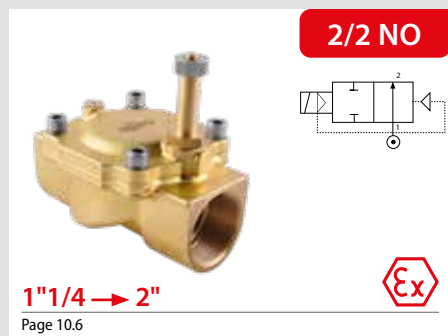
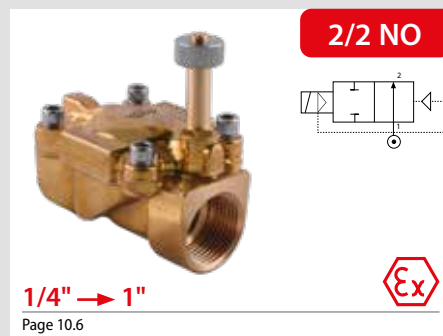
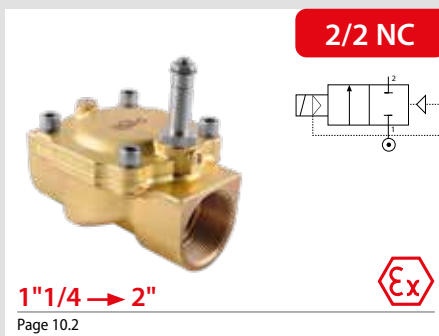
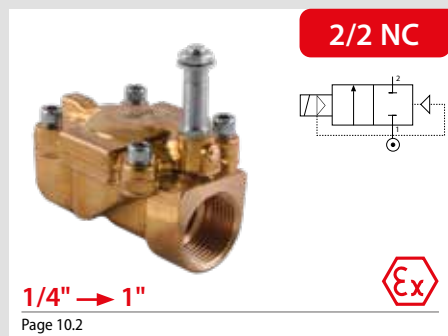




Series 04F

Coils & Connectors



SERVO-ASSISTED SOLENOID VALVES WITH BRASS BODY



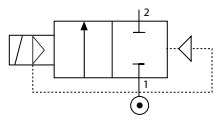
Series 04F

Series 04F

SERVO-ASSISTED SOLENOID VALVES WITH BRASS BODY

2/2 NC

1/4" → 1"



Component Parts and Materials

- 1 Body: Brass CW617N
- 2 Seals: NBR - EPDM - FKM
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



General features - 04F

- Recommended horizontal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



Maximum allowable pressure

363 psi (25 bar)



Compatibility and materials table

Page 0.13 - 0.14



Room temperature with coil class H

+14°F +176°F
-10°C +80°C


Applications

- Water, Neutral liquids, Oils
- Water management, Water treatment
- Agriculture, Irrigation, Zootechnics
- Car washes, Washing systems
- Industrial processes, Refrigeration
- Air, Inert gases, Vacuum
- Oxygen, Steam



Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils
0 4 F	0 3	1	1 0	N	*	N	A A
	03 = 1/4"	1 = 2/2 NC	10 = 25/64 (10)	N = NBR	* = Select the version	N = NPTF	A = A series - SOL10
	04 = 3/8"		14 = 35/64 (14)	E = EPDM			B = B series - SOL11
	05 = 1/2"		18 = 45/64 (18)	V = FKM	2/2 NC → Page 8.3 / 8.4		1 = 24V AC
	07 = 3/4"		25 = 1 (25)				2 = 110V AC
	09 = 1"						3 = 220V AC
Ex: Version H → 04F 03 1 10 N H N Version 4 → 04F 07 1 18 N 4 N Version 0 → 04F 03 1 10 N 0 N Version 2 → 04F 07 1 18 N 2 N Version T → 04F 07 1 18 N T N Version 5 → 04F 07 1 18 N 5 N Version 1 → 04F 07 1 18 N 1 N Version 3 → 04F 07 1 18 N 3 N							Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
①	①	NPTF	inch (mm)	cSt	gpm (m³/h)	psi (bar)			DC	AC	Size	Series
						Min	Max DC	Max AC	W	VA	mm	A - Page 11.2 B - Page 11.3

Without manual override												
04F 03 1 10 _ H N	N = NBR +14°F +194°F (-10°C +90°C)	1/4"	25/64 (10)	25	2.19 (1.88)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 04 1 12 _ H N	V = FKM +14°F +284°F (-10°C +140°C)	3/8"	35/64 (14)	25	3.87 (2.32)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 05 1 12 _ H N	E = EPDM +14°F +284°F (-10°C +140°C)	1/2"	35/64 (14)	25	4.11 (3.53)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 07 1 18 _ H N		3/4"	45/64 (18)	25	6.48 (5.56)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 09 1 25 _ H N		1"	1 (25)	25	12.78 (10.97)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11

Without manual override and with reinforced and guided diaphragm												
04F 07 1 18 _ 4 N	N = NBR +14°F +194°F (-10°C +90°C)	3/4"	45/64 (18)	25	5.72 (4.91)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 09 1 25 _ 4 N	V = FKM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	10.86 (9.32)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11

With manual override												
04F 03 1 10 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C)	1/4"	25/64 (10)	25	2.19 (1.88)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 04 1 12 _ 0 N	V = FKM +14°F +284°F (-10°C +140°C)	3/8"	35/64 (14)	25	3.87 (2.32)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 05 1 12 _ 0 N	E = EPDM +14°F +284°F (-10°C +140°C)	1/2"	35/64 (14)	25	4.11 (3.53)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 07 1 18 _ 0 N		3/4"	45/64 (18)	25	6.48 (5.56)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 09 1 25 _ 0 N		1"	1 (25)	25	12.78 (10.97)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11

With manual override and with reinforced and guided diaphragm												
04F 07 1 18 _ 2 N	N = NBR +14°F +194°F (-10°C +90°C)	3/4"	45/64 (18)	25	5.72 (4.91)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 09 1 25 _ 2 N	V = FKM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	10.86 (9.32)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11

① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included



With Speed regulator
Allow to adjust the opening
and closing diaphragm Speed.

