intrinsically safe, II 1G Ex ia IIC T6 Ga, II 2D Ex ib IIIC T85°C Db IP67 ISO 15218 (CNOMO, size 30) interface, direct operated, pad mounting body

3/2 Series 195/LISC

Features and Benefits

• Low consumption valves for use in potentially explosive atmospheres according to ATEX-Directive 2014/34/EU

EC type examination certificate no.: DEKRA 11 ATEX 0091 X IECEx Certificate of Conformity no.: IECEx DEK 11.0038X

- Compliance with the Essential Health and Safety Requirements has been assured by compliance with the International and European Standards IEC and EN: 60079-0 and 60079-11
- The valve's Ex ia protection allows it to be installed in explosive atmospheres up to zone 1. It can be used in the chemical, oil and pharmaceutical industries, or in processing and packaging plants for flammable products (paints, solvents)
- Compact, monobloc pilot valve with spade plug connection according to ISO 4400 / EN 175301-803, form A (3 pins)
- This solenoid valve can be mounted as operator onto valve 551-553 series SIL3 capable (EXIDA approval)



NC

exida





 $C \in$

General

Differential pressure Flow

conforming to ISO 6358

2 - 10 bar [1 bar = 100 kPa] See «SPECIFICATIONS»

b = 0.4 (critical pressure ratio) ISO 15218 (CNOMO E06.05.80N, size 30)

Pneumatic base Response time

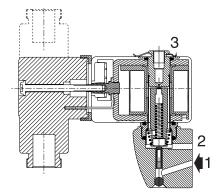
11 ms

Fluids (*)	Temperature range (TS)	Seal materials (∗)
air or inert gas dry, filtered (50 μm), without condensate, dew point: -20°C	-40°C to +65°C	FPM (fluoroelastomer)

Materials of components in contact with fluid

(*) Ensure that compatibility of materials in contact with fluids is verified.

Aluminium Body Internal parts, core tube Stainless steel Seals **FPM** Subbase PA or zamak



Other components

Thermoplastic resin

Electrical characteristics

Coil insulation class

Safety code (1)
(a)
II 1G Ex ia IIC T6 Ga
II 2D Ex ib IIIC T 85°C Db IP67

1) For use in zone 0 locations, see the installation conditions given in the I&M instructions. Spade plug (cable Ø 6-8 mm)

Connector Connector specification

ISO 4400 / EN 175301-803, form A **IEC 335**

Electrical safety

Moulded IP65 (EN 60529)

Electrical enclosure protection Standard voltages DC (=): 12V .. 24V

Voltage (U_)	Typica	l functional ra	D	Operator	Туре	
(max. ripple 10%)	I _(ON) min.	U _(ON) min.	P _(ON) min.	20°C	ambient temperature range (TS)	(2)
(V)	(mA)	(V)	(W)	(Ω)	(°C) (3)	
24	36	12.8	0.46	240	-40 to +65	01

	24)	U	12.0	0.40	240	-40 เ
	Safet	y paran	neters		safe area (F	RS interface)	explos	ive area
U _i = (DC)	I,	Pı	L,	C,	0		 	1 / m
(V)	(mA)	(W)	(H)	(μF)		_	╌ᡛ┸	/ '' 3♥
30	300	1.6	0	0		<u> </u>	!	- Ді

Example of use with a Zener barrier installed in a non-hazardous zone

Temperatu	re classification table DC	(
Pi	Maximum ambient °C (3)							
•••	Surface temperature							
(watt)	T6							
` ′	85°C							
Insulation	class F (155°C) 100% E.D. (4)							
1.6	65							

- (2) Refer to the dimensional drawings on the following page.
- (3) The minimum allowable ambient temperature is -40°C
- (4) This intrinsically safe valve must be connected to a specific, approved power supply (safety barrier or interface) located in a safe area.

Specifications

•	0 :0:			Flo	ow			rating pressure	Power	Catalog	number	
Pipe size	Orific	e size	At 6		Coeffic Kv	,	dii	ferential (bar) Max. (PS)	coil		With impulse	
SIZE	1 → 2	2 → 3	i/min (min (ANR)	(l/mi	in)	Min.	Air (*)	\(\vec{v}\)	manual operator	manual operator	
	(mm) ((mm)	1 → 2	2 → 3	1 → 2 2	2 → 3		=	=	=		
NC - Normall	y close	d										
pad mounting	0.5	0.7	8	15	0.11	0.26	2	10	0.46	19500036	19500038	

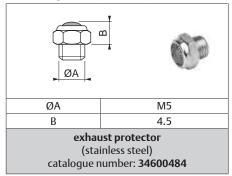
^(*) Ensure that compatibility of materials in contact with fluids is verified.

