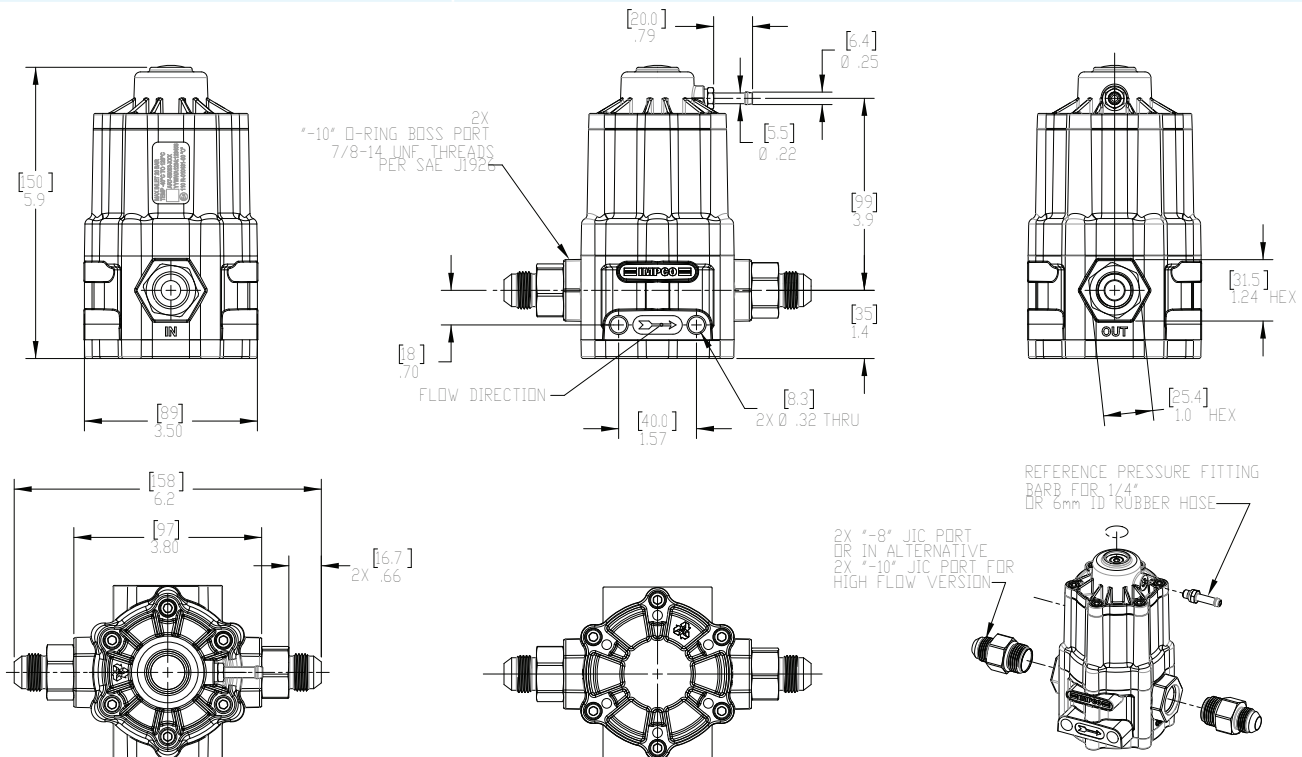
- 可用于车用及非道路；
- 不锈钢零件可以允许持续工作在极低温度环境：
 - 不锈钢膜片弹簧可以在零下温度下正常工作；
 - 不锈钢柱塞和所有的弹簧工作在零度以下；
- 进气歧管压力补偿功能；
- 比同类产品更稳定的出口压力：
 - 压力平衡的柱塞设计在进口压力变化时保持出口压力对流量（压降）的性能；
- 燃气温度为-40℃ to 120℃时持续工作，燃气温度为-60℃短时间工作；
- 出口压力在3.8~9 barg范围内可调；
- 稳健的设计通过了严格的试验测试。



SPECIFICATIONS

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GENERAL INFORMATION 基本参数	
MOUNTING 安装位置	Underhood, chassis or engine installation acceptable 发动机舱, 车架, 发动机载
DESIGN 设计	Single stage stainless steel bellows style regulator 不锈钢膜片式单级调压
BODY MATERIAL 机体材料	Aluminum die casting 铸铝
FUEL TYPE 燃气类型	Natural Gas CH ₄
PERFORMANCE 性能	
OPERATING TEMPERATURE RANGE 工作温度	-40°C to 120°C (-40°F to 248°F)
INLET PRESSURE 入口压力	Nominal: 11 bar _g (160 psi _g) - Maximum working: 20 bar _g (290 psi _g) 建议11bar, 最大20bar
OUTLET PRESSURE 出口压力	Outlet pressure: 3.8-9 bar _g (55-130 psi _g) depending on model Standard setting: 4.7 bar (69 psi) > MAP at 5 g/s N ₂ flow Lockup: <0.7 bar (10 psi) rise above outlet pressure set point Droop: <0.5 bar (7 psi) from 5 g/s to 40 g/s N ₂ flow (-10JIC port model) 压降: 0.5个大气压 (7psi) 5 g/s 到 40 g/s 氮气流量 (-10 JIC 接口的型号) Hysteresis: 0.3 bar (4 psi) typical
DURABILITY 耐久	4.6 million flow cycle 460万次循环
CORROSION / HUMIDITY 盐雾试验	144 hours salt spray @ 23°C - 96 hours @ 33 to 36°C 144小时盐雾@23°C
VIBRATION 振动	Sine 15 g from 10 Hz to 2000 Hz, 8 h x axis 正玄15g 10到2000Hz, 8小时 X 轴 Shock 50 g 冲击 50g
INTERNAL LEAKAGE 内部泄漏	Controlled by lock-up pressure specification
EXTERNAL LEAKAGE 外部泄露	<15 cc/hr (<15 cm ³ /hr)
FILTRATION 系统滤清要求	100 microns screen integrated into inlet fitting 入口法兰集成100微米滤清
BOOST REFERENCING 压力补偿	Yes, 1:1 ratio 支持
BURST PRESSURE 爆破压力	>2.5 times max working pressure: 50 bar _g (725 psi _g) @ 23°C (73°F)
PRESSURE RELIEF VALVE 泄压阀	None. External unit required. 无
MASS 重量	1.4 kg (3.2 lbs) without fuel inlet or outlet fittings
EXCESSIVE TORQUE 最大安装扭矩	150% of rated installation torque for 15 minutes 150%额定扭矩持续15分钟
APPROVALS 认证	
CERTIFICATIONS 认证	ISO 15500, ISO 12614, R110



ISO 9001:2008 registered
ISO 14001:2004 registered