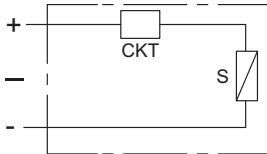


INTRINSICALLY SAFE SOLENOID WITH CIRCUIT TYPE : 62, 66, 63, 64

Ex ia

CIRCUIT DIAGRAM



Type : 63, 64



FEATURES

- Designed for extreme environmental conditions
- Large terminals for easy connections
- Bottom Cable entry to avoid rain or process fluids entering into the termination area
- Can be adopted for any valve with core tube 14mm



Type : 62, 66

SPECIFICATION

Size	III, IV
Voltage	24 V
Current	DC
Enclosure	Cable Entry M25 X 1.5, Adopted to M20 X 1.5 or 1/2" NPT Material Aluminum Cast, Polyester Powder Coat, Colour Blue Stainless Steel Cast
Options	LED (LD)
Power	Refer entity & minimum operating parameter on page 432A
Insulation Class	Class H
Weather Protection	IP67
Approval	INDIAN, ATEX, GOST R, GOST K, IECEx, CCOE, DGMS①
Duty Cycle	100% (ED)
Ambient Temperature	Refer to marking on page 432C

① DGMS applied for

WEIGHT IN kg

Type	Al	SS
II	0.97	1.52
III	0.82	1.44
IV	0.98	1.53

APPLICATION



INDOOR



OUTDOOR



Engineering for The Future

INTRINSICALLY SAFE SOLENOID WITH CIRCUIT TYPE : 62, 66, 63, 64

Ex ia

MINIMUM OPERATING PARAMETER

Operating Parameter	IS Coil with circuit (Size-III) Coil Type : 66	IS Coil with circuit (Size-IV) Coil Type : 62	IS Coil with cut & LED Type : 66 LD	IS Coil with circuit Type : 62 LD
Minimum Voltage	11 Volt	14 Volt	11 Volt	11 Volt
Minimum Current	20mA	25mA	22 mA	27 mA
Minimum Power	0.22 Watt	0.35 Watt	0.22 Watt	0.35 Watt
LED	No	No	Yes	Yes
Valve Type	2XXXX, 3XXXX, 4XXXX, 5XXXX, 3XXX, VB (Except 30308, 30334, 30138 & 30318 etc.)	30308, 30318, 30334, 30138, P3017 & any equivalent design type	2XXXX, 3XXXX, 4XXXX, 5XXXX, 3XXX, VB (Except 30308, 30334, 30138 & 30318 etc.)	30308, 30318, 30334, 30138, P3017 & any equivalent design type

ENTITY PARAMETER

Entity Parameter	
Ui	32V DC
li	230mA
Pi	2.3W
Ci	0
Li	0

RESPONSE ON TIME

Voltage	10	12	14	18	22	26	30	32
Current mA	17	21.27	25	33	41	49	57	61
Delay Time in Milli Sec.	2500	1200	1000	100	60	50	50	50

