



## “KAGLA BRAND” Our Reputable Product Lineup



### “AX5” LPG Vaporizer

#### 1. Advanced Safety Mechanism

Float Valve System (KAGLA's patented technology) prevents LPG liquid carryover, which may lead to serious accidents such as explosion.

#### 2. User Friendly Interface

Electric Control Panel monitors the status of vaporizer, and has self-diagnosis system, which enables its sustainable operation.

#### 3. Easy Maintenance Structure

Top cover of AX5 is removable from its body for easy maintenance and overhaul, which extend its longevity.

MODEL	EV-50AX5	EV-100AX5	EV-150AX5	EV-200AX5	EV-300AX5	EV-500AX5
Vaporization Capacity	kg/hr 50	100	150	200	300	500
Liquid inlet bore	Rc 3/4					Rc 1
Gas outlet bore	Rc 1					Rc 1 · 1/4
Flame-Proof	kW 8	14	21	28	42	63
Electric Heater	(14kWx2)					(21kWx2)
Electric Requirement	Heater 200/220/380/415/440/460V, 3-Phase					
Control Circuit	220V, 1-Phase					
Dimensions (mm)	Width	420	420	480	520	670
	Depth	684	642	682	732	847
	Height	857	857	1,058	1,098	1,158
Vaporizer Control Panel Dimensions (mm)	Width	300				450
	Depth	150				250
	Height	400				500
Weight	kg 160	160	235	290	320	665



Superior performance of “Liquid Auto Changer” has been highly appreciated in the market of Asian countries and around the world at present.

## KAGLA VAPORTECH CORPORATION

*No.1 Reliability*  
*Liquid Auto Changer*

## LIQUID AUTO CHANGER



### LPG Mixer SNG (Synthetic Natural Gas) system

By mixing air and LPG, LPG mixer can create similar calorific value to natural gas when natural gas supply is unstable or your factory cannot afford to stop its operation, LPG Mixer will be a reliable back-up to your natural gas facility.

Capacity: 100kg/hr-500kg/hr  
Larger size available upon inquiries.



### NH3 (Ammonia) Vaporizer

NH3 vaporizer is available on our regular line-up now. For NOx removal measurement, NH3 vaporizer will be a reliable solution to power generating facilities, chemical factories and steel factories.

Capacity: 20kg/hr-170kg/hr  
Larger size available upon inquiries.



### Compact wall mounting type vaporizer "KVR"

Compact design will allow you to install into limited spaces by hanging on the wall. LPG hot water heater which is widely accepted in Japan does not use electricity for its heat source; Therefore, electricity cost can be greatly reduced.



### Large size vaporizer "BW/BS series"

For large consumption such as factory usage, BW and BS series can support up to 3ton/hr and above using your existing steam boiler or hot water boiler. Widely accepted by Japanese large factories and control method can be chosen from either electric or air.

Capacity: 1ton/hr, 2ton/hr,  
Larger size available upon inquiries



### Strainer valve "PUREFLOW"

As the strainer and the ball valve are combined in one unit, it will save you space when structuring a piping layout. Strainer can be cleaned easily by shutting the valve.



### Flow limiter "PARAFLOW"

When two or more vaporizers are running at the same time, either side of the vaporizers may diverge and cause overload from pressure loss etc. By limiting the flow, Paraflow will prevent you from this trouble.

Capacity: 50kg/hr-500kg/hr



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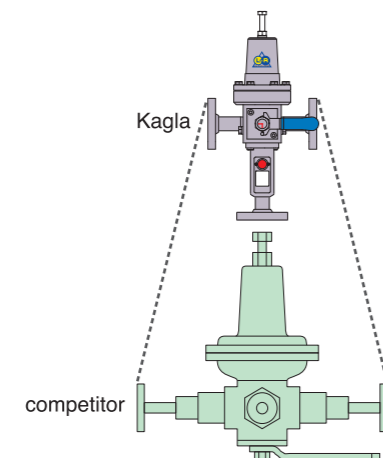


### Compact Design

"LR" is micro Liquid Auto Changer which was developed by Kagla Japan technology.

