

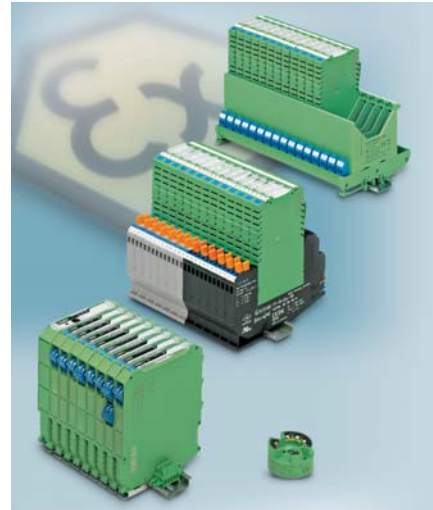
COMPATIBILITY LIST

Compatibility List for Solenoid Valves and Solenoid Drivers

INTERFACE

Application Note
103218_en_06

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1 Description

Driving intrinsically safe Ex i solenoid valves calls for an intrinsically safe control circuit. For dimensioning this circuit, please consider the following:

- Solenoid valve
- Solenoid driver
- Wire

The tables on the following pages contain an excerpt showing possible combinations for valves and solenoid drivers.

If the solenoid valve you want to use is not listed, please send us the data of the valve. We will check if it is compatible to one of our solenoid drivers.

This list is a selection guide (as of 15.10.2012).

Please observe possible modifications to function and the safety-related data of the devices and take any specific local use into consideration.



Since 1 July, 2003, the ATEX directive 94/9/EC is mandatory. Therefore, all listed solenoid valves and solenoid drivers are compliant to this directive.

The latest documentation on solenoid drivers can be found at www.phoenixcontact.net/download.