RESPONSE OFF TIME

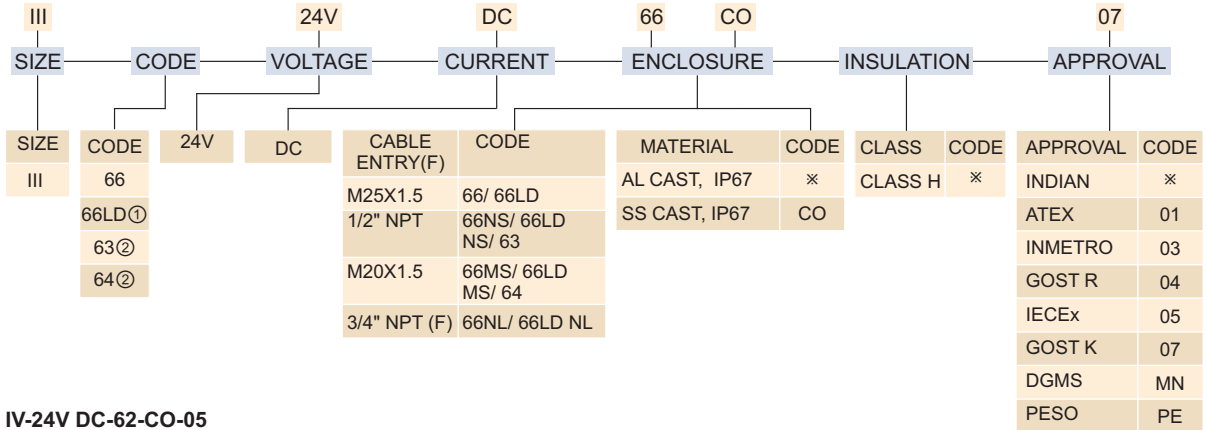
10mS to 20mS

INTRINSICALLY SAFE SOLENOID WITH CIRCUIT TYPE : 62, 66, 63, 64

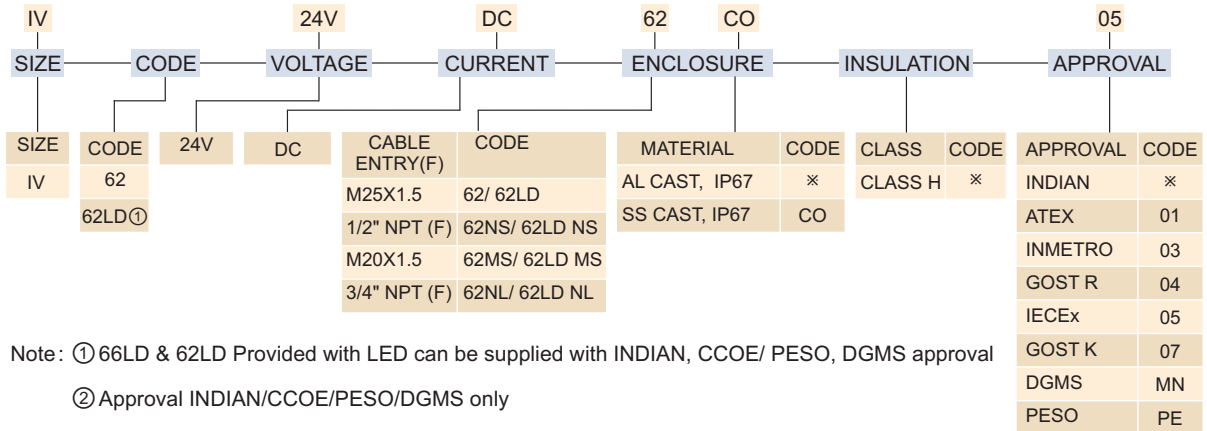
Ex ia

SOLENOID ORDERING CODE

III-24V-DC-66-CO-MS-07



IV-24V DC-62-CO-05



Note: ① 66LD & 62LD Provided with LED can be supplied with INDIAN, CCOE/ PESO, DGMS approval

② Approval INDIAN/CCOE/PESO/DGMS only

APPROVAL

Solenoid Type : 62, 66

Approval	Certifying Agencies	Reference Number
INDIAN	KLPL	KLPL/Ex/13-022X
	NA	
DGMS	DGMS	232 of 2011
BIS		7560881
CCOE/ PESO	PESO	
EUROPEAN/ ATEX	Baseefa	Baseefa 12 ATEX 0243X
GOST R	(CIS)	No. POCC IN.Г506.B01292
GOST	(CIS)	Ref. No. 19-04-10/ IOJI-392
INMETRO		
IECEX	Baseefa	IECEX BAS 12.0128XIssu1

MARKING

ATEX & IECEX	AMBIENT TEMPERATURE
Ex I M I Ex ia II Ma	- 60 °C ≤ Ta ≤ +75 °C
Ex II 1G Ex ia IIC T5 Ga	- 60 °C ≤ Ta ≤ +75 °C
Ex II 1G Ex ia IIC T6 Ga	- 60 °C ≤ Ta ≤ +60 °C
Ex II 1D Ex ia IIIC T200 125 °C IP67Da	- 60 °C ≤ Ta ≤ +75 °C
INDIAN, PESO/ CCOE, DGMS	(FOR COIL TYPE 63)
Ex ia I/IIC T5, IP67	- 40 °C ≤ Ta ≤ +75 °C
Ex ia I/IIC T6, IP67	- 40 °C ≤ Ta ≤ +60 °C
GOST R, GOST K	
Ex ia I or	- 60 °C ≤ Ta ≤ 75 °C
Ex ia IIC T5 or	- 60 °C ≤ Ta ≤ 75 °C
Ex ia IIC T6	- 60 °C ≤ Ta ≤ 75 °C