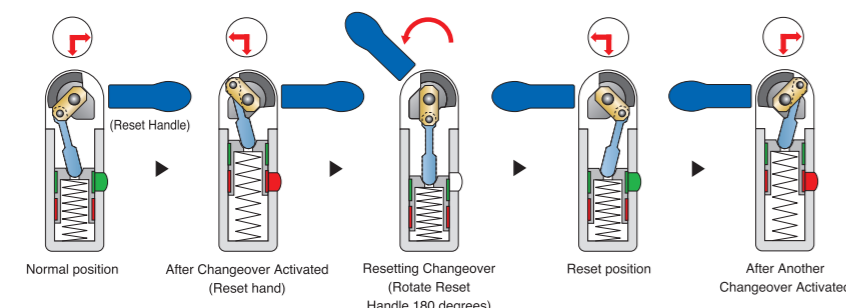
It's compact design with total width of (the size between flanges) only 215mm\* which does not allow competition of other companies.

\* Except for large-sized model



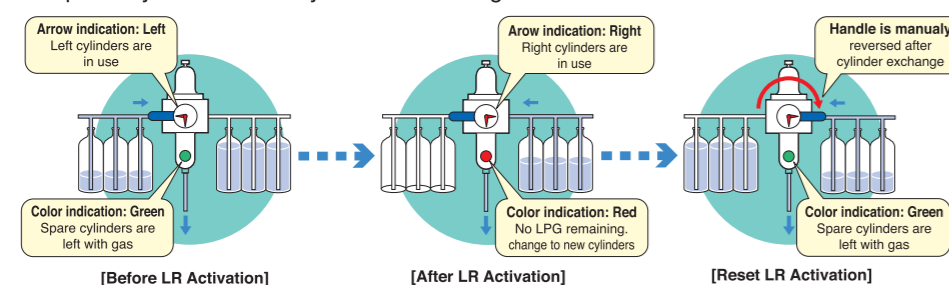
### Accurate Operation by Original Mechanism

"LR" is made by high precision, high reliability, high durability by "Three-way Valve" and "Snap Reverse Mechanism" with dustproof and rainproof construction. The precise operation of Kagla "LR" has obtained high evaluation around the world.



### Dual Indication by "Arrow" and "Color"

Red "Arrow" indicates which line is in use, and changeover activation status can be checked by "Color" indicator. Since line in use and operating status can be distinguished at a glance by the indicators. It is possible to replace cylinders correctly before short of gas.

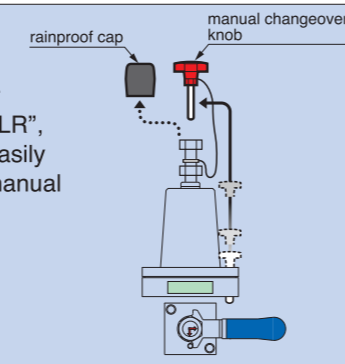


### Various lineup

Kagla "LR" series respond to wide range changeover pressure from 0.05 to 0.34MPa. As we carry the model with manual changeover function and large-sized model which other companies do not have. Select best model for your facilities and usage by referring to model selection chart.

#### Model with manual changeover function

Even when performing cylinder exchange before operation of "LR", the series being used can be easily changed only by pushing the manual changeover knob.



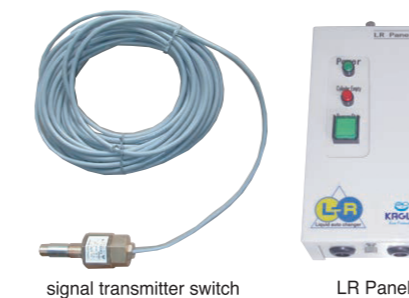
#### Large-sized model

The advantage of high precision, high reliability, high durability and easy operation are maintained and responds to use of mass gas.

### Possible to monitor changing situations remotely

Model with a signal transmitter switch, conveyance to centralized control panel and remote surveillance for changeover activation status by using telephone line is possible. All "LR" series correspond to transmitter function.

