

Specifications

Item	Specification	
Type	Propane air mixer	
Model	PA - 90	
Capacity	90 m ³ /h (normal) (Propane air mixed gas)	
Feeder gas requirement	Composition	LP gas containing 95% or more propane gas (20% or more liquid LP gas should be left in each cylinder)
	Pressure	1.5 ~ 15.6 bar
Outlet pressure	15 ~ 25 mbar	
First stage regulator	Outlet pressure	0.85 ~ 1.05 bar
	Capacity	100 kg/h (LPG)
Venturi mixer 1/2/3	Nozzle pressure	0.8 ~ 1.0 bar
	Nozzle diameter	ϕ 5.05 ± 0.03 mm
	Throat diameter	ϕ 7.70 ± 0.03 mm
	Area ratio	2.325 (2.280 ~ 2.371)
Working pressure of open-close valve controller	Pressure of injection start	50 ~ 70 mbar
	Pressure of injection stop	140 ~ 160 mbar
Actuating pressure of safety valve	Shut-off pressure of abnormal negative pressure -15 ± 5.0 mbar	
	Shut-off pressure of over pressure 1.5 ± 0.2 bar	
	Shut-off pressure of under pressure 0.5 ± 0.2 bar	
	Shut-off pressure of over pressure of cushion tank 230 ± 30 mbar	
Mixed gas	Total calorific value	58.6 MJ/m ³ (normal)
	Accepted range	56.30 ~ 59.58 MJ/m ³ (normal)

Leakage test	From inlet connection to inlet of first stage regulator	18 bar
	From outlet of first stage regulator to inlet of second stage regulator	2.0 bar
	At cover parts of shut-off valve	300 mbar
	At outlet of second stage regulator	42 mbar
Hydrostatic test	From inlet connection to inlet of first stage regulator	24 bar
	From outlet of first stage regulator to inlet of second stage regulator	3.0 bar
	At cover parts of shut-off valve	400 mbar
	At outlet of second stage regulator	42 mbar
Inlet connection	JIS 20K 20A Flange	
Outlet connection	Rc 1 1/2	
External dimension	Width 1958 × Depth 668 × Height 1150	mm
Cushion tank	Inner volume	Approx. 0.37 m ³
Working temperature range	-15 ~ 40	°C
Product weight	Approx. 350	kg

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