

High switchable Δp

Hermetically sealed poppet valves

Excellent repeatability of switching times

Function even with larger voltage tolerance

Compact design

DN 1 to DN 40



Technical data

Medium:

For neutral gaseous and liquid fluids,
Natural gas to specification DVGW G260/1 *1)

Operation:

Solenoid direct and indirectly operated poppet valves
Indirectly with forced lifting

Mounting position:

Optional, preferably with solenoid on top

Flow direction:

Fixed

Port size:

G 1/8 to G 1 1/2

Operating pressure:

80 to 350 bar

Ambient temperature:

Depending on solenoid system
see Page 2 and 3

Fluid temperature:

-10* to +60°C AU (Polyurethan)
-40* to +80°C POM (Delrin)
-40* to +120°C PVDF/PI

*Please contact our technical service for use below +2°C.

Materials:

Housing: brass, stainless steel 1.4305, 1.4301

Sealing: see fluid temperature

Inner parts: brass, stainless steel 1.4305, 1.4105, 1.4301

Ordering example

See page 2

Further versions

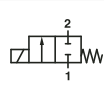
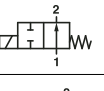
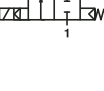
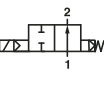
Solenoid systems for high temperatures

Block design

Variants on request

*1) With contaminated fluids, upstream installation of a dirt trap is recommended.

General information

Symbol	Type	Port size	Nominal size	Operating pressure(bar)		liquid to 25 mm ² /s	kv value (Cv)(US) ▼ kv x 1,2)	Material Housing	Seat seal	Weight (kg)	Dimensions No.
	9106200.0700 *2)	G 1/4	1,5	0	80	80	0,068	Ms	AU	0,55	1
	9106250.0800 *1)	G 1/4	1	0	200	200	0,035	1.4305	POM	0,6	3
	9922202.1001 *1)	G 1/4	1,2	0	300	300	0,035	1.4305	PI	1,2	4
	9922203.1001 *1)	G 1/4	1,8	0	175	175	0,07	1.4305	PI	1,2	4
	9106212.0700 *2)	G 1/4	1	0	80	–	0,035	Ms	AU	0,55	2
	9107200 0700	G 1/4	6	1	–	80	0,57	Ms	POM	0,6	5
	9107400 0700	G 1/4	6	1	80	–	0,57	Ms	POM	0,6	5
	9107300 0700	G 1/2	10	1	–	80	1,44	Ms	POM	0,76	6
	9107500 0700	G 1/2	10	1	80	–	1,44	Ms	POM	0,76	6
	9107318 0800	G 1/2	10	1	–	130	1,4	1.4305	PVDF	0,76	7
	9107525 0800	G 1/2	10	1	130	–	1,4	1.4305	PVDF	0,76	7
	9107318 9300	G 1/2	10	1	–	170	1,4	1.4305	PVDF	0,76	7
	9107525 9300	G 1/2	10	1	170	–	1,4	1.4305	PVDF	0,76	7
	9107212 0700	G 1/4	6	10	–	80	0,57	Ms	POM	0,6	5
	9107412 0700	G 1/4	6	10	80	–	0,57	Ms	POM	0,6	5
	9107312 0700	G 1/2	10	10	–	80	1,44	Ms	POM	0,76	6
	9107512 0700	G 1/2	10	10	80	–	1,44	Ms	POM	0,76	6

*1) Suitable for DC only

*2) Not suitable for water

Solenoid actuators

	Type	Power consumption		Rated current		Protection class	Temperature range Ambient/fluid °C	Electr. port	Weight (kg)	Circuit diagram No.
		24V DC (W)	230V AC (VA)	24 V DC (mA)	230 V AC (mA)					
	0700	16,9	27,7	703	120	IP65	-25 ... +60	DIN EN 175 301-803 Form A	0,27	1
	0800	16,9	27,7	703	120	IP65	-25 ... +60	DIN EN 175 301-803 Form A	0,26	1
	9300	18	35	750	152	IP65	-25 ... +55	DIN EN 175 301-803 Form A	0,40	1
	1001	20,2	38,9	841	795	IP65	-5 ... +40	PG 11	1,20	1

Ordering example

2/2-way valve, brass, port size G 1/4, Solenoid 24 V DC, protection class IP65

Type: **9106200.0700.024.00**

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult **NORGREN**.

