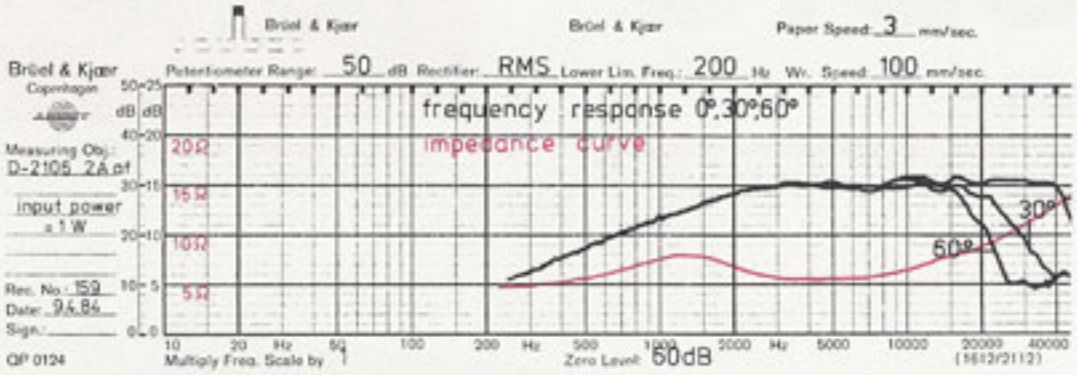
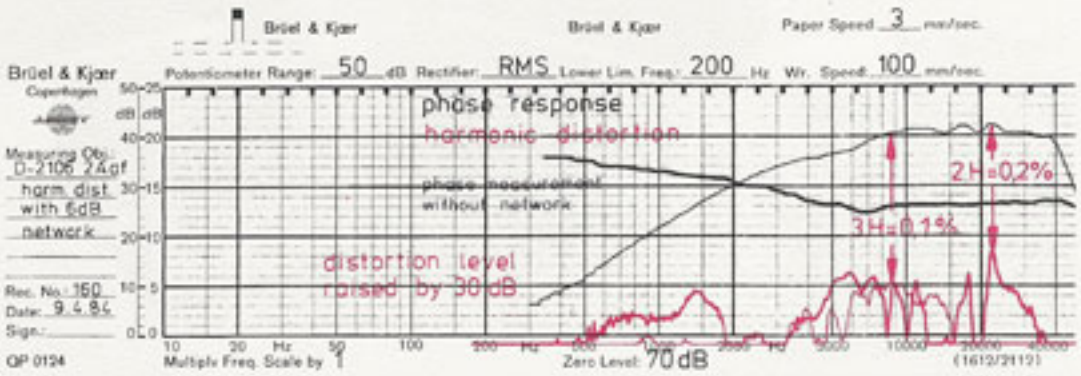
DYNAUDIO®

