

# GENERAL PURPOSE HIGH PRESSURE 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)

# 3/8" GENERAL PURPOSE HIGH PRESSURE NORMALLY CLOSED SOLENOID VALF GEM 1112YB



**GEM 1112 YB**

## Product Description

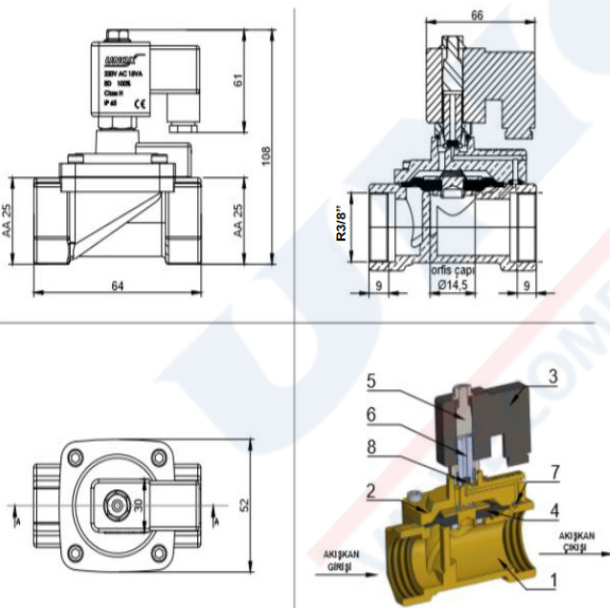
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the iris hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass 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 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 +150 °C



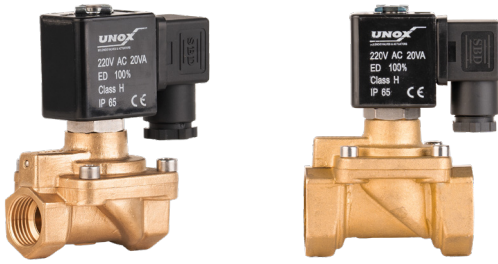
## Technical Specifications

Product Name - Code	3/8" General Purpose High Pressure Normally Closed Solenoid Valf - GEM1112YB
Size	3/8"
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	0,5-40 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,355 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)	395

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

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

## GEM 1113YB



**GEM 1113 YB**

### Product Description

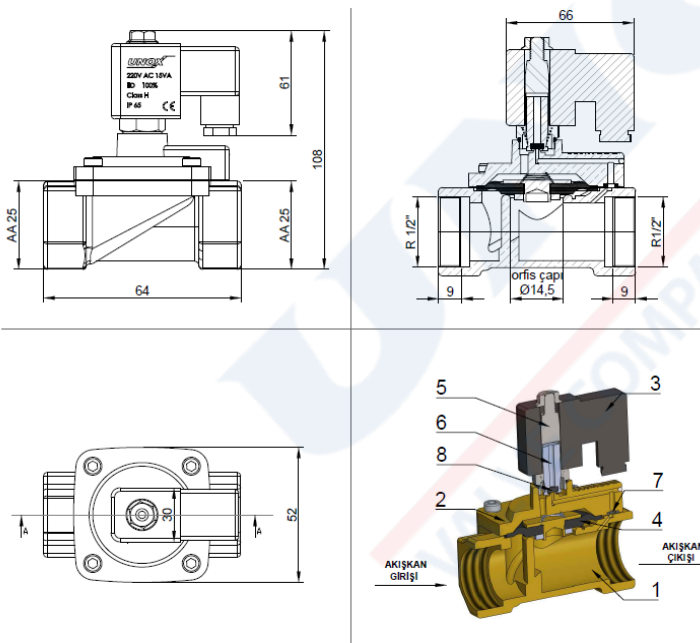
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the 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: 1/2"  
Nominal Pressure: PN 16  
Temperature range: -10 to +150 °C



### Technical Specifications

Product Name - Code	1/2" General Purpose High Pressure Normally Closed Solenoid Valf - GEM1113YB
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	0,5-40 bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,450 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)	395

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, VİTON, PTFE, RUBY
8	Orifis Gasket	NBR, EPDM, VİTON, PTFE, RUBY

