

# ISO 4135:2022-01 (D/E/F)

Anästhesie- und Beatmungsgeräte - Begriffe

Anaesthetic and respiratory equipment - Vocabulary

Matériel d'anesthésie et de réanimation respiratoire - Vocabulaire

---

## Contents/Sommaire/Inhalt

Page

Foreword .....	v
Introduction .....	vi
<b>1</b> <b>Scope .....</b>	<b>1</b>
<b>2</b> <b>Normative references .....</b>	<b>1</b>
<b>3</b> <b>Terms and definitions .....</b>	<b>1</b>
<b>3.1</b> <b>General concepts .....</b>	<b>1</b>
<b>3.1.1</b> <b>Properties of gases and materials .....</b>	<b>1</b>
<b>3.1.2</b> <b>Properties of equipment .....</b>	<b>4</b>
<b>3.1.3</b> <b>Metrology concepts .....</b>	<b>5</b>
<b>3.1.4</b> <b>Equipment components .....</b>	<b>7</b>
<b>3.1.5</b> <b>Physiological terms .....</b>	<b>14</b>
<b>3.1.6</b> <b>Use environment and workflow .....</b>	<b>16</b>
<b>3.2</b> <b>Medical gas supply systems .....</b>	<b>18</b>
<b>3.2.1</b> <b>Pipeline systems .....</b>	<b>18</b>
<b>3.2.2</b> <b>Terminal units .....</b>	<b>21</b>
<b>3.2.3</b> <b>Low-pressure hose assemblies for use with medical gases .....</b>	<b>22</b>
<b>3.2.4</b> <b>Pressure regulators .....</b>	<b>22</b>
<b>3.2.5</b> <b>Gas cylinders and accessories .....</b>	<b>23</b>
<b>3.3</b> <b>Anaesthetic machines and workstations .....</b>	<b>24</b>
<b>3.3.1</b> <b>General terms .....</b>	<b>24</b>
<b>3.3.2</b> <b>Components .....</b>	<b>25</b>
<b>3.4</b> <b>Ventilators and resuscitators .....</b>	<b>26</b>
<b>3.4.1</b> <b>General terms .....</b>	<b>26</b>
<b>3.4.2</b> <b>Ports .....</b>	<b>28</b>
<b>3.4.3</b> <b>Pressures .....</b>	<b>28</b>
<b>3.4.4</b> <b>Flowrates .....</b>	<b>28</b>
<b>3.5</b> <b>Oxygen therapy delivery systems .....</b>	<b>29</b>
<b>3.5.1</b> <b>Liquid oxygen systems .....</b>	<b>29</b>
<b>3.6</b> <b>Breathing systems .....</b>	<b>29</b>
<b>3.6.1</b> <b>General terms and classification .....</b>	<b>29</b>
<b>3.6.2</b> <b>Adaptors .....</b>	<b>31</b>
<b>3.6.3</b> <b>Valves .....</b>	<b>31</b>
<b>3.7</b> <b>Humidifiers, nebulizers and moisture exchangers .....</b>	<b>32</b>
<b>3.7.1</b> <b>General terms .....</b>	<b>32</b>
<b>3.7.2</b> <b>Humidifiers .....</b>	<b>32</b>
<b>3.7.3</b> <b>Nebulizers .....</b>	<b>33</b>
<b>3.7.4</b> <b>Heat and moisture exchangers .....</b>	<b>34</b>
<b>3.8</b> <b>Airways, tracheal tubes, tracheostomy tubes and intubation equipment .....</b>	<b>34</b>
<b>3.8.1</b> <b>General .....</b>	<b>34</b>
<b>3.8.2</b> <b>Pharyngeal airway .....</b>	<b>35</b>
<b>3.8.3</b> <b>Tracheal tubes .....</b>	<b>35</b>
<b>3.8.4</b> <b>Bronchial tubes and blockers .....</b>	<b>37</b>
<b>3.8.5</b> <b>Tracheostomy tubes .....</b>	<b>37</b>

3.8.6	Masks and cannulae .....	38
3.8.7	Voice prostheses .....	39
3.8.8	Laryngoscopes .....	39
3.9	Anaesthetic gas scavenging and plume evacuation systems .....	39
3.9.1	General terms .....	39
3.10	Suction devices .....	43
3.10.1	General terms .....	43
3.10.2	Suction equipment .....	44
3.10.3	Suction catheters for the respiratory tract .....	44
3.11	Monitoring .....	45
3.11.1	General terms .....	45
3.11.2	Gas monitors .....	46
3.11.3	Pulse oximeters .....	47
3.11.4	Thermometers .....	48
3.11.5	ECG equipment .....	48
3.11.6	Sphygmomanometers .....	51
3.11.7	Transcutaneous gas monitors .....	52
	Bibliography .....	53
	Index .....	54