

# GENERAL PURPOSE SOLENOID VALVES



UNOX Solenoid valves are two-or three way valves that operate with AC and DC electrical energy and provide control of various fluids(air, gas, fuel, steam, water, etc.). UNOX solenoid valves, consisting of body, sleeve, coil, diaphragm and core, are manufactured in twotypes as normally closed (to open the closed valve when the coil receives energy) and normally open (to close the open valve when it receives energy from the coil)

# 1/8" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1110



**GEM 1110**

### Product Description

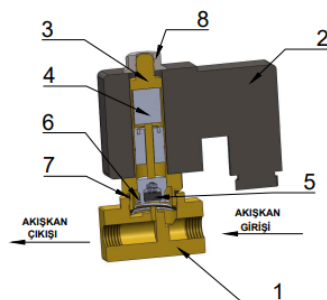
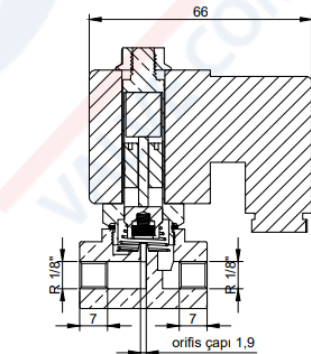
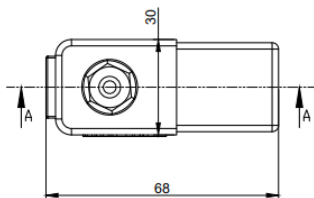
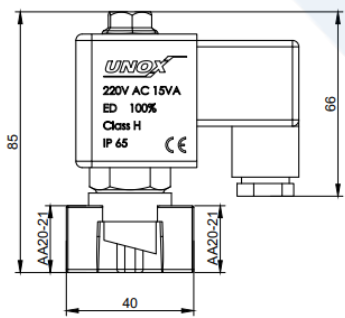
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products are designed to get the best efficiency.

### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
 Nominal Size: 1/8"  
 Nominal Pressure: PN 16  
 Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	1/8" General Purpose Normally Closed Solenoid Valve - GEM1110
Size	1/8"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	1-100 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,320 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	1,75

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VITON, PTFE, RUBY
8	Orifice Gasket	NBR, EPDM, VITON, PTFE, RUBY

# 1/4" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF GEM 1111



**GEM 1111**

## Product Description

Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products designed to get the best efficiency.

## Suggestions

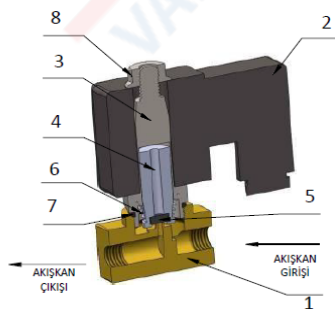
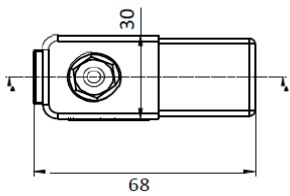
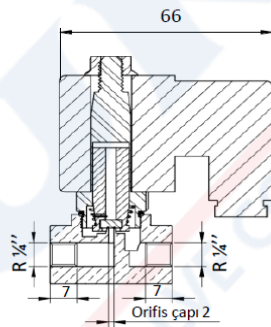
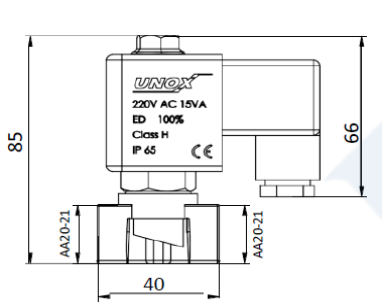
Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

## Usage

Valve Lock: Normally Closed  
Nominal Size: 1 1/4"  
Nominal Pressure: PN 16  
Temperature range: -10 to +90 °C

## Technical Specifications

Product Name - Code	1/4" General Purpose Normally Closed Solenoid Valf - GEM1111
Size	1/4"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Thread Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	1-100 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,310 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	1,8



No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diyaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VİTON, PTFE, RUBY
8	Orifis Gasket	NBR, EPDM, VİTON, PTFE, RUBY

