

## 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 irfis 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 happensin a very short time. Our produefficiency. ctis designed to get the best

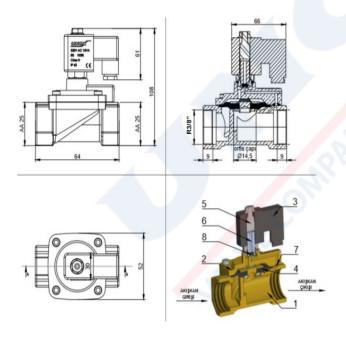
#### Suggestions

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 diaphragmand gasket material.

#### Usage

Valve Lock: Normally Closed Nominal Size: 3/8" Nominal Pressure: PN 16

Temperature range: -10 to +150 ° C



Product Name - Code	3/8" General Purpose High Pres- sure Normally Closed Solenoid Valf - GEM1112YB
Size	3/8"
Usages Areas	Water, Air, Neutral Gases, Liqui- ds, Oild, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-40 Bar
Coil Specitication	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Envirenment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Metarial Range	0,355 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C/+80°C), (EPD- M:-10°C/+130°C), (VİTON:-10°- C/+160°C), (PFTE:-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	Diyaphgram	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

#### 1/2" 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 irfis 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 happensin a very short time. Our productis designed to get the best efficiency.

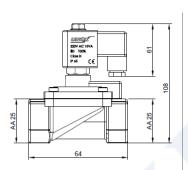
#### Suggestions

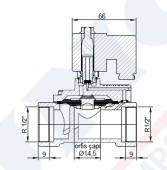
Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragmand gasket material.

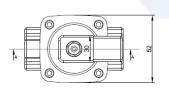
#### Usage

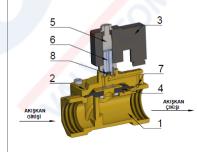
Valve Lock: Normally Closed Nominal Size: 1/2" Nominal Pressure: PN 16

Temperature range: -10 to +150 ° C









Product Name - Code	1/2" General Purpose High Pres- sure Normally Closed Solenoid Valf - GEM1113YB
Size	1/2"
Usages Areas	Water, Air, Neutral Gases, Liqui- ds, Oild, Vapors Up To Maximum 180°C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-40 bar
Coil Specitication	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Envirenment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Metarial Range	0,450 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C /+80°C) , (EPD- M:-10°C/+130°C) , (VİTON:-10°- C/+160°C) ,(PFTE:-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	Diyaphgram	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 irfis 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 happensin a very short time. Our productis designed to get the best efficiency.

#### Suggestions

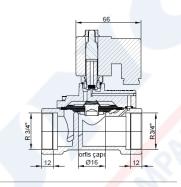
Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragmand gasket material.

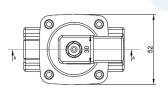
#### Usage

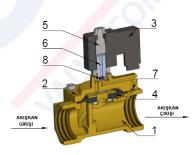
Valve Lock: Normally Closed Nominal Size: 3/4" Nominal Pressure: PN 16

Temperature range: -10 to +150  $^{\circ}$  C

# 220 AC 10 AA CO 10 AC ACCO 10 AC A







Product Name - Code	3/4" General Purpose High Pres- sure Normally Closed Solenoid Valf - GEM1114YB
Size	3/4"
Usages Areas	Water, Air, Neutral Gases, Liqui- ds, Oild, Vapors Up To Maximum 180 °C
Connection Tooth Feature	BSP, Optionally NPT
Nominal Pressure	16 Bar
Working Pressure Range	0,5-40 Bar
Coil Specitication	IP 65, Class H, ED %100
Fluid Operating Temperature Range	-10/+150 °C
Envirenment Operating Temperature Range	-10/+60 °C
Valve Lock Status	Normally Closed
Metarial Range	0,625 kg
Flow Direction Feature	One Way
Diaphragm and Seal Feature	(NBR:-10°C/+80°C), (EPD- M:-10°C/+130°C), (VİTON:-10°- C/+160°C), (PFTE:-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	Diyaphgram	NBR, EPDM, SKM, PTFE, RUBY
ſ	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" 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 irfis 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 happensin a very short time. Our productis designed to get the best efficiency.

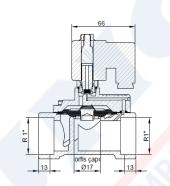
#### Suggestions

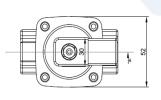
Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragmand gasket material.