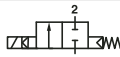
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

The following models are also suitable for natural gas applications/CNG

Symbol	Type	Port size	Nominal size	Operating pressure (bar)		liquid to 25 mm ² /s	kv value (Cv)(US) ▼ kv x 1,2)	Material Housing	Seat seal	Weight (kg)	Dimensions No.
	9922217.4148.024.00	G 1/2	5	0	200	-	0,5	1.4301	PTFE	1,8	8
	1030583*3)	G 1/2	6	0	350	-	0,6	1.4301	POM	1,95	9
	1030591*3)	Cartridge	6	0	350	-	0,6	-	POM	1,19	10
	1035241*3)	Cartridge	8	0	320	-	1,0	-	POM	1,19	10
	1035221*3)	Cartridge	10	5	320	-	1,9	-	POM	1,19	10
	1035020*3)	G 1/2	12	10	350	-	4,0	Al	POM	2,6	11
	1035040*3)	G1 / Flange	25	10	350	-	11,0	1.4301	POM	15	12
	1035060*3)	G 1 1/2 Flange	40	10	350	-	21,0	1.4301	POM	30	12

*3) please insert solenoid code and voltage each

Solenoid actuators

	Type	Power consumption		Rated current		Protection class	Temperature range	Electr. port	Weight (kg)	Dimensions No.	Circuit diagram No.
		24V DC (W)	230V AC (VA)	24 V DC (mA)	230 V AC (mA)		Ambient/Fluid °C				
	8301	22	-	917	-	IP65	-25 ... +50	DIN EN 175 301-803	0,7	13	1
	8304	-	25VA/22 W	-	107	IP65	-25 ... +50	DIN EN 175 301-803	0,7	14	6
	8341	22	-	917	107	EEx me II T3 IP65	-20 ... +40		0,85		1 & 6
	4148	5/44,8 *3)	-	208/1870 *3)		IP69 K with connector	-40 ... +80	Connection acc. to DIN 72585-2.3-Ag/K1 (Bayonet)	0,27	—	10

*3) Holding power/pull power

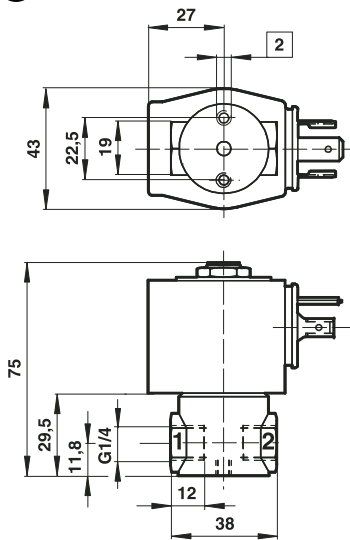
Accessories

Connectors

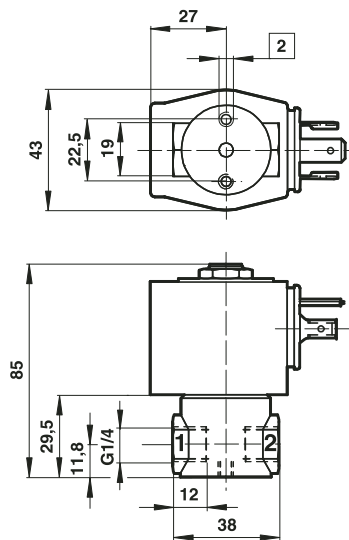
0570275
0663303 (with rectifier)