2/2 NC

1/4" → 1"

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
		NPTF	inch (mm)	cSt	gpm (m ³ /h)	psi (bar)			DC	AC	Size	Series
						Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3

T

With Speed regulator and without manual override

04F 07 1 18 _ T N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C)	3/4"	45/64 (18)	25	6.48 (5.56)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 09 1 25 _ T N	E = EPDM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	12.78 (10.97)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11

5

With Speed regulator, without manual override and with reinforced and guided diaphragm

04F 07 1 18 _ 5 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C)	3/4"	45/64 (18)	25	5.72 (4.91)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11
04F 09 1 25 _ 5 N	E = EPDM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	10.86 (9.32)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
							261 (18)	261 (18)	8	11	30	B - SOL11

1

With Speed regulator and with manual override

04F 07 1 18 _ 1 N	N = NBR +14°F +194°F (-10°C +90°C)	3/4"	45/64 (18)	25	6.48 (5.56)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
	261 (18)						261 (18)	8	11	30	B - SOL11	
04F 09 1 25 _ 1 N	V = FKM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	12.78 (10.97)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
	E = EPDM +14°F +284°F (-10°C +140°C)						261 (18)	261 (18)	8	11	30	B - SOL11

3

With Speed regulator, with manual override and with reinforced and guided diaphragm

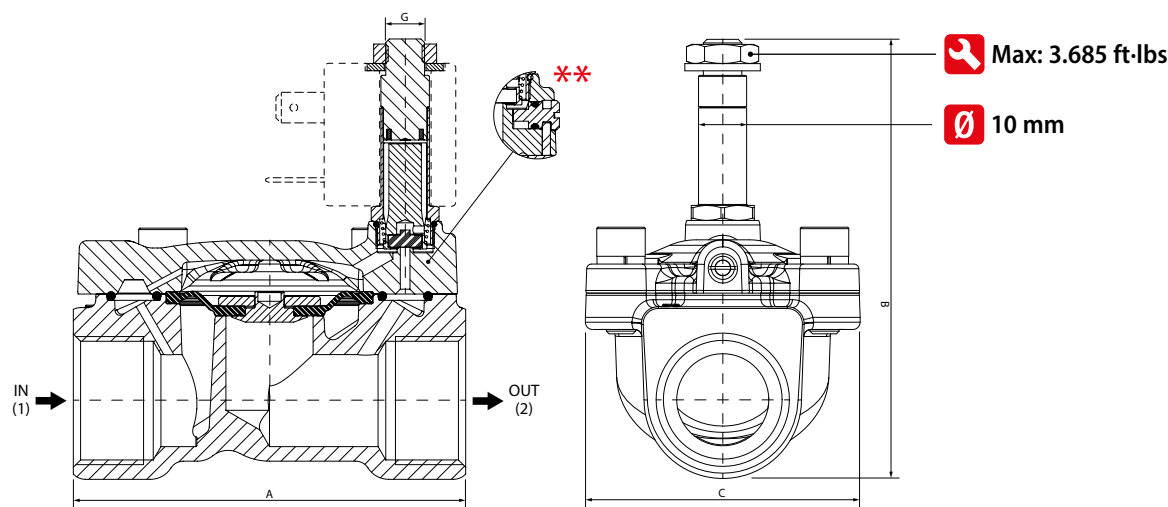
04F 07 1 18 _ 3 N	N = NBR +14°F +194°F (-10°C +90°C)	3/4"	45/64 (18)	25	5.72 (4.91)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
	261 (18)						261 (18)	8	11	30	B - SOL11	
04F 09 1 25 _ 3 N	V = FKM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	10.86 (9.32)	2 (0.15)	232 (16)	232 (16)	6.5	7.5	22	A - SOL10
	E = EPDM +14°F +284°F (-10°C +140°C)						261 (18)	261 (18)	8	11	30	B - SOL11

① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included

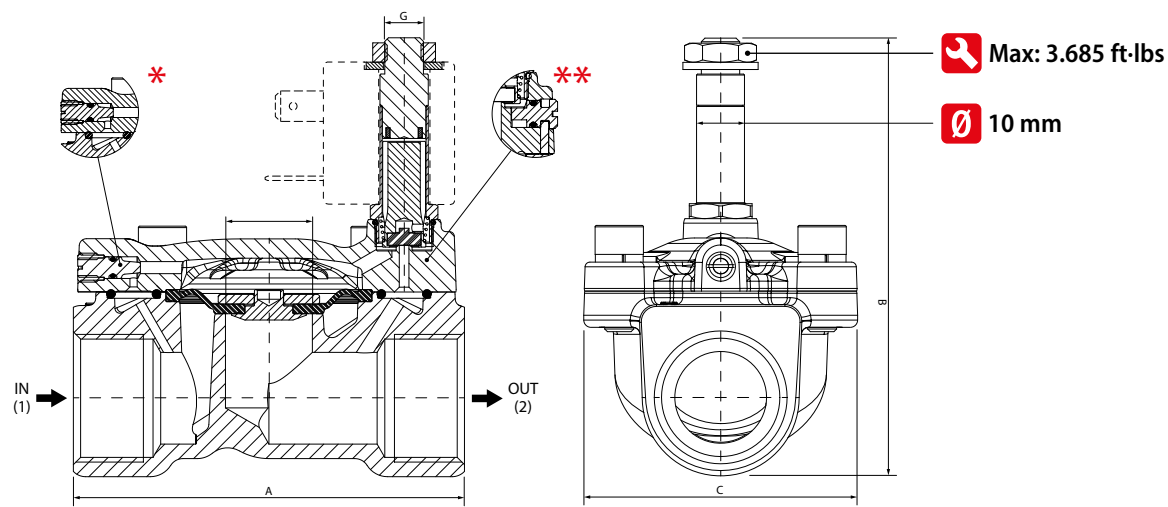
** Manual override



Size	A inch (mm)	B inch (mm)	C inch (mm)	G
1/4"	2.185 (55.5)	2.854 (72.5)	1.385 (35.2)	M8 x 0.75
3/8"	2.570 (65.3)	3.153 (80.1)	1.826 (46.4)	M8 x 0.75
1/2"	2.570 (65.3)	3.153 (80.1)	1.826 (46.4)	M8 x 0.75
3/4"	3.188 (81)	3.578 (90.9)	2.232 (56.7)	M8 x 0.75
1"	3.740 (95)	3.818 (97)	2.559 (65)	M8 x 0.75