# 3/8" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1112



**GEM 1112**

### Product Description

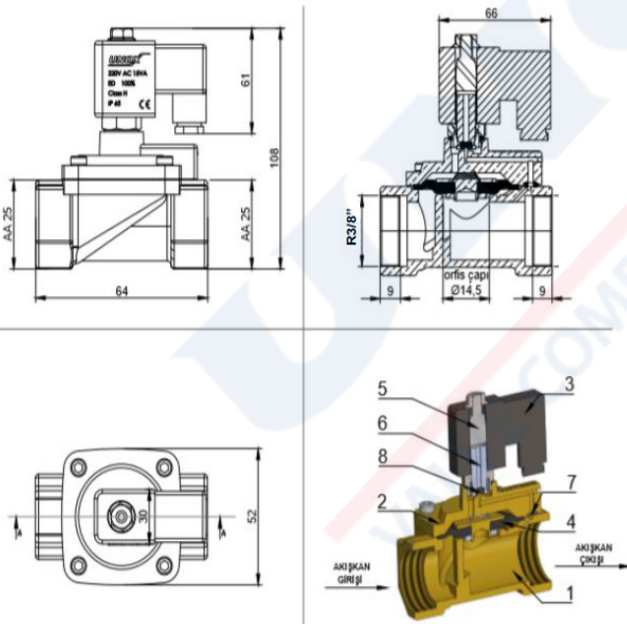
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products are designed to get the best efficiency.

### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
 Nominal Size: 3/8"  
 Nominal Pressure: PN 16  
 Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	3/8" General Purpose Normally Closed Solenoid Valve - GEM1112
Size	3/8"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Thread Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,680 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	48

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VITON, PTFE, RUBY
8	Orifice Gasket	NBR, EPDM, VITON, PTFE, RUBY

# 1/2" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1113



**GEM 1113**

### Product Description

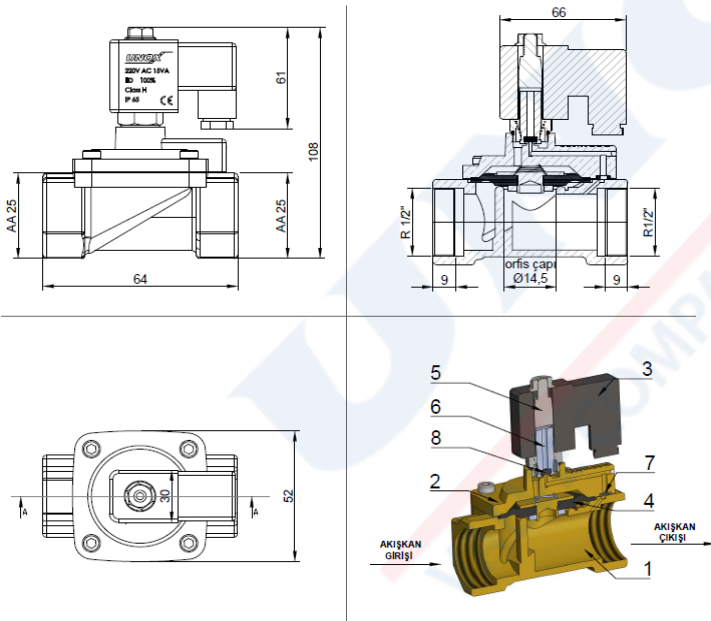
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the iris hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products are designed to get the best efficiency.

### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
Nominal Size: 1/2"  
Nominal Pressure: PN 16  
Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	1/2" General Purpose Normally Closed Solenoid Valve - GEM1113
Size	1/2"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,585 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	75

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diyaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VITON, PTFE, RUBY
8	Orifis Gasket	NBR, EPDM, VITON, PTFE, RUBY

