



# ANYANG KAI DI ELECTROMAGNETIC TECHNOLOGY CO.,LTD



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## COMPANY

### INTRODUCTION //////////////////////////////////

Anyang Kaidi Electromagnetic Technology Co.,Ltd, located in anyang that the famous world cultural heritage Yin Ruins is here. During the development of more than 60 years, we have formed two main products: switching solenoid and proportional solenoid. Its varieties are more than 400. Its capacity can reach 6 million pieces per year. We have obtained the ISO9001 certification, ISO14001, GB/T28001, CE and UL certification.

The manufacturing technique were introduced from German BSO. American VICKERS and Japan YUKEN. We have series of high precision CNC machine, injecting machine and encapsulating machine controlled by PLC, automatic winding machine. We also have all kinds of high precision apparatus, such as solenoid performance test instrumen. Endurance test-bed with high pressure (100MPa), impulsing fatigue test equipment and so on. These equipments and inspecting means provide the strong guarantee for the qualities of the products.

Involved so many years in the market competence, we have the ability to develop varieties of solenoids and also have a passionate and creative team.

We will always create more value for our users by the spirit of "Pursuing Perfecting And Earnest" voluntarily.





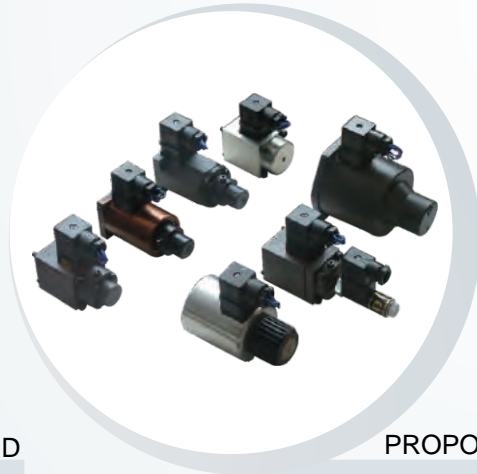
YUKEN SOLENOID



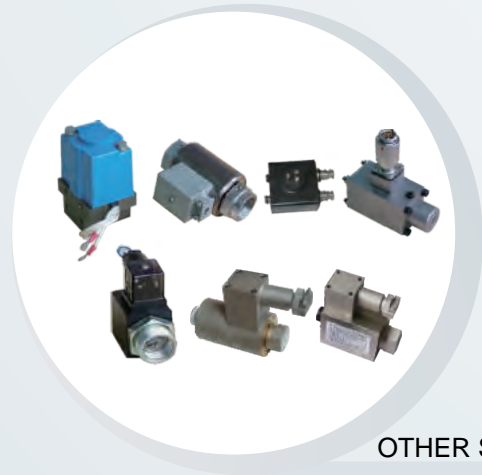
REXROTH SOLENOID



VICKERS SOLENOID



PROPORTIONAL SOLENOID

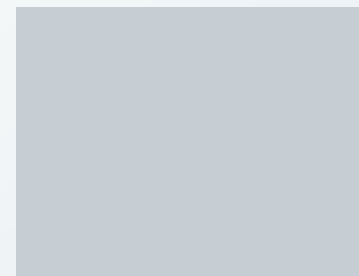


OTHER SOLENOID



PROPORTIONAL SOLENOID WITH SCREW THREAD

Production Site Show



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## Purpose

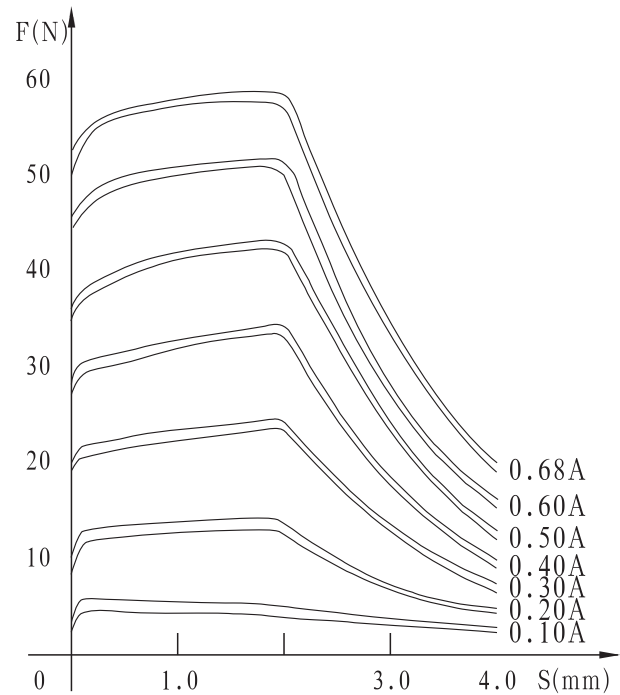
This product is a set of electric-mechanical transformation equipment, together with proportional control amplifier, used in the electric-hydraulic proportional control system of DC 24V. They are used in the proportional flux control valve and proportional directional valve of REROTH. In the range of the rated stroke and rated current, the output force & stroke is proportional to the input current, and the force is permanent within rated stroke, the input current is infinitely variable control within rated range, it can be realized infinite speed variation, commutation and telecontrol in the hydraulic system actuator.



## Key Parameters

Code	GP35-4-A
Rated Current (A)	0.68
Room Temperature Resistance 20°C (Ω)	24.6
Rated Force (N)	50
Rated Stroke (mm)	2
Total Stroke (mm)	4
Force Lag Characteristic (%)	≤3
Current Lag Characteristic(%)	≤3
Repeat Accuracy (%)	≤1
Static Oil Pressure (MPa)	21
Degree Of Enclosure	IP65

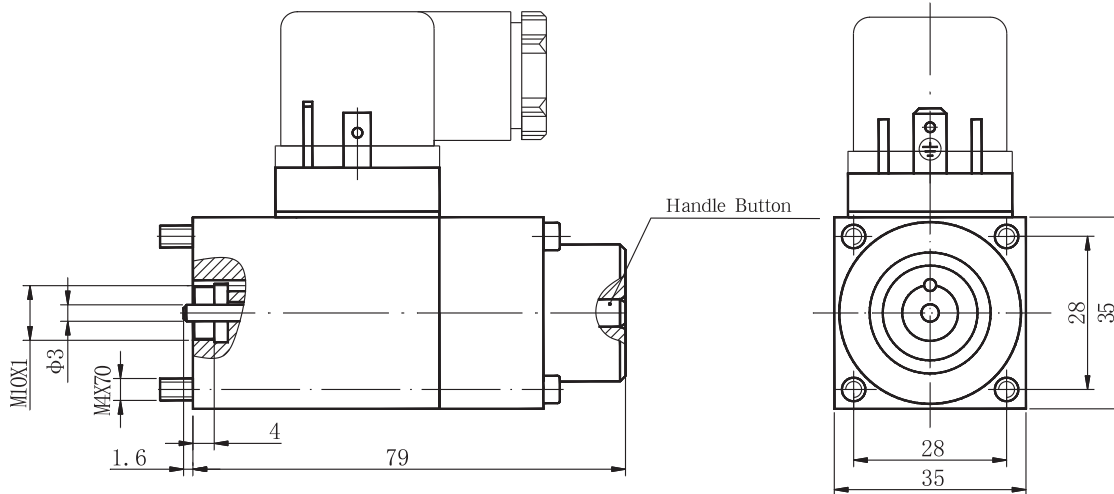
## Steady Stroke-Force Curve







## Externality & Installation Dimensions



## Operating Notice

- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The handle operating button is fit for adjustment, service and sometime in emergency.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- The solenoid fit for continuous duty.

## Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



# GP45 SERIES PROPORTIONAL VALVE SOLENOID<I>

## Purpose

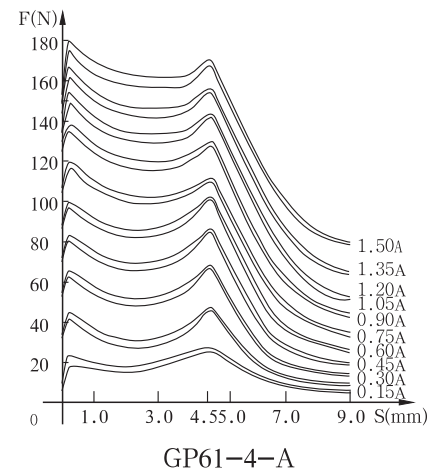
This product is a set of electric-mechanical transformation equipment, together with proportional control amplifier, used in the electric-hydraulic proportional system of DC 24V. They are used in the proportional flux control valve and proportional directional valve of REROTH. In the range of rated stroke and rated current, the input force & stroke is proportional to the input current, and the force is permanent within rated stroke. When given a definite current, the solenoid can be adjusted force by itself compression spring, then change the input flux of proportional flux control valve. The input current is infinitely variable control within rated range. It can make the outfit of the hydraulic system realize infinite speed variation, commutation and telecontrol.



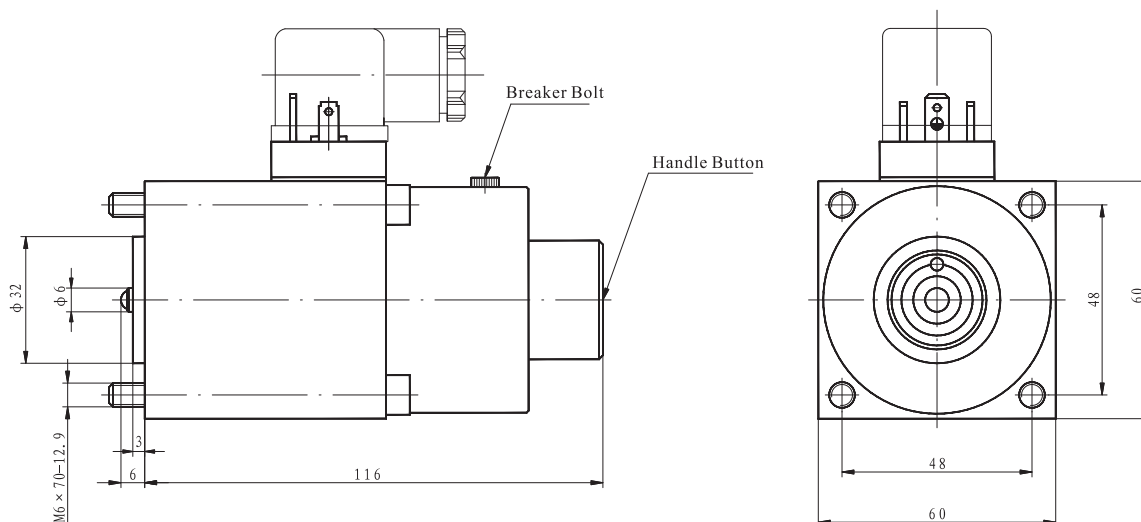
## Key Parameters

Code	GP45-4-A	
Rated Current	(A)	0.8
Room Temperature Resistance 20°C	(Ω)	19.5
Rated Force	(N)	80
Rated Stroke	(mm)	3
Total Stroke	(mm)	6
Force Lag Characteristic	(%)	≤3
Current Lag Characteristic	(%)	≤3
Repeat Accuracy	(%)	≤1
Static Oil Pressure	(MPa)	21
Degree Of Enclosure		IP65

## Steady Stroke-Force Curve



## Externality & Installation Dimensions





## Operating Notice

- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The handle operating button is fit for adjustment, service and sometime in emergency.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The solenoid fit for continuous duty.

## Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



## GP45 SERIES PROPORTIONAL VALVE SOLENOID<II>

### Purpose

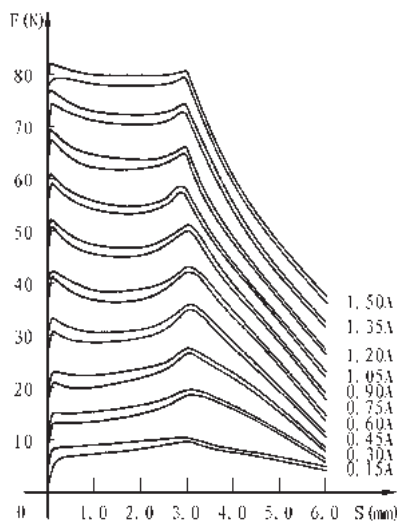
This product is a set of electric-mechanical transformation, together with proportional control amplifier, used in the electric-hydraulic proportional system of DC 24V or 12V. They are used in the proportional flux control valve and proportional directional valve of REXROTH. In the range of the rated stroke and rated current, the output force & stroke is proportional to the input current, the force is permanent within rated stroke, the input current is infinitely variable control within rated range. It can make the outfit of the hydraulic system realize infinite speed variation, commutation and telecontrol.



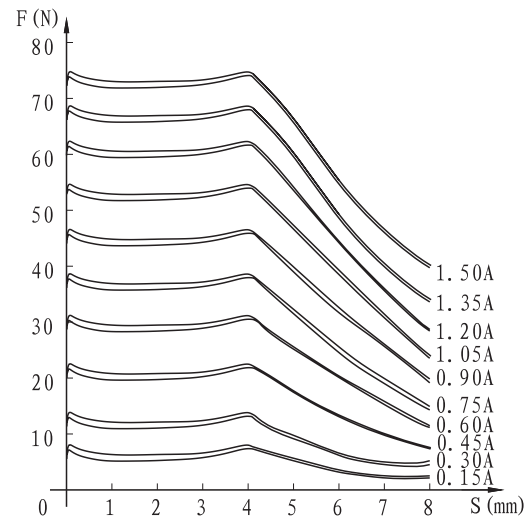
### Key Parameters

Code		GP45A4-A	GP45B4-A
Rated Current	(A)	0.8/1.5	0.8/1.5
Room Temperature Resistance 20°C	(Ω)	19.5/5.4	19.5/5.4
Rated Force	(N)	80	75
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	6	8
Force Lag Characteristic	(%)	≤4	≤4
Current Lag Characteristic	(%)	≤3	≤3
Repeat Accuracy	(%)	≤1	≤1
Static Oil Pressure	(MPa)	21	21
Degree Of Enclosure		IP65	IP65

### Steady Stroke-Force Curve



GP45A4-A



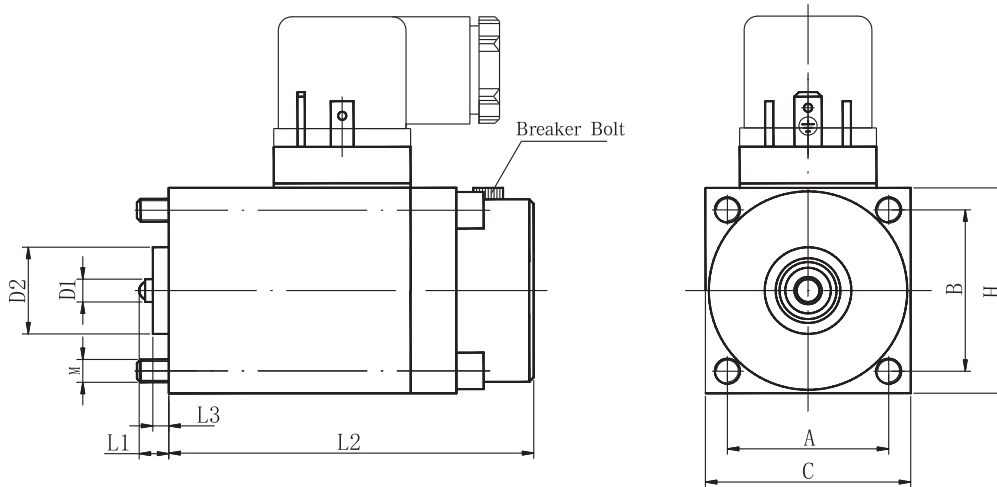
GP45B4-A





## GP45 SERIES PROPORTIONAL VALVE SOLENOID<II>

### Externality & Installation Dimensions



Nominal Size	A	B	C	D1	D2	H	L1	L2	L3	M
GP45A4-A	35.3	35.3	45	φ 5	φ 19	45	6.5	80	3.5	M5X70-12.9
GP45B4-A	35.3	35.3	45	φ 5	φ 19	45	6.5	80	3.5	M5X70-12.9

### Operating Notice

- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The solenoid fit for continuous duty.
- Please note the current specification.

### Explanation Of Sample

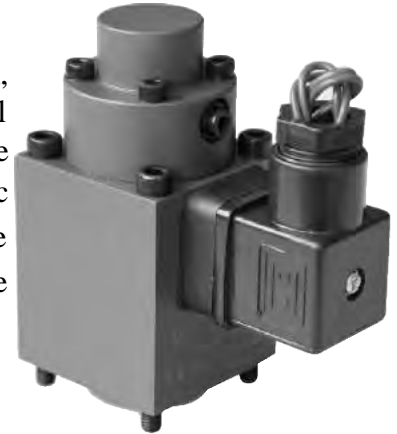
- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



# GV45-4-A PROPORTIONAL VALVE SOLENOID

## Purpose

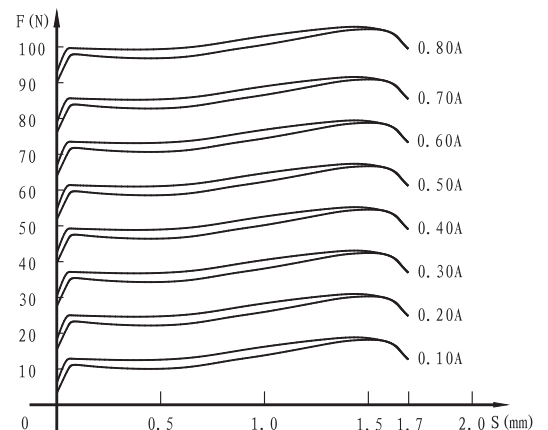
This product is used in the electric-hydraulic proportional control system, together with the proportional amplifier, realizes the control of proportional spillover valve. In range of the rated stroke and rated current, the input force & stroke is proportional to input current ( $>0.1A$ ). It changes the characteristic force of the system through the internal spring to make the output force more stabled. Rated current that is Infinite speed variation can realize the Infinite control & telecontrol of the hydraulic system.