* Spread regulator

** Manual override



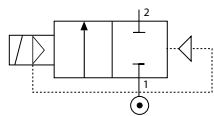
Size	A inch (mm)	B inch (mm)	C inch (mm)	G
3/4"	3.188 (81)	3.578 (90.9)	2.232 (56.7)	M8 x 0.75
1"	3.740 (95)	3.818 (97)	2.559 (65)	M8 x 0.75

Series 04F

SERVO-ASSISTED SOLENOID VALVES WITH BRASS BODY

2/2 NC

1"1/4 → 2"



Component Parts and Materials

- 1 Body: Brass CW617N
- 2 Seals: NBR - EPDM - FKM
- 3 Armature tube: Stainless steel
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



General features - 04F

- Recommended horizontal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



Maximum allowable pressure

363 psi (25 bar)



Compatibility and materials table

Page 0.13 - 0.14



Room temperature with coil class H

+14°F +176°F
-10°C +80°C



Applications

- Water, Neutral liquids, Oils
- Water management, Water treatment
- Agriculture, Irrigation, Zootechnics
- Car washes, Washing systems
- Industrial processes, Refrigeration
- Air, Inert gases, Vacuum
- Oxygen, Steam



Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 4 F	0 3	1	1 0	N	T	N	C	A
	XF = 1"1/4	1 = 2/2 NC	40 = ____ (40)	N = NBR	T: Without manual override	N = NPTF	C = C series - SOL20	A = 12V DC
	XG = 1"1/2		50 = ____ (50)	E = EPDM	1: With manual override		D = D series - SOL20	B = 24V DC
	XH = 2"			V = FKM			E = E series - SOL21	1 = 24V AC
								2 = 110V AC
								3 = 220V AC

Valves and coils are supplied separately.
Upon commercial agreements can be supplied assembled.

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
		NPTF	inch (mm)	cSt	gpm (m ³ /h)	psi (bar)			DC	AC	Size	Series
						Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6

T

With Speed regulator and without manual override

04F XF 1 40 _ TN	N = NBR +14°F +194°F (-10°C +90°C)	1"1/4	1" 9/16 (40)	25	27,74 (24)	2,9 (0,2)	145 (10)	145 (10)	8	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21
04F XG 1 40 _ TN	V = FKM +14°F +284°F (-10°C +140°C)	1"1/2	1" 9/16 (40)	25	29,2 (25,3)	2,9 (0,2)	145 (10)	145 (10)	8	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21
04F XH 1 50 _ TN	E = EPDM +14°F +284°F (-10°C +140°C)	2"	1" 61/64 (50)	25	47,39 (41)	2,9 (0,2)	145 (10)	145 (10)	8	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21

1

With Speed regulator and with manual override

04F XF 1 40 _ 1N	N = NBR +14°F +194°F (-10°C +90°C)	1"1/4	1" 9/16 (40)	25	27,74 (24)	0	145 (10)	145 (10)	8	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21
04F XG 1 40 _ 1N	V = FKM +14°F +284°F (-10°C +140°C)	1"1/2	1" 9/16 (40)	25	29,2 (25,3)	0	145 (10)	145 (10)	8	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21
04F XH 1 50 _ 1N	E = EPDM +14°F +284°F (-10°C +140°C)	2"	1" 61/64 (50)	25	47,39 (41)	0	145 (10)	145 (10)	8	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21

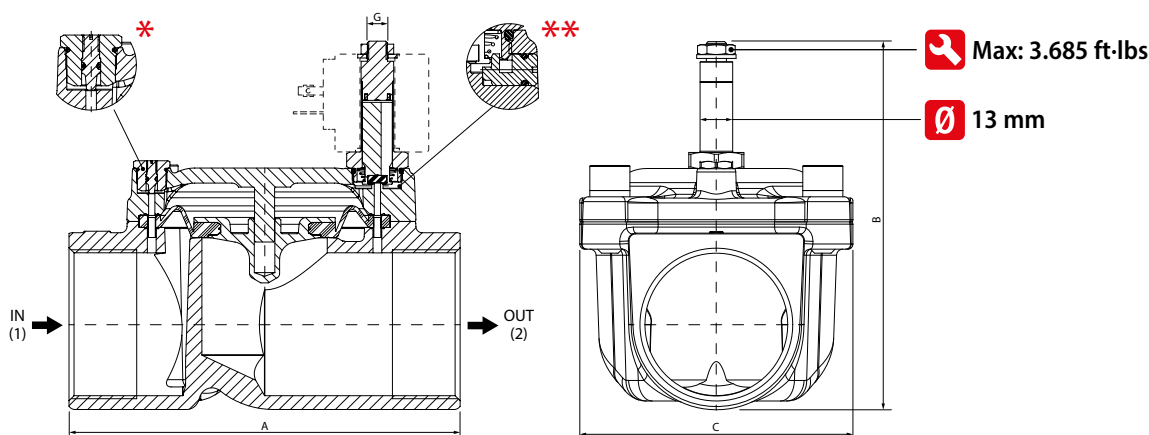
① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included