2 Valves for solenoid drivers for DIN rail mounting

No.	Manufacturer	Type	Valves			DIN-rail mountable modules MACX MCR-EX-SL-...			
			Type Designation	Ex certificate	Condition	...SD-21-25-LP / 2865492 ...SD-21-25-LP-SP / 2924113	...SD-21-40-LP / 2865764 ...SD-21-40-LP-SP / 2924139	...SD-24-48-LP / 2865609 ...SD-24-48-LP-SP / 2924126	...SD-21-60-LP / 2865515 ...SD-21-60-LP-SP / 2924100
1	ASCO	Coil	195	LCIE 08 ATEX 6083			✓	✓	
2		Coil	302 (12 V)	INERIS 03 ATEX 0249X				✓	✓
3		Coil	302 (24 V)	INERIS 03 ATEX 0249X					✓
4	Bürkert	Coil	AC 10 standard	PTB 01 ATEX 2101			✓	✓	
5		Coil	AC 10 high resistance	PTB 01 ATEX 2101			✓	✓	
6		Coil	AC 21 standard	PTB 01 ATEX 2175	700 mW / 65 °C		✓	✓	
7		Coil	AC 21 high resistance	PTB 01 ATEX 2175	700 mW / 65 °C		✓	✓	
8		Coil	AC 21 standard	PTB 01 ATEX 2175	900 mW / 45 °C		✓	✓	
9		Coil	AC 21 high resistance	PTB 01 ATEX 2175	900 mW / 45 °C		✓	✓	
10		Coil	AC 21 standard	PTB 01 ATEX 2175	900 mW / 60 °C		✓	✓	
11		Coil	AC 21 high resistance	PTB 01 ATEX 2175	900 mW / 60 °C		✓	✓	
12		Coil	G1 642735 standard		600 mW / 50 °C		✓		
13		Coil	G1 642735 high resistance		600 mW / 50 °C		✓		
14		Coil	G1 642735 standard	PTB 01 ATEX 2173	800 mW / 40 °C		✓	✓	
15		Coil	G1 642735 high resistance	PTB 01 ATEX 2173	800 mW / 40 °C		✓	✓	
16		Coil	G1 642735 standard	PTB 01 ATEX 2173	1000 mW / 40 °C		✓	✓	
17		Coil	G1 642735 high resistance	PTB 01 ATEX 2173	1000 mW / 40 °C		✓	✓	
18	FESTO	Coil	MFH...IA-SA-EX GBXE022AIAD03	PTB 03 ATEX 2097				✓	✓
19		Coil	(J)MFH...BIA-SA-EX GBXE022AIAD03	PTB 03 ATEX 2097				✓	✓
20	Norgren Herion	Coil	2050	PTB 07 ATEX 2019			✓	✓	✓
21		Coil	2051	PTB 07 ATEX 2019			✓	✓	✓
22		Coil	2052	PTB 07 ATEX 2019			✓	✓	✓
23		Coil	2053	PTB 07 ATEX 2019				✓	✓
24		Coil	2085	PTB 06 ATEX 2001 U		✓			
25		Coil	2086	PTB 06 ATEX 2001 U		✓		✓	✓
26		Coil	3039	PTB 03 ATEX 2134				✓	
27		Coil	2003	PTB 04 ATEX 2010				✓	
28	Hörbiger	Piezo	P8 38x RF-Nx-SPN65	DMT 01 ATEX E026X	30 V type	✓	✓		
29		Piezo	P20 381RF-NG-CPN61	DMT 01 ATEX E025X	30 V type	✓	✓		
30	Parker	Coil VZ07	488650.01	LCIE 02 ATEX 6024X				✓	
31		Coil VZ33	494035.10	LCIE 02 ATEX 6024X				✓	
32		Coil VZ08	488660.01	LCIE 02 ATEX 6024X				✓	
33		Coil VZ09	488670.01	LCIE 02 ATEX 6024X				✓	
34		Coil VZ95	482160.01	LCIE 02 ATEX 6024X	EEx ia IIB T6		✓	✓	✓
35		Coil VZ23	482870.01	LCIE 02 ATEX 6024X			✓	✓	
36	Samson	Coil	3701-11 (6 V)	PTB 02 ATEX 2178		✓			
37		Coil	3701-12 (12 V)	PTB 02 ATEX 2178		✓	✓	✓	
38		Coil	3701-13 (24 V)	PTB 02 ATEX 2178		✓	✓	✓	
39		Coil	3963-11 (6 V)	PTB 01 ATEX 2085		✓			
40		Coil	3963-12 (12 V)	PTB 01 ATEX 2085		✓	✓	✓	
41		Coil	3963-13 (24 V)	PTB 01 ATEX 2085		✓	✓	✓	
42		Coil	3964-11 (6 V)	PTB 02 ATEX 2047		✓			
43		Coil	3964-12 (12 V)	PTB 02 ATEX 2047		✓	✓	✓	
44		Coil	3964-13 (24 V)	PTB 02 ATEX 2047		✓	✓	✓	
45		Coil	3965-11 (6 V)	PTB 05 ATEX 2044X		✓			
46		Coil	3965-12 (12 V)	PTB 05 ATEX 2044X		✓	✓	✓	
47		Coil	3965-13 (24 V)	PTB 05 ATEX 2044X		✓	✓	✓	
48		Coil	3967-11 (6 V)	PTB 06 ATEX 2027		✓			
49		Coil	3967-12 (12 V)	PTB 06 ATEX 2027		✓	✓	✓	
50		Coil	3967-13 (24 V)	PTB 06 ATEX 2027		✓	✓	✓	
51	Seitz	Pilot valve	PV 12F73 Ci oH	PTB 99 ATEX 2146		✓	✓	✓	
52		Pilot valve	PV 12F73 Xi oH	PTB 00 ATEX 2030		✓	✓	✓	
53		Pilot valve	PV 12F73 Xi oH-2	PTB 00 ATEX 2030		✓	✓	✓	
54		Solenoid coil	11 G 52	PTB 01 ATEX 2020				✓	

