

Diameter/Index Safety System

Non-Interchangeable, Low-Pressure Fittings for Medical Gases, Medical air and Suctioning Conforming to C.G.A. Diameter Index Safety System ...

The DIAMETER-INDEX SAFETY SYSTEM was developed as a standard to provide non-interchangeable connections where removable, exposed, threaded connections are employed. It is used in conjunction with individual gas lines of medical gas administering equipment at pressures of 200 psig or less. This includes outlets from medical gas regulators and connectors for anesthesia, resuscitation and therapy apparatus. Removable threaded connections are those which are commonly and readily engaged or disengaged in routine use and service.

The DIAMETER-INDEX SAFETY SYSTEM supplements but does not replace the PIN-INDEX SAFETY SYSTEM* or any of the means for medical gas identification now in use. The prime objective is to provide a simple, effective system with minimum expense and confusion to equipment owners and manufacturers.

The fittings shown in this catalog are described and illustrated to provide as much information as possible to assist in the selection of the proper connections to be used for every application.

In place of diameter indexing, Oxygen (D.I.S.S. 1240) has been assigned the long established 9/16"-18 thread connection as its safety standard.

Each D.I.S.S. connection consists of a Body Adaptor, Nipple, and Nut (Fig. #1). As the diameter of the Body Adaptor (A & B) increases/decreases, the diameter of its mating nipple (C&D) increases/decreases proportionally. In this way, only the properly mated and intended parts fit together to permit thread engagement (Fig. #2.).

Each connection of the D.I.S.S. SAFETY SYSTEM consists of a Body, Nipple and Nut, designed specifically for various gases to achieve non-interchangeability between different connections.

The mating threads for each connection are standard and conform to basic critical dimensions. The variations on Body, Nipple and Nut are only adaptations to fit all applications. Nipples are in varying lengths with pipe threads or barbs, and nuts are provided with several design features. This, in no way, affects the basic safety features of the DIAMETER - INDEX SAFETY SYSTEM.

All D.I.S.S. fittings are machined to strict tolerances, from brass that meets all specifications of Government Agencies and Engineering Societies on Material content. Fittings are nickel-chrome plated under new modern techniques, producing a high quality finish and a product that meets all standards of the Safety System.

The PIN-INDEX SAFETY SYSTEM for flush-type medical gas cylinder valves has been adopted as the American and Canadian Standard as well as the International Standard. The system was developed to eliminate accidental substitution of the wrong gases on equipment utilizing yoke-type connections.

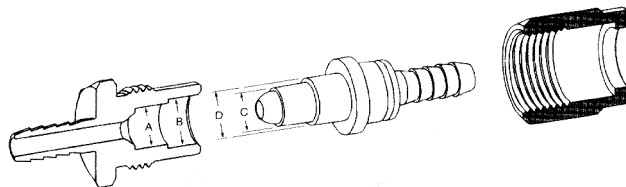


Fig. 1

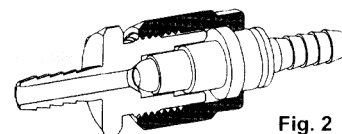


Fig. 2

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