

certificate
no. **HM 230017**
dated 2023-02-28

Translation In any case, the German original shall prevail.

DGUV Test Certificate

Name and address of the holder of the certificate: (customer) ROSS EUROPA GmbH
Robert-Bosch-Straße 2
63225 Langen
GERMANY

Product designation: **3/2-way double valve with dynamic monitoring function**

Type: DM1CxxxxxCx (ordering code key, s. Annex)

Testing based on: GS-HM-21:2022-03 Presses and forging machines

Test report: No. 2022-0107 dated 24.01.2023

Further details: Intended use:
Safe exhaust of pneumatic systems on machines and systems.

Remarks:
see Annex.
Follow-up certificate of HSM 16008 dated 10.11.2021.

The type tested meets the requirements specified in article 3 para. 1 of the German Product Safety Act. Thus, the type tested also complies with the provisions laid down in the directive 2006/42/EC (**Machinery**). The holder of the certificate is entitled to affix the DGUV Test mark shown overleaf to the products complying with the type tested.

The present certificate including the right to affix the DGUV Test mark is valid until: **2028-02-27**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification.


Dipl.-Ing. Jan Stegmann
Head of Certification Body



DGUV Test mark



ANNEX

of certificate No. HM 230017 dated 28.02.2023

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Name and address of the certificate holder: **ROSS EUROPA GMBH**
Robert-Bosch-Straße 2, 63225 Langen

Product designation: **3/2-way double valve with dynamic monitoring function**
DM1Cxxxxx3x

Order key

MODEL NUMBER CONFIGURATOR 3-Way 2-Position Valves

DM1C D B21 A 3 1

Basic Size	Port Size			
	Inlet	Outlet	Exhaust	
2	1/4	1/4	3/4	B20
	3/8	3/8	3/4	B21
4	1/2	1/2	1	B42
8	3/4	3/4	1	A54
	1	1	1	A55

Thread	
NPT	N
G	D

Current	Voltage*	
DC	24 V	A
AC	110 V, 50 Hz	B
	120 V, 50/60 Hz	
	230 V, 50/60 Hz	C**

* For other voltages consult ROSS.

Connection Type	Description	Voltage	
DIN EN 175301-803 Form A	Solenoids (connectors sold separately)	AC or DC	
Leave Blank			
M12 Adapter DIN EN to M12	Solenoids (connectors included)	24 V DC only	005
	Mechanical Pressure Switch when selected (connector included)		

* See options for connectors or wiring kits.

Status Indicator Type	Connection	
Mechanical Pressure Switch (connector included)	DIN EN 175301-803 Form A	1
Solid State Pressure Sensor (built-in connector)	M12	2
None		X

Reset Type
Automatic

Products with Canadian Registration Number (CRN) are available, please visit ROSS website.

Remarks:

- Installation in compliance with manufacturer's specifications and requirements of the applicable standards (provided that there is no special regulation conflicting with the application).
- The use of the 3/2-way double valve with dynamic monitoring function for controlling the clutch/brake of mechanical presses is not intended.
- Clogging of the silencer must not lead to a hazardous condition.
- With appropriate application, Performance Level "e" (cat. 4) according to DIN EN ISO 13849-1 is achieved for the safety function "pressure build-up from '1' to '2'; pressure reduction from '2' to '3'".
- This certificate does not cover any safety aspects relating to explosion protection.


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Follow-up certificate of HSM 16008 dated 10.11.2021

Mainz, 28.02.2022


Jan Stegmann
Head of Certification Body

