



Ningbo Free Trade Zone Tenso Medical Instruments Co., Ltd.

Technical Specification of Stethoscope				Doc No:	QR-7.3-01-10	
Product description: Teaching stethoscope		Model No: DIA01024 （ 9601.11.017 ）		Reversion No:	A/0	
1. Application		Teaching stethoscope DIA01024				
2. Standard& regulatory references		YY91035-1999				
3. Requirements of components& assembly	Assembly Description	Component Name	Specification	Material	Surface Treatment	Qty
	Chest Piece Assembly	Chest Piece	Φ43.5*0.75 mm	Aluminum alloy	Oxidation	1
		Connector-pipe	External diameter: Φ 6.8±0.03mm, Length:48.0±0.5mm	Zinc alloy	Plating	1
		Spring	External diameter:Φ1.9*3.2mm	Steel		1



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		Marble	Diameter: $\Phi 2.0\text{mm}$	Steel		1
		Spring	External diameter: $\Phi 6 \times 0.45\text{mm}$	Steel		1
		Diaphragm	External diameter: $\Phi 43.5 \pm 0.5\text{mm}$ Thickness : $0.34 \pm 0.03\text{mm}$	PP+ Non-woven fabric		1
		O-ring	External diameter: $\Phi 46 \pm 0.5\text{mm}$	Aluminium alloy	Oxidation	1
	Binaural Assembly	binaural	External diameter: $\Phi 5 \pm 0.1\text{mm}$, Thickness: 0.38mm	aluminum	Plating	1 x2
		Ear tip	Height: $14.0 \pm 0.1\text{mm}$, External diameter: $\Phi 12.1 \pm 0.1$	PVC		2x2
		Spring	5mm	Steel	Plating	1 x2
	Tubing	Y-tubing	Weight: $35 \pm 5\text{g}$, Length: $620 \pm 10\text{mm}$	PVC		1 x2
		straight tubing	$15\text{cm} \pm 10$	PVC		1



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4. Functional	Function description	Acceptance criteria.
Performance requirements	Sound transmission performance	The heartbeat can be heard clearly when the chest piece is put on the chest. And the electro-acoustic analysis results should be as follows: In the range of 100-500Hz, the pad value should not be over 12 dB. In the range of 500-1000Hz, the pad value should not be over 20 dB.
	Adjustability and flexibility of binaural	Should not be too stiff to be adjustable, or should not be loose to be wearable.
	Resilience of Binaural	The distortion of binaural-spring should not be over 10 mm after the binaural pulling open 180 degrees and then releasing and restoring naturally again