* Speed regulator

** Manual override



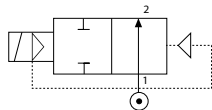
Size	A inch (mm)	B inch (mm)	C inch (mm)	G
1"1/4	5.51 (140)	5 (127)	3.85 (98)	M8 x 1
1"1/2	5.51 (140)	5 (127)	3.85 (98)	M8 x 1
2"	6.14 (156)	5.78 (147)	4.29 (109)	M8 x 1

Series 04F

SERVO-ASSISTED SOLENOID VALVES WITH BRASS BODY

2/2 NO

1/4" → 1"



Component Parts and Materials

- 1 Body: Brass CW617N
- 2 Seals: NBR - EPDM - FKM
- 3 Armature tube: Brass
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



General features - 04F

- Recommended horizontal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



Maximum allowable pressure

363 psi (25 bar)



Compatibility and materials table

Page 0.13 - 0.14



Room temperature with coil class H

+14°F +176°F
-10°C +80°C



Applications

- Water, Neutral liquids, Oils
- Water management, Water treatment
- Agriculture, Irrigation, Zootechnics
- Car washes, Washing systems
- Industrial processes, Refrigeration
- Air, Inert gases, Vacuum
- Oxygen, Steam



Stainless Steel armature tube on request



Ordering codes

Series	Port size	Functions	Orifice <i>inch (mm)</i>	Sealing materials	Version	Thread	Suitable coils	
0 4 F	0 3	2	1 0	N	*	N	A	A
	03 = 1/4"	2 = 2/2 NO	10 = 25/64 (10)	N = NBR	* = Select the version	N = NPTF	A = A series - SOL10	A = 12V DC
	04 = 3/8"		14 = 35/64 (14)	E = EPDM	↓		B = B series - SOL11	B = 24V DC
	05 = 1/2"		18 = 45/64 (18)	V = FKM	2/2 NO → Page 8.7 / 8.8			1 = 24V AC
	07 = 3/4"		25 = 1 (25)		↓			2 = 110V AC
	09 = 1"							3 = 220V AC
Ex: Version 0 → 04F 03 2 10 N 0 N							Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.	
Version 2 → 04F 07 2 18 N 2 N								
Version 1 → 04F 07 2 18 N 1 N								
Version 3 → 04F 07 2 18 N 3 N								

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
		NPTF	inch (mm)	cSt	gpm (m³/h)	psi (bar)			DC	AC	Size	Series
						Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3

0												
Without manual override												
04F 03 2 10 _ 0 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C) E = EPDM +14°F +284°F (-10°C +140°C)	1/4"	25/64 (10)	25	2.19 (1.88)	2 (0.15)	- 145 (10)	145 (10)	- 8	7.5 11	22 30	A - SOL10 B - SOL11
04F 04 2 12 _ 0 N		3/8"	35/64 (14)	25	3.87 (3.32)	2 (0.15)	- 145 (10)	145 (10)	- 8	7.5 11	22 30	A - SOL10 B - SOL11
04F 05 2 12 _ 0 N		1/2"	35/64 (14)	25	4.11 (3.53)	2 (0.15)	- 145 (10)	145 (10)	- 8	7.5 11	22 30	A - SOL10 B - SOL11
04F 07 2 18 _ 0 N		3/4"	45/64 (18)	25	6.48 (5.56)	2 (0.15)	- 145 (10)	145 (10)	- 8	7.5 11	22 30	A - SOL10 B - SOL11
04F 09 2 25 _ 0 N		1"	1 (25)	25	12.78 (10.97)	2 (0.15)	- 145 (10)	145 (10)	- 8	7.5 11	22 30	A - SOL10 B - SOL11
2												
Without manual override and with reinforced and guided diaphragm												
04F 07 2 18 _ 2 N	N = NBR +14°F +194°F (-10°C +90°C) V = FKM +14°F +284°F (-10°C +140°C)	3/4"	45/64 (18)	25	5.72 (4.91)	2 (0.15)	- 145 (10)	145 (10)	- 8	7.5 11	22 30	A - SOL10 B - SOL11
04F 09 2 25 _ 2 N							1"	1 (25)	25	10.86 (9.32)	2 (0.15)	- 145 (10)

① Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included



With Speed regulator
Allow to adjust the opening
and closing diaphragm Speed.

2/2 NO

1/4" → 1"

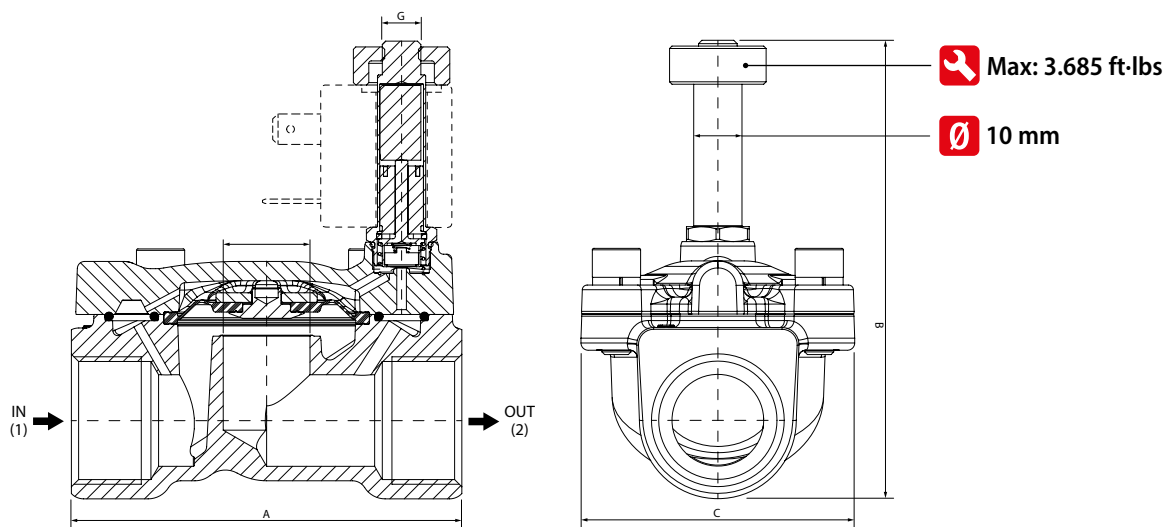
Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
						psi (bar)			DC	AC	Size	Series
		NPTF	inch (mm)	cSt	gpm (m ³ /h)	Min	Max DC	Max AC	W	VA	mm	A - Page 17.2 B - Page 17.3