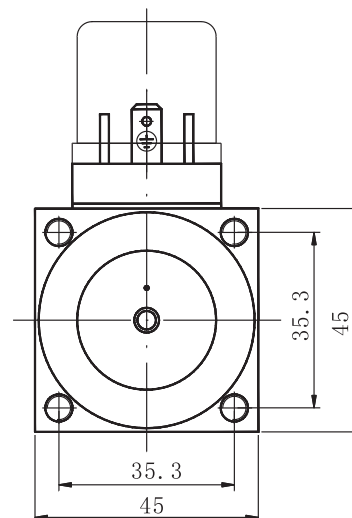
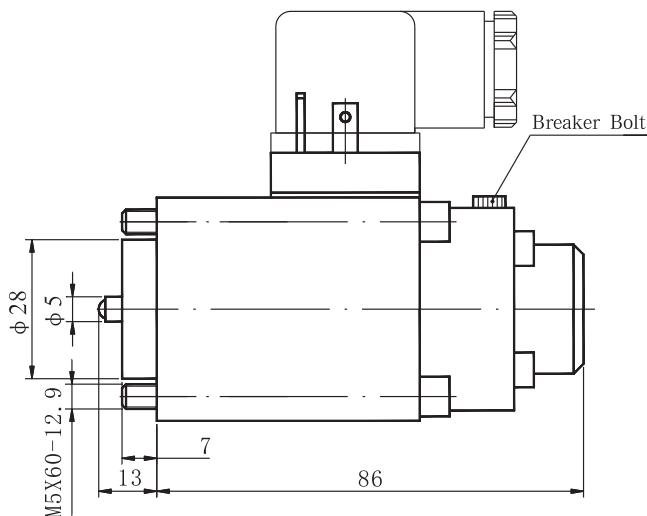
## Key Parameters

Code		GV45-4-A
Rated Current	(A)	0.8
Room Temperature Resistance 20°C	(Ω)	19.5
Rated Force	(N)	90
Rated Stroke	(mm)	1.7
Total Stroke	(mm)	1.7
Force Lag Characteristic	(%)	≤3
Current Lag Characteristic	(%)	≤3
Repeat Accuracy	(%)	≤1
Static Oil Pressure	(MPa)	21
Degree Of Enclosure		IP65

## Steady Stroke-Force Curve



## Externality & Installation Dimensions





### Operating Notice

- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The solenoid fit for continuous duty.

### Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



## Purpose

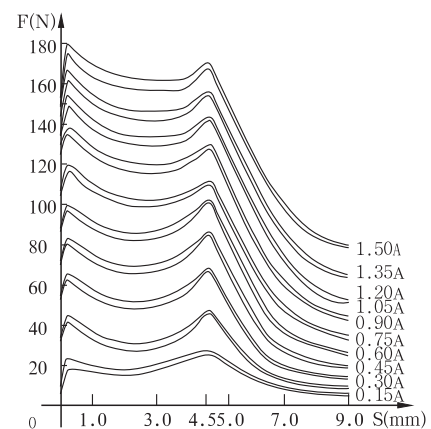
This product is a set of electric-mechanical transformation equipment, together with proportional control amplifier, used in the electric-hydraulic proportional control system of DC 24V. They are used in the proportional flux control valve and proportional directional valve of RERO TH. In the range of the rated stroke and rated current, the output force & stroke is proportional to the input current, and the force is permanent within rated stroke, the input current is infinitely variable control within rated range, it can be realized infinite speed variation, commutation and telecontrol in the hydraulic system actuator.



## Key Parameters

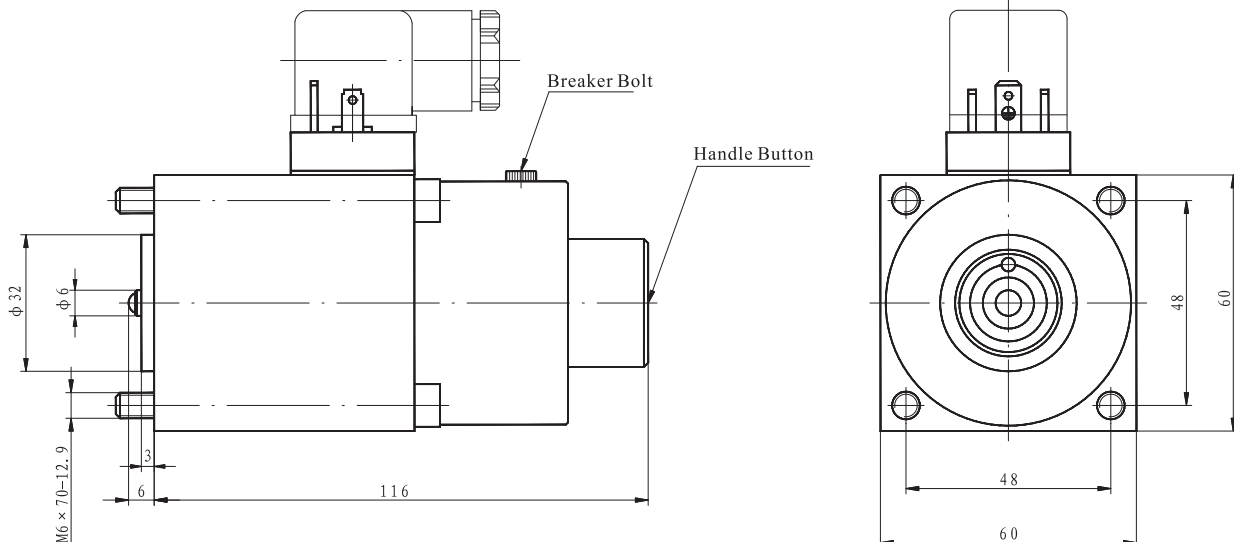
Code	GP61-4-A	
Rated Current	(A)	1.51
Room Temperature Resistance 20°C	(Ω)	10
Rated Force	(N)	150
Rated Stroke	(mm)	4.5
Total Stroke	(mm)	9
Force Lag Characteristic	(%)	≤4
Current Lag Characteristic	(%)	≤4
Repeat Accuracy	(%)	≤1
Static Oil Pressure	(MPa)	21
Degree Of Enclosure		IP65

## Steady Stroke-Force Curve



GP61-4-A

## Externality & Installation Dimensions







#### Operating Notice

- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The solenoid fit for continuous duty.

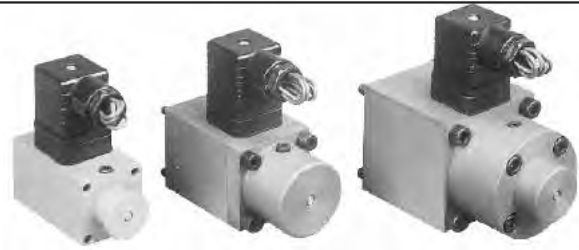
#### Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



## Purpose

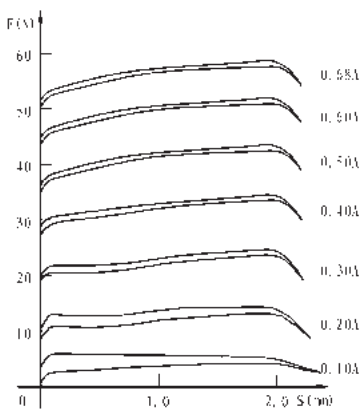
This product is a set of electric-mechanical transformation equipment, in the electric-hydraulic proportional system, together with proportional control amplifier; it is mainly used to control proportional variable flux pump and oil hydraulic motor, the output force & stroke is proportional to the input current, realizing the infinite adjustment & telecontrol of output flux of proportional variation pump and torque and speed variation of oil hydraulic motor.



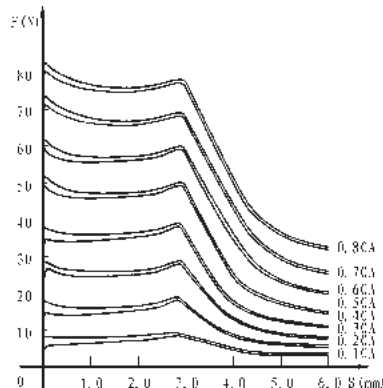
## Key Parameters

Code		GH263-035	GH263-045	GH263-060
Rated Current	(A)	0.68	0.8	1.11
Room Temperature Resistance 20°C	(Ω)	24.6	19.5	16.7
Rated Force	(N)	50	75	145
Rated Stroke	(mm)	2	3	4
Total Stroke	(mm)	2.5	6	8
Force Lag Characteristic	(%)	≤3	≤3	≤4
Current Lag Characteristic	(%)	≤3	≤3	≤4
Repeat Accuracy	(%)	≤1	≤1	≤1
Static Oil Pressure	(MPa)	21	21	21
Degree Of Enclosure		IP65	IP65	IP65

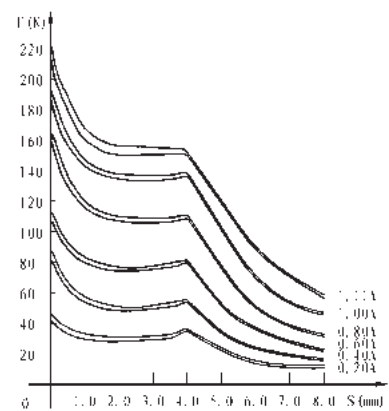
## Steady Stroke-Force Curve



GH263-035



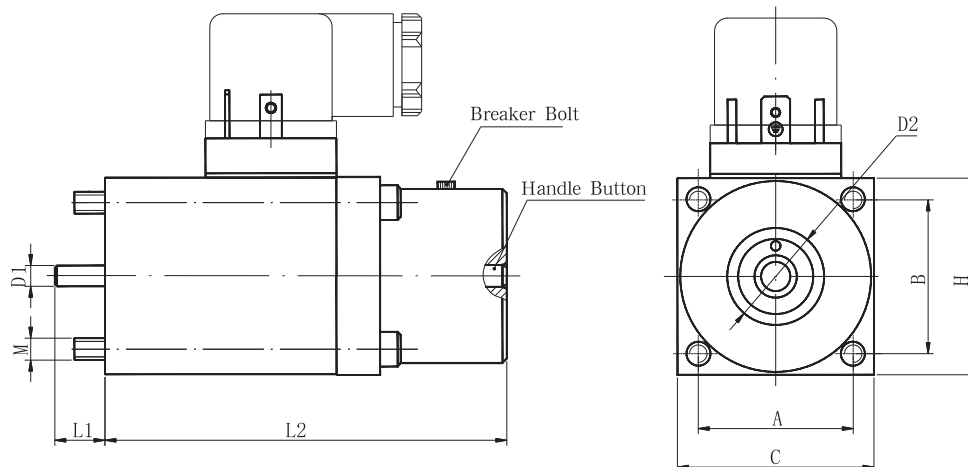
GH263-045



GH263-060



## Externality & Installation Dimensions



Nominal Size Product Code	A	B	C	D1	D2	H	L1	L2	M
	GH263-035	28	28	35	φ 4	21.9	35	7.7	79
GH263-045	35.3	35.3	45	φ 5	22	45	11.2	93	M5X70-12.9
GH263-060	48	48	60	φ 6	29.8	60	11.8	108	M4X70-12.9

## Operating Notice

- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The handle operating button is fit for adjustment, service and sometime in emergency.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The solenoid fit for continuous duty.

## Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.

## Purpose

This product is used in the electric-hydraulic proportional closed loop control system, together with proportional control amplifier. Gauge pin of differential inductance displacement sensor connects directly with armature to realize the direct

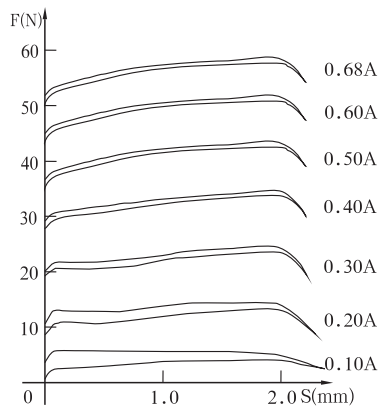


inspection to valve spool, and then gets the accurate position of valve spool. This series of production have mass to use in proportional flux valve and proportional directional valve of REXROTH.

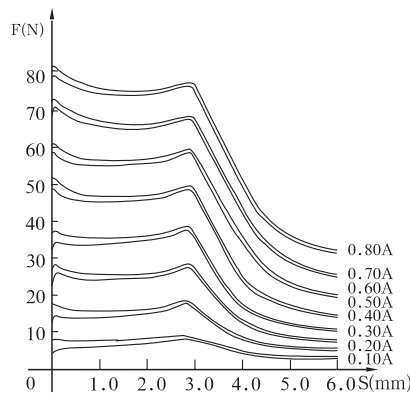
## Key Parameters

Code	GP45A4-AIW9	GP45B4-AIW9	GP61-4-AIW9	IW9-03
Rated Current (A)	0.8/1.5	0.8/1.5	1.51	
Room Temperature Resistance 20°C (Ω)	19.5/5.4	19.5/5.4	10	31+45+31
Rated Force (N)	80	75	150	
Rated Stroke (mm)	3	4	4.5	
Total Stroke (mm)	6	6	9	±4.5
Force Lag Characteristic (%)	≤4	≤4	≤4	
Current Lag Characteristic (%)	≤4	≤4	≤4	
Repeat Accuracy (%)	≤1	≤1	≤1	≤1
Static Oil Pressure (MPa)	21	21	21	21
Degree Of Enclosure	IP65	IP65	IP65	IP65

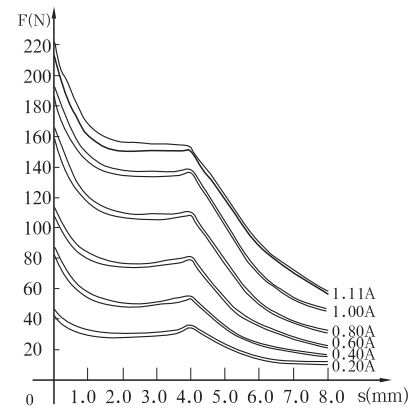
## Steady Stroke-Force Curve



GH263-035



GH263-045



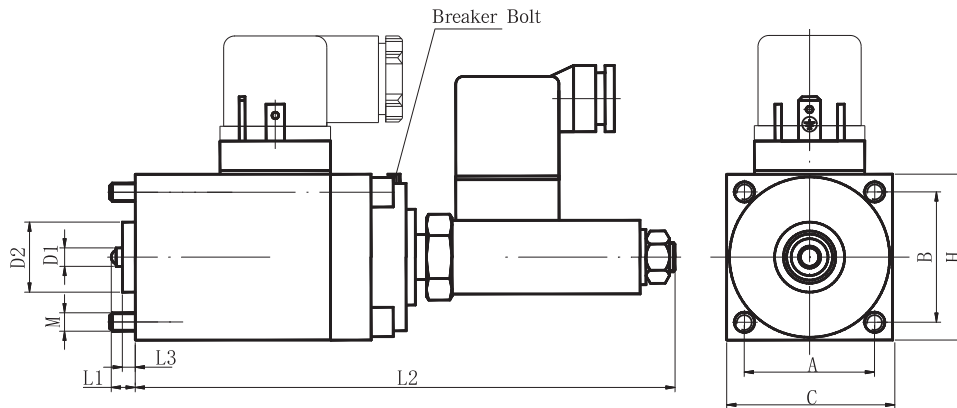
GH263-060





## GP SERIES PROPORTIONAL VALVE SOLENOID WITH DISPLACEMENT TRANSDUCER

### Externality & Installation Dimensions



Nominal Size Product Code	Nominal Size									
	A	B	C	D1	D2	H	L1	L2	L3	M
GP61-4-AIW9	48	48	60	φ 6	φ 32	60	6	168	3.0	M6X70-12.9
GP45A4-AIW9	35.3	35.3	45	φ 5	φ 19	45	6.5	148	3.5	M5X70-12.9
GP45B4-AIW9	35.3	35.3	45	φ 5	φ 19	45	6.5	148	3.5	M5X70-12.9

### Operating Notice

- The sensor and the stroke of the solenoid are OK when it finished, please don't adjust by yourself until you have any special requirements.
- The socket of solenoids meet with ISO4400 standard.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The solenoid fit for continuous duty.
- Please note the current specification.

### Explanation Of Sample

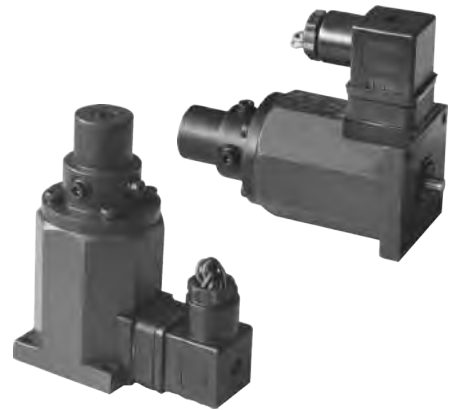
- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



## GV40-4-A PROPORTIONAL SPILLOVER VALVE SOLENOID

### Purpose

This product is a set of electric-mechanical transformation equipment. In the range of the rated stroke and rated current, the input force is proportional to the input signal. Together with proportional control amplifier, it can be realized accurate control to electric-hydraulic valve spool. It has characteristic of long stroke, high repeat accuracy, high output force, etc. as component of directly proportional spillover valve, proportional flow control Valve, and proportional throttle, combination valve (PQ valve).



### Usual Service Conditions

- There is no gas or dust which can corrupt metal or destroy nonconductor.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The protection is IP65 class.

