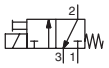
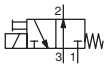
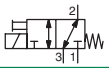
MINI-SOLENOID VALVES

ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connector size 15

NC 
NO 
U 

3/2
Series
302

FEATURES

- *Compact, monobloc solenoid pilot valve with spade-plug connector type EN 175301-803, industry standard form C, with 9,4 mm spacing, or to EN 175301-803, form C, with 8 mm spacing*
- *Version with or without integrated LED and electrical protection LED indicator visible from 3 sides*
- *The solenoid valves satisfy all relevant EU directives*



GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base ISO 15218 (CNOMO E06.36.120N, size 15)
Connection Subbase
Response time 8 - 15 ms

fluids (∗)	temperature range (TS)	seal materials (∗)
air or inert gas filtered at 50 µm, lubricated or not	-10°C to +50°C (LP1) (1)	NBR (nitrile) FPM (fluoroelastomer)
	-25°C to +60°C (LP2) (1)	
	-25°C to +60°C /+50°C (LP3) (1)	

(1) LP1, LP2, LP3: see "electrical characteristics" table

MATERIALS IN CONTACT WITH FLUID

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified

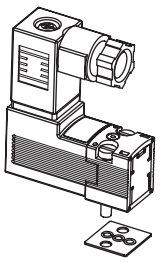
Body PARA
Internal parts POM, PET, stainless steel and brass
Seals NBR (disc), FPM (others)
Pneumatic interface seal TPE

OTHER MATERIALS

Coil Thermoplastic PET

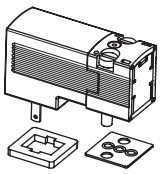
ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 4-6 mm)
Connector specification EN 175301-803, industry standard form B (9,4 mm) or EN 175301-803, form C (8 mm)
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=) : 24V
(Other voltages on request) AC (~) : 24V - 115V - 230V / 50-60 Hz



PNEUMATIC CNOMO interface (standard)

PNEUMATIC-ELECTRIC interface (available on request)



coils			power ratings (✧)				operator ambient temperature range (3) (TS)	type (2)
power ranges	voltages (V)		inrush ~	holding ~		hot/cold =		
	~	=	(VA)	(VA)	(W)	(W)	(°C)	
LP1	-	24	-	-	-	0,5 / 0,55	-10 to +50	01
LP2	24-115	24	1,4	1,2	1,1	1 / 1,2	-25 to +60	
LP3	230	24	2,1	1,6	1,5	2 / 2,65	-25 to +60 (~)/+50 (=)(3)	

(✧) **Nominal power ratings of versions without LED indicator and electrical protection.**
For versions with LED indicator and electrical protection, add:
0,15 W with DC (=)
0,4 W / VA with AC (~)

(2) Refer to the dimensional drawings on the following page. (3) With LED and joinable subbase mounting, see following pages

SPECIFICATIONS (NO and U, following page)

orifice size	flow at 6 bar l/min (ANR)		coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number					
								manual operator					
								impulse			maintained		
								9,4 mm		8 mm	9,4 mm		8 mm
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		~	=	=	~	=	=
NC - Normally closed (Without LED and protection)													
0,6	11	20	0,11	0,26	0	8	LP1	-	**30211106**	-	-	**30211107**	-
					0	10	LP2	**30211109**		**30210109**	**30211110**		**30210110**
0,8	17	28	0,22	0,35	0	8	LP2	**30211112**		**30210112**	**30211113**		**30210113**
1,1	32	51	0,35	0,50	0	5	LP2	**30211118**		**30210118**	**30211119**		**30210119**
					0	10	LP3	**30211121**		**30210121**	**30211122**		**30210122**
1,5	39	53	0,50	0,56	0	3	LP2	**30211124**		**30210124**	**30211125**		**30210125**
					0	6	LP3	**30211127**		**30210127**	**30211128**		**30210128**
NC - Normally closed (With LED and protection) (4)													
0,6	11	20	0,11	0,26	0	10	LP2	**30215109**		**30214109**	**30215110**		**30214110**
0,8	17	28	0,22	0,35	0	8	LP2	**30215112**		**30214112**	**30215113**		**30214113**
1,1	32	51	0,35	0,50	0	5	LP2	**30215118**		**30214118**	**30215119**		**30214119**
					0	10	LP3	**30215121**		-	**30215122**		-
1,5	39	53	0,50	0,56	0	3	LP2	**30215124**		**30214124**	**30215125**		**30214125**
					0	6	LP3	**30215127**		-	**30215128**		-