Basic dimensions

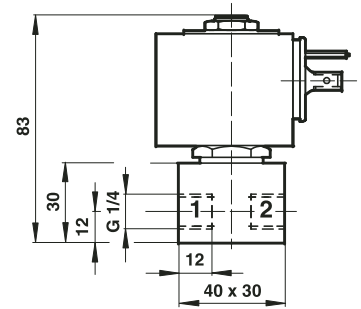
①



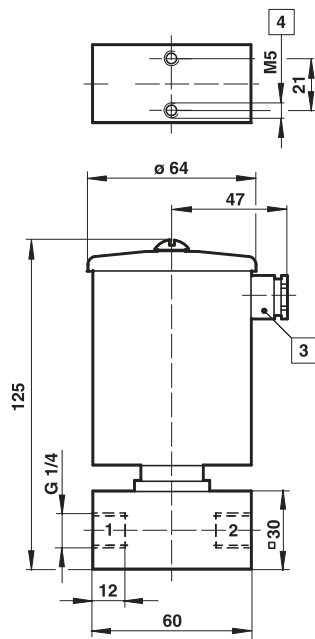
②



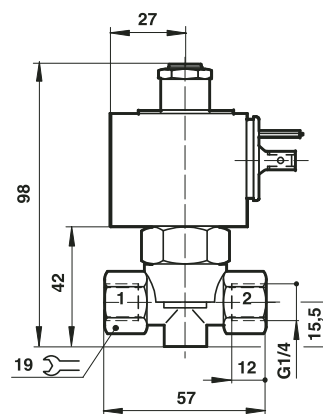
③



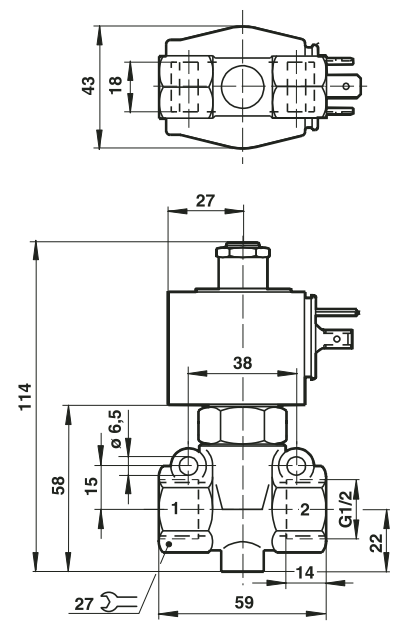
④



⑤

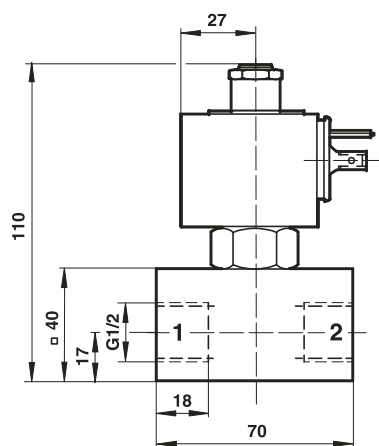


⑥

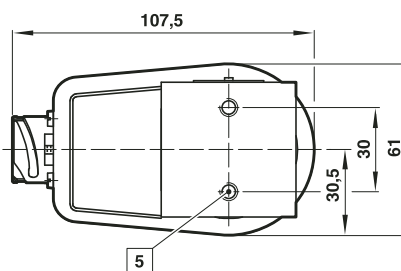


- | | |
|---|------------------------|
| 2 | M5 x 8 deep |
| 3 | Electr. port M20 x 1,5 |
| 4 | M5 x 6 deep |

