ISO 407:2023-07 (E)

Small medical gas cylinders - Pin-index yoke-type valve connections

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Valve 1

5 Yoke 2

6 Basic dimensions 2
6.1 General 2
6.2 Pin-index yoke-type valve body 3
6.3 Single-pin yoke-type valve connection system 4
6.4 Two-pin yoke-type valve connection system with the pins in a single row 4
6.5 Two-pin yoke-type valve connection system with the pins in a double row 5
6.6 Basic dimensions 5

7 Requirements for alternative designs of yoke-type valve connections 6
7.1 Requirements for the design of the connecting yoke 6
7.2 Examples of alternative construction for the connecting yoke 6

8 Dimensions and positions of the holes and pins for yoke-type valve connections 9
8.1 General 9
8.2 Outlet connection with single-pin system 9
8.3 Outlet connections with two-pin/single-row system 10
8.3.1 Outlet connection for oxygen 10
8.3.2 Outlet connection for oxygen/carbon dioxide mixture (CO2 7 %) 11
8.3.3 Outlet connection for oxygen/helium mixture (He 80 %) 11
8.3.4 Outlet connection for ethylene 12
8.3.5 Outlet connection for nitrous oxide (with or without liquid draw-off) 12
8.3.6 Outlet connection for cyclopropane 13
8.3.7 Outlet connection for helium and for helium/oxygen mixture (O2 < 20 %) 13
8.3.8 Outlet connection for carbon dioxide (with or without liquid draw-off) and for carbon dioxide/oxygen mixture (CO2 > 7 %) 14
8.3.9 Outlet connection for medical air 14
8.3.10 Outlet connection for nitrogen 15
8.4 Outlet connection with two-pin/double-row system 15