### Key Parameters

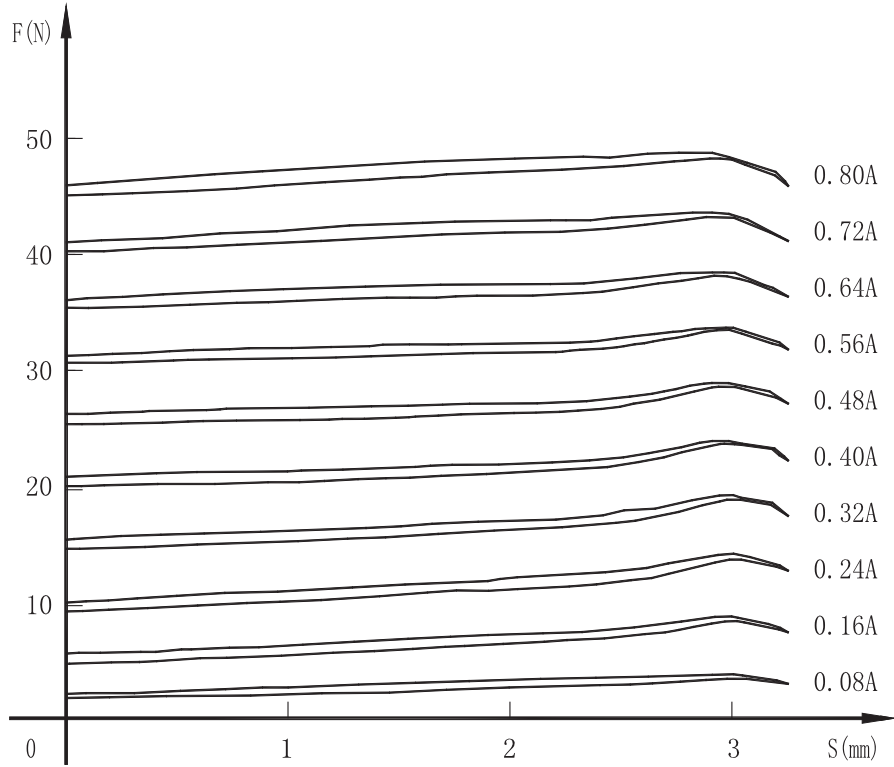
Code		GV40-4-A
Rated Stroke	(mm)	3
Total Stroke	(mm)	3.2
Rated Current	(A)	0.8
Rated Force	(N)	48 *
Room Temperature Resistance 20°C	(Ω)	10
Force Lag Characteristic	(%)	≤2
Current Lag Characteristic	(%)	≤2
Electrify Frequency	(%)	100
Repeat Accuracy	(%)	≤1
Static Oil Pressure	(MPa)	21
Thermal Endurance Class		F

The parameter marked “\*” can be adjusted according to the requirements.



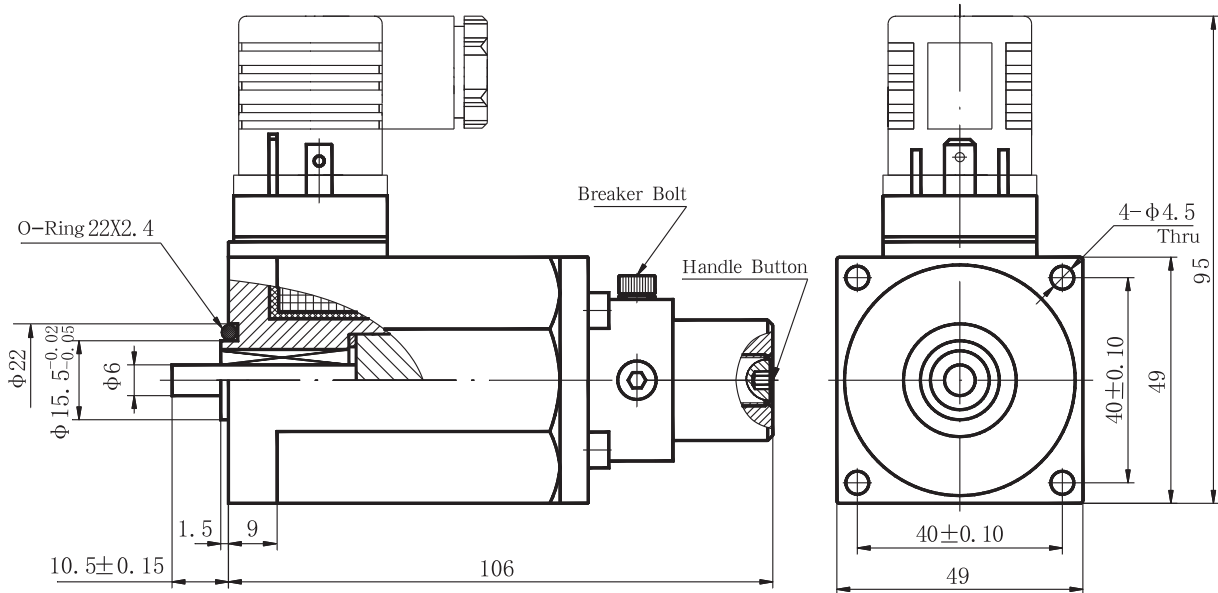
# GV40-4-A PROPORTIONAL SPILLOVER VALVE SOLENOID

## Steady Stroke-Force Curve



## Externality & Installation Dimensions

Product Code: GV40-4-A





### Operating Notice

- **Installation Position**  
The vent hole must be installed on above.
- **Exhaust**  
In order to realize stabilization control, please make the air out of the solenoid thoroughly, and full of oil.  
When exhausting, please open the bolt slowly and slowly. Be careful the spilling!
- **Adjust The Bolt By Hand**  
If there is no current at the beginning adjustment or because of electrical accident, you can turn the bolt by hand; set the pressure or flux of the valve temporarily, please make sure the handle bolt return to the position at normal operating.

### Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



## Purpose

This product is a set of electric-mechanical transformation equipment. In the range of the rated stroke and rated current, the input force is proportional to the input signal. Together with proportional control amplifier, it can be realized accurate control to electric-hydraulic valve spool. It has characteristic of long stroke, high repeat accuracy, high output force, etc. as component of directly proportional spillover valve, proportional flow control Valve, and proportional throttle, electric-hydraulic proportional combination valve (PQ valve).



## Usual Service Conditions

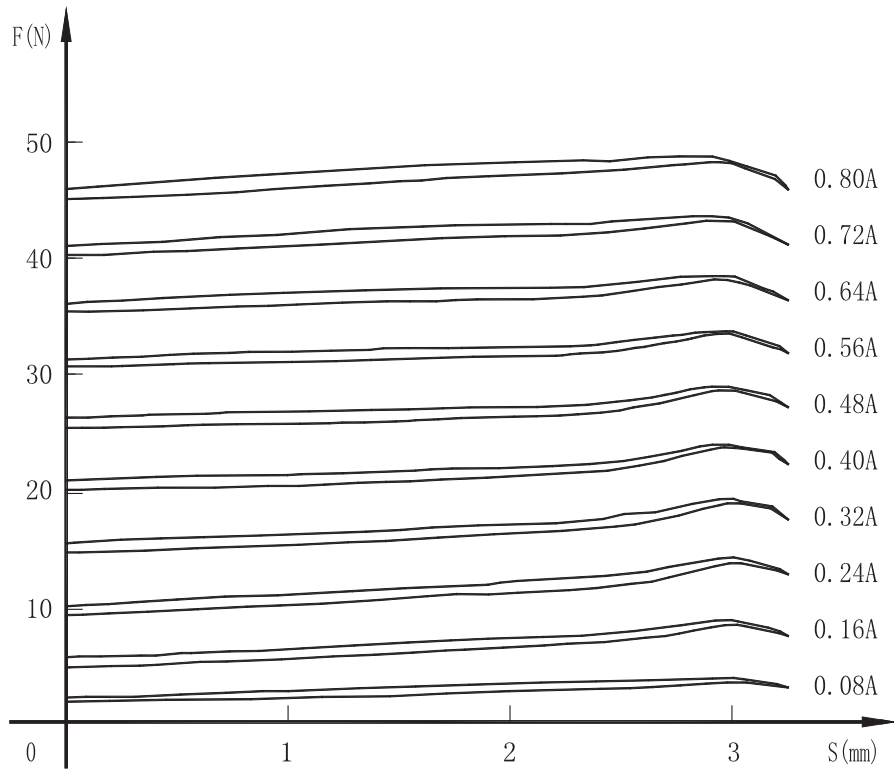
- There is no gas or dust which can corrupt metal or destroy nonconductor.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The protection is IP65 class.

## Key Parameters

Code		GP80-4-A
Rated Stroke	(mm)	8
Total Stroke	(mm)	≥9
Rated Current	(A)	0.68
Rated Force	(N)	100
Room Temperature Resistance 20°C	(Ω)	40
Force Lag Characteristic	(%)	≤4
Current Lag Characteristic	(%)	≤3
Electrify Frequency	(%)	100
Repeat Accuracy	(%)	≤1
Static Oil Pressure	(MPa)	21
Thermal Endurance Class		F

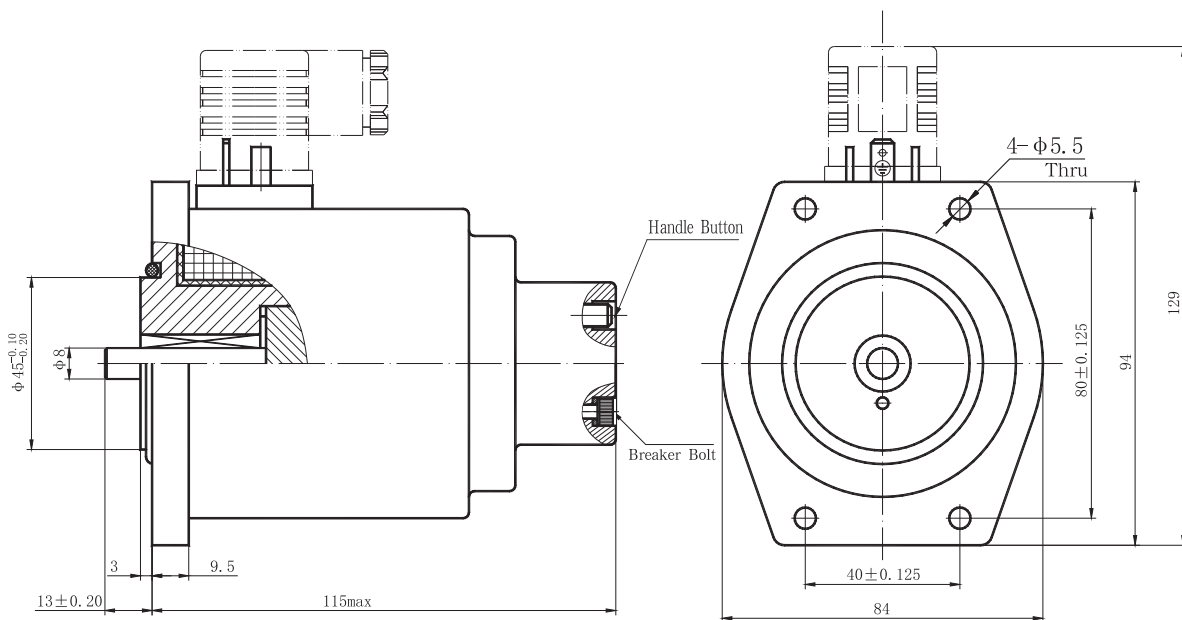


## Steady Stroke-Force Curve



## Externality & Installation Dimensions

Product Code: GP80-4-A







## Operating Notice

- **Installation Position**

The vent hole must be installed on above.

- **Exhaust**

In order to realize stabilization control, please make the air out of the solenoid thoroughly, and full of oil.

When exhausting, please open the bolt slowly and slowly. Be careful the spilling!

- **Adjust The Bolt By Hand**

If there is no current at the beginning adjustment or because of electrical accident, you can turn the bolt by hand; set the pressure or flux of the valve temporarily, please make sure the handle bolt return to the position at normal operating.

## Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



## GP37 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

### Purpose

This product is a set of electric-mechanical transformation, in the range of the rated stroke and rated current, output force is proportional to input signal. Together with proportional control amplifier, it can be realized accuracy control to

electric-hydraulic valve spool .It's size is small, linear is balance and repeated precision is high. It is used in machinery construction, as control proportional flow valve and proportional direction valve components.

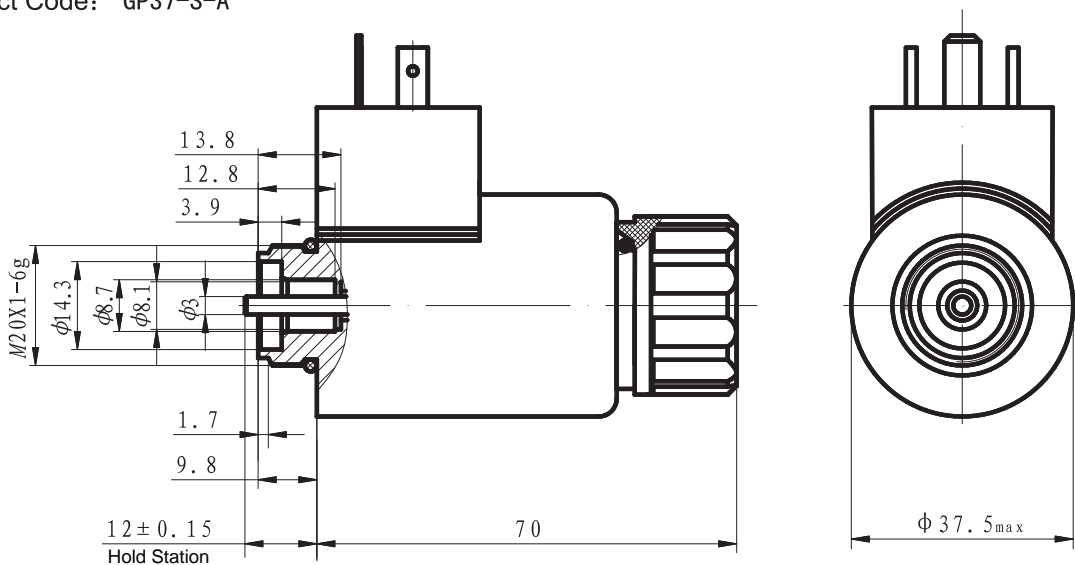


### GP37 Series Key Parameters

Code		GP37-S-A	GP37-S-C
Rated Stroke	(mm)	2.2	2
Total Stroke	(mm)	4.5	2.2
Rated Current	(A)	2	0.6
Rated Force	(N)	40	35
Room Temperature Resistance 20°C (Ω)		2.7	23
Force Lag Characteristic	(%)	≤4	≤4
Current Lag Characteristic	(%)	≤3	≤3
Repeat Accuracy	(%)	≤1	≤1
Static Oil Pressure	(MPa)	21MPa	21MPa
Degree Of Enclosure		IP67	IP67
Power Connect Mode		DIN Pin Mode	DT06-2S

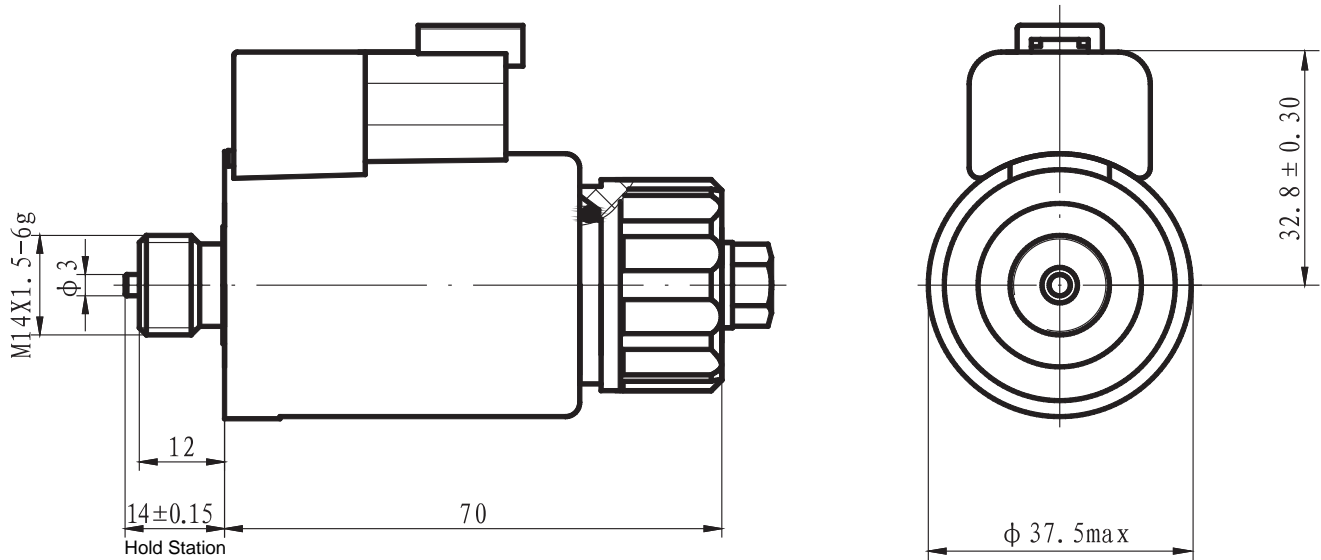
### Externality & Installation Dimensions

Product Code: GP37-S-A





Product Code: GP37-S-C



## Operating Notice

- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The handle operating button is fit for adjustment, service and sometime in emergency.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, power connect method and the extended length of push pin as demanding.



# GP516 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

## Purpose

This product is used in the electric-hydraulic control system, together with the proportional amplifier, realizes the control of NG6 proportional value of REXROTH. In the range of the rated stroke and rated current, the output force is proportional to input current. It changes the characteristic force of the system through the internal spring to make output force more stable. Rated current that in infinite speed variation can realize the infinite control and telecontrol of the hydraulic system.



