



Air Volume Booster (Nitrogen Balance Valve)

PR-3/4" 、PR-2"



Features

- ◆ SUS304 stainless steel body, durable.
- ◆ High-temp diaphragm resists heat impact.
- ◆ High flow, fast response.
- ◆ Self-relief design, no bypass needed.

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.

Specifications

Model	PR-3/4"	PR-2"
Design	Pilot-Operated Overflow Balance Regulator	
Application	Precise Pressure Regulation for Large Pipelines with Pilot Control	
Working Medium	Filterd compressed air/nitrogen(lubricated or non-lubricated)	
Filtration Grade	< 40um	
Flow Rate	6000L/min	
Overflow Rate	1050L/min	
Max. input Pressure	10 Bar	
Output Pressure	0.2~8 Bar	
Output Ratio	1:1	
Accuracy	±2.5%	
Type of mounting	In-line	
Port Size	G3/4"	G2"
Pilot Air Connection	G1/4"	G1/8"
Gauge Connection	G1/4"	G1/4"
Environment Temperature	-10~60°C	
Medium Temperature	-20~120°C	
Material	Body: Stainless, Seal: FKM, Cover: Aluminum	
Weight	2.3 KG	6.8 KG



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