# 3/4" GENERAL PURPOSE HIGH PRESSURE NORMALLY CLOSED SOLENOID VALF GEM 1114YB



**GEM 1114YB**

## Product Description

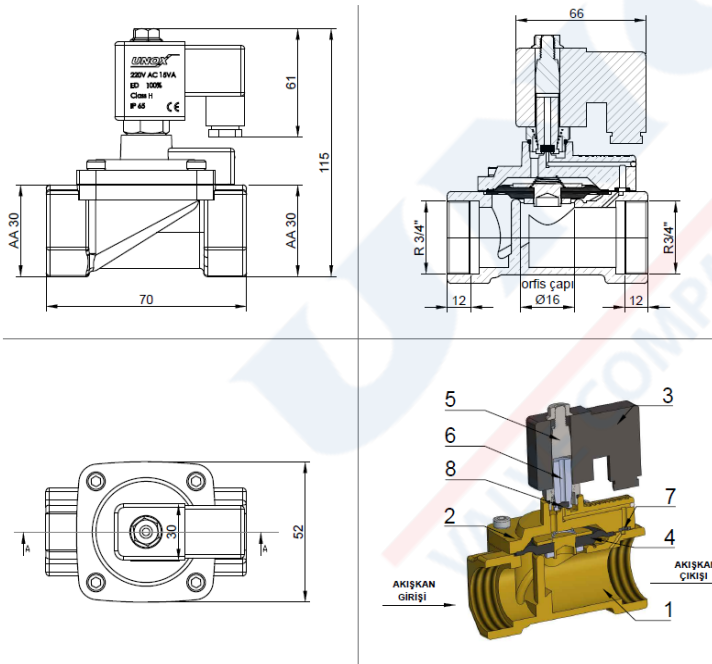
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the orifice hole opens, so that the fluid under high pressure quickly moves to the outlet from the 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: 3/4"  
Nominal Pressure: PN 16  
Temperature range: -10 to +150 °C



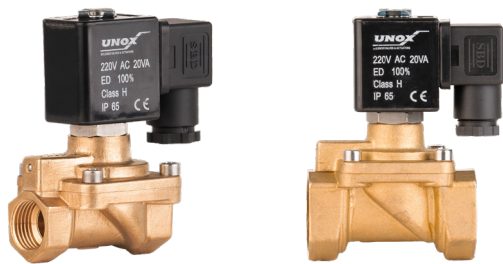
## Technical Specifications

Product Name - Code	3/4" General Purpose High Pressure Normally Closed Solenoid Valf - GEM1114YB
Size	3/4"
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	0,5-40 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,625 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)	395

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	Orifis Gasket	NBR, EPDM, VITON, PTFE, RUBY

# 1" GENERAL PURPOSE HIGH PRESSURE NORMALLY CLOSED SOLENOID VALF

## GEM 1115YB



**GEM 1115YB**

### Product Description

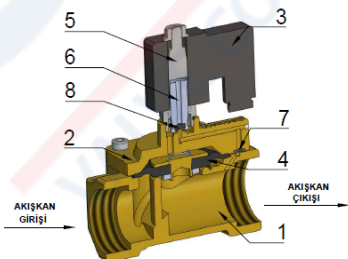
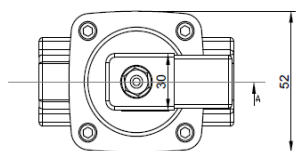
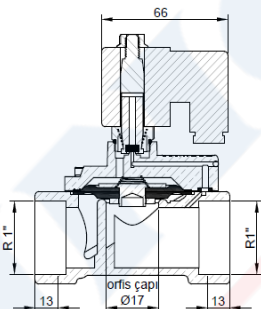
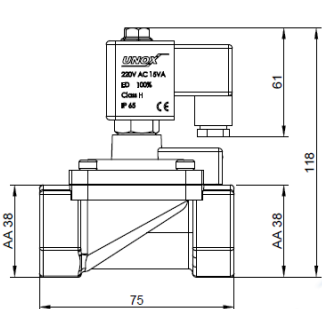
Normally Closed Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the iris hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass 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"  
Nominal Pressure: PN 16  
Temperature range: -10 to +150 °C



### Technical Specifications

Product Name - Code	1" General Purpose High Pressure Normally Closed Solenoid Valve - GEM1115YB
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	0,5-40 Bar
Coil Specification	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Environment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Material Range	0,690 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)	395

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