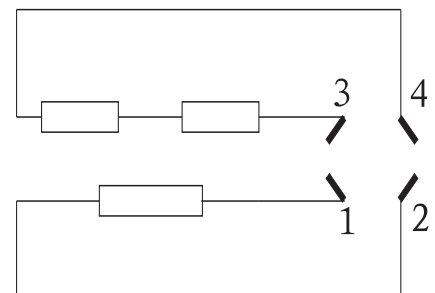
## GP516 Series Key Parameters

Code	GP516-S-A	GP516-S-B	GP516-S-C	GP516-S-D	GP516-S-E	GP516-S-F
Rated Current (A)	2.5	2.5	2.5	1.5	2.5	2.5
Room Temperature Resistance 20°C (Ω)	2	2	2.7	5	2	2
Rated Force (N)	50	50	90	50	65	50
Rated Stroke (mm)	2.8	2.5	1.8	2.5	1.8	2.8
Total Stroke (mm)	≥6	3.5	≥6	3.5	≥6	≥6
Force Lag Characteristic (%)	≤4	≤4	≤4	≤4	≤4	≤4
Current Lag Characteristic (%)	≤3	≤3	≤3	≤3	≤3	≤3
Repeat Accuracy (%)	≤1	≤1	≤1	≤1	≤1	≤1
Static Oil Pressure (MPa)	21	21	21	21	21	21
Oil Temperature of Work (°C)	-20~+70	-20~+70	-20~+70	-20~+70	-20~+70	-20~+70
Degree Of Enclosure	IP65	IP65	IP65	IP65	IP65	IP65
Power Connect Mode	Junction Box Mode			Pin Mode		

## Key Parameters of Displacement Sensor Screw Proportional Solenoid

Code	GP516-S-CIW	GP516-S-EIW
Rated Current (A)	2.5	2.5
Room Temperature Resistance 20°C (Ω)	2.7	2
Rated Force (N)	90	65
Rated Stroke (mm)	1.8	1.8
Total Stroke (mm)	≥6	≥6
Force Lag Characteristic (%)	≤4	≤4
Current Lag Characteristic (%)	≤3	≤3
Repeat Accuracy (%)	≤1	≤1
Static Oil Pressure (MPa)	21	21
Oil Temperature of Work (°C)	-20~+70	-20~+70
Degree Of Enclosure	IP65	IP65
Power Connect Mode	Junction Box Mode	Pin Mode

## Connector Mark

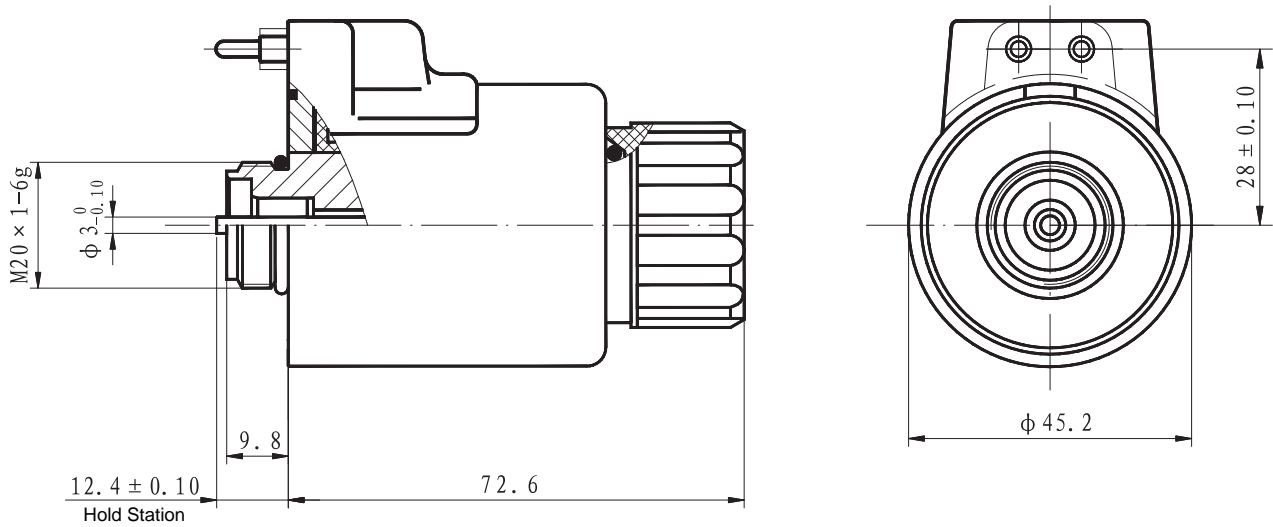




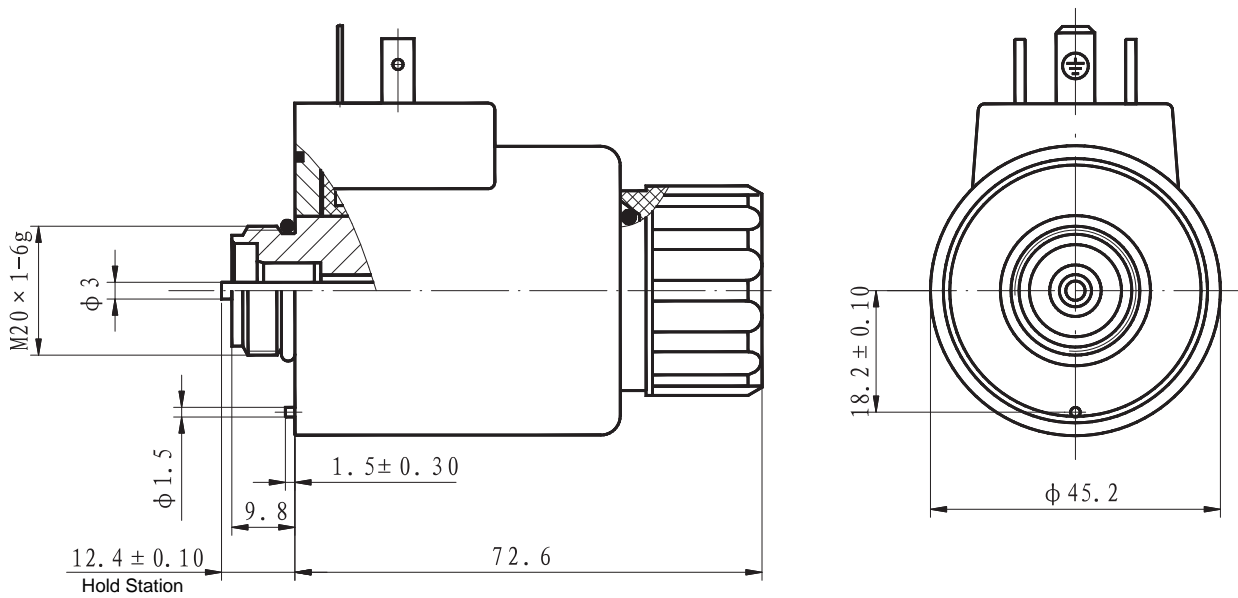
# GP516 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

## Externality & Installation Dimensions

### GP516 Junction Box Mode



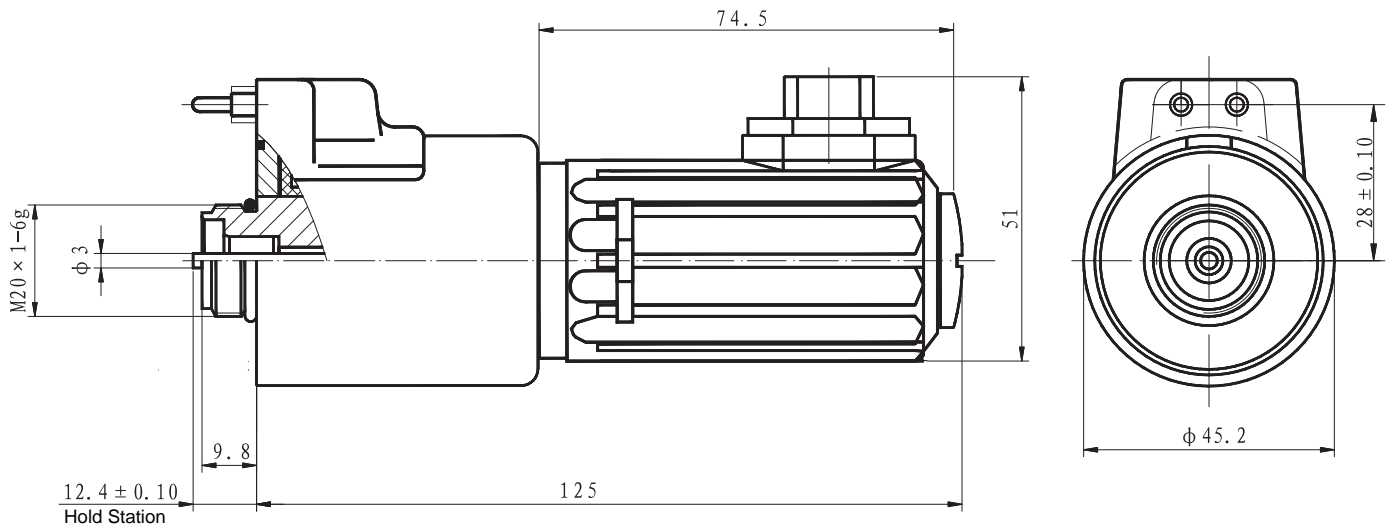
### GP516 Pin Mode



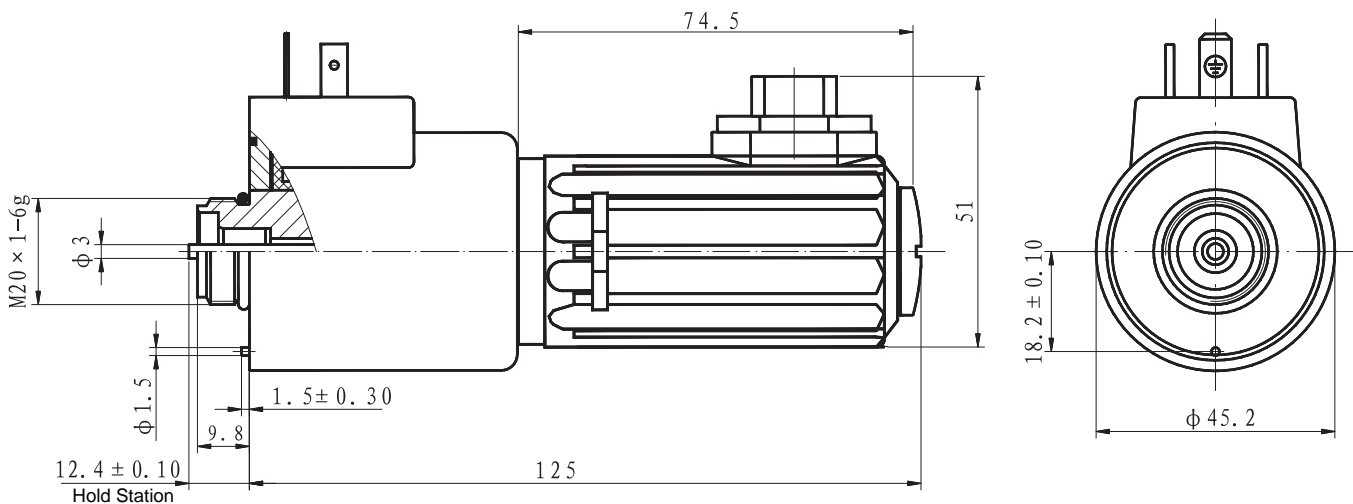


# GP516 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

## GP516 Series Feedback Junction Box Mode



## GP516 Series Feedback Pin Mode



### Operating Notice

- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The handle operating button is fit for adjustment, service and sometime in emergency.

### Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, power connect method and the extended length of push pin as demanding.



# GP63 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

## Purpose

This product is used in the electric-hydraulic control system, together with the proportional amplifier, realizes the control of NG10 proportional valve of REXROTH. In the range of the rated stroke and rated current, the output force is proportional to input current. It changes the characteristic force of the system through the internal spring to make output force more stable. Rated current that in infinite speed variation can realize the infinite control and telecontrol of the hydraulic system.



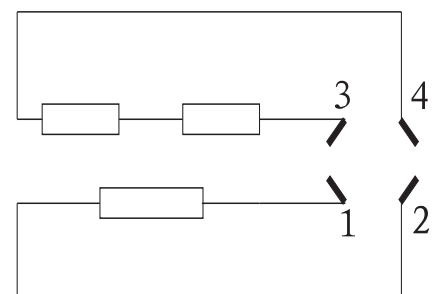
## GP63 Series Key Parameters

Code	GP63-S-A	GP63-S-B	GP63-S-C	GP63-S-D
Rated Current (A)	3.3	2.6	2.5	3.3
Room Temperature Resistance 20°C (Ω)	2	4.1	3.7	2
Rated Force (N)	170	170	160	170
Rated Stroke (mm)	4	4	4	4
Total Stroke (mm)	≥8	≥9	≥9	≥8
Force Lag Characteristic (%)	≤5	≤5	≤5	≤5
Current Lag Characteristic (%)	≤3	≤3	≤3	≤3
Repeat Accuracy (%)	≤1	≤1	≤1	≤1
Static Oil Pressure (MPa)	21	21	21	21
Oil Temperature of Work (°C)	-20~+70	-20~+70	-20~+70	-20~+70
Degree Of Enclosure	IP65	IP65	IP65	IP65
Power Connect Mode	Pin Mode		Junction Box Mode	

## Key Parameters of Displacement Sensor Screw Proportional Solenoid

Code	GP63-S-BIW	GP63-S-CIW
Rated Current (A)	2.6	2.5
Room Temperature Resistance 20°C (Ω)	4.1	3.7
Rated Force (N)	170	160
Rated Stroke (mm)	4	4
Total Stroke (mm)	≥9	≥9
Force Lag Characteristic (%)	≤5	≤5
Current Lag Characteristic (%)	≤3	≤3
Repeat Accuracy (%)	≤1	≤1
Static Oil Pressure (MPa)	21	21
Oil Temperature of Work (°C)	-20~+70	-20~+70
Degree Of Enclosure	IP65	IP65
Power Connect Mode	Pin Mode	Junction Box Mode

## Connector Mark



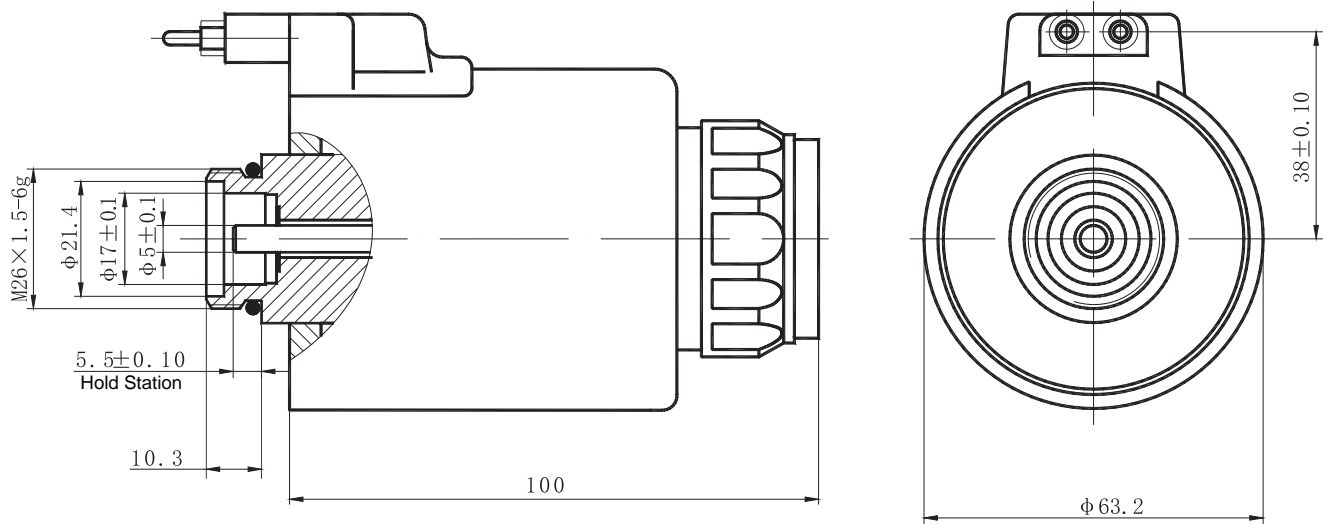




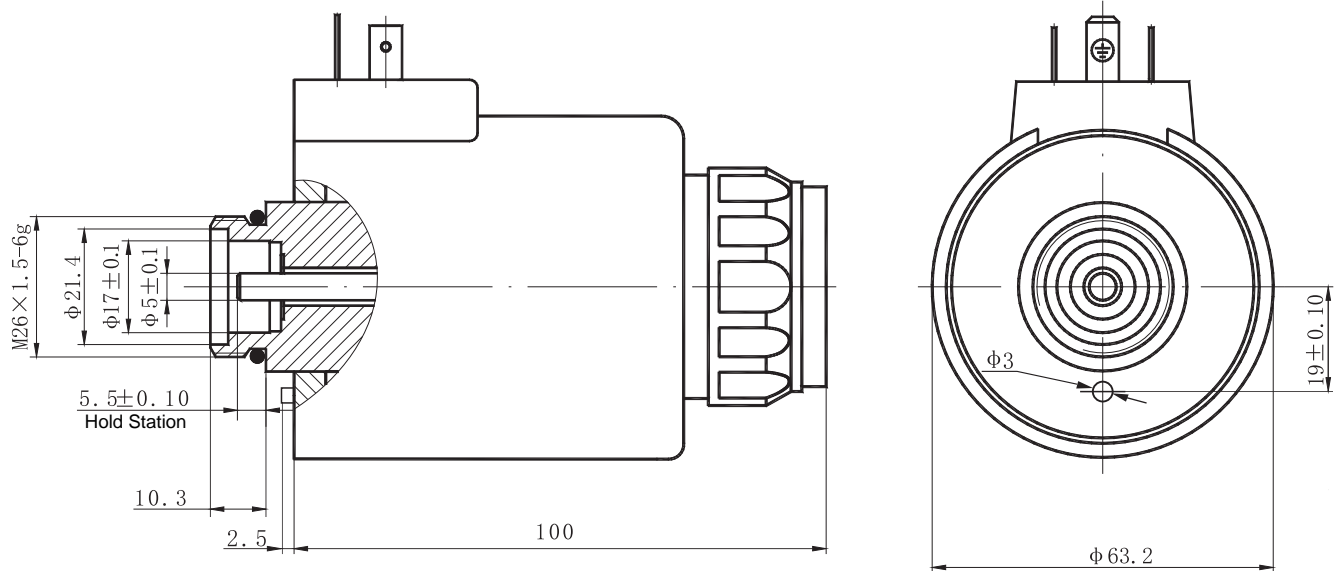
# GP63 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

