



# 流量放大器(氮氣平衡閥)

Air Volume Booster( Nitrogen Balance Valve)

PR-3/4"、PR-2"



## 產品特色 Features

- ◆ SUS304 不銹鋼閥體，堅固耐用 SUS304 stainless steel body, durable.
- ◆ 高溫耐熱膜片，可承受間歇性高溫氣體衝擊 High-temp diaphragm resists heat impact.
- ◆ 大流量設計，響應速度快 High flow, fast response.
- ◆ 具自動溢流功能，無需旁通迴路溢流 Self-relief design, no bypass needed.

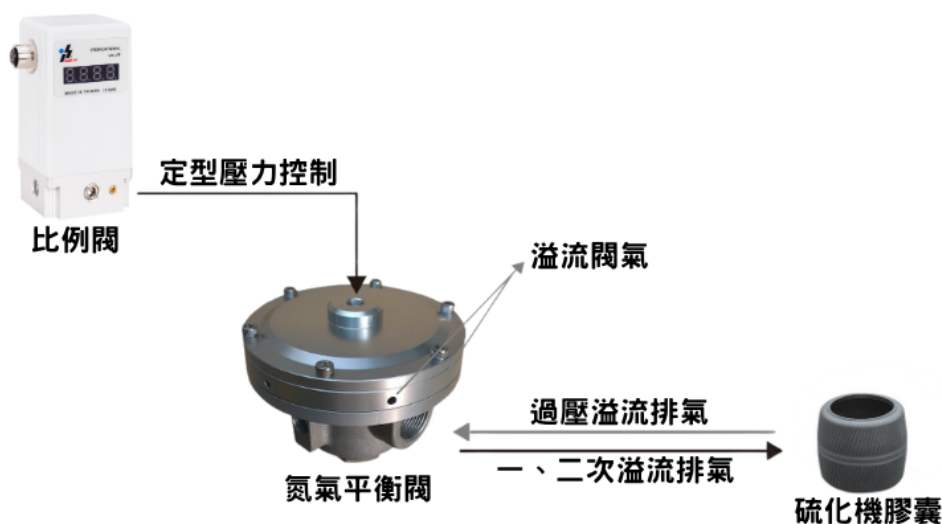
輪胎硫化機的氮氣硫化系統，主要利用氮氣進行胎胚的一次與二次定型。高鹿的氮氣平衡閥內建自動溢流功能，在氣壓控制設定下，能精準調節定型壓力，不同於一般自力式調節閥在二次定型時需額外設置旁通溢流迴路，可在二次定型階段自動釋放膠囊受壓所產生的過壓，維持設定壓力穩定，確保硫化品質一致。

此閥專為硫化機氮氣定型迴路設計，具備穩定、精準與安全的壓力控制性能。

The nitrogen vulcanization system of the tire vulcanizing machine mainly uses nitrogen for the first and second shaping of the tire bladder. Kaolu's Nitrogen Balancing Valve is equipped with a built-in automatic relief function, allowing precise adjustment of the shaping pressure under a controlled pressure setting.

Unlike conventional self-operated control valves that require an additional bypass relief circuit during the second shaping stage, Kaolu's valve can automatically release excess pressure generated inside the bladder during secondary shaping, maintaining stable set pressure and ensuring consistent vulcanization quality.

This valve is specially designed for the nitrogen shaping circuit of vulcanizing machines, featuring stable, precise, and safe pressure control performance.





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### 產品規格 Specifications

型號 Model	PR-3/4"	PR-2"
結構特點 Design	先導驅動式溢流平衡調壓閥 Pilot-Operated Overflow Balance Regulator	
適用範圍 Application	先導控制實現大型管道的高精度壓力調節 Precise Pressure Regulation for Large Pipelines with Pilot Control	
適用介質 Working Medium	經過濾的壓縮空氣/氮氣(潤滑或未潤滑) Filtered compressed air/nitrogen(lubricated or non-lubricated)	
過濾精度 Filtration Grade	< 40um	
流量 Flow Rate	6000L/min	
溢流流量 Overflow Rate	1050L/min	
最大輸入壓力 Max. input Pressure	10 Bar	
輸出壓力 Output Pressure	0.2~8 Bar	
控制/輸出壓力比 Output Ratio	1:1	
比率精度 Accuracy	±2.5%	
安裝型式 Type of mounting	管道式 In-line	
口徑 Port Size	G3/4"	G2"
先導接口 Pilot Air Connection	G1/4"	G1/8"
壓力錶接口 Gauge Connection	G1/4"	G1/4"
環境溫度 Environment Temperature	-10~60°C	
介質溫度 Medium Temperature	-20~120°C	
材料 Material	閥體：SUS304 / 密封件：FKM / 頂蓋：鋁合金 Body: Stainless, Seal: FKM, Cover: Aluminum	
重量 Weight	2.3 KG	6.8 KG