

# DIN EN 137:2007-01 (E)

## Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Description .....	7
5	Classification .....	7
6	Requirements .....	7
6.1	General .....	7
6.2	Ergonomics .....	7
6.3	Design .....	7
6.4	Materials .....	8
6.5	Cleaning and disinfecting .....	9
6.6	Mass .....	9
6.7	Connections .....	9
6.8	Full face mask .....	10
6.9	Body harness .....	10
6.10	Practical performance .....	10
6.11	Resistance to temperature and flammability .....	11
6.12	Protection against particulate matter .....	12
6.13	High and medium pressure parts .....	12
6.14	Pressure vessel(s) .....	12
6.15	Pressure vessel valve(s) .....	12
6.16	Pressure reducer .....	13
6.17	Pressure indicator and tube .....	13
6.18	Warning device .....	14
6.19	Flexible hoses and tubes .....	15
6.20	Lung governed demand valve .....	15
6.21	Breathing resistance .....	16
6.22	Static pressure .....	17
6.23	Leak-tightness .....	17
6.24	Pre-conditioning .....	18
7	Testing .....	18
7.1	General .....	18
7.2	Nominal values and tolerances .....	18
7.3	Visual inspection .....	18
7.4	Resistance to temperature and flammability .....	18
7.5	Pressure reducer .....	21
7.6	Warning device .....	21
7.7	Leak-tightness .....	21
7.8	Water immersion .....	22
7.9	Strength of connections to full face mask, demand valve and breathing hose (if fitted) .....	22
7.10	Resistance to collapse of breathing hose .....	22
7.11	Practical performance .....	23
7.12	Breathing resistance .....	23

<b>8</b>	<b>Marking .....</b>	<b>24</b>
<b>9</b>	<b>Information supplied by the manufacturer .....</b>	<b>24</b>
	<b>Annex A (normative) Second medium pressure connector .....</b>	<b>32</b>
<b>A.1</b>	<b>General .....</b>	<b>32</b>
<b>A.2</b>	<b>Requirements .....</b>	<b>32</b>
<b>A.3</b>	<b>Information supplied by the manufacturer .....</b>	<b>33</b>
	<b>Annex B (normative) Ambient air bypass device .....</b>	<b>34</b>
<b>B.1</b>	<b>General .....</b>	<b>34</b>
<b>B.2</b>	<b>Requirements .....</b>	<b>34</b>
<b>B.3</b>	<b>Information supplied by the manufacturer .....</b>	<b>34</b>
	<b>Annex C (normative) Requirements for static and dynamic pressure for apparatus with thread connector in accordance with EN 148-3 .....</b>	<b>35</b>
<b>C.1</b>	<b>General .....</b>	<b>35</b>
<b>C.2</b>	<b>Static pressure .....</b>	<b>35</b>
<b>C.3</b>	<b>Dynamic pressure .....</b>	<b>35</b>
<b>C.4</b>	<b>Exhalation valve .....</b>	<b>35</b>
<b>C.5</b>	<b>Testing of dynamic pressure .....</b>	<b>36</b>
	<b>Annex D (informative) Marking .....</b>	<b>37</b>
	<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC (PPE) .....</b>	<b>38</b>
	<b>Bibliography .....</b>	<b>41</b>