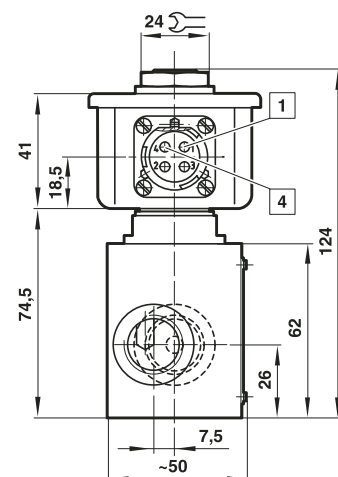
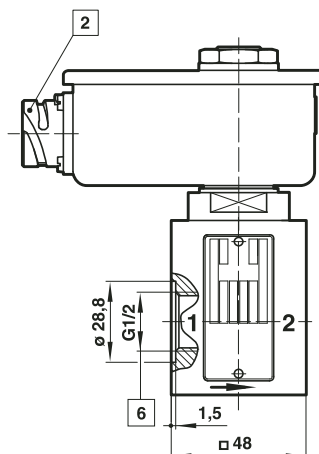
⑦



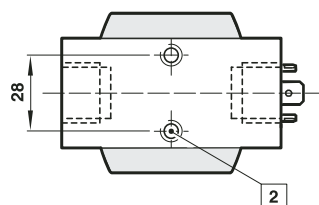
⑧



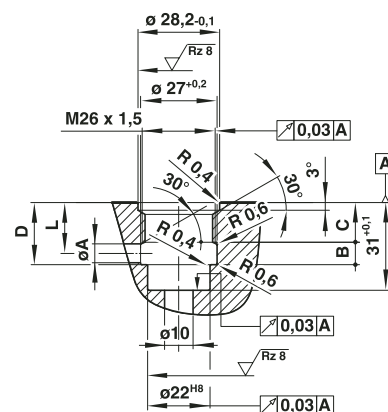
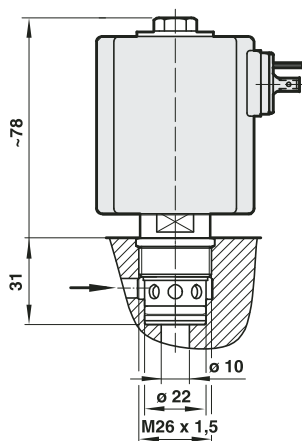
- 1 Pin 1 +
- 2 Connection acc. to DIN 72585-2.3Ag/K1
- 4 Pin 4 -
- 5 M6 x 6 deep
- 6 Port 14 deep



