

# APPLICATION NOTE A061-GP99 - BURNER CONTROL

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## BURNER CONTROL

**Bronkhorst offers mass flow meters with a close coupled motorized valve for integrated control of flows up to 5000 l/min. Our digital D-6300 MASS-STREAM series is available with several options like a multi-functional display or additional interfaces.**

In burner controls and similar applications customers need to maintain the gas supply even in case of complete power failures to avoid expensive oven shut-downs etc. The valve stays in position (= fails in place) in case of a power blackout. These applications often do not need high control speed from 'fully closed' to 'fully open' due to 365 days - 24 hour steady continuous process. So the control speed is sufficient in comparison to direct operated valves. These control valves are not shut-off valves and they are not 100% gastight.



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### Application requirements

- Valve should 'stay in position' in case of a power failure
- Flows up to 5000 l/min Air equivalent
- 24 h steady continuous process
- Kv value up to 4.4
- Pmax = 16 bar (g)

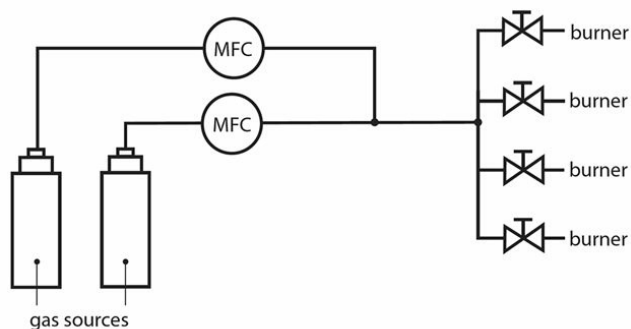
### Optional features

- Multi-functional display
  - Additional interface
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# Process solution

## Industrial sectors

- Glass
- Ceramics
- Metal
- Waste incineration
- Heat treatment
- Burner
- ...



Schematical drawing

## Summary of valve features

- Two models available: standard / degreased (for oxygen)
- $\Delta P_{max}$ : 16 bar(d)
- Body material: Brass
- Classification: IP54
- Valve function: Stays in position
- Motor replaceable without disassembling

Would you like more information about the direct through-flow?

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## Recommended Products



### MASS-STREAM D-6383/BJ-1 MFC

- Min. flow 17...500 l/min
- Max. flow 167...5000 l/min
- Pressure rating up to 16 bar
- Rugged sensor and housing (IP65)
- Optional integrated TFT display



### MASS-STREAM D-6380 MFM

- Min. flow 10...500 l/min
- Max. flow 50...5000 l/min
- Pressure rating up to 20 bar
- Rugged sensor and housing (IP65)
- Optional integrated TFT display



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