(4) Only available in 24 V AC/DC and 115 V AC.

	~	=
with connector	--A	--D
without connector	--L	--P

to be inserted after the basic catalogue number

When ordering, please specify in addition to the basic catalogue number:
the type of current: voltage / frequency + the version: with or without connector

Examples: • with connector 24V DC : **30211109**--D 24V DC
• without connector 24V DC : **30211109**--P 24V DC

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SPECIFICATIONS: NO, U

orifice size	flow at 6 bar l/min (ANR)		coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number			
								manual operator			
								impulse		maintained	
								9,4 mm	8 mm	9,4 mm	8 mm
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		~ =	=	~ =	=
NO - Normally open (Without LED and protection)											
0,8	20	17	0,26	0,20	0	8	LP2	**30211130**	**30210130**	**30211131**	**30210131**
					0	10	LP3	**30211133**	**30210133**	**30211134**	**30210134**
1	28	32	0,35	0,35	0	5	LP2	**30211136**	**30210136**	**30211137**	**30210137**
					0	8	LP3	**30211139**	**30210139**	**30211140**	**30210140**
1,5	53	39	0,56	0,50	0	2	LP2	**30211142**	**30210142**	**30211143**	**30210143**
					0	6	LP3	**30211145**	**30210145**	**30211146**	**30210146**
NO - Normally open (With LED and protection) (5)											
0,8	20	17	0,26	0,20	0	8	LP2	**30215130**	**30214130**	**30215131**	**30214131**
					0	10	LP3	**30215133**	**30214133**	**30215134**	**30214134**
1	28	32	0,35	0,35	0	5	LP2	**30215136**	**30214136**	**30215137**	**30214137**
					0	8	LP3	**30215139**	-	**30215140**	-
1,5	53	39	0,56	0,50	0	2	LP2	**30215142**	**30214142**	**30215143**	**30214143**
					0	6	LP3	**30215145**	-	**30215146**	-
	1 ↔ 2	2 ↔ 3	1 ↔ 2	2 ↔ 3							
U - universal (Without LED and protection)											
0,8	17	20	0,20	0,26	0	6	LP2	**30211148**	**30210148**	**30211149**	**30210149**
U - universal (With LED and protection) (5)											
0,8	17	20	0,20	0,26	0	6	LP2	**30215148**	**30214148**	**30215149**	**30214149**

(5) Only available in 24 V AC/DC and 115 V AC.

When ordering, please specify in addition to the basic catalogue number:
the type of current: voltage / frequency + the version: with or without connector

	~	=
with connector	--A	--D
without connector	--L	--P

to be inserted after the basic catalogue number

Examples:
- with connector 24V DC : **30211130**--D 24V DC
- without connector 24V DC : **30211130**--P 24V DC

OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator and Uv (Universal vacuum): contact us
- Version with pneumatic-electric interface
- Version 12 V DC, LP2, connector EN 175301-803, industry standard form C (9,4 mm)
- Connector EN 175301-803, form C (8 mm):
  - standard: catalogue number **88130211**
  - with cable 2 m length: Contact us
- Connector EN 175301-803, industry standard form C (9,4 mm):
  - standard: catalogue number **88143581**
  - with cable 2 m length: catalogue number **88143567**
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX-Directive 2014/34/EU (see "Explosionproof solenoids" section)

