

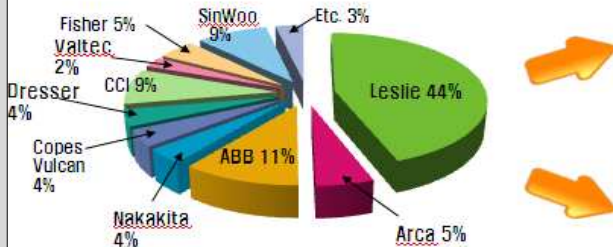


VIV Control Valve for Severe Services

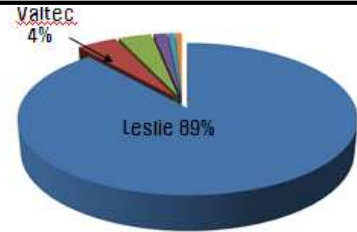
Description	<ul style="list-style-type: none"> ▪ Valves used to precisely control high temperature(over 130°C), high pressure(over 1,000kPa) or high differential pressure(over 500kPa) in industrial facilities like power plants, petrochemistry plants, steel mill plants, etc
Main Function	<ul style="list-style-type: none"> ▪ A power drive actuator for changing the flow rate of a fluid in a process control system of an industrial facility, depending on the signal of the control system, the valve connected to the actuator which can change the position of the flow control element in the valve ▪ Meet valve performance requirement(pressure, leakage, noise, control, etc) in high pressure condition(over 25MPa) and accurate response characteristic, high credibility and durability
Main Technologies	<ul style="list-style-type: none"> ▪ Original technology and patents about high temperature and high pressure control valve's design and manufacture ▪ Design and manufacture technology about no-leak control valve(Steam & Gas Plant) ▪ Supply of the control valve on operating temperature up to 560 °C, operating different pressure up to 300 kg/cm² ▪ Anti-noise, Anti-vibration, Anti-cavitation, Anti-hammering, Low Erosion-Corrosion, Precise Control, Long Term Life and Low LCC(Life Cycle Cost)
Specifications	<ul style="list-style-type: none"> ▪ Size : 1/4" ~ 48" ▪ Pressure : ANSI Class #150 ~ #4500 ▪ Temperature : -165 ~ 650°C ▪ Body Style : Globe, Angle, etc ▪ Actuator Style : Pneumatic, Hydraulic, Motor ▪ Leakage : ANSI Class IV or V
Performance and Quality	<ul style="list-style-type: none"> ▪ Competitive price <ul style="list-style-type: none"> - 100% manufactured by original domestic technology(foreign technique 0%) - Approximately 65%~77% of global competitors' prices ▪ Competitive quality <ul style="list-style-type: none"> - Excellent Products proven in actual use at domestic thermal power plants and nuclear power plants

Replacement of foreign products in Korea (2010~2014)

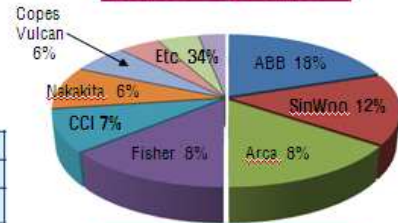
Replacement rate of foreign products (90%)



Leslie	234	Arca	28	ABB-Kent	57
Nakakita	19	Copes Vulcan	21	Dresser	21
CCI	45	Valtec	13	Fisher	25
Key Valve	8	Hopkinson	5	Sin Woo	46
Framatome	2	Blakeborough	3	Total 527 units(2010-2014)	



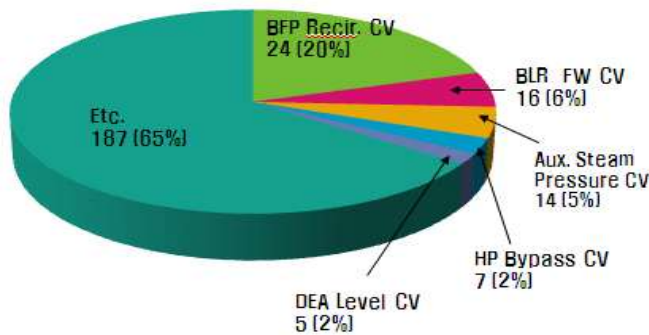
Nuclear power plants : 240 units



Thermal power plants : 287 units

Improvement of foreign products at thermal power plants in Korea (2010~2014)

Control valve improvement at thermal power plants



Total 287 units

Function	Amount
Boiler Feed Pump Recirculation CV	58
Boiler High Pressure Feed Water Control Valve	16
Steam Pressure Control Valve	14
High Pressure Turbine Bypass Control Valve	7
Deareaator Level Control Valve	5
Others	187
Total	287

Image



HP Steam By-Pass Valve



ANSI Class 4,500 pressure control valve at Yeongheung thermal power plant in Korea



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