1With Speed regulator and without manual override												
04F 07 2 18 _ 1 N	N = NBR +14°F +194°F (-10°C +90°C)	3/4"	45/64 (18)	25	6.48 (5.56)	2 (0.15)	-	145 (10)	-	7.5	22	A - SOL10
	145 (10)						145 (10)	8	11	30	B - SOL11	
04F 09 2 25 _ 1 N	V = FKM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	12.78 (10.97)	2 (0.15)	-	145 (10)	-	7.5	22	A - SOL10
	E = EPDM +14°F +284°F (-10°C +140°C)						145 (10)	145 (10)	8	11	30	B - SOL11
3With Speed regulator, without manual override and with reinforced and guided diaphragm												
04F 07 2 18 _ 3 N	N = NBR +14°F +194°F (-10°C +90°C)	3/4"	45/64 (18)	25	5.72 (4.91)	2 (0.15)	-	145 (10)	-	7.5	22	A - SOL10
	145 (10)						145 (10)	8	11	30	B - SOL11	
04F 09 2 25 _ 3 N	V = FKM +14°F +284°F (-10°C +140°C)	1"	1 (25)	25	10.86 (9.32)	2 (0.15)	-	145 (10)	-	7.5	22	A - SOL10
	E = EPDM +14°F +284°F (-10°C +140°C)						145 (10)	145 (10)	8	11	30	B - SOL11

① Select seal material

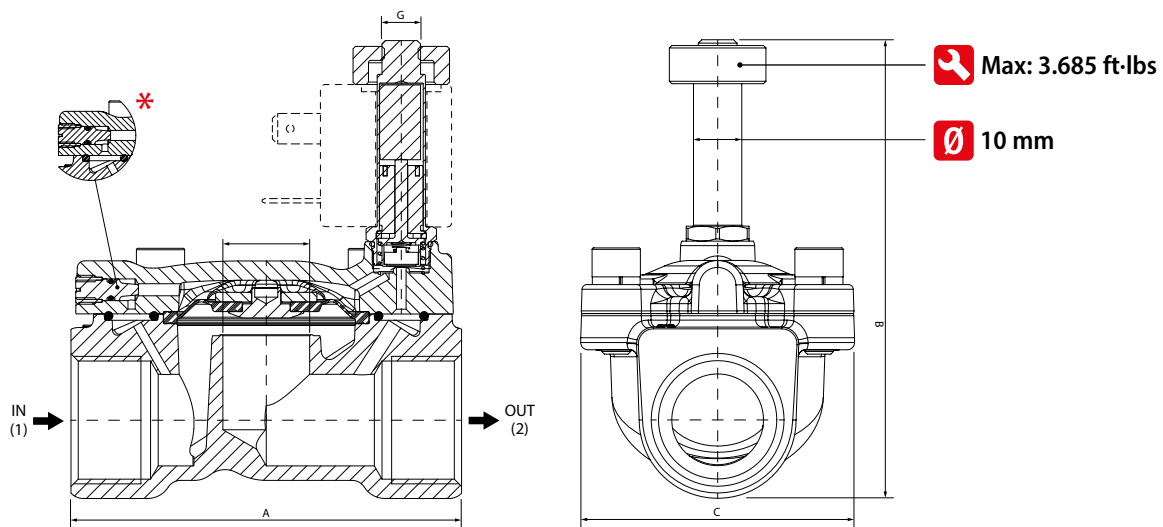
With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included



Size	A inch (mm)	B inch (mm)	C inch (mm)	G
1/4"	2.185 (55.5)	3.015 (76.6)	1.385 (35.2)	M8 x 1
3/8"	2.570 (65.3)	3.314 (84.2)	1.826 (46.4)	M8 x 1
1/2"	2.570 (65.3)	3.314 (84.2)	1.826 (46.4)	M8 x 1
3/4"	3.188 (81)	3.740 (95)	2.232 (56.7)	M8 x 1
1"	3.740 (95)	3.980 (101.1)	2.559 (65)	M8 x 1

* Spread regulator



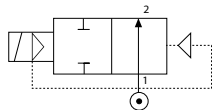
Size	A inch (mm)	B inch (mm)	C inch (mm)	G
3/4"	3.188 (81)	3.740 (95)	2.232 (56.7)	M8 x 1
1"	3.740 (95)	3.980 (101.1)	2.559 (65)	M8 x 1

Series 04F

SERVO-ASSISTED SOLENOID VALVES WITH BRASS BODY

2/2 NO

1"1/4 → 2"



Component Parts and Materials

- 1 Body: Brass CW617N
- 2 Seals: NBR - EPDM - FKM
- 3 Armature tube: Brass
- 4 Fixed and mobile core: Stainless steel AISI 430FR
- 5 Springs: Stainless steel



General features - 04F

- Recommended horizontal mounting position
- Operator kit Ø 10 mm
- ATEX II 2G/D Ex h certification
- Coils: Class H - - CSA C22.2



Maximum allowable pressure

363 psi (25 bar)