# 3/4" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1114



**GEM 1114**

### Product Description

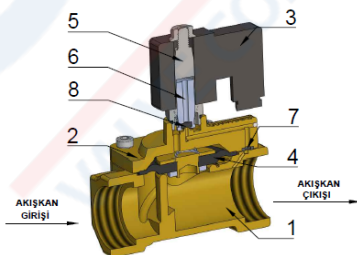
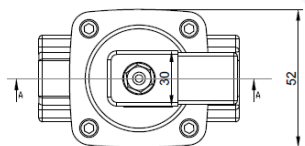
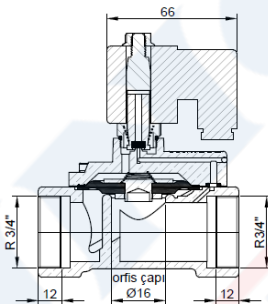
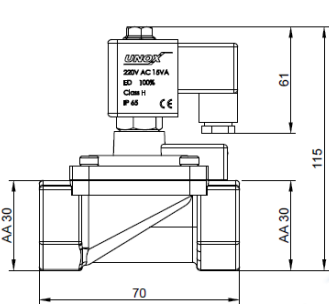
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products are designed to get the best efficiency.

### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
Nominal Size: 3/4"  
Nominal Pressure: PN 16  
Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	3/4" General Purpose Normally Closed Solenoid Valve - GEM1114
Size	3/4"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Thread Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,635 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	85

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Core	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VITON, PTFE, RUBY
8	Orifice Gasket	NBR, EPDM, VITON, PTFE, RUBY

# 1" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1115



**GEM 1115**

### Product Description

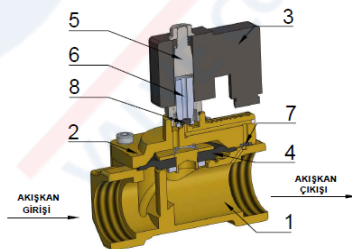
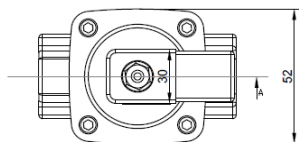
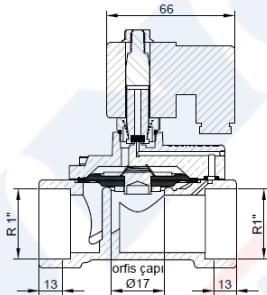
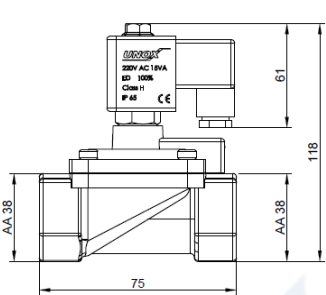
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products are designed to get the best efficiency.

### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
Nominal Size: 1"  
Nominal Pressure: PN 16  
Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	1" General Purpose Normally Closed Solenoid Valf - GEM1115
Size	1"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,700 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VİTON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	95

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Core	AISI316 Stainless Steel
6	Core Cover	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VİTON, PTFE, RUBY
8	Orifice Gasket	NBR, EPDM, VİTON, PTFE, RUBY

# 1 1/4" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1116



**GEM 1116**

### Product Description

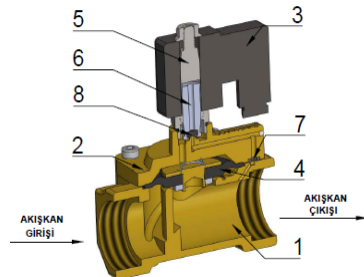
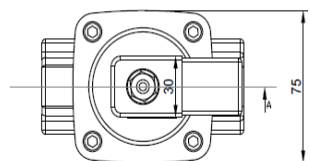
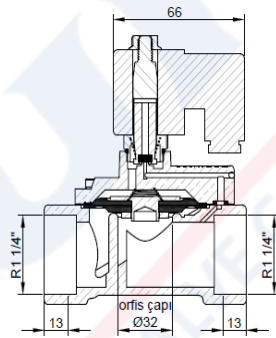
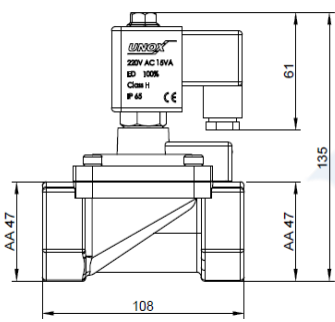
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### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
Nominal Size: 1 1/4"  
Nominal Pressure: PN 16  
Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	1 1/4" General Purpose Normally Closed Solenoid Valf - GEM1116
Size	1 1/4"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oild, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60°C
Valve Lock Status	General Purpose
Material Range	1,570 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VİTON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	1,8