## Externality & Installation Dimensions

### GP63 Junction Box Mode



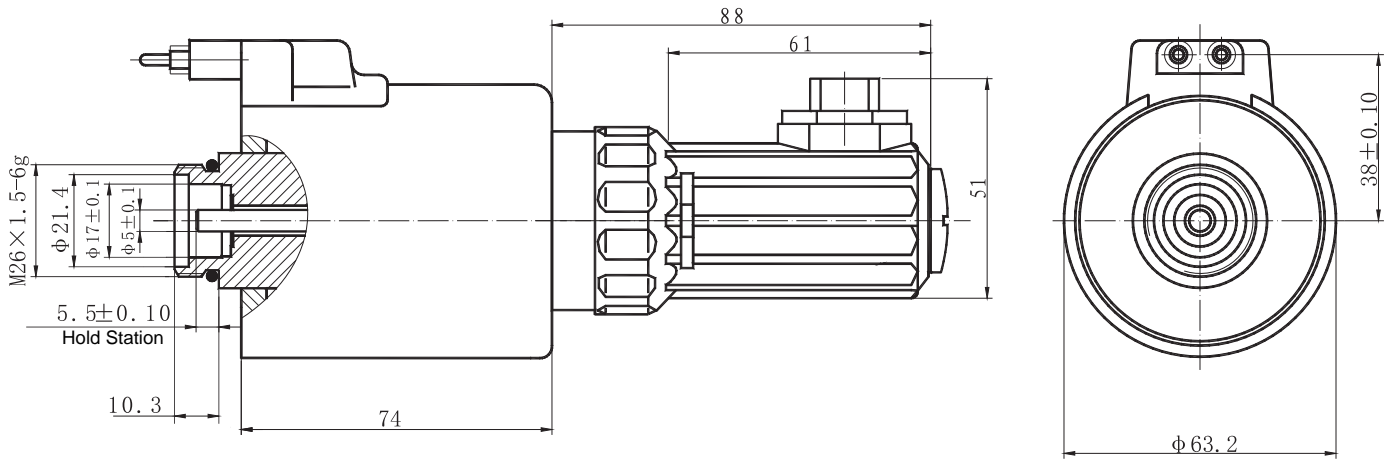
### GP63 Pin Mode



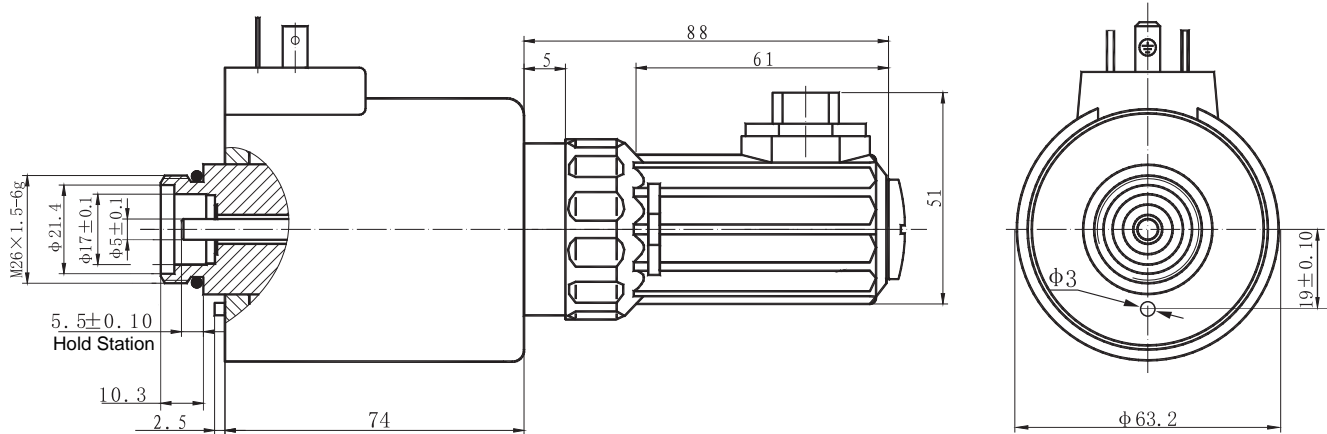


# GP63 SERIES PROPORTIONAL VALVE SOLENOID WITH SCREW THREAD

## GP63 Series Feedback Junction Box Mode



## GP63 Series Feedback Pin Mode



### Operating Notice

- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- The handle operating button is fit for adjustment, service and sometime in emergency.

### Explanation Of Sample

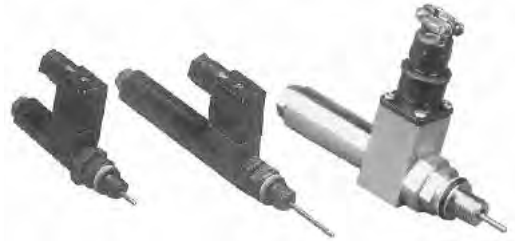
- If client have special requirements, we can adjust the connect dimension, power connect method and the extended length of push pin as demanding.



# IWA1341 SERIES DIFFERENTIAL INDUCTANCE DISPLACE TRANSDUCER

## Purpose

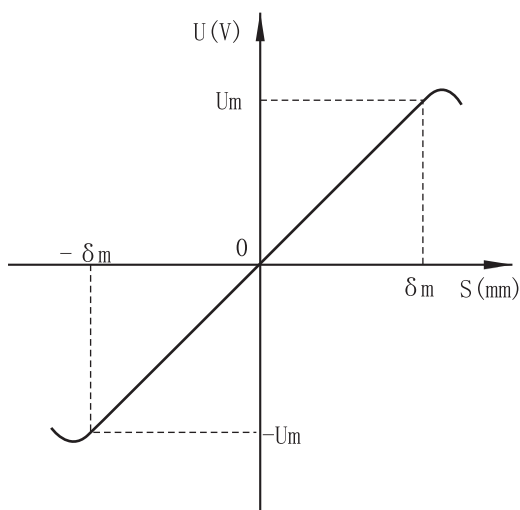
Displacement transducer of IWA1341 series is introduced from BSO of Germany. IWA1341-063A is improved on introducing technology; the shell is made of stainless steel. Displacement transducer is a kind of electric-mechanical transformation component, together with proportional control amplifier, it can make the mechanism turn into electric signal, measured directly or indirectly. The output type of product is a differential having ability of recognizing direction.



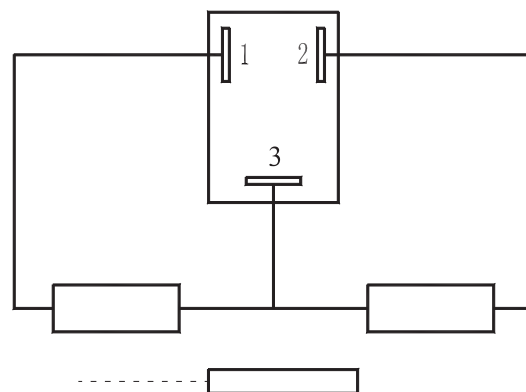
## Key Parameters

Code		IWA1341-032	IWA1341-063	IWA1341-063A
Measuring Range	(mm)	$\pm 3.2$	$\pm 6.3$	$\pm 6.3$
Basic Accuracy	(%)	$\pm 0.2$	$\pm 0.2$	$\pm 0.2$
Linear Accuracy	(%)	$\leq 0.1$	$\leq 0.1$	$\leq 0.1$
Cycle Difference	(%)	$\leq 0.2$	$\leq 0.2$	$\leq 0.2$
Repeat Accuracy	(%)	$\leq 0.1$	$\leq 0.1$	$\leq 0.1$
Carrier Wave	(KHz)	2.5	2.5	2.5
Resistance	( $\Omega$ )	6.8	11.8	11.8
Induction	(mH)	1.1	3.7	3.7
Mechanical Position Adjustment	(mm)	$\pm 2$	$\pm 2$	$\pm 2$
Thermal Endurance Class		F	F	F
Static Oil Pressure	(MPa)	31.5	31.5	31.5

## Curve



## Connector Mark

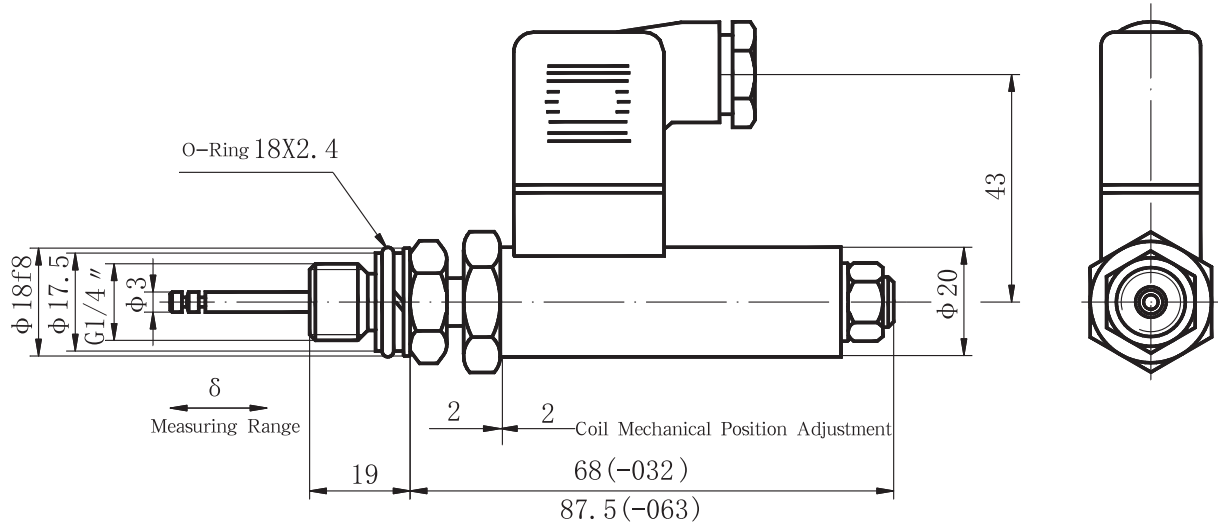




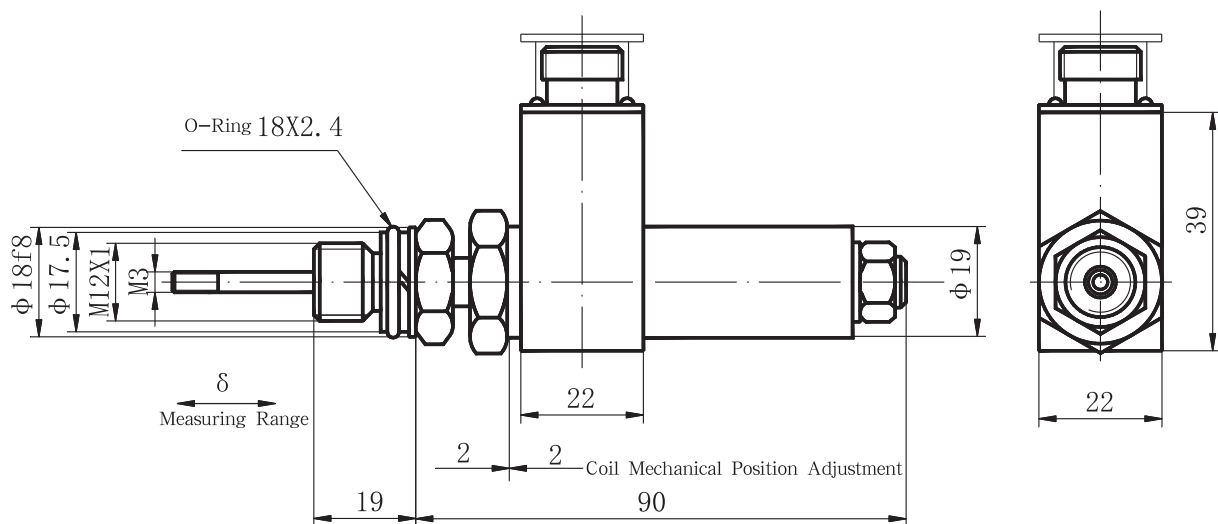
# IWA1341 SERIES DIFFERENTIAL INDUCTANCE DISPLACE TRANSDUCER

## Externality & Installation Dimensions

Product Code: IWA1341-032、IWA1341-063



Product Code: IWA1341-063A





# IW9-03 INDUCTANCE DISPLACEMENT TRANSDUCER

## Purpose

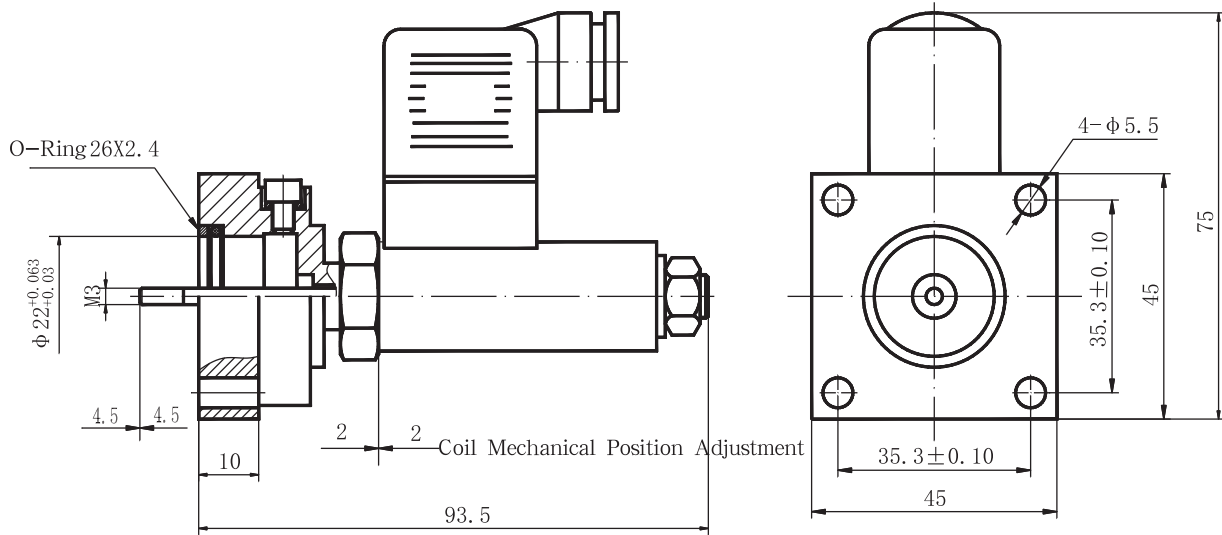
This product is a kind of differential inductance displacement transducer. It is introduced from BSO of Germany.

It is used in the control circuits of DC 24V together with measuring amplifier.

The movable pole of sensor makes the inductance change, and the change of inductance feed back to the amplifier, and then the amplifier transform the inductance changes into the input voltage.



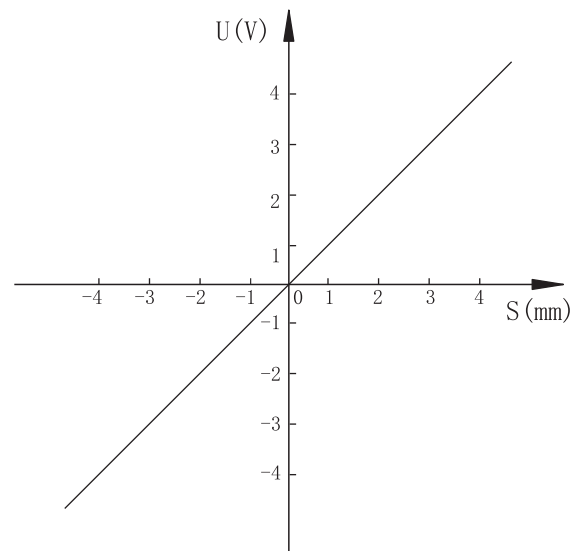
## Externality & Installation Dimensions



## Key Parameters

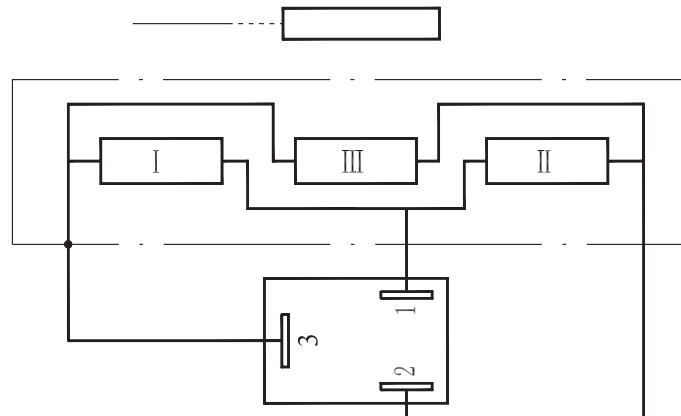
Code	IW9-03	
Working Stroke	(mm)	$\pm 4.5$
Linear Precision	(%)	$\leq 1$
Repeat Precision	(%)	$\leq 1$
Carrier Wave	(KHz)	2.5
Coil Resistance 20°C	( $\Omega$ )	I-31 II-31 III-45
Winding Induction	(mH)	6-8
Protection Class		IP65
Static Oil Pressure	(MPa)	31.5

## Curve





## Schematic Circuit Diagram



## Operating Notice

- Transducers meet with ISO4400 standard.
- The CPS is offered by amplifier.
- The working medium of hydraulic system is mineral oil, phosphoric acid oil.
- Make the vent hole above when installing, make sure the air exhausted from solenoid when you use it.
- The sensor fit for the continuous duty system.
- The seat screw must use high strength bolt (degree of 10.9), o-ring of connection must be radial sealed.
- The position of axial direction can be adjusted  $\pm 2\text{mm}$ .

## Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.



### Purpose

G-QM position switch is a safety valve displacement sensor with two outputs pin2/pin4. It can monitor the spool position quickly and accurately, and output voltage according to the spool position switching. The position switch has the function of voltage surge, overload-proof, short circuit protection and polarity protection. It also has the characteristics such as high precision, good repeatability, long service life, high reliability etc.

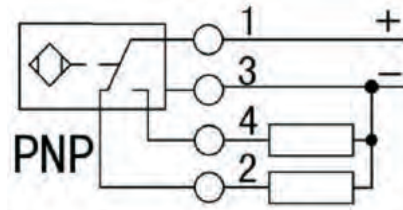
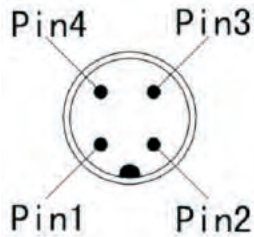
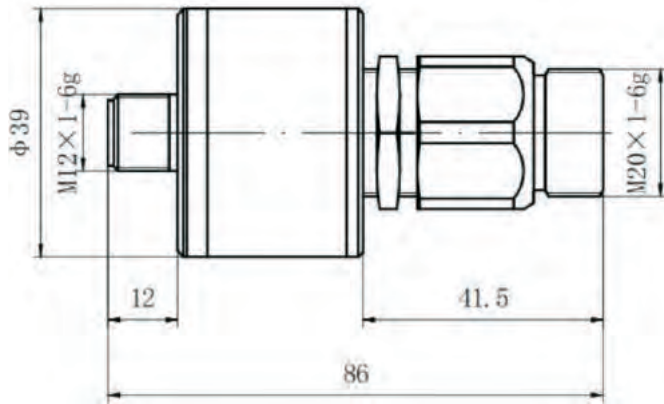


### Key Parameters

Code		G-QM
Supply Voltage $U_b$	(V)	24±20% DC
Output Voltage(min)	(V)	$U_b - 2.5$
Current Consumption	(mA)	≤40
Output Current(max)	(mA)	400
Residual Voltage	(V)	≤1
Output		Polarity Protection & Load Protection
Electrified Rate		100%
Type of Protection to EN 60529		IP67
Frequency	(/S)	max.10
Vibration	(mm)	10~15HZ,Amplitude±1.5
Repeatability at 25°C	(mm)	≤0.02
Switching Point Hysteresis	(mm)	≤0.05
-20°C+80°C Temperature Coefficient	(mm/°C)	≤0.004
Static Oil Pressure	(MPa)	21



## Externality & Installation Dimensions



Pin1.+24V  
Pin2.Normally Close(Low Impedance-High Impedance)  
Pin3.0V  
Pin4.Normally Open(High Impedance-Low Impedance)

## Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KATDT.





## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits; which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve of REXROTH.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

Code	MFZ12-25YC	MFZ12-37YC	MFZ12-90YC
Rated Voltage (V)	12 24 110 220	12 24 110 220	12 24 110 220
Rated Force (N)	≥25	≥37	≥90
Rated Stroke (mm)	2.8	2.8	4
Total Stroke (mm)	≥6.1	≥6.1	≥9
Consumed Power (W)	≤26	≤30	≤36
Static Oil Pressure (MPa)	21	21	21
Operating Frequency (T/h)	12000	12000	12000

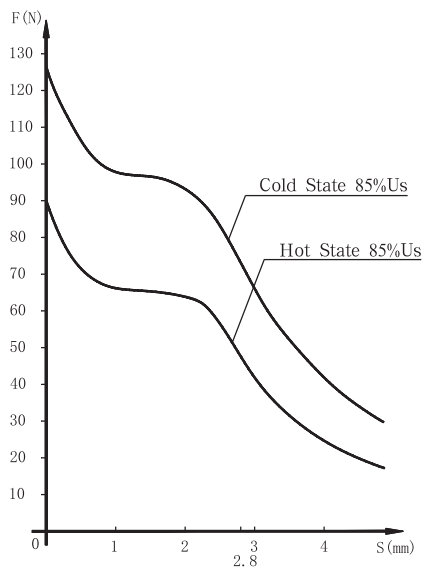
## Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	12	25/37/90	YC

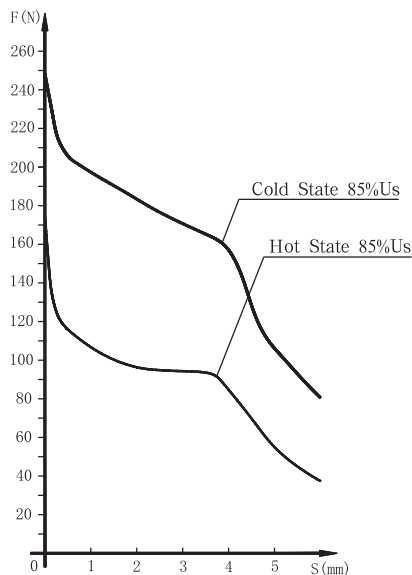
If the products are used for the engineering machinery or the other worse environment, please add RX after the Purchase Code YC. For example: MFZ12-37YC RX, MFZ12-90YC RX.



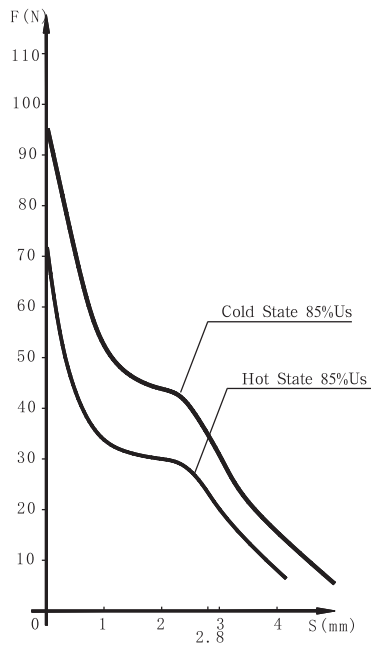
## Stroke-Force Curve



MFZ12-37YC



MFZ12-90YC

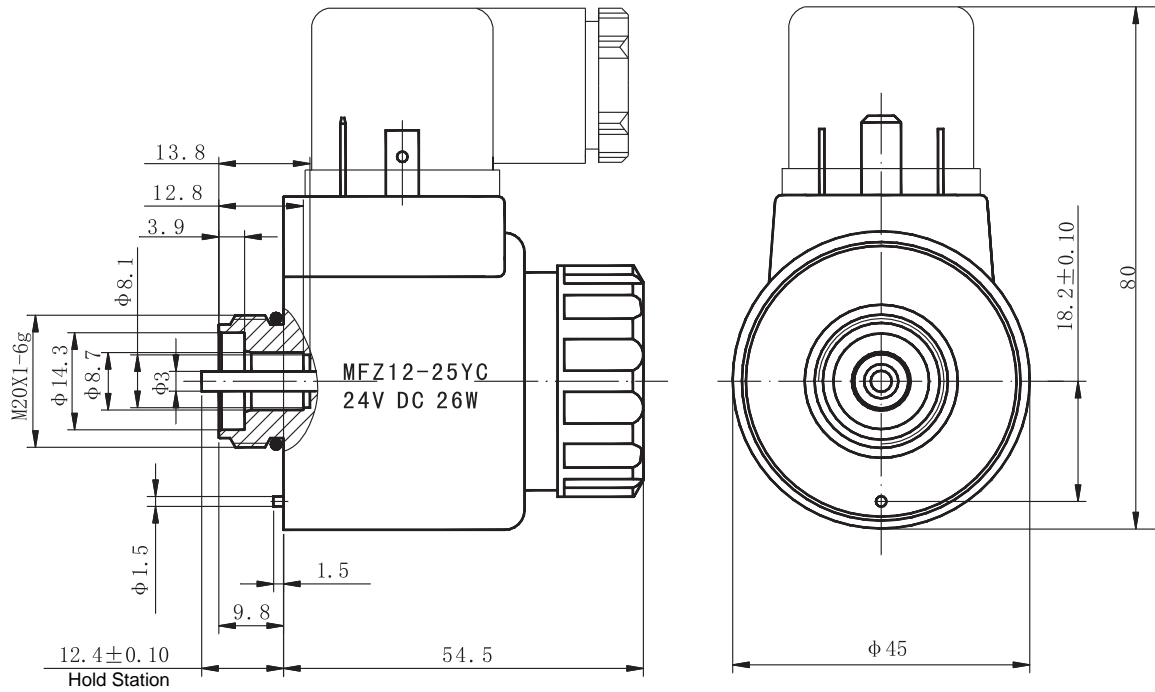


MFZ12-25YC

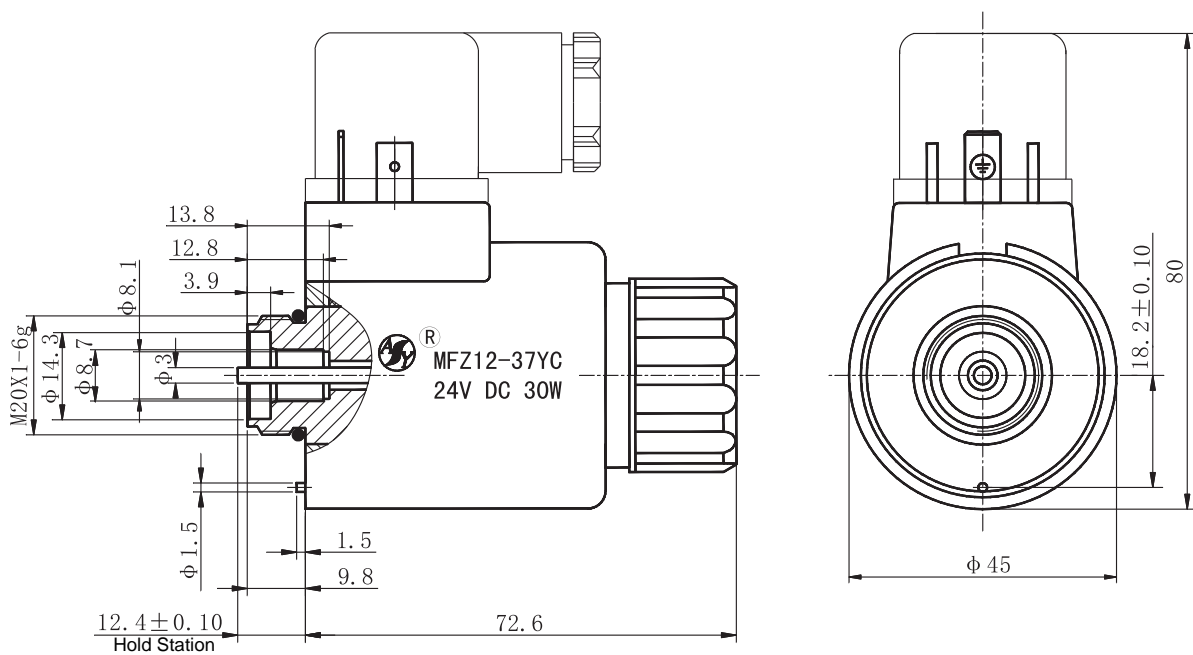


## Externality & Installation Dimensions

Product Code: MFZ12-25YC

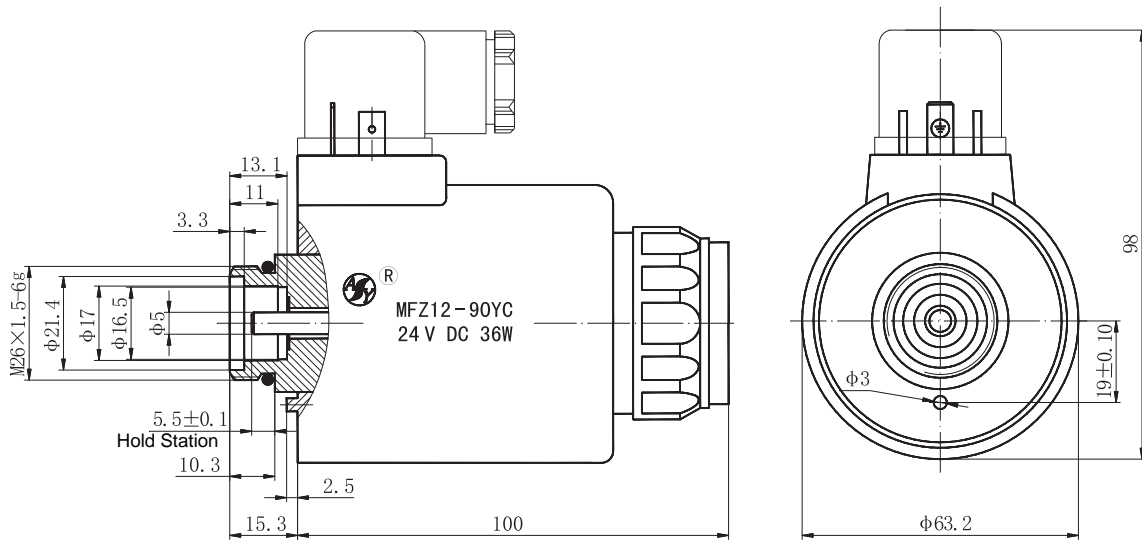


Product Code: MFZ12-37YC





Product Code: MFZ12-90YC



## Operating Notice

- The socket, which solenoids used, is according to IS04400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- When the supply power is AC, you can choose MFB12-YC; the capability is the same with MFB12-YC.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## MFZ12A-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits; which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve of REXROTH.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

Code		MFZ12A-37YC	MFZ12A-90YC
Rated Voltage (V)		12 24 110 220	12 24 110 220
Rated Force (N)		≥37	≥90
Rated Stroke (mm)		2.8	4
Total Stroke (mm)		≥6.1	≥9
Consumed Power (W)		≤30	≤36
Static Oil Pressure (MPa)		21	21
Operating Frequency (T/h)		12000	12000

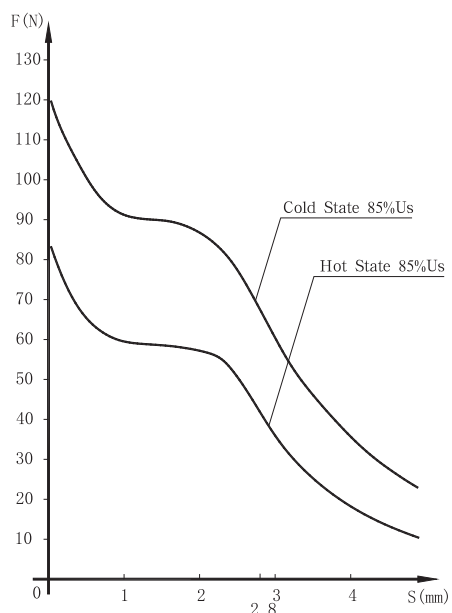
### Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	12A	37/90	YC

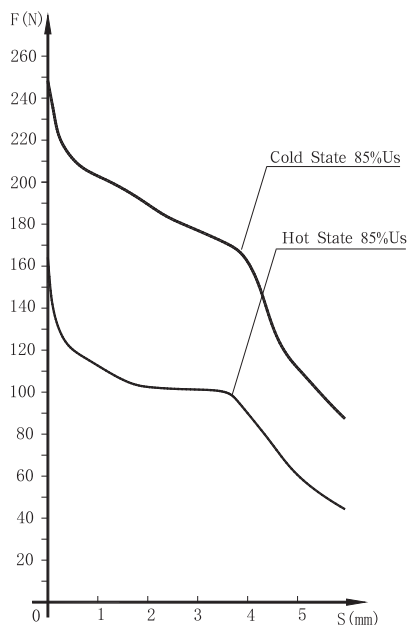


# MFZ12A-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

## Stroke-Force Curve



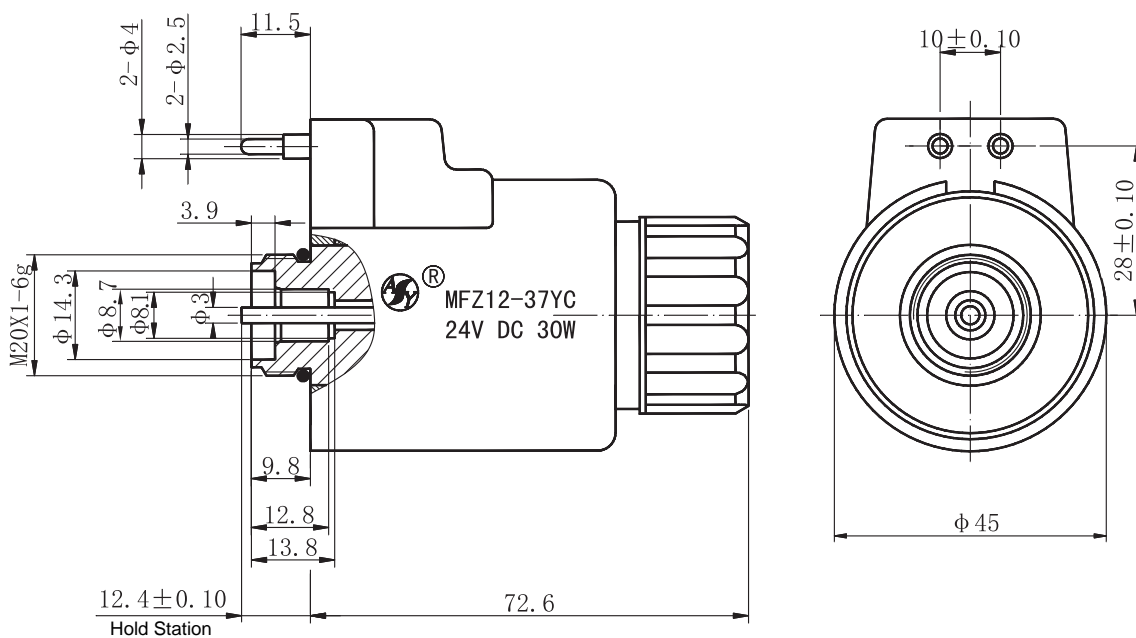
MFZ12A-37YC



MFZ12A-90YC

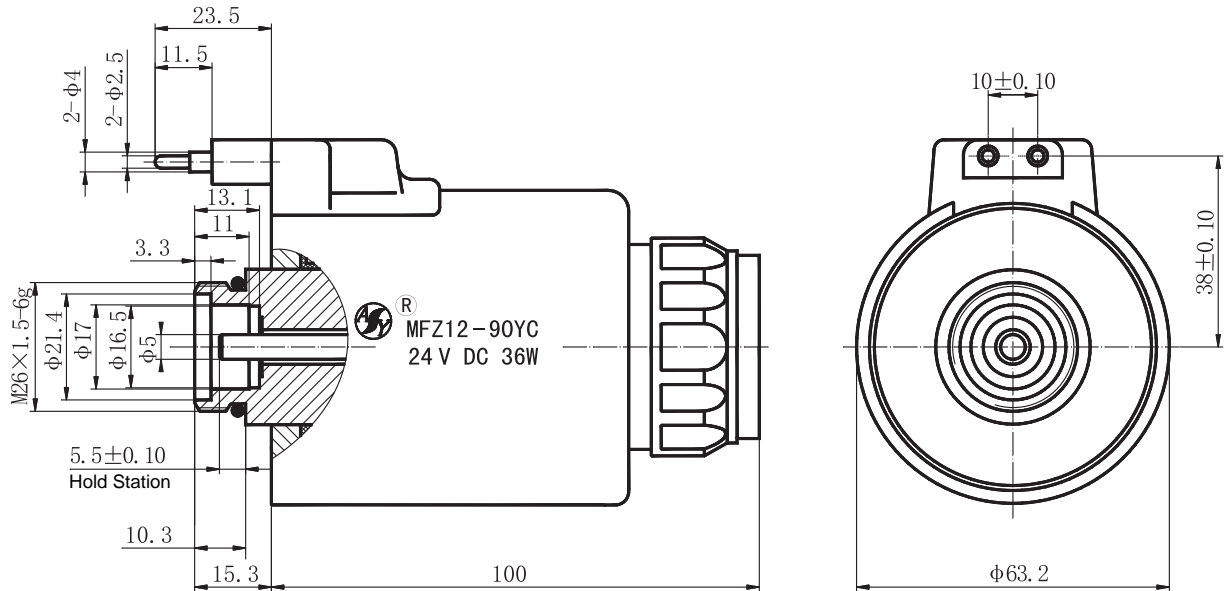
## Externality & Installation Dimensions

Product Code: MFZ12A-37YC





Product Code: MFZ12A-90YC



## Operating Notice

- Mode connection of solenoids is junction box. The voltage of junction box must meet with the solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits; which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve of REXROTH.



