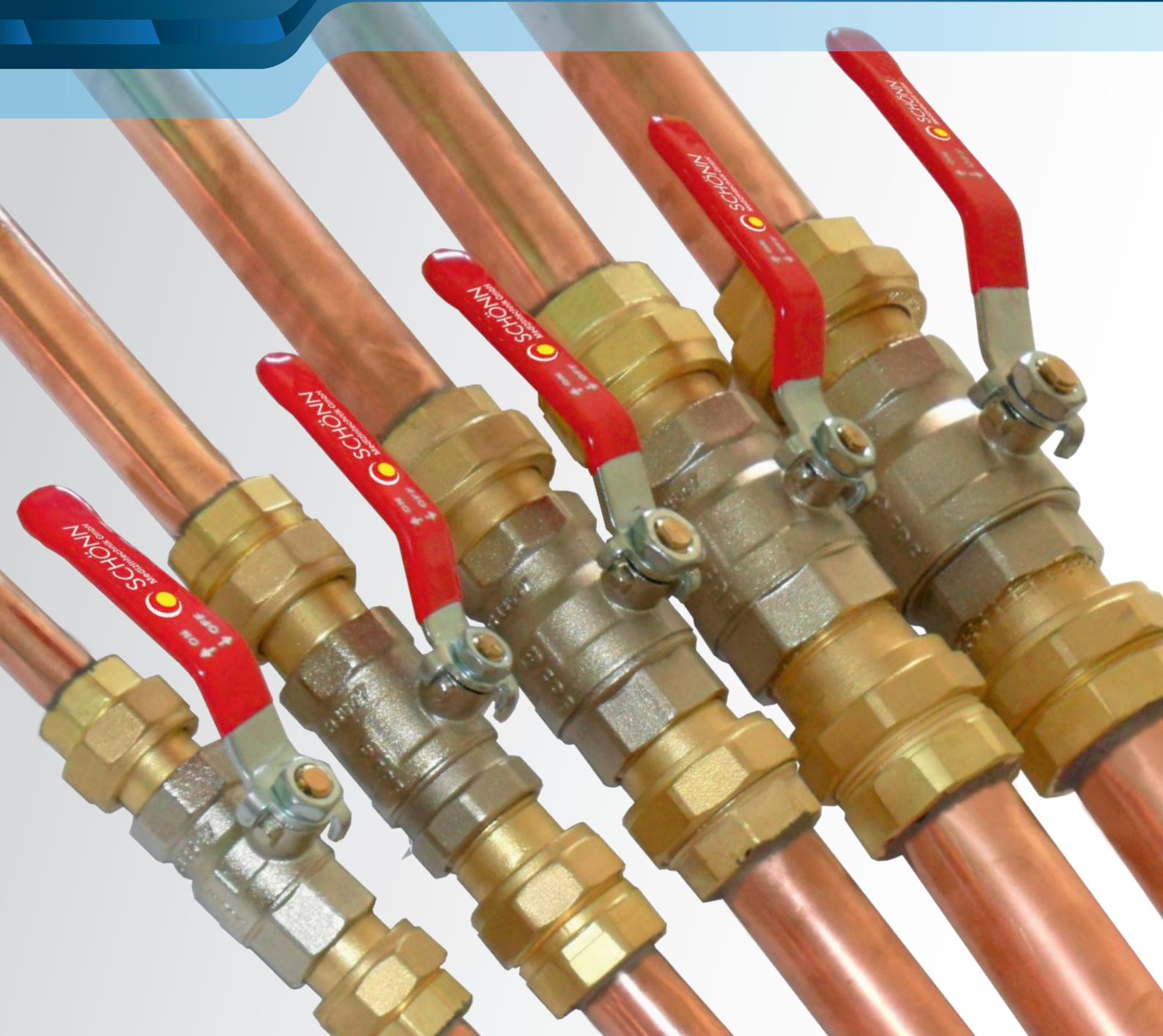




SCHÖNN
Medizintechnik GmbH

MEDICAL GAS LINE BALL VALVES



The Connect Medical Systems, Lockable Line Valve is suitable for new or existing applications, which require a system of secure but easily accessible medical gas isolation valves within a restricted area.

The unit is designed to be mounted directly into a medical or laboratory gas pipeline via the copper tail-pieces supplied, and located within wall or ceiling voids or anywhere that general access is restricted.

Valves can be provided with a blanking facility as a secondary means of isolation to provide a physical barrier to the gas supply in order to eliminate any risk of contamination during initial installation and upgrade.

Valves can be supplied with optional NIST fittings up and/or down stream, incorporating a 100% leak tight seal in the gas specific NIST connector. Other options include pressure switches, pressure gauges, and multiple valve boxes.

General Description

The SCHÖNN range of medical gas line ball valve assemblies is supplied for use in plant rooms and for isolating areas where zone service units are unnecessary.

Type V Valve Assemblies

Type V valve assemblies incorporate a bright nickel plated brass body, manufactured in two strong, well proportioned valves to provide an effective seal under pressure. A sliding locking mechanism is fitted to the handle which can be locked using a standard padlock with a 6mm (1/4") diameter shackle. Suitable padlocks can be supplied as required.

The ball is manufactured from brass with a chrome plated finish.