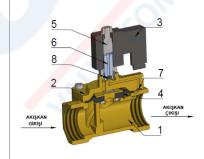
#### Usage

Valve Lock: Normally Closed Nominal Size: 1" Nominal Pressure: PN 16 Temperature range: -10 to +150 ° C

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Product Name - Code  1" General Purpose High Pressure Normally Closed Solenoid Valf - GEM1115YB  Size  1"  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  Coil Specitication  Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Normally Closed  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  Ninghor C /+80°C), (EPD-M:-10°C/+130°C), (VİTON:-10°-C/+160°C), (PFTE:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms  KVs(lt/dk)  395		
Usages Areas  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  Coil Specitication  Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Normally Closed  Metarial Range  Plow Direction Feature  Diaphragm and Seal Feature  Diaphragm and Seal Feature  Response Time  Open Time: 300 ms  Closed Time: 900ms	Product Name - Code	re Normally Closed Solenoid Valf
ds, Oild, Vapors Up To Maximum 180 °C  Connection Tooth Feature  BSP, Optionally NPT  Nominal Pressure  16 Bar  Working Pressure Range  Coil Specitication  Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Normally Closed  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  Nest one Way  Normally Closed  (NBR:-10°C /+80°C), (EPD-M:-10°-C/+130°C), (VİTON:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms	Size	1"
Nominal Pressure  Working Pressure Range  Coil Specitication  Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  Response Time  Nominal Pressure  0,5-40 Bar  -10/+150 °C  -10/+150 °C  Normally Closed  Normally Closed  Normally Closed  Normally Closed  (NBR:-10°C /+80°C) , (EPD-M:-10°C/+130°C) , (VİTON:-10°-C/+160°C) , (PFTE:-10°-C/+180°C)  Open Time: 300 ms Closed Time: 900ms	Usages Areas	ds, Oild, Vapors Up To Maximum
Working Pressure Range  Coil Specitication  Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  Response Time  O,5-40 Bar  10,5-40 Bar  100  100  100  100  100  100  100  1	Connection Tooth Feature	BSP, Optionally NPT
Coil Specitication  Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  Normally Closed  Metarial Range  One Way  (NBR:-10°C /+80°C) , (EPD-M:-10°C/+130°C) , (VİTON:-10°-C/+160°C) , (PFTE:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms	Nominal Pressure	16 Bar
Fluid Operating Temperature Range  Envirenment Operating Temperature Range  Valve Lock Status  Normally Closed  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  M:-10°C/+130°C), (EPD- M:-10°C/+130°C), (VİTON:-10°- C/+160°C), (PFTE:-10°- C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms	Working Pressure Range	0,5-40 Bar
Range  Envirenment Operating Temperature Range  Valve Lock Status  Normally Closed  Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  (NBR:-10°C /+80°C), (EPD-M:-10°C/+130°C), (VİTON:-10°-C/+160°C), (PFTE:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms	Coil Specitication	IP 65, Class H, ED %100
Temperature Range  Valve Lock Status  Normally Closed  Metarial Range  Flow Direction Feature  One Way  Diaphragm and Seal Feature  (NBR:-10°C /+80°C), (EPD-M:-10°C/+130°C), (VİTON:-10°-C/+160°C), (PFTE:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms		-10/+150 °C
Metarial Range  Flow Direction Feature  Diaphragm and Seal Feature  (NBR:-10°C /+80°C), (EPD-M:-10°C/+130°C), (VİTON:-10°-C/+160°C), (PFTE:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms	1	-10/+60 °C
Flow Direction Feature  One Way  Diaphragm and Seal Feature  (NBR:-10°C /+80°C), (EPD-M:-10°C/+130°C), (VİTON:-10°-C/+160°C), (PFTE:-10°-C/+180°C)  Response Time  One Way  Open Time: 300 ms Closed Time: 900ms	Valve Lock Status	Normally Closed
Diaphragm and Seal Feature  (NBR:-10°C /+80°C) , (EPD-M:-10°C/+130°C) , (VİTON:-10°-C/+160°C) , (PFTE:-10°-C/+180°C)  Response Time  Open Time: 300 ms Closed Time: 900ms	Metarial Range	0,690 kg
M:-10°C/+130°C) , (VİTON:-10°-   C/+160°C) , (PFTE:-10°-   C/+180°C)	Flow Direction Feature	One Way
Closed Time: 900ms	1 0	M:-10°C/+130°C) , (VİTON:-10°- C/+160°C) ,(PFTE:-10°-
KVs(lt/dk) 395	Response Time	
L L	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	Diyaphgram	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