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diyaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VİTON, PTFE, RUBY
8	Orifis Gasket	NBR, EPDM, VİTON, PTFE, RUBY



# 1 1/2" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1117



**GEM 1117**

### Product Description

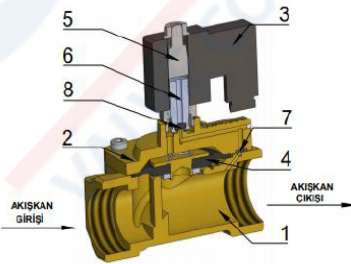
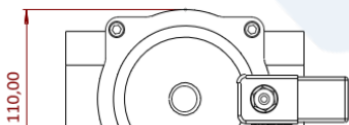
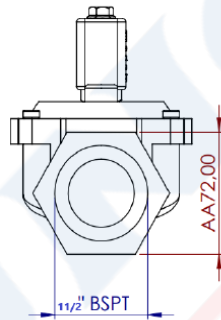
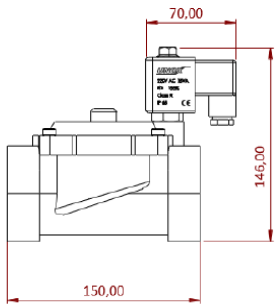
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### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
 Nominal Size: 1 1/2"  
 Nominal Pressure: PN 16  
 Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	1 1/2" General Purpose Normally Closed Solenoid Valve - GEM1117
Size	1 1/2"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	3,720 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	575

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diyaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VITON, PTFE, RUBY
8	Orifis Gasket	NBR, EPDM, VITON, PTFE, RUBY

# 2" GENERAL PURPOSE NORMALLY CLOSED SOLENOID VALF

## GEM 1118



**GEM 1118**

### Product Description

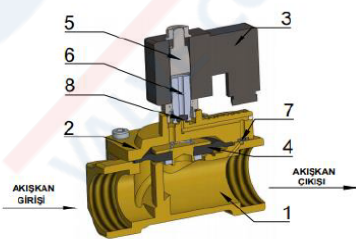
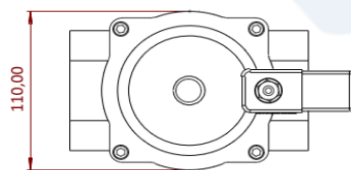
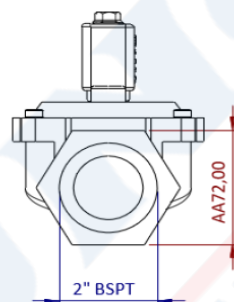
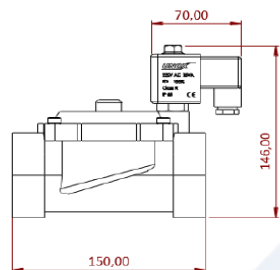
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the iris hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass hole, with this progress, the pressure inside drops very quickly and the pressure difference occurs inside. Due to this difference, the diaphragm lifts upwards by overcoming the spring force and the fluid is allowed to pass, thus the valve becomes open. All this happens in a very short time. Our products are designed to get the best efficiency.

### Suggestions

Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragm and gasket material.

### Usage

Valve Lock: Normally Closed  
Nominal Size: 2"  
Nominal Pressure: PN 16  
Temperature range: -10 to +90 °C



### Technical Specifications

Product Name - Code	2" General Purpose Normally Closed Solenoid Valf - GEM1118
Size	2"
Usages Areas	Water, Air, Neutral Gases, Liquids, Oil, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-16 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+90 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	3,520 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPDM:-10°C/+130°C) , (VITON:-10°C/+160°C) ,(PTFE:-10°C/+180°C)
Response Time	Open Time: 300 ms Closed Time: 900ms
KVs(lt/dk)	575

No	Track Name	Material Name
1	Valf Body	MS 58
2	Body Cover	MS 58
3	Coil Cover	Powered Fiber Glass
4	Diyaphragm	NBR, EPDM, SKM, PTFE, RUBY
5	Hive	AISI316 Stainless Steel
6	Core	430F Stainless Steel
7	Bypass Gasket	NBR, EPDM, VITON, PTFE, RUBY
8	Orifis Gasket	NBR, EPDM, VITON, PTFE, RUBY