Compatibility and materials table

Page 0.13 - 0.14



Room temperature with coil class H

+14°F	+176°F
-10°C	+80°C



Applications

- Water, Neutral liquids, Oils
- Water management, Water treatment
- Agriculture, Irrigation, Zootechnics
- Car washes, Washing systems
- Industrial processes, Refrigeration
- Air, Inert gases, Vacuum
- Oxygen, Steam



Stainless Steel armature tube on request



Ordering codes

Series	Port size	Functions	Orifice inch (mm)	Sealing materials	Version	Thread	Suitable coils	
0 4 F	0 3	1	1 0	N	1	N	C	A
	XF = 1"1/4	2 = 2/2 NO	40 = ____ (40)	N = NBR	1 = Without manual override	N = NPTF	C = C series - SOL20	A = 12V DC
	XG = 1"1/2		50 = ____ (50)	E = EPDM			D = D series - SOL20	B = 24V DC
	XH = 2"			V = FKM			E = E series - SOL21	1 = 24V AC
								2 = 110V AC
								3 = 220V AC
Valves and coils are supplied separately. Upon commercial agreements can be supplied assembled.								

Code	Sealing materials	Port size	Ø Orifice	Viscosity	Cv (Kv)	Differential pressure (OPD)			Power		Coils	
						psi (bar)			DC	AC	Size	Series
1	1	NPTF	inch (mm)	cSt	gpm (m³/h)	Min	Max DC	Max AC	W	VA	mm	C - Page 17.4 D - Page 17.5 E - Page 17.6

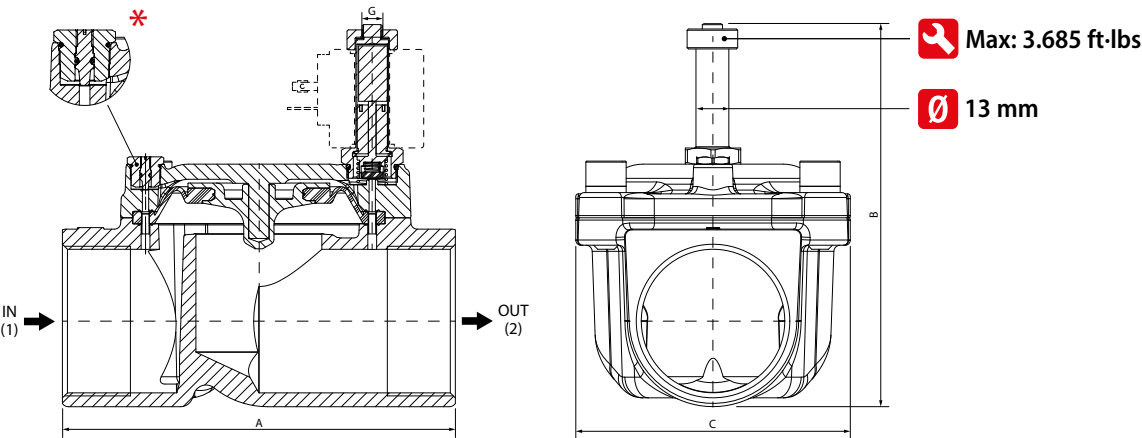
1 With Speed regulator and without manual override												
04F XF 2 40 _ 1N	N = NBR -10°C +90°C	1"1/4	1" 9/16 (40)	25	27.74 (24)	2.9 (0.2)	-	145 (10)	-	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21
04F XG 2 40 _ 1N	V = FKM -10°C +140°C	1"1/2	1" 9/16 (40)	25	29.2 (25.3)	2.9 (0.2)	-	145 (10)	-	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21
04F XH 2 50 _ 1N	E = EPDM -10°C +140°C	2"	1" 61/64 (50)	25	47.39 (41)	2.9 (0.2)	-	145 (10)	-	14	30	C - SOL20
							145 (10)	145 (10)	14	21	30	D - SOL20
							145 (10)	145 (10)	22	31	36	E - SOL21

1 Select seal material

With steam: EPDM - P max = 36 psi (2.5 bar)

Coil not included

* Speed regulator



Size	A inch (mm)	B inch (mm)	C inch (mm)	G
1"1/4	5.51 (140)	5.18 (131.7)	3.85 (98)	M8 x 1
1"1/2	5.51 (140)	5.18 (131.7)	3.85 (98)	M8 x 1
2"	6.14 (156)	5.97 (151.7)	4.29 (109)	M8 x 1

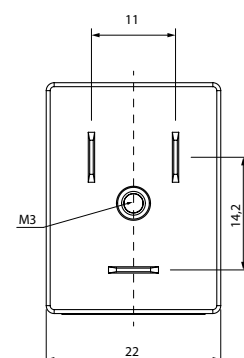
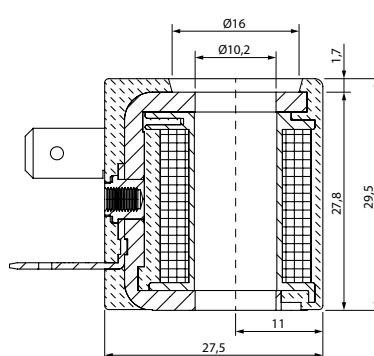
SERIES A

COIL

22 mm 

10 mm 

ED 100% 



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
AA	SOL10012C4000	12V DC	6.5 W	±10 %		
AB	SOL10024C4000	24V DC	6.5 W	±10 %		
A1	SOL10024A8000	24V AC / 50-60 Hz	7.5 VA	±10 %	+14°F (-10°C)	+176°F (+80°C)
A2	SOL10110A8000	110V AC / 50-60 Hz	7.5 VA	±10 %		
A3	SOL10220A8000	220V AC / 50-60 Hz	7.5 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM B - INDUSTRIAL
EN 175301-803
(EX D1N 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

