Cleanroom Technology

Series 8125 / GMP



8125 / GMP Cleanroom Technology

Cleanrooms

Production and fitting can, like surgical operations, be impaired by particles and germs, which are present in the atmosphere of the room.

For this reason sensitive processes and operations are carried out in special rooms or parts of rooms - the cleanrooms.

The particle concentration in the air of cleanrooms is held at a very low level.

This is done on the one hand using powerful ventilation plant with high performance filter systems, and by maintaining an overpressure in the cleanroom, and on the other hand by restricting particle emission from people and objects in the cleanroom.

Cleanroom Equipment from R. STAHL

Equipment from R. STAHL Schaltgeräte GMBH has been used successfully for many years in the cleanrooms of pharmaceutical plant, including BAYER and PFIZER.

The equipments and components possess exceptional properties in respect of their particle emission behaviour, their ease of cleaning and the ESD properties.

The surfaces of the devices correspond to the requirements of the following national and international standards for cleanrooms: Germany: VDI 2083

Europe: GMP Guideline of the EU

International: ISO 14644

USA: FS 209 E

Equipment in the Cleanroom

For this reason, equipment located in a cleanroom must have a series of special properties:

- Equipment surfaces must:
- be easy to clean
- not attract any dust particles
- restrict particle deposits to a minimum
- · Equipment material must:
- be resistant to the cleaning agents used
- not emit any particles into the room
- not emit any softener vapours
- behave neutrally to any micro-organisms





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8125 / GMP

WebCode 8125E



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STAHL

Socket Panel for Cleanrooms

Series 8125



- > Stainless steel enclosure (1.4404)
- > For flush mounting
 - to be mounted from frontside
 - To special order: mounting frame without fixing holes, enclosure with mounting rail for back panel fixing for installation on tiled walls
- > Equipped with 1 or 2 sockets 16 A or 32 A
- > Degree of protection IP65
- > Switch
 - with large handle
 - with auxiliary contact for control and signalling purpose



Socket outlet assemblies for use in cleanrooms are available in 2 sizes, for one or two socket-assemblies 16 A or 32 A.

The devices are easy to clean and anti-static.

The plugs and sockets in the CES system complay with European standards for plugs and sockets IEC/EN 60309 -1/ -2 (CEE) and European standards EN 60079-0 ff

The ability to plug the Ex-plug into Non-Ex-sockets is guaranteed, while operation of the Ex-socket using a Non-Ex-plug is reliably prevented.

FM (USA)

	ATEX / IECEx				x			Class I (NEC 505)		Class II (NEC 506)				Cla	ss l	Cla	ss II	Clas	ss III	
Zone	0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
For use in		х			х		For use in		х			х		For use in		х		Х		

Explosion Protection Marking **IFCE**_Y Ex d e IIC T6 Gas explosion protection Ex tD A21 IP65 T80°C Dust explosion protection Europe (ATEX) Gas explosion protection Dust explosion protection II 2 D Ex tD A21 IP6x T80°C Certificates **IECEx** IECEx PTB 06.0079 PTB 01 ATEX 1001 Europe (ATEX)

WebCode 8125E

Other certificates

Socket Panel for Cleanrooms

Series 8125

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Version	Certification	Socket assemblies		Order number				
		Number	Ausführung					
Socket panel Series 8125	ATEX	1	8800/231, 16 A	8125/5073-2A-UP 16A IEC				
			8800/232, 32 A	8125/5073-2A-UP 32A IEC				
		2	8800/231, 16 A	8125/5083-2D-UP 16A/16A IEC				
			8800/232, 32 A	8125/5083-2D-UP 32A/32A IEC				
			8800/231, 16 A 8800/232, 32 A	8125/5083-2D-UP 32A/16A IEC				
	USA	1	8800/231, 16 A	8125/5073-2A-UP 16A NEC				
			8800/232, 32 A	8125/5073-2A-UP 32A NEC				
		2	8800/231, 16 A	8125/5083-2D-UP 16A/16A NEC				
			8800/232, 32 A	8125/5083-2D-UP 32A/32A NEC				
			8800/231, 16 A 8800/232, 32 A	8125/5083-2D-UP 32A/16A NEC				
Note	Available versions of socket assemblies are identical to those of the wall mounted sockets (see data sheet wall-mounted sockets)							

Technical Data

100111104112414		
Electrical data		
Socket assemblies	8800/231, 16 A	8800/232, 32 A
Rated voltage	20 690 (+ 5 %) V (depending on socket assamplies used)	20 690 (+ 5 %) V (depending on socket assamplies used)
Rated current	16 A	32 A
Back-up fuse		
without thermal protection	16 A	32 A
with thermal protection	16 A gL	32 A gL
Ambient conditions		

- 20 ... + 40 °C Operating temperature range

Mechanical data Degree of protection IP65 Material Sealing gasket

polyurethane, foam

stainless steel (1.4404); elektro-polished Enclosure

Switch handle stainless steel Flange socket polyester

Interlocked switch

3-pole switch with isolating facility 1 auxiliary contact (ON - delayed, OFF - advanced) actuator, ON-OFF position indicating 0 and I

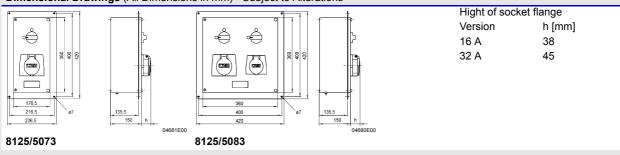
Operating handle Cover fixing

with cover hinges, hinges on right hand side; M 6, cheese head screws with combined slot; captive; stainless steel

Mounting / Installation

Socket assemblies 8800/231, 16 A 8800/232, 32 A Connection to terminal blocks to terminal blocks Wire size range solid leads 0.5 ... 6 mm² 0.5 ... 4 mm² flexible leads 0.5 ... 10 mm² $0.5 \dots 6 \ mm^2$ Cable entries in moulded plastic or metal will be as ordered in moulded plastic or metal will be as ordered

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.