

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 OPEN SOLENOID VALF GEM 1112YBA





GEM 1112YBA

Product Description

Normally Opened 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.

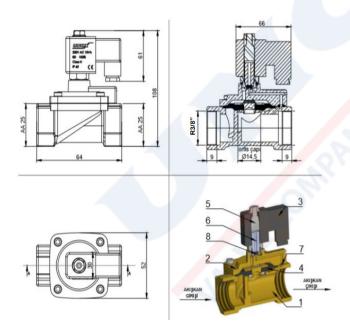
Suggestions

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 Open 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 Open Solenoid Valf - GEM1112YBA
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 Open
Metarial Range	0,310 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)	1,8

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 OPEN SOLENOID VALF GEM 1113YBA





GEM 1113YBA

Product Description

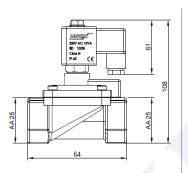
Normally Opened Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the irfis hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass 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 best designed get the efficiency. to

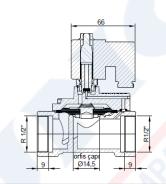
Suggestions

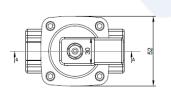
Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragmand gasket material.

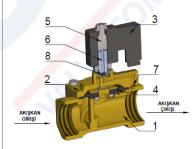
Usage

Valve Lock: Normally Open 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 Open Solenoid
	Valf - GEM1113YBA
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 Open
Metarial Range	0,585 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)	75

	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
N	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 OPEN SOLENOID VALF GEM 1114YBA





GEM 1114YBA

Product Description

Normally Opened 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.

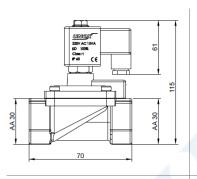
Suggestions

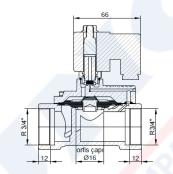
Mount the solenoid valve with the coil above. In the installation, such as strainer before the solenoid valve, etc. For high temperatures, we use more durable diaphragmand gasket material.

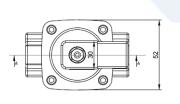
Usage

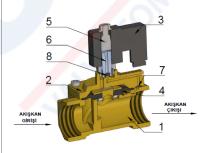
Valve Lock: Normally Open Nominal Size: 3/4" Nominal Pressure: PN 16

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









Product Name - Code	3/4" General Purpose High Pres- sure Normally Open Solenoid Valf - GEM1114YBA
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 Open
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)	85

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" GENERAL PURPOSE HIGH PRESSURE NORMALLY OPEN SOLENOID VALF GEM 1115YBA





GEM 1115YBA

Product Description

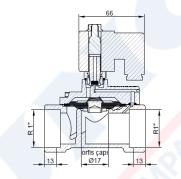
Normally Opened Solenoid Valve does not allow fluid to pass through initially. With the electric current coming to the coil to open the valve, the coil moves and pulls the core upwards and the mouth of the irfis hole opens, so that the fluid under high pressure quickly moves to the outlet from the bypass 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 very short time. Our produhappensin a ctis designed to get the best efficiency.

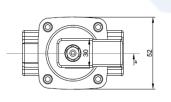
Suggestions

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 Open Nominal Size: 1" Nominal Pressure: PN 16 Temperature range: -10 to +150 ° C







Product Name - Code 1" General Purpose High Pressure Normally Open Solenoid Valf - GEM1115YBA 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 Open Metarial Range Flow Direction Feature Diaphragm and Seal Feature Niph Colored (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 KVs(lt/dk) 95		
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 Open 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 Open 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 Open Metarial Range Flow Direction Feature Diaphragm and Seal Feature Nest one Way Normally Open 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	Size	1"
Nominal Pressure Working Pressure Range Coil Specitication Fluid Operating Temperature Range Envirenment Operating Temperature Range Valve Lock Status Mormally Open Metarial Range Flow Direction Feature Diaphragm and Seal Feature Response Time Nominal Pressure 16 Bar 0.5-40 bar 10/4-40 bar 10/4-150 °C 10/+150 °C 10/+60 °C Normally Open Normally Open (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 Normally Open Metarial Range Flow Direction Feature Diaphragm and Seal Feature Nind C/+130°C (VİTON:-10°-C/+180°C) Response Time Open Time: 300 ms Closed Time: 900ms	Connection Tooth Feature	BSP, Optionally NPT
Coil Specitication Fluid Operating Temperature Range Envirenment Operating Temperature Range Valve Lock Status Mormally Open Metarial Range Flow Direction Feature Diaphragm and Seal Feature Normally Open Mormally Open Mormally Open Mormally Open Mormally Open (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 Open Metarial Range Flow Direction Feature Diaphragm and Seal Feature Normally Open (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	Working Pressure Range	0.5-40 bar
Range Envirenment Operating Temperature Range Valve Lock Status Normally Open 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 Open 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 2 2	-10/+150 °C
Metarial Range Flow Direction Feature Diaphragm and Seal Feature M:-10°C/+130°C), (EPD-M:-10°-C/+130°C), (VİTON:-10°-C/+180°C) Response Time One Way (NBR:-10°C/+80°C), (EPD-M:-10°-C/+130°C), (VİTON:-10°-C/+180°C) 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 Open
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	0,700 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) 95	Response Time	
	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	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