

DIN EN ISO 407:2021-09 (E)

Small medical gas cylinders - Pin-index yoke-type valve connections (ISO 407:2021)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Valve	5
5	Yoke	6
6	Basic dimensions	6
6.1	General	6
6.2	Pin-index yoke-type valve body	7
6.3	Single-pin yoke-type valve connection system	8
6.4	Two-pin yoke-type valve connection system with the pins in a single row	8
6.5	Two-pin yoke-type valve connection system with the pins in a double row	9
6.6	Basic dimensions	9
7	Requirements for alternative designs of yoke-type valve connections	10
7.1	Requirements for the design of the connecting yoke	10
7.2	Examples of alternative construction for the connecting yoke	10
8	Dimensions and positions of the holes and pins for yoke-type valve connections	13
8.1	General	13
8.2	Outlet connection with single-pin system	13
8.3	Outlet connections with two-pin/single-row system	14
8.3.1	Outlet connection for oxygen	14
8.3.2	Outlet connection for oxygen/carbon dioxide mixture (CO 7 %)2	15
8.3.3	Outlet connection for oxygen/helium mixture (He 80 %)	15
8.3.4	Outlet connection for ethylene	16
8.3.5	Outlet connection for nitrous oxide (with or without liquid draw-off)	16
8.3.6	Outlet connection for cyclopropane	17
8.3.7	Outlet connection for helium and for helium/oxygen mixture (O < 20 %)2	17
8.3.8	Outlet connection for carbon dioxide (with or without liquid draw-off) and for carbon dioxide/oxygen mixture (CO > 7 %)2	18
8.3.9	Outlet connection for medical air	18
8.3.10	Outlet connection for nitrogen	19
8.4	Outlet connection with two-pin/double-row system	19