Solenoid Type : 63, 64

* Only for SS cast enclosure

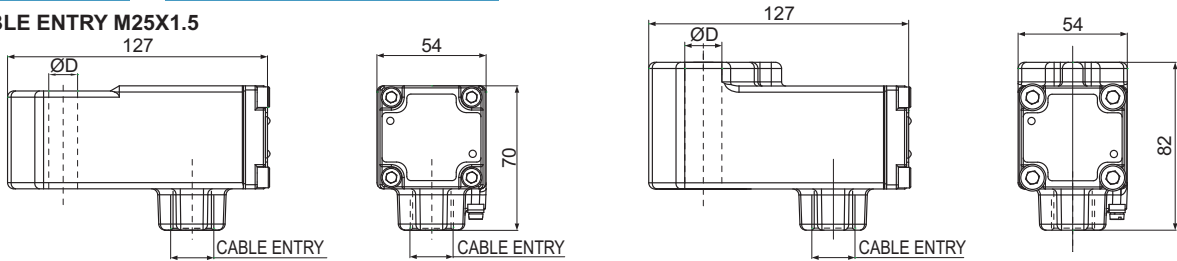
Approval	Certifying Agencies	Reference Number
INDIAN	CMRI./ CIMFR	CIMFR/TC/P/H702 & CMRI/TC/SR/H920
	KLPL (Revalidated)	KLPL/Ex/13-022X
BIS		7560881
CCOE/ PESO		
DGMS	DGMS	231 of 2011

INTRINSICALLY SAFE SOLENOID WITH CIRCUIT TYPE : 62, 66, 63, 64

Ex ia

DIMENSION SOLENOID TYPE : 62, 66

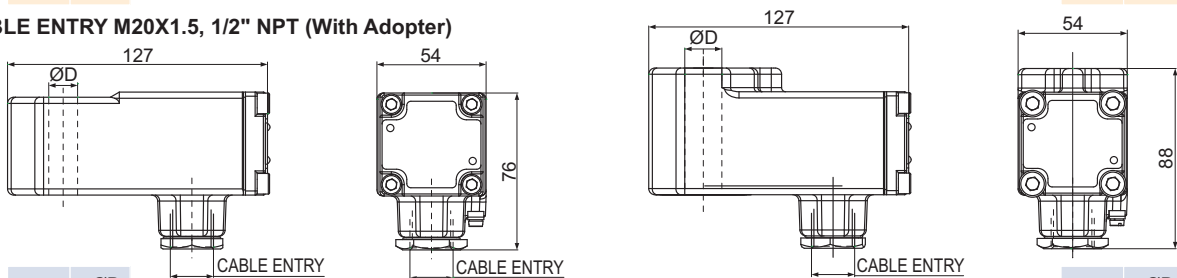
CABLE ENTRY M25X1.5



	ØD
III	13
III	14

	ØD
II	18
IV	14

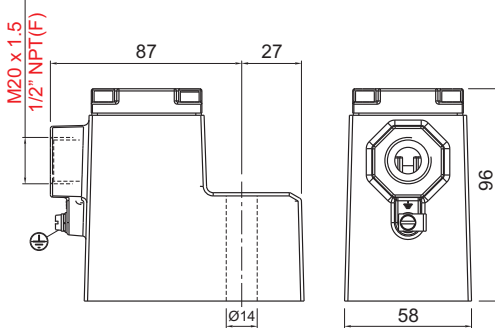
CABLE ENTRY M20X1.5, 1/2" NPT (With Adopter)



	ØD
III	13
III	14


	ØD
II	18
IV	14

SOLENOID TYPE : 63, 64



SIZE	B	ØC
III	56	13
I		

OBSELETE PRODUCTS AND ITS INTERCHANGEABILITY

<p>Replace with Solenoid type 66 along with Guide and pressure assembly</p>	<p>Type : 63, 64, 63-01, 64-01</p>  <p>Replace with Solenoid Type 66</p>			
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