



流量放大器(氮气平衡阀)

Air Volume Booster(Nitrogen Balance Valve)

PR-3/4"、PR-2"



产品特点 Features

- ◆ SUS304 不锈钢阀体，坚固耐用 SUS304 stainless steel body, durable.
- ◆ 高温耐热膜片，可承受间歇性高温气体冲击 High-temp diaphragm resists heat impact.
- ◆ 大流量设计，响应速度快 High flow, fast response.
- ◆ 具自动溢流功能，无需旁通回路溢流 Self-relief design, no bypass needed.

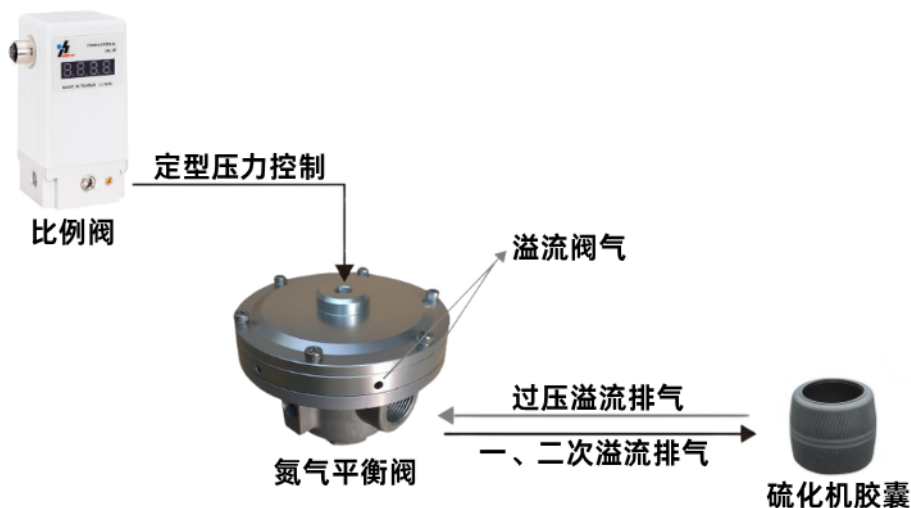
轮胎硫化机的氮气硫化系统，主要利用氮气进行胎胚的一次与二次定型。高鹿的氮气平衡阀内建自动溢流功能，在气压控制设定下，能精准调节定型压力，不同于一般自力式调节阀在二次定型时需额外设置旁通溢流回路，可在二次定型阶段自动释放气囊受压所产生的过压，维持设定压力稳定，确保硫化品质一致。

此阀专为硫化机氮气定型回路设计，具备稳定、精准与安全的压力控制性能。

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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产品规格 Specifications

型号 Model	PR-3/4"	PR-2"
结构特点 Design	先导驱动式溢流平衡调压阀 Pilot-Operated Overflow Balance Regulator	
适用范围 Application	先导控制实现大型管道的高精度压力调节 Precise Pressure Regulation for Large Pipelines with Pilot Control	
适用介质 Working Medium	经过滤的压缩空气/氮气(润滑或未润滑) Filtered compressed air/nitrogen(lubricated or non-lubricated)	
过滤精度 Filtration Grade	< 40um	
流量 Flow Rate	6000L/min	
溢流流量 Overflow Rate	1050L/min	
最大输入压力 Max. input Pressure	10 Bar	
输出压力 Output Pressure	0.2~8 Bar	
控制/输出压力比 Output Ratio	1:1	
比率精度 Accuracy	±2.5%	
安装型式 Type of mounting	管道式 In-line	
口径 Port Size	G3/4"	G2"
先导接口 Pilot Air Connection	G1/4"	G1/8"
压力表接口 Gauge Connection	G1/4"	G1/4"
环境温度 Environment Temperature	-10~60℃	
介质温度 Medium Temperature	-20~120℃	
材料 Material	阀体：SUS304 / 密封件：FKM / 顶盖：铝合金 Body: Stainless, Seal: FKM, Cover: Aluminum	
重量 Weight	2.3 KG	6.8 KG