Subbases

Pipe size	Designation	Safety code	Catalog number
6/6 polyamide subbase	S		
instant fittings (1)	single subbase (instant fittings OD 4 mm)	II 2 GD c Ta 50°C T 85°C (T6)	35300069
Zamak subbases			
G 1/8 (1), tapped	laterally-connected single subbase	II 2 GD c Ta 50°C T 85°C (T6)	35300047

⁽¹⁾ These subbases can be mounted on omega rail to EN 50022 using 2 clips (clips sold in packs of 10, catalogue number: 33400036).

Accessories



Ordering examples valves:

<i>-</i>		
	19500036 . 1224V / DC	
basic number ———	voltage	

Options

• Joinable subbases

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws
- Pipe connections G 1/8 have standard thread according to ISO 228/1
- Electrical connection between solenoid valve and barrier/interface with cable type A or B according to EN 50039
- Installation/maintenance instructions are included with each valve

2



Compatibles barriers

Located in safe areas, these interfaces allow to feed the intrinsically safe solenoid valves located in explosive areas.

ASCO pilot 195/LISC

II 1G Ex ia IIC T6 Ga / II 2D Ex ib IIIC T 85°C Db IP67

Suppliers	Barrier reference	195/LISC			
ABB	DO910S/B/N	X			
	NAEV30-DO2C-A230-0	X			
AP3	NAEV30-DO2C-A115-0	X			
Ar 5	NAEV30-DI2N-DO1C-A230-0	X			
	NAEV30-DI2N-DO1C-A115-0	X			
	D5048S	X			
	D5049S	X			
	D1045Y	X			
	D1048S	X			
	D1049S	X			
	D1040Q 2	X			
G.M. international	D1040Q 3	X			
	D1041Q3	X			
	D1041Q4	X			
	D1042Q 2	X			
	D1042Q 3	X			
	D1043Q 3	X			
	D1043Q4	X			
	MTL4521	X			
	MTL5521	X			
	MTL4521L	X			
	MTL5522	X			
	MTL4523	X			
	MTL5523	X			
	MTL4523L	X			
	MTL4523R	X			
MTL	MTL4523V	X			
	MTL5523V	X			
	MTL4524	X			
	MTL5524	X			
	MTL4524S	X			
	MTL5521T	X			
	MTL4523VL	X			
	MTL5523VL	X			
	MTL5523	X			
	KCD0-SD3-Ex1.1045	X			
	KCD0-SD3-Ex1.1245	X			
	KCD0-SD-EX1.1245	X			
	KCD2-SLD-EX1.1045	X			
	KCD2-SLD-EX1.1065	X			
	KCD2-SLD-EX1.1245	X			
	KFD0-SD2-EX1.10100	X			
	KFD0-SD2-EX1.1180	X			
<u> </u>	KFD0-SD2-EX1.1180 KFD0-SD2-EX2.1245	X			
<u> </u>	KFD2-SL2-EX1	X			
<u> </u>	KFD2-SL2-EX1.B	X			
	KFD2-SL2-EX1.LK	X			
	KFD2-SL2-EX1	X			
<u> </u>	KFD2-SL2-EX2 KFD2-SL2-EX2.B	X			
Pepperl	KCD0-SD3-Ex1.1245.SP	X			
+	KCD0-SD3-EX1.1243.SP KCD0-SD-Ex1.1245.SP	X			
ruche -		X			
Fuchs	KFD2-SL2-Ex1.LK-Y1	X			
<u> </u>	HiC2871 HIC2871A	X			
<u> </u>	ПIC20/1/A ШС2072	X			
<u> </u>	HIC2873 HIC2883				
<u> </u>	HID2872	X			
<u> </u>	ΠΙυΖδ/Ζ μο 2112 Αρ/Γρ	X			
<u> </u>	LB-2112 AR/ER	X			
<u> </u>	FB-2212	X			
<u> </u>	FB-2216	X			
<u> </u>	FB2217	X			
<u> </u>	FB6216	X			
	FB6217	X			
	FB2213	X			
	FB6208 FB2201	X			
		X			

In accordance with the zone classification and the national legislation of each country, apply the certification procedures for the connection of IS-rated products with associated equipment.

All information subject to change without notice. All responsibility for the use of products from other suppliers and the possible modifications of their characteristics is disclaimed.

