



- 8 channels for pneumatic valves
- Pneumatic outputs with integrated 3/2-way valves and SIL 2 shut-down input
- Module in Zone 1 can be hot swapped

A4

WebCode 9478A



The 9478 series digital output module valve for Zone 1 has eight channels for actuating pneumatic valves. The integrated 3/2-way solenoid valves are monitored to check for internal wire breakage and short-circuiting regardless of the drive status. An additional Ex i control input is suitable for safe shutdown up to SIL 2. Operation in combination with Ex i I/O modules is permissible.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC 505			NEC 506		
Zone	Class I			Class I		
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC 500					
Division	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in	•	•	•	•	•	•

Selection Table						
Product variant	Digital Output Module Valve for Zone 1					
Number of pneumatic valves	Pressure range min.	Max. pressure range	Product Type	Art. No.	Weight kg	
8 x 3/2-valves	2.5 bar	7 bar	9478/22-08-51	203599 ▲	0.950	

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex ib IIC T4
ATEX gas explosion protection	Ⓔ II 2 G Ex ib IIC T4
EAC gas explosion protection	Ⓔ 1 Ex ib IIC T4 Gb X
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), EAC (STV), IECEx (PTB), Korea (KTL), SIL (exida), USA (FM)
Ship approval	DNVGL, RINA
Auxiliary Power	
Max. power consumption	5.75 W with activated pilot valves
Undervoltage monitoring	All outputs are depressurized
Input	
Control input suitability	Switch-off up to SIL 2, low demand (IEC61508)
Control input function	System OFF, outputs are depressurized
Device Specific Data	
Pneumatic data media	Compressed air oiled Dry Neutral gasses (5 µm filter received) Oil-free
Pneumatic data manual actuation	Yes
Pneumatic data switching times	Approx. 1000 c.p.m.
Pneumatic data Qn value	300 l/min

Technical Data

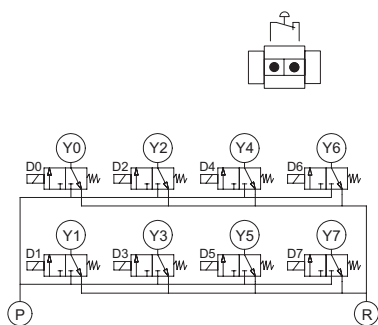
Device Specific Data

Pneumatic data Qn value note	at 20 °C air temperature, 6 bar at the valve inlet and 1 bar of differential pressure
Pneumatic connections	P, R: plug connector Ø 8 mm Y0 ... Y7: plug connector Ø 6 mm X: standard silencer (included in the delivery and already fitted)

Mechanical Data

Degree of protection IP (IEC 60529)	IP20
Enclosure material	Polyamide 6GF
Sealing material	FPM, NBR
Material of valve block	PPS, PA
Width	96.5 mm
Height	163 mm
Length	128 mm

Technical Drawings – Subject to Alterations



Connection diagram

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