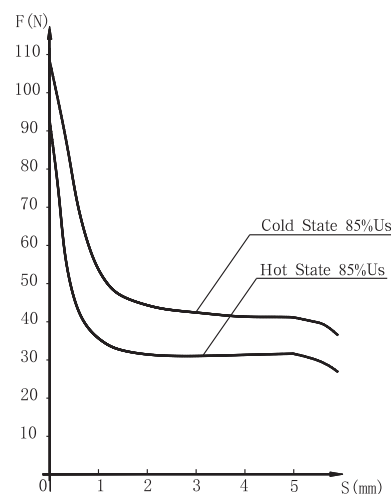
## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

Code	MFZ12B-37YC	
Rated Voltage	(V)	24 110
Rated Force	(N)	≥30
Rated Stroke	(mm)	5
Total Stroke	(mm)	≥5.1
Consumed Power	(W)	≤30
Static Oil Pressure	(MPa)	21
Operating Frequency	(T/h)	12000

## Stroke-Force Curve



## Purchase Code

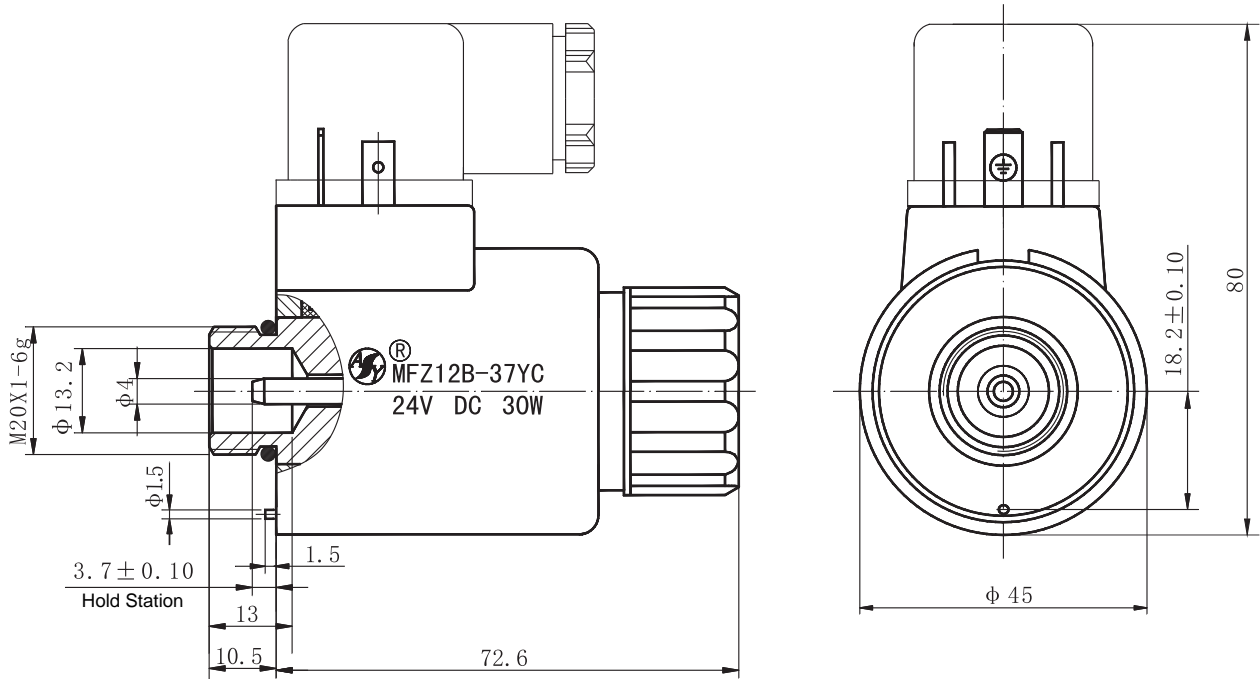
Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	12B	30	YC





## Externality & Installation Dimensions

Product Code: MFZ12B-37YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits; which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve of REXROTH.



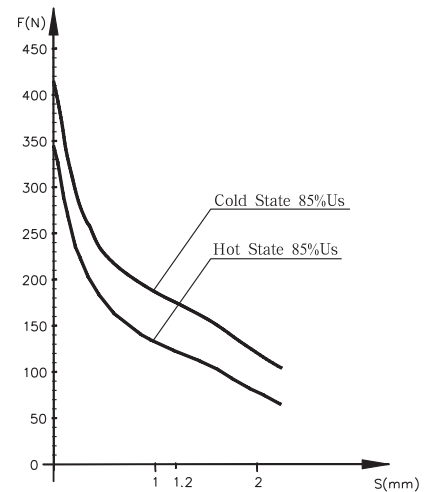
## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

Code		MFZ12C-37YC
Rated Voltage	(V)	24
Rated Force	(N)	≥90
Rated Stroke	(mm)	1.2
Total Stroke	(mm)	≥2.5
Consumed Power	(W)	≤30
Static Oil Pressure	(MPa)	21
Operating Frequency	(T/h)	12000

## Stroke-Force Curve



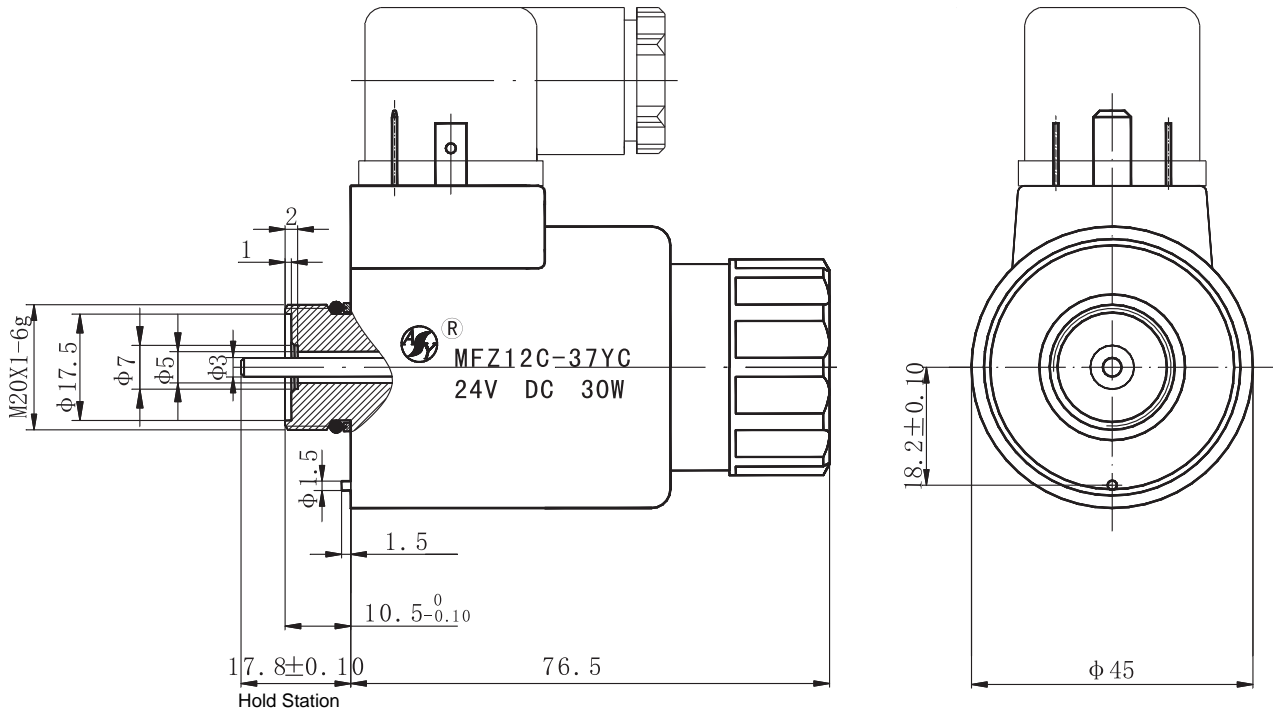
## Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	12C	90	YC



## Externality & Installation Dimensions

Product Code: MFZ12C-37YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.



## Purpose

This series solenoid is applied to the control circuits of AC 50Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve of REXROTH.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

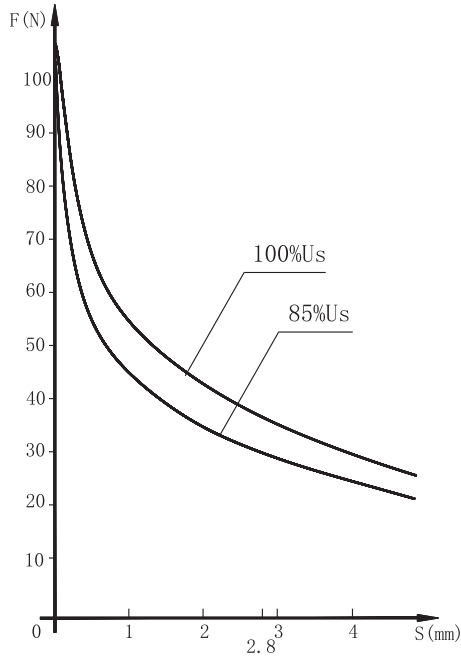
Code		MFJ12-27YC	MFJ12-54YC
Rated Voltage	(V)	110 220	110 220
Power Frequency	(Hz)	50	50
Rated Force	(N)	≥27	≥54
Rated Stroke	(mm)	2.8	4
Total Stroke	(mm)	≥6.1	≥9
Static Oil Pressure	(MPa)	21	21
Start VA	(VA)	≤154	≤308
Holding VA	(VA)	≤58	≤78
Operating Frequency	(T/h)	12000	12000

## Purchase Code

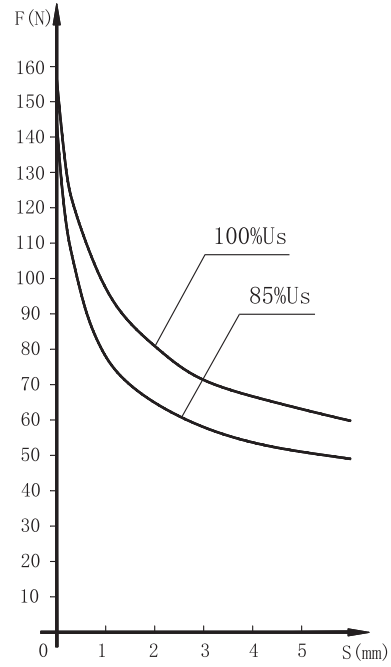
Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	12	27/54	YC



## Stroke-Force Curve



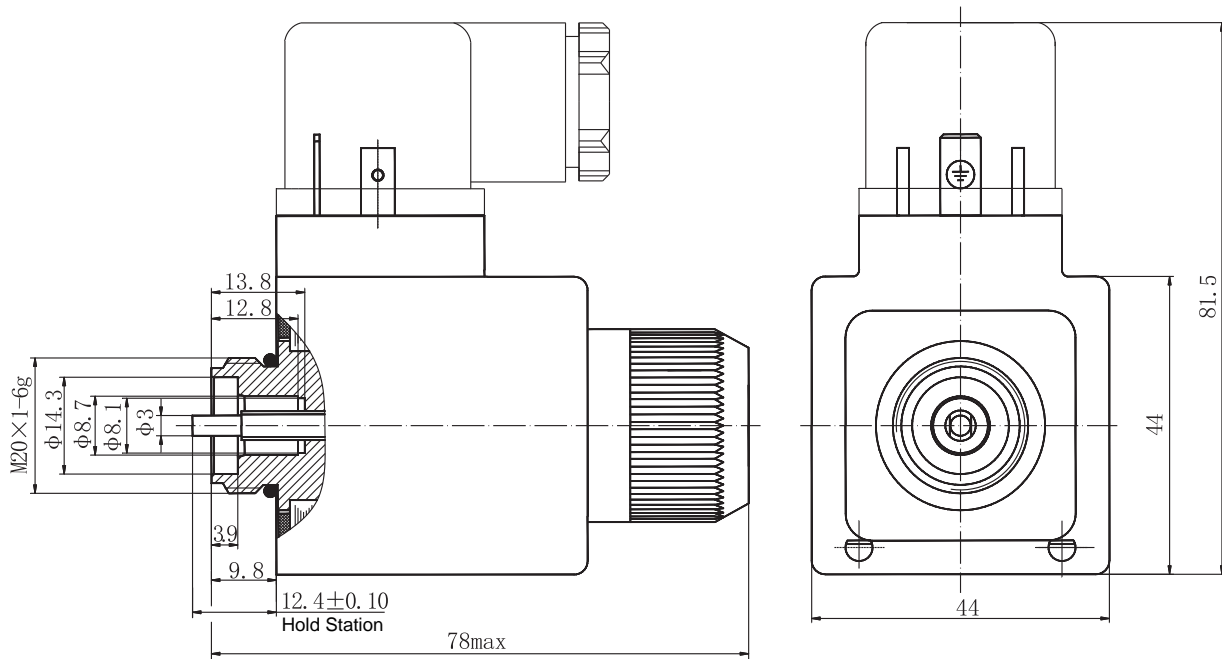
MFJ12-27YC



MFJ12-54YC

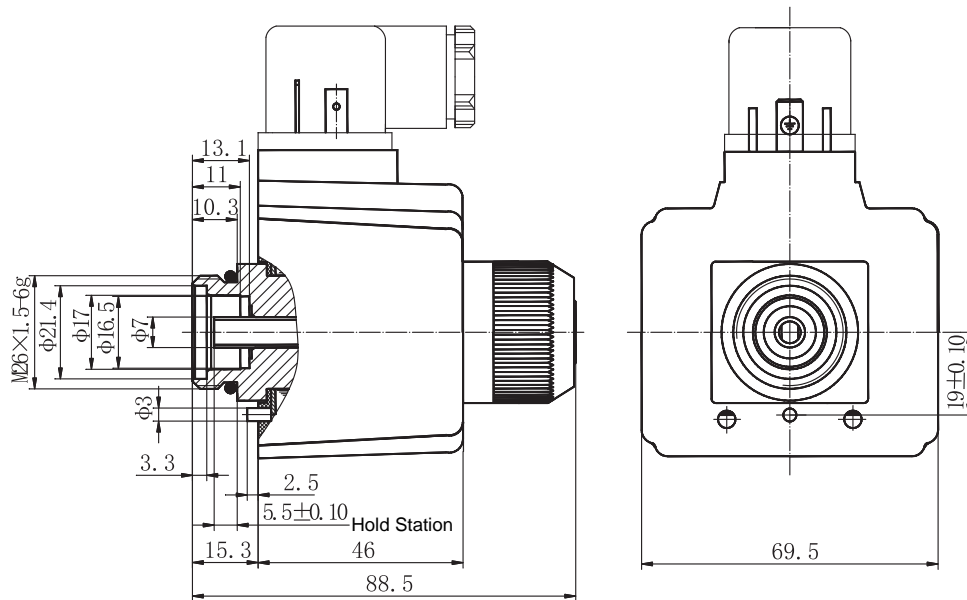
## Externality & Installation Dimensions

Product Code: MFJ12-27YC





Product Code: MFJ12-54YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When the system ask for low noise, or the cleanliness of the oil can not make sure, or the wave range of the supply power is beyond common requirements, please use the AC internal rectifying solenoid.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## MFJ12A-YC SERIES AC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to the control circuits of AC 50Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve of REXROTH.



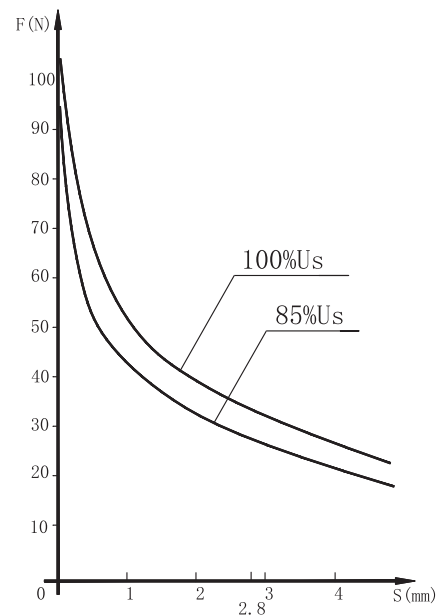
### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

Code	MFJ12A-27YC	
Rated Voltage	(V)	110 220
Power Frequency	(Hz)	50
Rated Force	(N)	≥27
Rated Stroke	(mm)	2.8
Total Stroke	(mm)	≥6
Static Oil Pressure	(MPa)	21
Start VA	(VA)	≤154
Holding VA	(VA)	≤58
Operating Frequency	(T/h)	12000

### Stroke-Force Curve



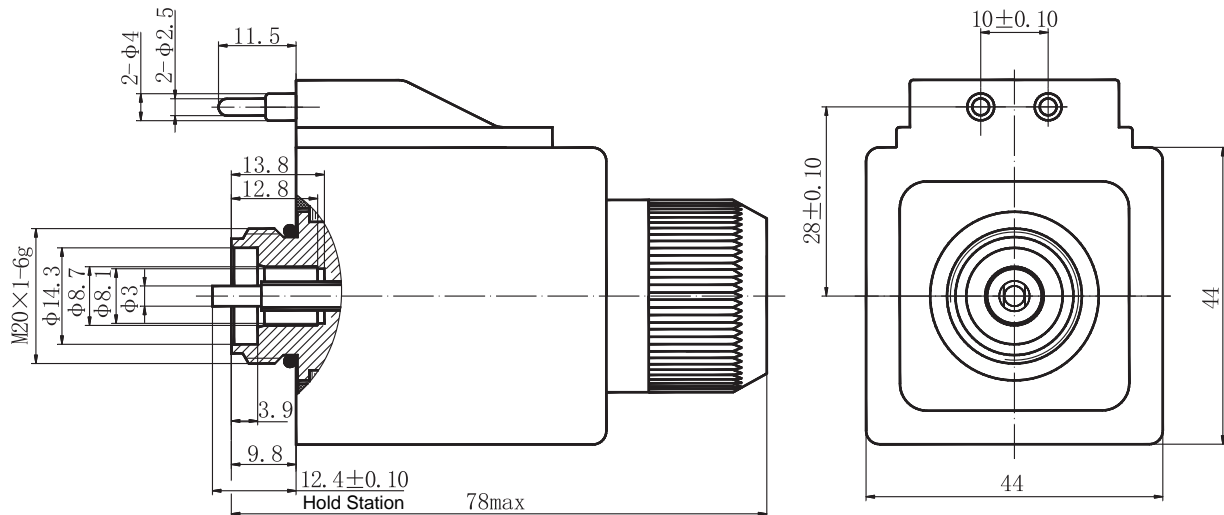
### Purchase Code

Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	12A	27	YC



## Externality & Installation Dimensions

Product Code: MFJ12A-27YC



## Operating Notice

- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.