IP67
IEC 60529
with connector IP67

OPTIONS

Other voltages/powers on request

SERIES B

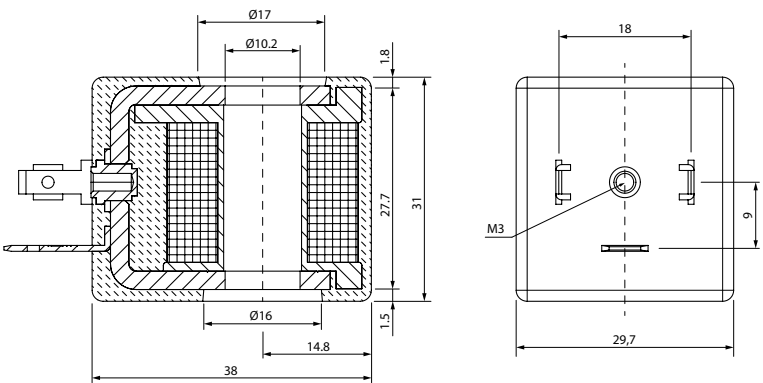
COIL



30 mm

10 mm

ED 100%



The dimensions are in millimeters (mm)



UL 429 & CSA C22.2 NO. 139-13

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
BA	SOL11012CS000	12V DC	8 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
BB	SOL11024CS000	24V DC	8 W	±10 %		
B1	SOL11024A9000	24V AC / 50-60 Hz	11 VA	±10 %		
B2	SOL11110A9000	110V AC / 50-60 Hz	11 VA	±10 %		
B3	SOL11220A9000	220V AC / 50-60 Hz	11 VA	±10 %		

INSULATION CLASS	H EN 60085	ENCAPSULATION MATERIAL	RYNITE®	ELECTRICAL CONNECTIONS	FORM A EN 175301-803 (EX DIN 43650)
AMBIENT TEMPERATURE	+14°F +176°F (-10°C +80°C)	PROTECTION DEGREE	IP67 IEC 60529 with connector IP67	OPTIONS	Other voltages/powers on request

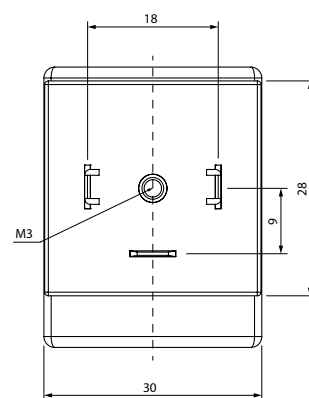
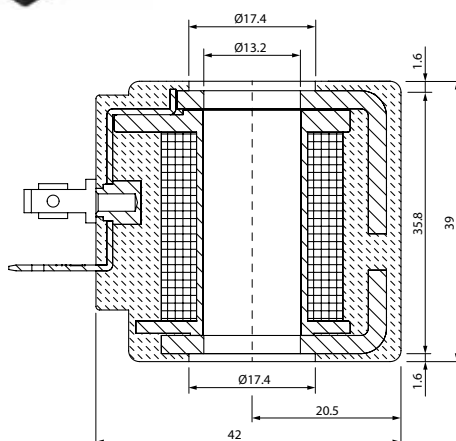
SERIES C

COIL

30 mm 

13 mm 

ED 100% 



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
CA	SOL20012C5000	12V DC	8 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
CB	SOL20024C5000	24V DC	8 W	±10 %		
C1	SOL20024AA000	24V AC / 50-60 Hz	14 VA	±10 %		
C2	SOL20110AA000	110V AC / 50-60 Hz	14 VA	±10 %		
C3	SOL20220AA000	220V AC / 50-60 Hz	14 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

IP67
IEC 60529
with connector IP67

OPTIONS

Other voltages/powers on request

SERIES D

COIL

30 mm

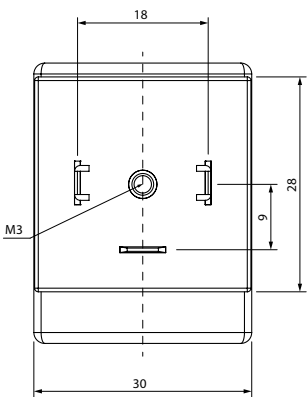
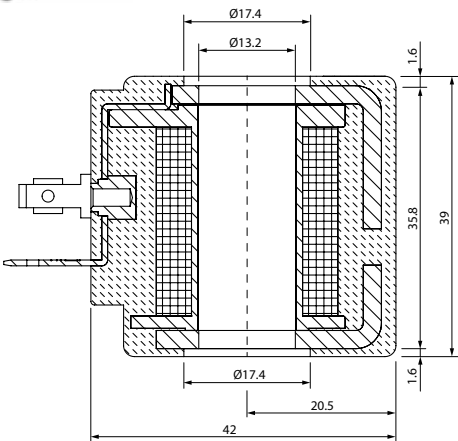


13 mm



ED 100%





UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
DA	SOL20012C6000	12V DC	14 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
DB	SOL20024C6000	24V DC	14 W	±10 %		
D1	SOL20024AB000	24V AC / 50-60 Hz	21 VA	±10 %		
D2	SOL20110AB000	110V AC / 50-60 Hz	21 VA	±10 %		
D3	SOL20220AB000	220V AC / 50-60 Hz	21 VA	±10 %		

INSULATION CLASS	H EN 60085	ENCAPSULATION MATERIAL	RYNITE®	ELECTRICAL CONNECTIONS	FORM A EN 175301-803 (EX DIN 43650)
AMBIENT TEMPERATURE	+14°F +176°F (-10°C +80°C)	PROTECTION DEGREE	IP67 IEC 60529 with connector IP67	OPTIONS	Other voltages/powers on request

