4.6 Gases and accessories

4.6.1 Gas types

In standard systems, nitrogen, argon or helium can be used as gas types. For regeneration gas, **MBRAUN** recommends always using the same gas type as the operating and purge gas. If argon is the operating gas, then argon should be used as purge gas and an argon/hydrogen mixture should be used as regeneration gas.

! Gas type: in general, only the gases named above may be used.

Other gas mixtures - including those with carbon dioxide and hydrogen - are possible. However, this requires special system preparations by **MBRAUN**, which are not a component of a standard system.

NOTICE

Exceeding the concentration of hydrogen in the regeneration gas of > 10% is not permitted!.

► *Heed the safety instructions in the chapter Safety, risks when handling gases.*

4.6.2 Working gas

Working gas	Type / mass	Use
Gas type	Nitrogen, Argon or Helium	▪ Construction and maintenance of the pure gas atmosphere: pressure regulation and purging of the box ▪ Valve control: pressure gas for electropneumatic valves and pneumatic controller
Purity	Medium purity from bottles or other supply equipment (recommended: 4.8 or better)	
Quantity	Constant supply for operation of the system	
Accessories		
Pressure reducing valve		Pressure regulation of the operating gas
Pressure	200 bar (20 MPa) primary,5.5-6.0 bar (0.55 – 0.6 MPa) secondary	
Flow	Flow rate 250 l/min	
Connection	Ø 10 mm compression-type fitting	
Supply line		Connection of the gas source with the system connection operating gas IN
Material	Ø 10 mm stainless steel pipe	
Connection	Ø 10 mm compression-type fitting	
Length	Optional (length as required):	