Compatibles barriers

ASCO pilot 195/LISC II 1G Ex ia IIC T6 Ga / II 2D Ex ib IIIC T 85°C Db IP67

Suppliers	Barrier reference	195/LISC
	9475/32-04-72	X
	9176/ 20- 15- 00s 2 canals	X
	9176/ 20- 16- 00s 2 canals	X
	9176/ 20- 17- 00s 2 canals	X
	9175/ 10- 14- 11s	X
	9175/ 20- 14- 11s 1 canal	X
Stahl	9175/ 20- 14- 11s 2 canals	X
	9175/ 20- 16- 11s 2 canals	X
	9276/ 10- 21- 60- 00k	X
	9276/ 10- 21- 60- 00s	X
	9276/ 10- 24- 48- 00k	X
	9276/ 10- 24- 48- 00s	X
	9275/ 10- 24- 48- 11s	X
	6ES7132-7GD10-0AB0 2 ways	X
Siemens	6ES7132-7-GD21-0AB0 2 ways	X
	6ES7132-7RD22-0AB0 2 ways	X
	MACX MCR-EX-SL-SD-21-60-LP-SP - 2924100	X
	MACX MCR-EX-SL-SD-21-60-LP - 2865515	X
	MACX MCR-EX-SL-SD-24-48-LP - 2865609	X
	MACX MCR-EX-SL-SD-24-48-LFD-SP - 2906156	X
Phoenix Contact	MACX MCR-EX-SL-SD-24-48-LFD - 2906155	X
	MACX MCR-EX-SL-SD-23-48-LFD-SP - 2924870	X
	MACX MCR-EX-SL-SD-23-48-LFD - 2924867	X
	PI-EX-SD-24-48 - 2865298	X
	PI-EX-SD-21-60 - 2865188	X
	750-535	X
WAGO	750-535/040-000	X
	750-539	X

For other compatible barriers and interfaces, please ask our product support.

In accordance with the zone classification and the national legislation of each country, apply the certification procedures for the connection of IS-rated products with associated equipment.

All information subject to change without notice. All responsibility for the use of products from other suppliers and the possible modifications of their characteristics is disclaimed.

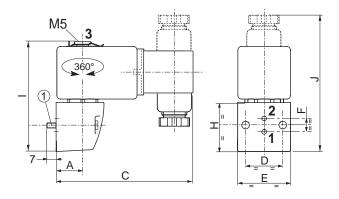


Dimensions (mm), Weight (kg) ☐⊕

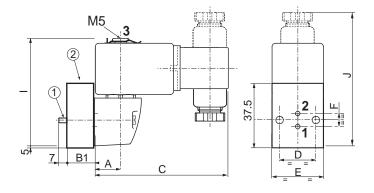


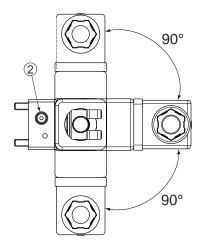
TYPE 01 Spade plug IEC 335 / DIN 43650 II 1G Ex ia IIC T6 Ga II 2D Ex ib IIIC T85°C Db IP67

19500036



19500038





- 1 Mounting: two CM 4 x 35 screws
- (2) Impulse manual operator location

Туре	Catalog number	Α	В1	С	D	E	F	G	Н	ı	J	Weight (1)
01	19500036	15.5	-	79	21	30	7.5	15	30	63	81	0.22
01	19500038	15.5	15	79	21	30	7.5	15	30	63	81	0.28

(1) Incl. coil(s) and connector(s).

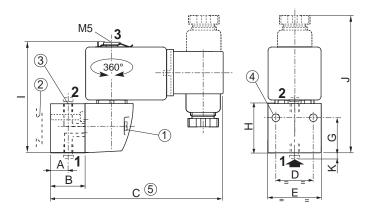
5

Dimensions (mm), Weight (kg)



TYPE 02Single instant fitting subbase Polyamide

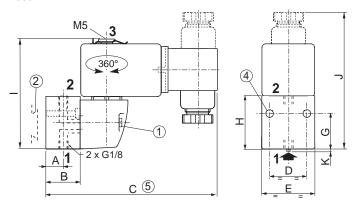
35300069





TYPE 03 Single subbase Zamak

35300047



- 1 Mounting: two CM 4 x 35 screws
- 2 Adaptable clips
- (3) Instant-fitting connection for OD 4 mm tube
- 4 Two dia. 3.5 mm securing holes
- (5) For MO version (19500038), add 15 mm to dimension C

Туре	Catalog number	Α	В	С	D	Ε	G	Н	1	J	K	Weight (1)
02	35300069	13	20	99	23	33	22.5	30	67	81	4	0.20
03	35300047	15	25	104	21	31	30	36	70	81	3.5	0.20

⁽¹⁾ Incl. coil(s) and connector(s).

6