

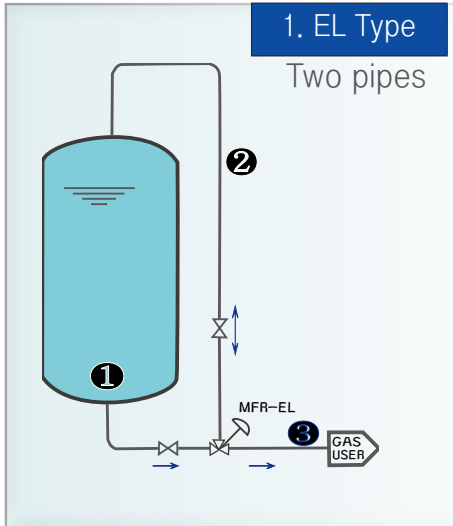
Multi-Functional Regulator (MFR)

NSTE Corporation Limited

for Cryogenic Storage

MFR | System architecture

MFR-EL



1. EL Type
Two pipes

Product Specifications

Available fluid	LN ₂ , LO ₂ , LAr, LCO ₂ , LNG
Flux	300~25,000 Nm ³ /h
Maximum operating pressure	Low pressure 2.0 MPa High pressure 4.0 MPa
Adjustable pressure range	Low pressure 0.2~1.7 MPa High pressure 0.6~3.5 MPa
Drive temperature	-196°C~40°C

- a. Solution to prevent losses due to gas leakage in the discharge pipe
- b. The simple modifications are possible in the existing system, reliable operation
- c. Except for the absence of the step-up function and type ELP is same

- *Suitable for adaptation to the existing tank
- *In the case of LCO₂ available on the new tank
- *Less than 5 tons of tanks suitable for the user can be reduced, and losses due to gas leakage (Farm, suitable for gas mixers, welding, greenhouses, etc.)
- *Pressure, including liquid supply pipe (without the boost function)

MFR Flow Data table

- Pressure 7bar, Temperature -196°C, Liquid Nitrogen, 900mm liquid boosting the ability of the above

- Liquid flow rates of gas compared to Transmission Quantity: Nm³/hr

Dimensions	Can flow-meter (Cv)	PB Liquid flow rate (1/hr)	PB Gas Volume (m ³ /hr)	The maximum liquid Take-out amount (m ³ /hr)	maximum gas Transmission Quantity (Nm ³ /hr)	Dimensions	The cross-sectional area (m ²)	gas Transmission Quantity (Nm ³ /hr)		
								1m/sec	3m/sec	5m/sec
15A(1/2")	4	900	160	20	12,900	15A(1/2")	4	300	900	1,500
25A(1")	14	3,200	580	70	45,200	25A(1")	14	1,200	3,600	6,000

Format	Function	Pressure Range (MPa)	Size (mm)	Weight (kg)
EL-15L	EC,LS	0.2~1.7	240×140×115	4
EL-15H	EC,LS	0.6~3.5	240×140×115	4
EL-25L	EC,LS	0.2~1.7	380×200×160	4



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