⑨



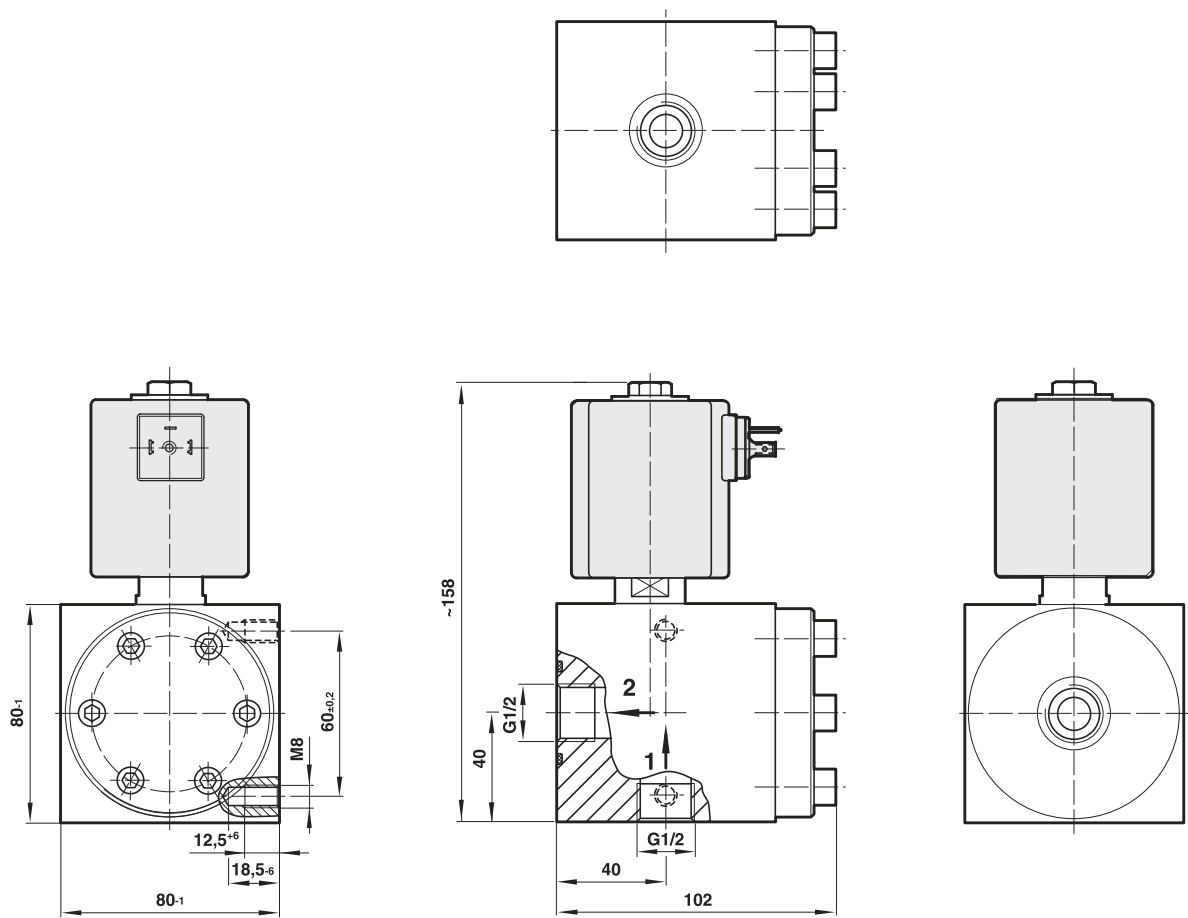
⑩



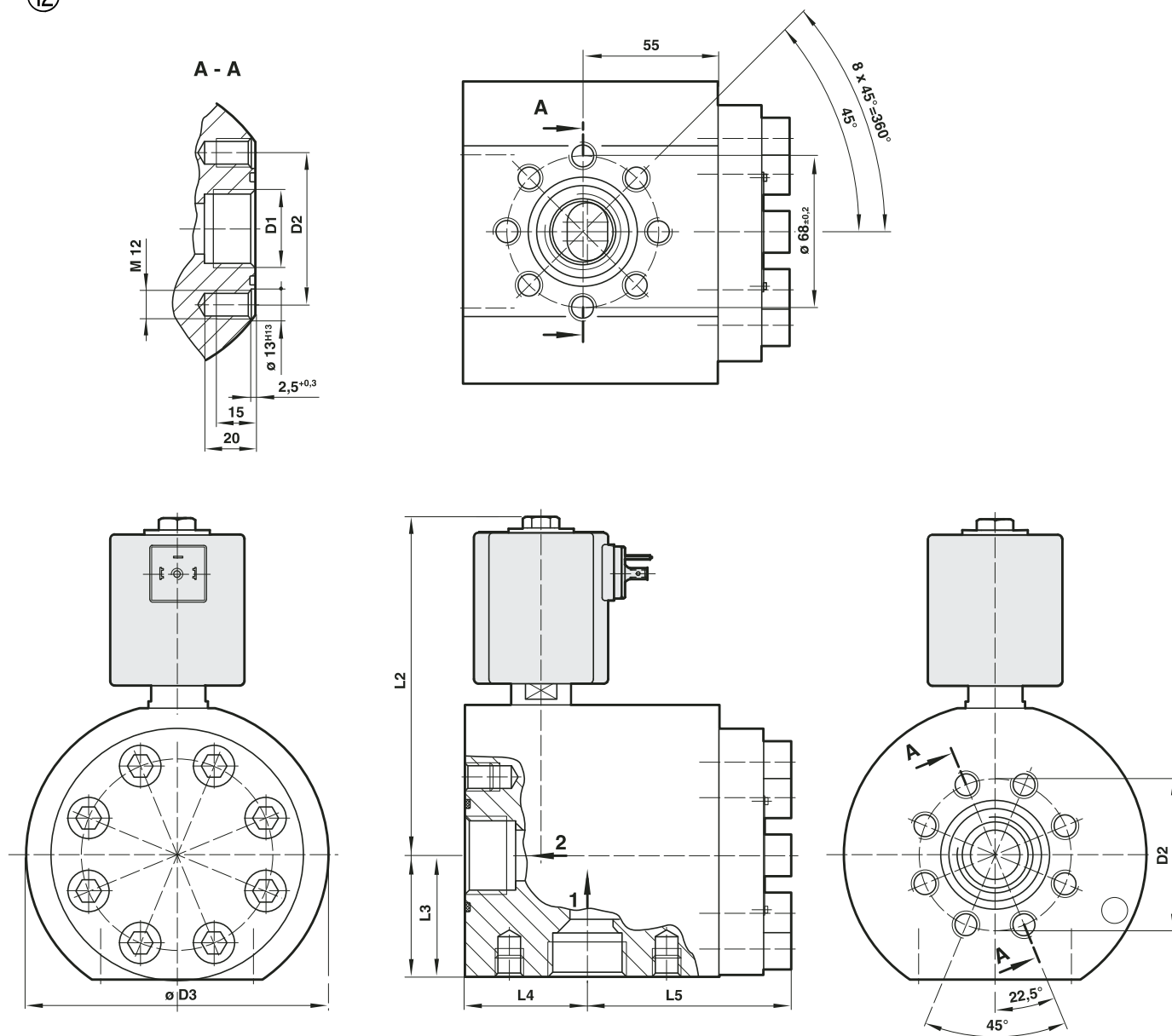
- 2 M6 x 8 deep

Type	A	B	C	D	L
1030591	7	8	14	22	18
1035241	8	8	14	22	17,5
1035221	9	9	13,5	22,5	18

11



12

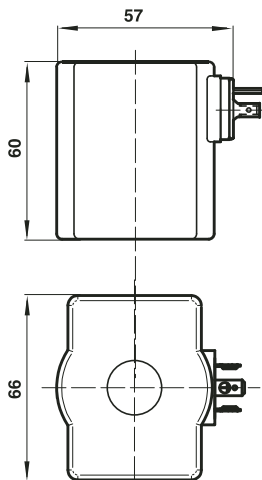


Type	1035040	1035060
ØD1	G 1	G 1 1/2
ØD2	68 ± 0.2	90 ± 0.2
ØD3	135	175
L1	120,5	157,5
L2	87	87
L3	55,5	72,5
L4	53	63,5
L5	88	117,5 F
Flange screws	16 x M12 x 35	16 x M12 x 40
Flange		
Ordering no..	0351753	0351754

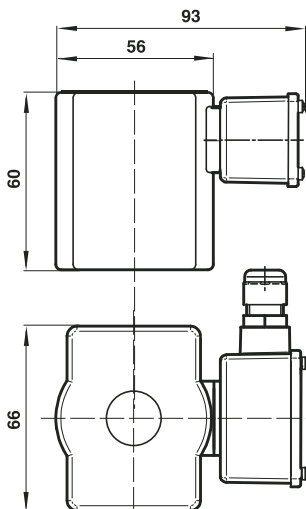
Blank flanges (please order separately)

Basic dimensions for solenoids

⑬

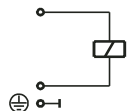


⑭

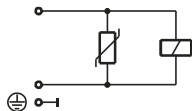


Circuit diagram

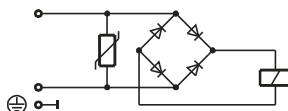
①



②



⑥



⑩