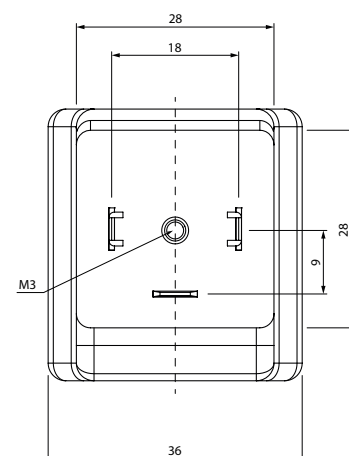
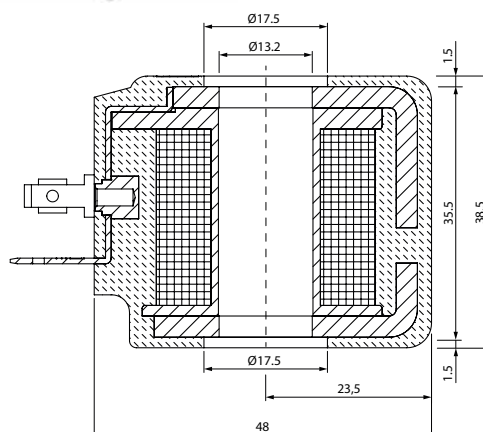
SERIES E

COIL

36 mm 

13 mm 

ED 100% 



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
EA	SOL21012C7000	12V DC	22 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
EB	SOL21024C7000	24V DC	22 W	±10 %		
E1	SOL21024AC000	24V AC / 50-60 Hz	31 VA	±10 %		
E2	SOL21110AC000	110V AC / 50-60 Hz	31 VA	±10 %		
E3	SOL21220AC000	220V AC / 50-60 Hz	31 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

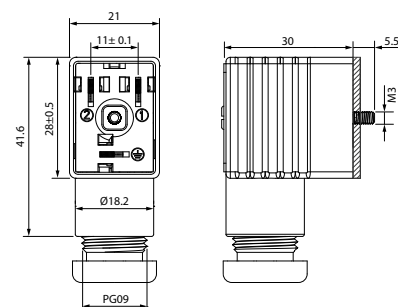
IP67
IEC 60529
with connector IP67

OPTIONS

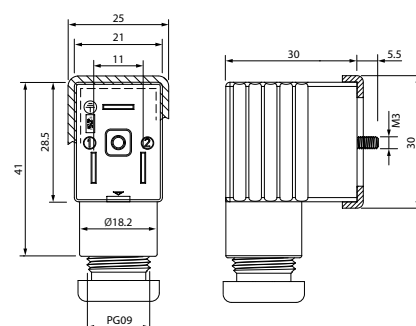
Other voltages/powers on request

CONNECTORS

22 mm 



The dimensions are in millimeters (mm)



The dimensions are in millimeters (mm)

Code	Size mm	Colour	Characteristics
CON01 000 01	22	BLACK	2 PINS
CON02 024 00	22	TRANSPARENT	LED + VDR 0 - 24V
CON02 110 00	22	TRANSPARENT	LED + VDR 110V
CON02 250 00	22	TRANSPARENT	LED + VDR 220V
* CONU1 000 01	22	BLACK	2 PINS
* CONU2 024 00	22	TRANSPARENT	LED + VDR 0 - 24V
* CONU2 110 00	22	TRANSPARENT	LED + VDR 110V
* CONU2 250 00	22	TRANSPARENT	LED + VDR 220V

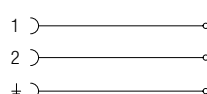
*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.

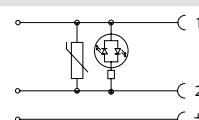


Wiring

CON01 000 01
CONU1 000 01



CON02 024 00 CON02 110 00 CON02 250 00
CONU2 024 00 CONU2 110 00 CONU2 250 00



ELECTRICAL
CONNECTIONS

FORM B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

PROTECTION
DEGREE

IP67
IEC 60529

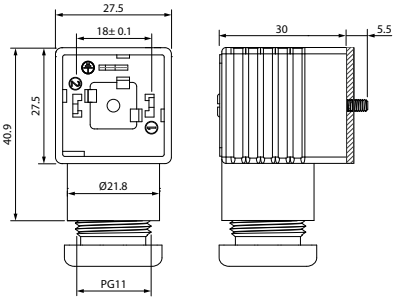
CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm

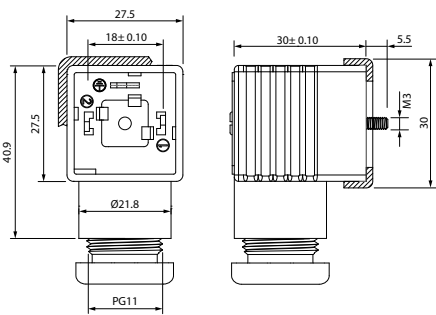
CONNECTORS

30-36 mm





The dimensions are in millimeters (mm)



The dimensions are in millimeters (mm)

Code	Size mm	Colour	Characteristics
CON31 000 01	30 - 36	BLACK	2 PINS
CON32 024 00	30 - 36	TRANSPARENT	LED + VDR 0 - 24V
CON32 110 00	30 - 36	TRANSPARENT	LED + VDR 110V
CON32 250 00	30 - 36	TRANSPARENT	LED + VDR 220V
* CONU3 100 01	30 - 36	BLACK	2 PINS
* CONU3 202 40	30 - 36	TRANSPARENT	LED + VDR 0 - 24V
* CONU3 211 00	30 - 36	TRANSPARENT	LED + VDR 110V
* CONU3 225 00	30 - 36	TRANSPARENT	LED + VDR 220V

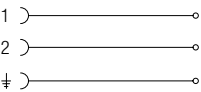
*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.

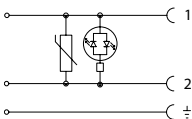


Wiring

CON31 000 01
CONU3 100 01



CON32 024 00 CON32 110 00 CON32 250 00
CONU3 202 40 CONU3 211 00 CONU3 225 00



ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

PROTECTION
DEGREE

IP67
IEC 60529

CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm