

Casing leakage test sheet

Test setup	
Date	1-10-2014
Exp. Date	1-10-2017
Place	Barcol-Air
measure temperature	22 [°C]
Atmospheric pressure	1,023 [hPa]
Correctionfactor	1,003
Reference nr.	LM-14.0086
Tested by	J.V.
Witness by	B.S.

Contact information	
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Model (Name/Type):	Circular control valve with manual locking device model 100 type AD30MOO/AD30SOO	Result:	Class D
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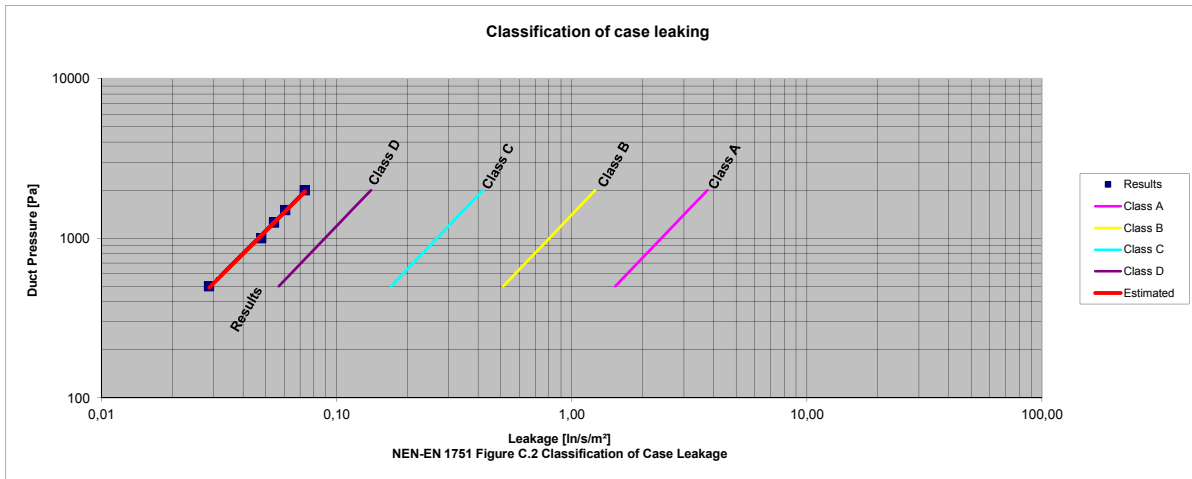
Products specifications	
Productcode	AD30.OO
Model	100
Case Width	[m]
Case Height	[m]
Case Diameter	0,100 [m]
Case Length	0,105 [m]
Real Duct surface	0,033 [m²]
Virtual Duct surface	0,314 [m²]
Note:	When Case Length < 1m; 1m is used in calculations as specified by LUKA.

Measurement specifications		
Pressure time	60 seconds	
Pressure controller	PR-41X/20mbar/81955.50	
Airflow meter(s)	Low Flow	F-111B-20K-RAD-00-V
	High Flow	F-112AC-M20-RAD-55-V
Rated Accuracy	Pressure Ctrl	± 0,05%Rd + 0,093%FS
	Low Flow	± 0,5%Rd + 0,1%FS
Date calibrated	High Flow	± 0,5%Rd + 0,1%FS
	Pressure Ctrl	24-10-2013
Date calibrated	Low Flow	15-10-2013
	High Flow	3-10-2013

The leakage is measured in normal liters (= 1liter at 0°C and 101325 pa)

NEN-EN 1751	
Max. Leakagefactor [ln/s/m²]	
Class A	0,027
Class B	0,009
Class C	0,003
Class D	0,001
$\Phi L = f \times P_s^{0,65}$	
$\Phi L =$ Leakage [ln/s/m²]	
$f =$ Leakagefactor	
$P_s =$ Static Pressure	

Measurements and calculations						LUKA standards					Estimated class
Reading	Measure instrument	Static pressure [Pa]	Leakage [ln/s]	Leakage duct surface [ln/s/m²]	Corrected at 20°C [l/s/m²]	Product tightness factor [-]	Class A [ln/s/m²]	Class B [ln/s/m²]	Class C [ln/s/m²]	Class D [ln/s/m²]	
1		500	0,009	0,03	0,03	0,000506	1,53	0,51			Class D
2		1000	0,015	0,05	0,05	0,000537		0,80	0,27	0,09	Class D
3		1250	0,017	0,05	0,05	0,000527			0,31	0,10	Class D
4		1500	0,019	0,06	0,06	0,000523			0,35	0,12	Class D
5		2000	0,023	0,07	0,07	0,000525			0,42	0,14	Class D



Other results	
Visual deformation	no
Pressure [Pa]	2000

As the tested model is the smallest model of this product range, the same classification result (or better) is valid for all bigger models.

Approved and certified by
Certificate nr.
89204853.1



Calibration certifications nr.
Low Flow BHTG22/1528974
High Flow BHTG22/1523091
Pressure ctrl not specified