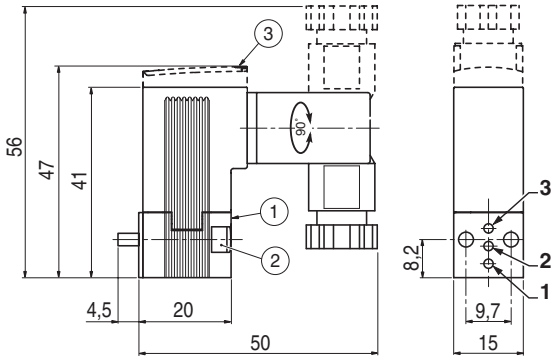
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)



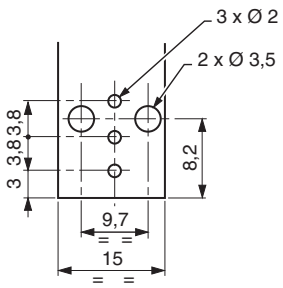
TYPE 01
IEC 335 / EN 175301-803
IP65



function		connection 1	2	3
	NC	P	O	E
	NO	E	O	P
universal	MIX	P2	O	P1
universal	SEL	O 2	P	O 1

P: Pressure O: Outlet
E: Exhaust

Subbase mounting surface: ISO 15218 (CNOMO E06.36.120N, size 15)



weight (1)
0,047

(1) with standard connector.

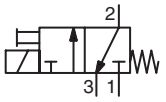
① Manual operator location
② 2 mounting screw M3 x 20
③ Version with LED and electrical protection

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MINI-SOLENOID VALVES

ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connection M12 or with cable ends

NC 

3/2
Series
302



FEATURES

- *Compact, monobloc solenoid pilot valve with M12 connector or cable ends*
- *Version with integrated LED indicator and electrical protection.*
  LED indicator visible from 3 sides
- *The solenoid valves satisfy all relevant EU directives*

GENERAL

Differential pressure	See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base	ISO 15218 (CNOMO E06.36.120N, size 15)
Connection	Subbase
Response time	8 - 15 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air or inert gas filtered at 50 µm, lubricated or not	-25°C to +60°C (LP2) (1)	NBR (nitrile) FPM (fluoroelastomer)

(1) LP2: see "electrical characteristics" table

MATERIALS IN CONTACT WITH FLUID

(✳) Ensure that the compatibility of the fluids in contact with the materials is verified

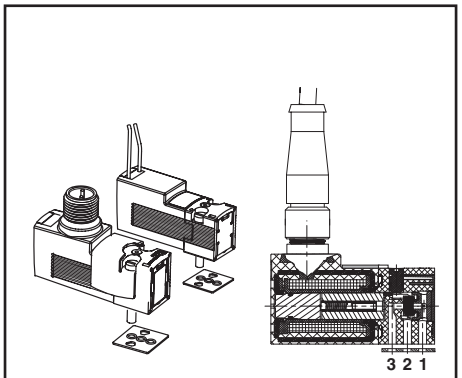
Body	PAA
Internal parts	POM, PET, stainless steel and brass
Pneumatic interface seal	TPE

OTHER MATERIALS

Coil	Thermoplastic PET

ELECTRICAL CHARACTERISTICS

Coil insulation class		F
Connection		Connector M12 or cable ends
Electrical safety		IEC 335
	connector M12	CNOMO E03.62.520.N
	cable ends	EN 60730
Electrical enclosure protection		Moulded IP67 (EN 60529)
Standard voltages		DC (=) : 24V



coils			power ratings (✧)				operator ambient temperature range (3) (TS)	type (2)
power ranges	voltages (V)		inrush ~	holding ~		hot/cold =		
	~	=	(VA)	(VA)	(W)	(W)	(°C)	
LP2	-	24	-	-	-	1,15 / 1,35	-25 to +60	01-02-03

(✧) **Nominal power ratings of standard versions (with LED indicator and electrical protection)**

(2) Refer to the dimensional drawings on the following page. (3) For joinable subbase mounting, see pages suivantes.