**Explosion-proof signal transmitter switch (Built in a signal transmitter switch model)**  
Kagla original switch has explosion-proof structure, and possible to complete safety wiring work easily.  
Type of Explosion-proof Construction: ExdII AT5  
Contact Rating: AC100V, 0.1A/DC24V, 0.4A



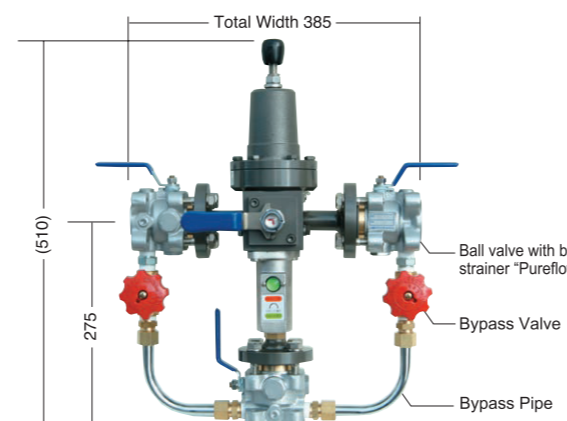
#### LR Panel (optional)

Installing "LR" panel in the office, it notifies the change of "LR" detected by buzzer and lamp.  
Dimension: W90xH170xD60(mm)  
Power supply: AC100V, 50/60Hz

### LR unit

LR unit is a compact unit with pre-installed bypass line. Minimization of total width is realized by equipping Kagla original "Pureflow" (the ball valve) to both inlet and outlet.

The maintenance of "LR Unit" can be performed without stopping the supply of LPG, and making the installation work easy. All "LR" models except large-sized model are applicable for "LR unit".



### Easy Local Maintenance

"LR" is not a complex structure. It is easy to perform periodic maintenance.



### MODEL SELECTION CHART

LPG Volume	Change over Pressure	Compulsive Changeover Function	Signal Transmitter Function	Model	Category
300kg/h (Propane) 150kg/h (Butane)	Standard (0.05~0.18MPa)	NIL	NIL	LR-SF-I	Standard model
				LR-SSF-I	Model with manual changeover function
				LR-SF-M-I	
	High (0.15~0.34MPa)	NIL	NIL	LR-SF-II	Standard model
				LR-SSF-II	Model with manual changeover function
				LR-SF-M-II	
900kg/h (Propane) 300kg/h (Butane)	Standard (0.05~0.18MPa)	NIL	NIL	LR-LA-I	Large-sized model
				LR-SLA-I	
	High (0.15~0.30MPa)	NIL	NIL	LR-LA-II	
				LR-SLA-II	

### PRODUCTS SPECIFICATIONS

Category	Standard model	Model with manual changeover function	Large-sized model				
Products							
Model	Standard With Signal Transmitter function	LR-SF-I LR-SSF-I	LR-SF-II LR-SSF-II	LR-SF-M-I LR-SSF-M-I	LR-SF-M-II LR-SSF-M-II	LR-LA-I LR-SLA-I	LR-LA-II LR-SLA-II
Capacity	300 kg/h (Propane) 150 kg/h (Butane)	300 kg/h (Propane) 150 kg/h (Butane)	900 kg/h (Propane) 300 kg/h (Butane)				
Changeover pressure	0.05~0.18MPa	0.05~0.18MPa	0.15~0.34MPa	0.05~0.18MPa	0.15~0.34MPa	0.05~0.18MPa	0.15~0.30MPa
Liquid Inlet Size	JIS20K 20A	JIS20K 20A	JIS20K 20A	JIS20K 25A	JIS20K 25A	JIS20K 25A	JIS20K 25A
Liquid Outlet Size	JIS20K 20A	JIS20K 20A	JIS20K 20A	JIS20K 25A	JIS20K 25A	JIS20K 25A	JIS20K 25A
Size	W215xH425xD195mm	W215xH425xD195mm	W215xH425xD195mm	W260xH445xD225mm	W260xH445xD225mm	W260xH445xD225mm	W260xH445xD225mm
Weight	13kg	13kg	13kg	14kg	14kg	14kg	14kg

\* All models are applicable for ANSI flange.  
\* Lower pressure model is available upon inquiries.