

Test values SCBA

Mask

Type		Positive pressure	Negative pressure
		G1 Ultra Elite 3S	Ultra Elite 3S
Tightness test (valve disc moistened) (time = 60 sec.)	<i>Setpoint</i>	- 10 mbar	- 10 mbar
	<i>Allowed pressure change</i>	≤ 1,0 mbar	≤ 1,0 mbar
Opening pressure of exhalation valve (flow 10 l/min)	<i>Exhalation resistance</i>	≥ 4,2 mbar to ≤ 6,0 mbar	
Test of thread- or plug-in connection with plug gauge		Recommended for screwed connection	recommended
Visual inspection		Yes	Yes

subject to change without notice.

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Pressure reducer



Test		Type	M1 G1 AirGo AirMaXX BD 96		BD 296 AirGo 200		BD 96 mini	PremAire Combination	PremAire Escape	PremAire Escape KZ
			Setpoint		300 bar		200 bar	300 bar	300 bar	
HP- tightness test Time = 60 sec.		<i>Setpoint</i>	300 bar		200 bar		300 bar	300 bar		
		<i>Allowed pressure change</i>	- 10 bar		- 10 bar		- 10 bar	- 10 bar		
Gauge check	1	<i>Setpoint</i>	300 bar		200 bar		280 bar	280 bar		
		<i>Max. deviation</i>	± 10 bar		± 10 bar		± 10 bar	± 10 bar		
	2	<i>Setpoint</i>	200 bar		130 bar		120 bar	120 bar		
		<i>Max. deviation</i>	± 10 bar		± 10 bar		± 10 bar	± 10 bar		
	3	<i>Setpoint</i>	70 bar		70 bar					
		<i>Max. deviation</i>	- 10 / + 5 bar		- 10 / + 5 bar					
Static medium pressure Time = 60 sec.		<i>High pressure ≥270 bar</i>	6 bar - 9 bar		6 bar - 9 bar HP ≥ 180 bar		6 bar - 9 bar	6 bar - 9 bar		
Dynamic MP ¹⁾ (40x2,5l/min t ≈ 15 sec.)		<i>High pressure ≥120 bar</i>	4.5 bar - 9 bar		4.5 bar - 9 bar		4.5 bar - 9 bar	4.5 bar - 9 bar		
Activation pressure warning signal		<i>Test value</i>	55 bar		55 bar		105 bar	30 bar	72 bar	
		<i>Max. deviation</i>	± 5 bar		± 5 bar		± 5 bar	± 5 bar		
HP- tightness ready for use test Time = 60 sec.		<i>Setpoint</i>	Nominal Cylinder pressure		Nominal Cylinder pressure		Nominal Cylinder pressure	Nominal Cylinder pressure		
		<i>Allowed pressure change</i>	- 10 bar		- 10 bar		- 10 bar	- 10 bar		

1) Dynamic test is NOT obligatory for standard/periodical test! Only after overhaul is mandatory!

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Special test PremAire:

1. Charge the PremAire cylinder to
 - 130 bar (PremAire Combination and PremAire Combination KZ)
 - 70 bar (PremAire Escape)
 - 110 bar (PremAire Escape KZ with 3 liter cylinder)
2. Connect DV to the PremAire and discharge air until warning whistle starts.
3. Continue charging up 300 bar (check gauge progressively).
4. Test of static medium pressure: connect to medium pressure test gauge, open valve entirely, test static medium pressure (dynamic MP test is NOT obligatory).

Special test MicroMaXX:

1. Charge the MicroMaXX cylinder to 100 bar.
2. Connect DV to the MicroMaXX and discharge air until warning whistle starts.
 - Activation pressure 72 bar \pm 5 bar
3. Continue charging up 300 bar (check gauge progressively).
4. Test of static medium pressure at 300 bar: connect to medium pressure test gauge with adapter kit, open valve entirely, test static medium pressure. Medium pressure must be between 7.0 to 10.0 bar (dynamic MP test is NOT obligatory).
5. Close valve again, check medium pressure after 1 min: Medium pressure must be between 7.0 to 10.0 bar.

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Lung Governed Demand Valve

Test		Type	Positive pressure		Negative pressure
			M1 G1 AutoMaXX	LA 96	AutoMaXX LA 96
Obligatory test	DV tightness test (positive test pressure)	<i>Setpoint</i>	+ 7,5 mbar	+ 7,5 mbar	+ 7,5 mbar
	without medium pressure (Time = 60 sec.)	<i>Allowed pressure change</i>	≤ 1,0 mbar	≤ 1,0 mbar	≤ 1,0 mbar
	DV tightness test (negative test pressure)	<i>Setpoint</i>			- 7,5 mbar
	without medium pressure (Time = 60 sec.)	<i>Allowed pressure change</i>			≤ 1,0 mbar
	DV tightness test with medium („DV – creep“) (Time = 60 sec.)	<i>Setpoint</i>	0,0 mbar	0,0 mbar	0,0 mbar
		<i>Allowed pressure change</i>	± 1,0 mbar	± 1,0 mbar	± 1,0 mbar
	Opening pressure (with 10 l/min constant suction)				≥ - 3,5 mbar to ≤ - 0,5 mbar
Obligatory test	Activation pressure without mask		≤ - 7,5 mbar	- 7,5 to - 26,5 mbar	
	Activation pressure with mask			- 10 to - 29,0 mbar	
Obligatory test	Closing pressure (snap-reading method)		≥ + 1,0 to ≤ + 3,9 mbar	≥ + 2,0 to ≤ + 3,9 mbar	
See note below ^{4) 5)}	Breathing resistance (with 40 x 2,5 l/min)		> 0 to ≤ 10 mbar	> 0 to ≤ 10 mbar	≥ -10 mbar ≤ + 7 mbar

4) The lung simulator test **MUST** be done if the valve setting has been changed or the valve itself has been replaced by another or new one (i.e. repair or overhaul)!

5) The breathing simulation on dynamic test benches will only compare the lowest inhalation values.

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