SPECIFICATIONS

orifice size	flow at 6 bar l/min (ANR)		coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number	
								manual operator	
(mm)	1 ➞ 2	2 ➞ 3	1 ➞ 2	2 ➞ 3	min.	max. (PS)		impulse	maintained
NC - Normally closed, connection M12 + LED and protection									
0,6	11	20	0,11	0,26	0	10	LP2	**30212109**	**30212110**
0,8	17	28	0,22	0,35	0	8	LP2	**30212112**	**30212113**
1,1	32	51	0,35	0,50	0	5	LP2	**30212118**	**30212119**
1,5	39	53	0,50	0,56	0	3	LP2	**30212124**	**30212125**
NC - Normally closed, cable ends + LED and protection									
0,6	11	20	0,11	0,26	0	10	LP2	**30213109**	**30213110**
0,8	17	28	0,22	0,35	0	8	LP2	**30213112**	**30213113**
1,1	32	51	0,35	0,50	0	5	LP2	**30213118**	**30213119**
1,5	39	53	0,50	0,56	0	3	LP2	**30213124**	**30213125**

When ordering:

	M12	cable	
with connector	--D		to be inserted after the basic catalogue number
without connector	--P		
complete		--D	

Examples:
- M12 with connector : **30212109**--D
- M12 without connector : **30212109**--P
- cable ends : **30213109**--D

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OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator, NO (Normally Open), U (Universal) and Uv (Universal vacuum): contact us
- Version with pneumatic-electric interface
- Straight M12 connector:
  - with 5 m cable length: catalogue number **88130212**
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX-Directive 2014/34/EU (see “Explosionproof solenoids” section)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

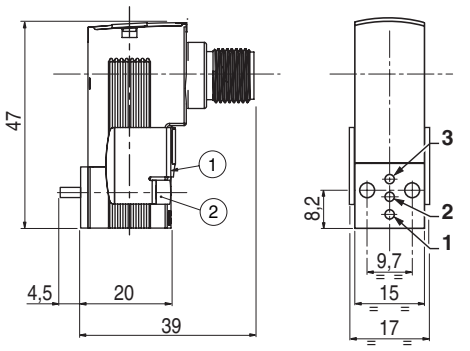
DIMENSIONS (mm), WEIGHT (kg)

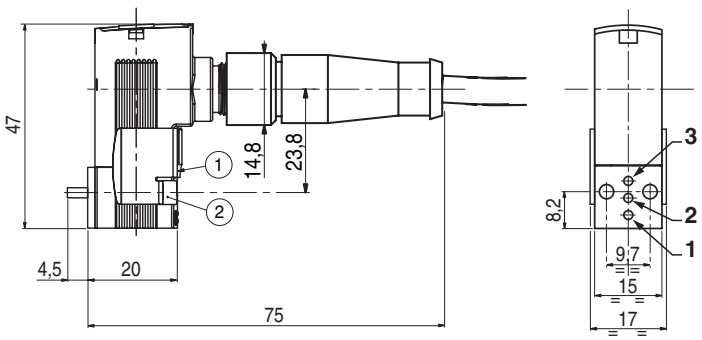


TYPE 01
IEC 335
Connection M12
IP67



TYPE 02
IEC 335 /
Straight M12 connector, 5 m cable length
IP67





(1) Manual operator location.
(2) 2 mounting screw M3 x 20

weight		
M12 (1)		cable ends
(1)	(2)	
0,049	0,288	0,040

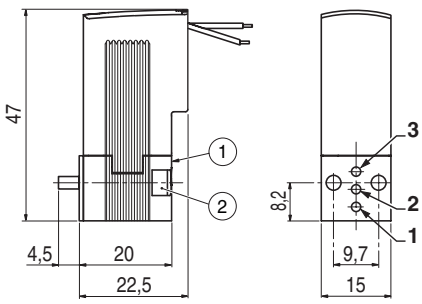
(1) Without connector
(2) With connector