The thermal insulated stainless steel handle is both vibration and shock resistant. The valve body is specially finished to incorporate parallel threads which accommodate matching adaptors. Stainless steel 'Dowty' bonded seals are fitted between each adaptor and the valve body to form an effective seal.

Copper stub pipes with SCHÖNN fittings complete the assembly which is brazed direct into the distribution system using pipeline connectors supplied.

Type VF valve assemblies

Type VF valve assemblies incorporate a bright nickel plated brass body manufactured in three strong, well proportioned pieces which are bolted together to provide an effective seal under pressure.

The ball is manufactured from brass with a chrome plated finish.

The white painted operating lever is manufactured in galvanized steel and is both vibration and shock resistant. The ball valve body incorporates flanged fittings which are bolted to flanged sub-assemblies incorporating copper stub pipes. Stainless steel bolts, nuts and spring washers and 3mm thick Viton rubber gaskets are used in the installation. The copper stub pipes enable the assembly to be brazed direct into the distribution system.

MEDICAL GAS LINE BALL VALVES



- Meets the requirements of HTM 2022, HTM02-01, C11, ISO 7396 and European Standard EN 737-3.
- High quality, quarter turn ball valve with flanged or union connections.
- Supplied with copper tail pipes for ease of installation.
- Full bore valve offering excellent flow characteristics.
- Flat faced 'O Ring' sealing surfaces.
- Robust steel lever handle, plastic coated for comfort grip.
- Effective integral locking mechanism.
- Supplied with individual random keyed padlock providing additional security.
- Available in a range of standard sizes from 15mm to 108mm, other sizes on request.
- NIST connections fitted each side of valve if required as optional extra.
- 100% leak tightness. Single or multiple valve panel mounted options.
- Easy installation, unit is provided pre-piped with corresponding tail pipes.
- Unit may incorporate local pressure switches which can be connected to remote alarm system's where requested.

MEDICAL GAS LINE BALL VALVES

Design Specification

SCHÖNN Medical gas line ball valve assemblies are manufactured to the following design specification, fully tested prior to despatch and packaged individually to prevent damage during transit/storage.

Valve design specification

Design Pressure Type V: 3450 kPa (34.5 bar)

Design Pressure Type VF: 1600 kPa (16 bar)

Assembly design specification

Temperature range: Ambient

Working Pressure Type V: 2000 kPa (20 bar)

Working Pressure Type VF: 725 kPa (7.25 bar)

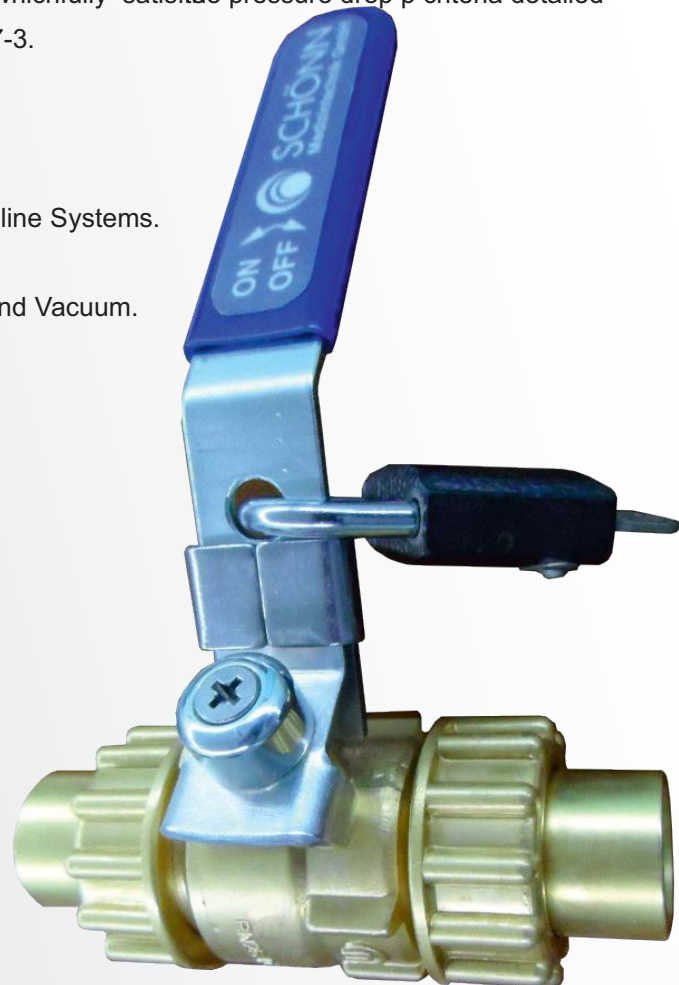
Performance

SCHÖNN Medical gas line ball valves provide a full bore flow, which fully satisfies the pressure drop criteria detailed in HTM 2022, HTM02-01, C11 and European Standard EN 737-3.

Designed to meet the requirements of

- HTM 02-01: Health Technical Memorandum Medical Gas Pipeline Systems.
- C11 NHS: Model Engineering Specification– Medical Gases.
- BS EN ISO 7396: Pipelines for Compressed Medical Gases and Vacuum.
- ASTM B280: Cleanliness Testing.
- Medical Device Directive 93/42/EEC (CE0086).

Size (mm)	Type	Bore (mm)
15	V	15
22	V	20
28	V	25
35	V	32
42	V	40
54	V	50
76	VF	78
108	VF	98



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