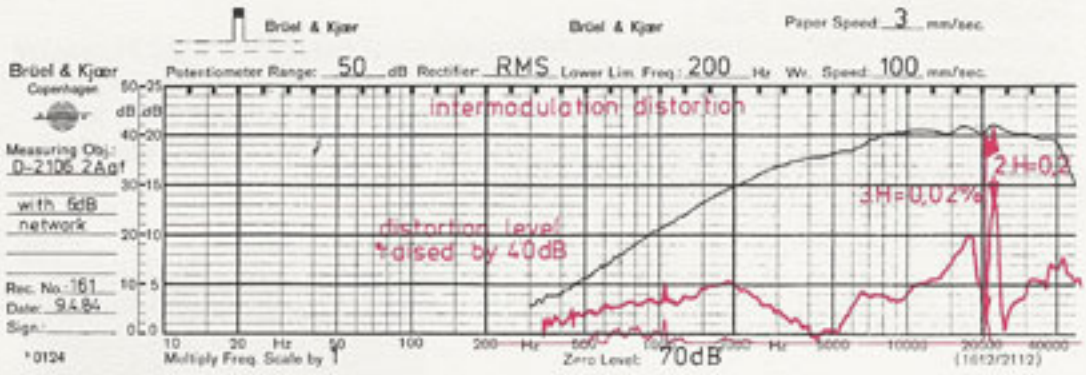
D-21 AF



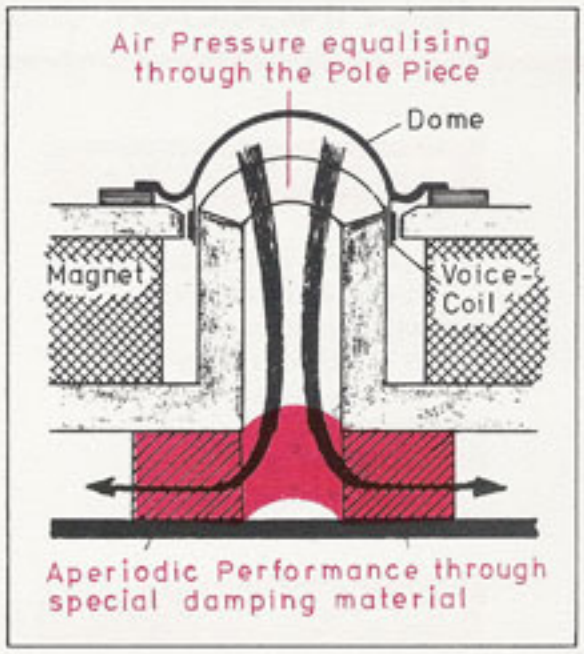
Frequency response from 3.000 up to 40.000 Hz ± 1 dB!! The impedance curve shows the resonance well damped.



The acoustically measured phase indicates no jumps. The harmonic distortions are very low figures.



Level had to be raised by 40 dB (!)



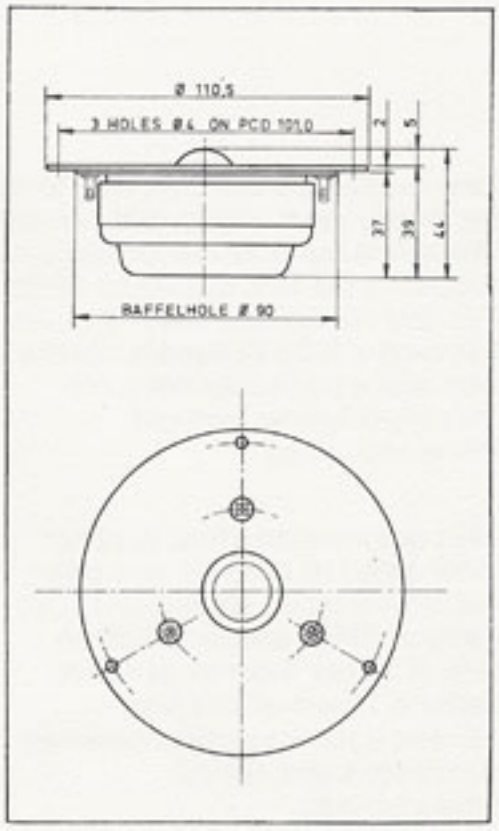
The advantages of the aperiodic damping are consequently applied to all DYNAUDIO dome constructions and may be achieved to all cabinet enclosures by using the VARIOVENT. Aperiodic damping may be compared with a shock absorber in a motor car. Physically the aperiodic damping acts like a DC-resistance in the oscillating circuit.

Compliance:				
suspension	C_{ms}	–		
acoustic	C_{as}	–		
equivalent volume	V_{as}	–		
Cone:				
eff. cone area	S_D	4,9	cm^2	
moving mass	M_{ms}	0,24	g	
lin. volume displacement	V_d	3,4	cm^3	
mech. resistance	R_{ms}			
lin. excursion P–P	X_{max}	0,7	mm	
max. excursion P–P		2	mm	
*Frequency response:		1500-45000	Hz	
Harmonic distortion:		< 0,2	%	
Intermodulation distortion:		< 0,2	%	
Magnetsystem:				
total gap flux		280	µWb	
flux density		1,75	Tesla	
gap energy		125	mWs	
force factor	BxL	4,01	Tm	
air gap volume	V_g	0,11	cm^3	
air gap height		2,5	mm	
air gap width		0,65	mm	
Net weight:		0,55	kg	

Overall dimensions:		Ø 110 x 42 mm	
Power handling:			
*nominal	DIN	600	W
*music	DIN	1200	W
transient	10 ms	1000	W
Q-factor:			
mechanical	Q_{ms}	0,62	
electrical	Q_{es}	1,21	
total	Q_{ts}	0,41	
Resonance frequency free air:	f_s	1300	Hz
Sensitivity:	1W/1m	91	dB
Voice coil:			
diameter	d	21	mm
length	h	3,2	mm
layers	n	2	
inductance (1 kHz)	L_e	0,08	mH
nom. impedance	Z_{VC}	8	Ω
min. impedance*	Z_{min}	6,4	Ω
DC resistance	R_e	5,3	Ω

Data given are as after 30 hours of running

*Depends on cabinet construction



*Thiele/Small parameters are measured not statically but dynamically

All specifications subject to change without notice