	connection		
function	1	2	3
NC	P	O	E

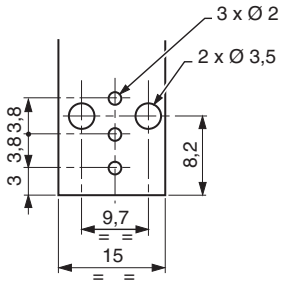
P: Pressure O: Outlet
E: Exhaust



TYPE 03
IEC 335
Cable ends 0,3 m length
IP67



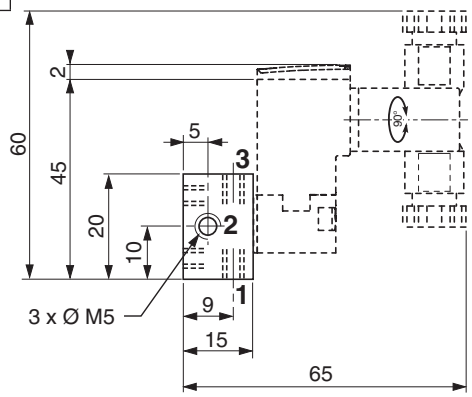
Subbase mounting surface: ISO 15218
(CNOMO E06.36.120N, size 15)



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DIMENSIONS (mm), WEIGHT (kg)

Single subbase
Aluminium or brass



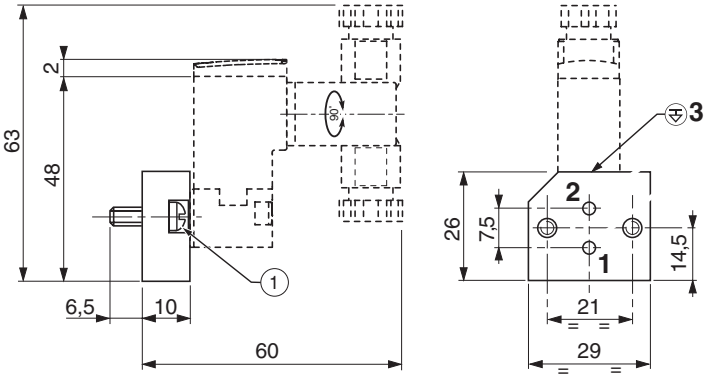
① Mounting: 2 holes M3, depth 4,5

Orifice (2) can be connected on the left or on the right of the subbase.

material	catalogue number	weight (1)
aluminium	**88263002**	0,011
brass	**30300001**	0,034