3 Valves for solenoid drivers as plug-in modules

No.	Manufacturer	Type	Valves			Pluggable modules (assembly on DIN rail with basic element)			
			Type Designation	Ex certificate	Condition	PI-EX-SD-21-25 2865201	PI-EX-SD-21-40 2865913	PI-EX-SD-24-48 2865298	PI-EX-SD-21-60 2865188
1	ASCO	Coil	195	LCIE 08 ATEX 6083			✓	✓	
2		Coil	302 (12 V)	INERIS 03 ATEX 0249X				✓	✓
3		Coil	302 (24 V)	INERIS 03 ATEX 0249X					✓
4	Bürkert	Coil	AC 10 standard	PTB 01 ATEX 2101			✓	✓	
5		Coil	AC 10 high resistance	PTB 01 ATEX 2101			✓	✓	
6		Coil	AC 21 standard	PTB 01 ATEX 2175	700 mW / 65 °C		✓	✓	
7		Coil	AC 21 high resistance	PTB 01 ATEX 2175	700 mW / 65 °C		✓	✓	
8		Coil	AC 21 standard	PTB 01 ATEX 2175	900 mW / 45 °C		✓	✓	
9		Coil	AC 21 high resistance	PTB 01 ATEX 2175	900 mW / 45 °C		✓	✓	
10		Coil	AC 21 standard	PTB 01 ATEX 2175	900 mW / 60 °C		✓	✓	
11		Coil	AC 21 high resistance	PTB 01 ATEX 2175	900 mW / 60 °C		✓	✓	
12		Coil	G1 642735 standard		600 mW / 50 °C		✓		
13		Coil	G1 642735 high resistance		600 mW / 50 °C		✓		
14		Coil	G1 642735 standard	PTB 01 ATEX 2173	800 mW / 40 °C		✓	✓	
15		Coil	G1 642735 high resistance	PTB 01 ATEX 2173	800 mW / 40 °C		✓	✓	
16		Coil	G1 642735 standard	PTB 01 ATEX 2173	1000 mW / 40 °C		✓	✓	
17		Coil	G1 642735 high resistance	PTB 01 ATEX 2173	1000 mW / 40 °C		✓	✓	
18	FESTO	Coil	MFH...IA-SA-EX GBXE022AIAD03	PTB 03 ATEX 2097				✓	✓
19		Coil	(J)MFH...BIA-SA-EX GBXE022AIAD03	PTB 03 ATEX 2097				✓	✓
20	Norgren Herion	Coil	2050	PTB 07 ATEX 2019			✓	✓	✓
21		Coil	2051	PTB 07 ATEX 2019			✓	✓	✓
22		Coil	2052	PTB 07 ATEX 2019			✓	✓	✓
23		Coil	2053	PTB 07 ATEX 2019				✓	✓
24		Coil	2085	PTB 06 ATEX 2001 U		✓			
25		Coil	2086	PTB 06 ATEX 2001 U		✓	✓	✓	✓
26		Coil	3039	PTB 03 ATEX 2134				✓	✓
27		Coil	2003	PTB 04 ATEX 2010				✓	
28	Hörbiger	Piezo	P8 38x RF-Nx-SPN65	DMT 01 ATEX E026X	30 V type	✓	✓		
29		Piezo	P20 381RF-NG-CPN61	DMT 01 ATEX E025X	30 V type	✓	✓		
30	Parker	Coil VZ07	488650.01	LCIE 02 ATEX 6024X			✓	✓	
31		Coil VZ33	494035.10	LCIE 02 ATEX 6024X			✓	✓	
32		Coil VZ08	488660.01	LCIE 02 ATEX 6024X			✓	✓	
33		Coil VZ09	488670.01	LCIE 02 ATEX 6024X			✓	✓	
34		Coil VZ95	482160.01	LCIE 02 ATEX 6024X	EEx ia IIB T6		✓	✓	✓
35		Coil VZ23	482870.01	LCIE 02 ATEX 6024X			✓	✓	
36	Samson	Coil	3701-11 (6 V)	PTB 02 ATEX 2178		✓			
37		Coil	3701-12 (12 V)	PTB 02 ATEX 2178		✓	✓	✓	
38		Coil	3701-13 (24 V)	PTB 02 ATEX 2178		✓	✓	✓	
39		Coil	3963-11 (6 V)	PTB 01 ATEX 2085		✓			
40		Coil	3963-12 (12 V)	PTB 01 ATEX 2085		✓	✓	✓	
41		Coil	3963-13 (24 V)	PTB 01 ATEX 2085		✓	✓	✓	
42		Coil	3964-11 (6 V)	PTB 02 ATEX 2047		✓			
43		Coil	3964-12 (12 V)	PTB 02 ATEX 2047		✓	✓	✓	
44		Coil	3964-13 (24 V)	PTB 02 ATEX 2047		✓	✓	✓	
45		Coil	3965-11 (6 V)	PTB 05 ATEX 2044X		✓			
46		Coil	3965-12 (12 V)	PTB 05 ATEX 2044X		✓	✓	✓	
47		Coil	3965-13 (24 V)	PTB 05 ATEX 2044X		✓	✓	✓	
48		Coil	3967-11 (6 V)	PTB 06 ATEX 2027		✓			
49		Coil	3967-12 (12 V)	PTB 06 ATEX 2027		✓	✓	✓	
50		Coil	3967-13 (24 V)	PTB 06 ATEX 2027		✓	✓	✓	
51	Seitz	Pilot valve	PV 12F73 Ci oH	PTB 99 ATEX 2146		✓	✓	✓	
52		Pilot valve	PV 12F73 Xi oH	PTB 00 ATEX 2030		✓	✓	✓	
53		Pilot valve	PV 12F73 Xi oH-2	PTB 00 ATEX 2030		✓	✓	✓	
54		Solenoid coil	11 G 52	PTB 01 ATEX 2020				✓	



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