

Technical Requirements

○ Article Name: Cryogenic Globe Valves

○ Order Information

No.	Item	Requirements		Q'ty
1	DN 15 Pneumatic Cryogenic Globe Valves	Operating Temperature Range	Cryogenic (-196°C~50°C),	6ea
		Actuator Type	Pneumatic,	
		Valve Type	On/Off, Normally closed	
		Service Fluid	LN2	
		PN (Nominal Pressure)	18 bar or higher	
		Kv	1.89 m ³ /h or higher	
		Power Supply	DC 24V	
		Steam Sealing	By bellows	
		Leakage	To atmosphere < 1×10 ⁻⁸ mbar*1/s through seat < 1×10 ⁻⁶ mbar*1/s	
		Seat Sealing	PCTFE	
2	DN 25 Pneumatic Cryogenic Globe Valves	Operating Temperature Range	Cryogenic (-196°C~50°C),	6ea
		Actuator Type	Pneumatic,	
		Valve Type	On/Off, Normally closed	
		Service Fluid	LN2	
		PN (Nominal Pressure)	25 bar or higher	
		Kv	8 m ³ /h or higher	
		Power Supply	DC 24V	
		Steam Sealing	By bellows	
		Leakage	To atmosphere < 1×10 ⁻⁸ mbar*1/s through seat < 1×10 ⁻⁶ mbar*1/s	
		Seat Sealing	PCTFE	
3	DN 50 Pneumatic Cryogenic Globe Valves	Operating Temperature Range	Cryogenic (-196°C~50°C),	2ea
		Actuator Type	Pneumatic,	
		Valve Type	On/Off, Normally closed	
		Service Fluid	LN2	
		PN (Nominal Pressure)	40 bar or higher	
		Kv	32.3 m ³ /h or higher	
		Power Supply	DC 24V	
		Steam Sealing	By bellows	
		Leakage	To atmosphere < 1×10 ⁻⁸ mbar*1/s through seat < 1×10 ⁻⁶ mbar*1/s	
		Seat Sealing	PCTFE	

4	DN 50 Pneumatic Cryogenic Regulation Valve	Operating Temperature Range	Cryogenic (-196°C~50°C),	1ea
		Actuator Type	Pneumatic,	
		Valve Type	Regulation, Normally closed	
		Service Fluid	LN2	
		PN (Nominal Pressure)	40 bar or higher	
		Kv	32 m ³ /h or higher	
		Power Supply	DV 24V	
		IP Regulator	4~20 mA	
		Steam Sealing	By bellows	
		Leakage	To atmosphere < 1×10 ⁻⁸ mbar*I/s through seat < 1×10 ⁻⁶ mbar*I/s	
		Seat Sealing	PCTFE	

- All valves shall be compatible with vacuum jacketed pipe, therefore brackets (rims) for vacuum jacket shall be welded on the valves.
- Contractor shall provide to KARI the documents of Certificate of Conformity (CoC), LN2 test results, leak test results and manual on the delivery of above Items
- Delivery Date : Within 12Weeks After Receipt of Order
- Warranty Period : 1 year after the delivery of Items