(1) subbase alone

Adapter CNOMO size 30
(**only for NC version**)
Aluminium

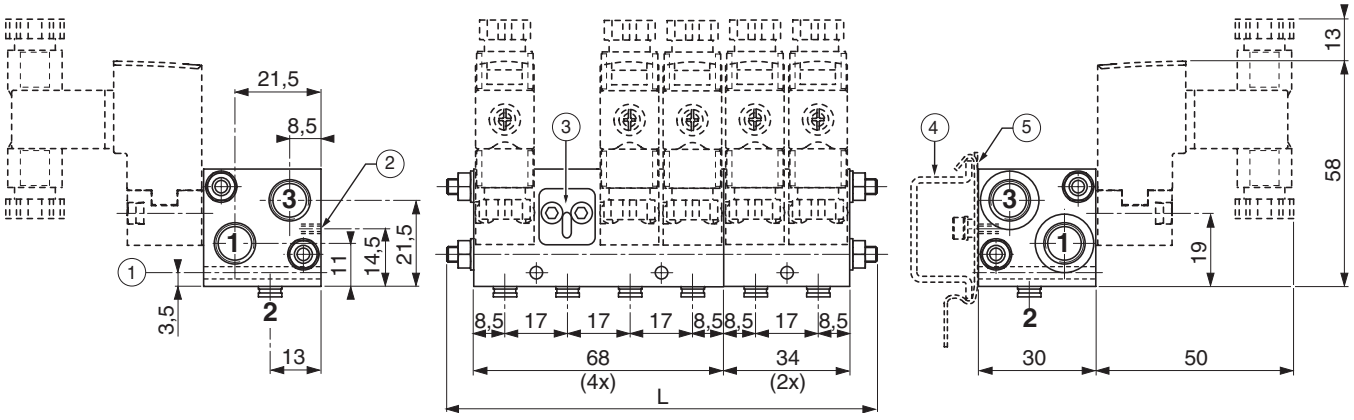


① Mounting: 2 screws M4 x 10 (supplied)

catalogue number	weight (2)
88263001	0,018

(2) adapter alone

Joinable subbases
Aluminium



Ports 1 and 3: G1/8

Port 2: coupling for 4mm OD tube

① Fixing hole Ø 3,2 (2 for 4x ; 1 for 2x)
② Fixing hole M3, depth 8 (2 for 4x ; 1 for 2x)
③ Mating surface blanking plates (option)
④ TS35 DIN rail (not supplied)
⑤ Clip for DIN rail mounting (option)

catalogue number	x	subbases	L	weight (3)
35500564	2	2x	-	0,076
35500565	4	4x	-	0,148
35500566	6	4x + 2x	114	0,236
35500567	8	4x + 4x	148	0,313
35500568	10	4x + 4x + 2x	182	0,389
35500569	12	4x + 4x + 4x	216	0,466

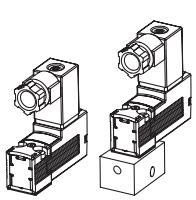
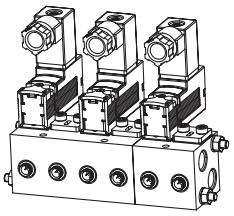
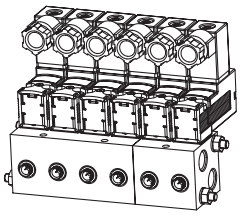
(3) subbases alone
x = place for mini-solenoid valves.
2 plugs R1/8 supplied.

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OPTIONS AND ACCESSORIES

- Additional subbase with 2 places (with seals): catalogue number **35500570**
- 2 tie-rods + nuts for a subbase with:
  4 places: catalogue number **88100752**
  6 places: catalogue number **88100753**
  8 places: catalogue number **88100754**
  10 places: catalogue number **88100755**
  12 places: catalogue number **88100756**
- Mounting kit for DIN rail (2 clips + screws + washers): catalogue number **88100757**
- Mating surface blanking plate: catalogue number **88130203**

AMBIENT TEMPERATURE RANGES

current type	power range	power coil		version			
		inrush/ holding (VA) ~	hot/cold (W) =				
DC (=)	LP1 (1)	-	0,5/0,55	standard	-10°C ; +50°C		-10°C ; +50°C
	LP2 (1)	-	1/1,2	standard	-25°C ; +60°C		-25°C ; +60°C
		-	1,15/1,35	LED + protection			-25°C ; +40°C
	LP3 (2)	-	2/2,65	standard	-25°C ; +50°C		-25°C ; +40°C
		-	2,15/2,8	LED + protection	-25°C ; +40°C		-
AC (~)	LP2 (2)	1,4/1,2	-	standard	-25°C ; +60°C		-25°C ; +40°C
		1,8/1,6	-	LED + protection			
	LP3 (2)	2,1/1,6	-	standard	-25°C ; +60°C		-25°C ; +40°C
		2,5/2	-	LED + protection	-25°C ; +50°C		-

(1) Voltage: -15% / +20%

(2) Voltage: -15% / +10%

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