## MFZ9-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits, which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 of YUKEN solenoid directional valve, which is junction box screw connected.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

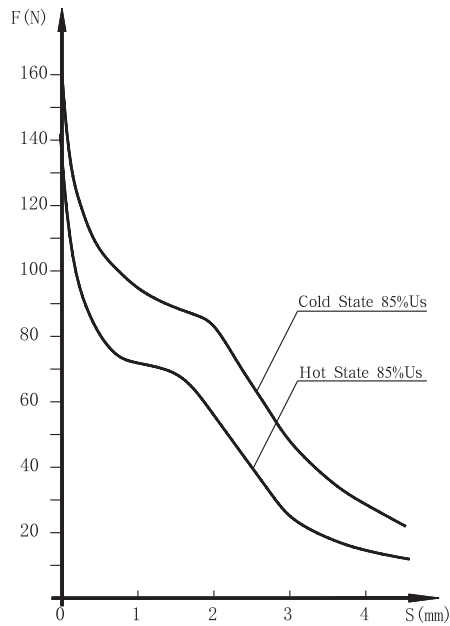
Code		MFZ9-20YC	MFZ9-55YC
Rated Voltage	(V)	12 24 100 220	12 24 100 220
Rated Force	(N)	≥20	≥55
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	≥6	≥8
Consumed Power	(W)	≤28	≤38
Static Oil Pressure	(MPa)	16	16
Operating Frequency	(T/h)	12000	12000

### Purchase Code

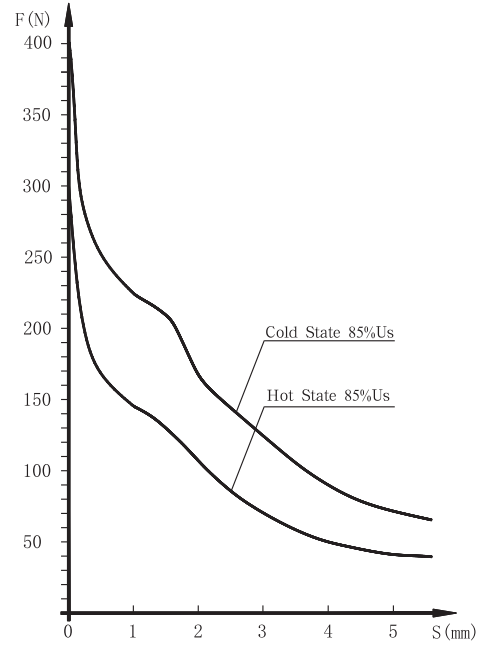
Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	9	20/55	YC



## Stroke-Force Curve



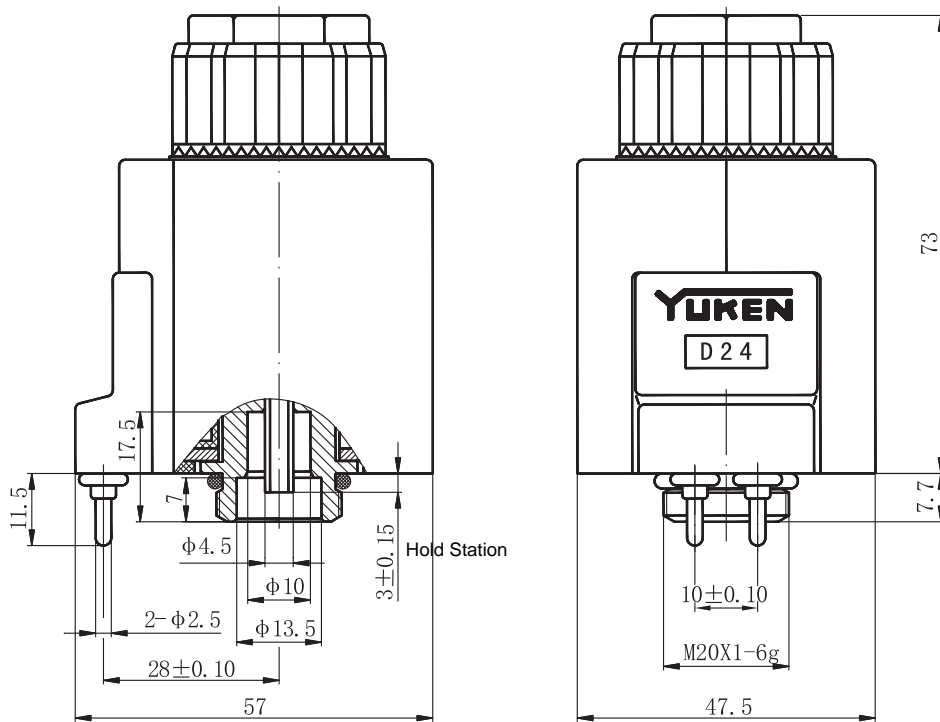
MFZ9-20YC



MFZ9-55YC

## Externality & Installation Dimensions

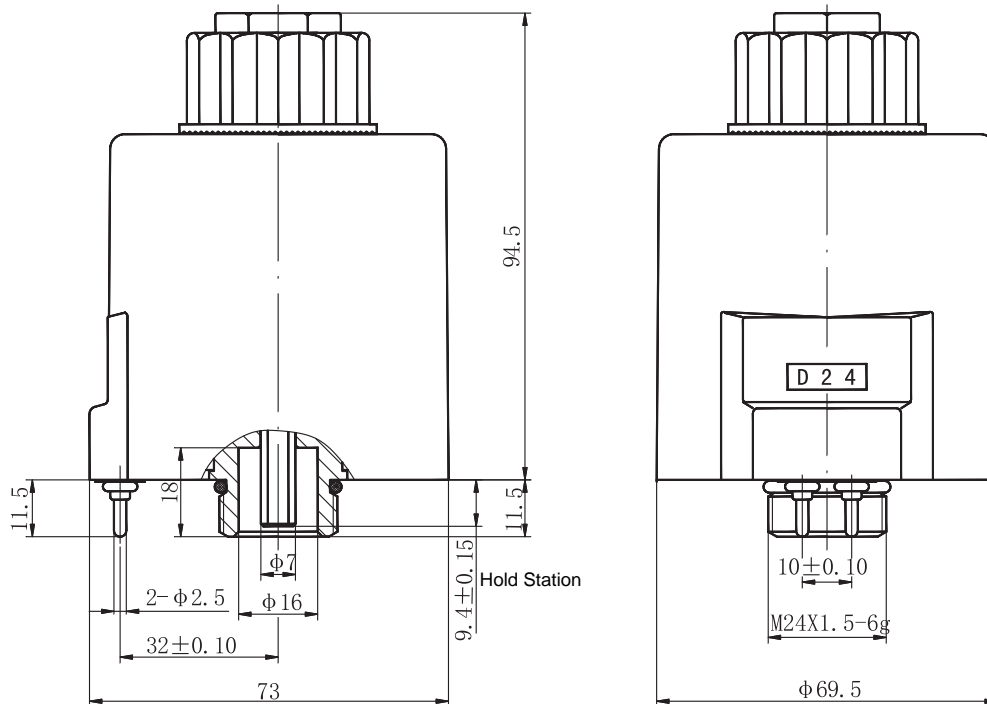
Product Code: MFZ9-20YC





## MFZ9-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

Product Code: MFZ9-55YC



### Operating Notice

- Mode connection of solenoids is junction box. The voltage of junction box must meet with the solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

### Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.

## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits, which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 of YUKEN solenoid directional valve, which is junction box screw connected.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

Code		MFZ9A-20YC	MFZ9A-55YC
Rated Voltage	(V)	12 24 100 220	12 24 100 220
Rated Force	(N)	≥20	≥55
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	≥6	≥8
Consumed Power	(W)	≤28	≤38
Static Oil Pressure	(MPa)	16	16
Operating Frequency	(T/h)	12000	12000

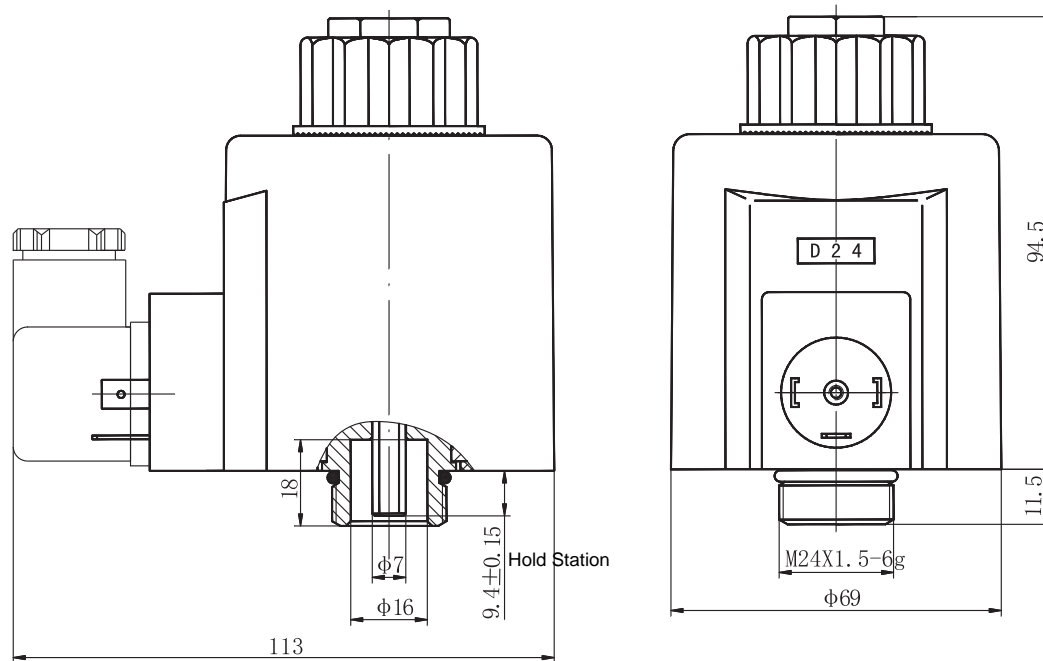
## Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	9A	20/55	YC





Product Code: MFZ9A-55YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.



## MFJ9-YC SERIES AC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to the control circuits of AC 50Hz/60Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 of YUKEN solenoid directional valve, which is junction box screw connected.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

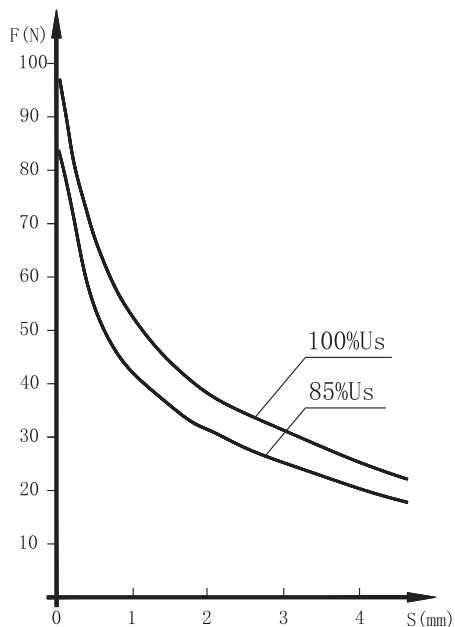
Code		MFJ9-26YC		MFJ9-50YC	
Rated Voltage	(V)	110/120	220/240	100	200
Power Frequency	(Hz)	50/60		60	
Rated Force	(N)	≥26		≥50	
Rated Stroke	(mm)	3		4	
Total Stroke	(mm)	≥6		≥8	
Static Oil Pressure	(MPa)	16		16	
Start VA	(VA)	≤188		≤336	
Holding VA	(VA)	≤60		≤84	
Operating Frequency	(T/h)	12000		12000	

### Purchase Code

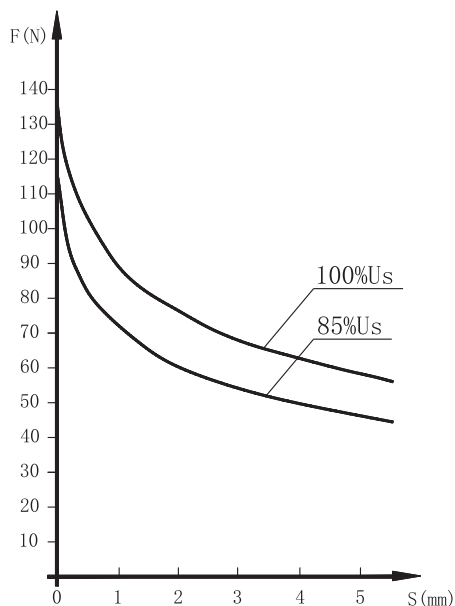
Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	9	26/50	YC



Stroke-Force Curve



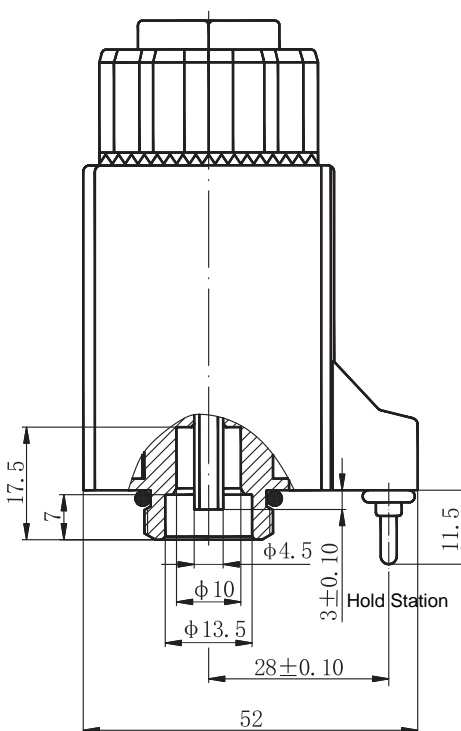
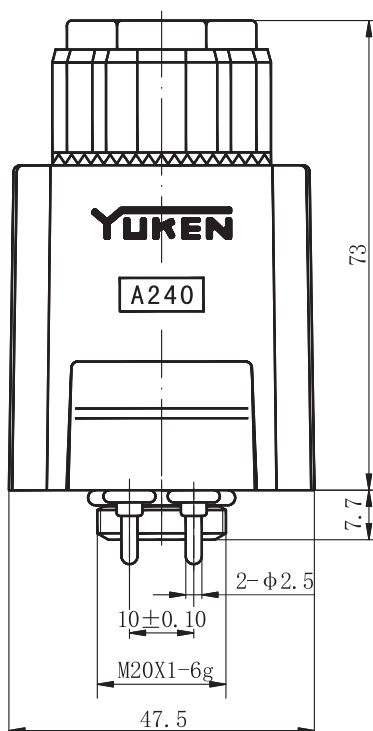
MFJ9-26YC



MFJ9-50YC

Externality & Installation Dimensions

Product Code: MFJ9-26YC









## Purpose

This series solenoid is applied to the control circuits of AC 50Hz/60Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve of YUKEN.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

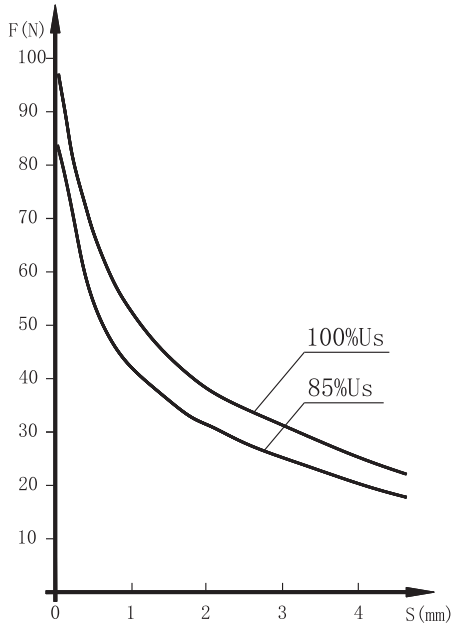
Code		MFJ9A-26YC		MFJ9A-50YC	
Rated Voltage	(V)	110/120	220/240	100	200
Power Frequency	(Hz)	50/60		60	
Rated Force	(N)	26		50	
Rated Stroke	(mm)	3		4	
Total Stroke	(mm)	≥6		≥8	
Static Oil Pressure	(MPa)	16		16	
Start VA	(VA)	≤188		≤336	
Holding VA	(VA)	≤60		≤84	
Operating Frequency	(T/h)	12000		12000	

## Purchase Code

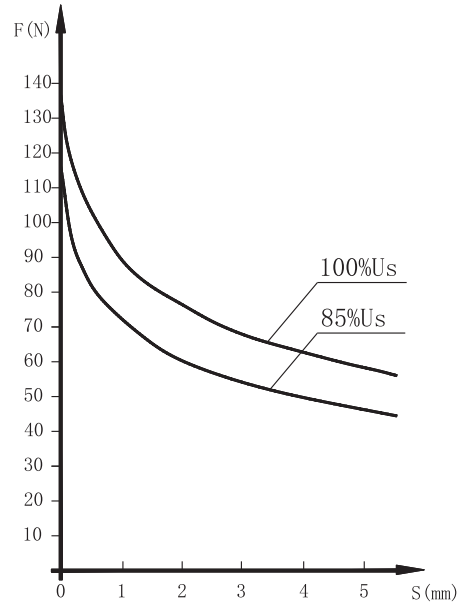
Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	9A	26/50	YC



## Stroke-Force Curve



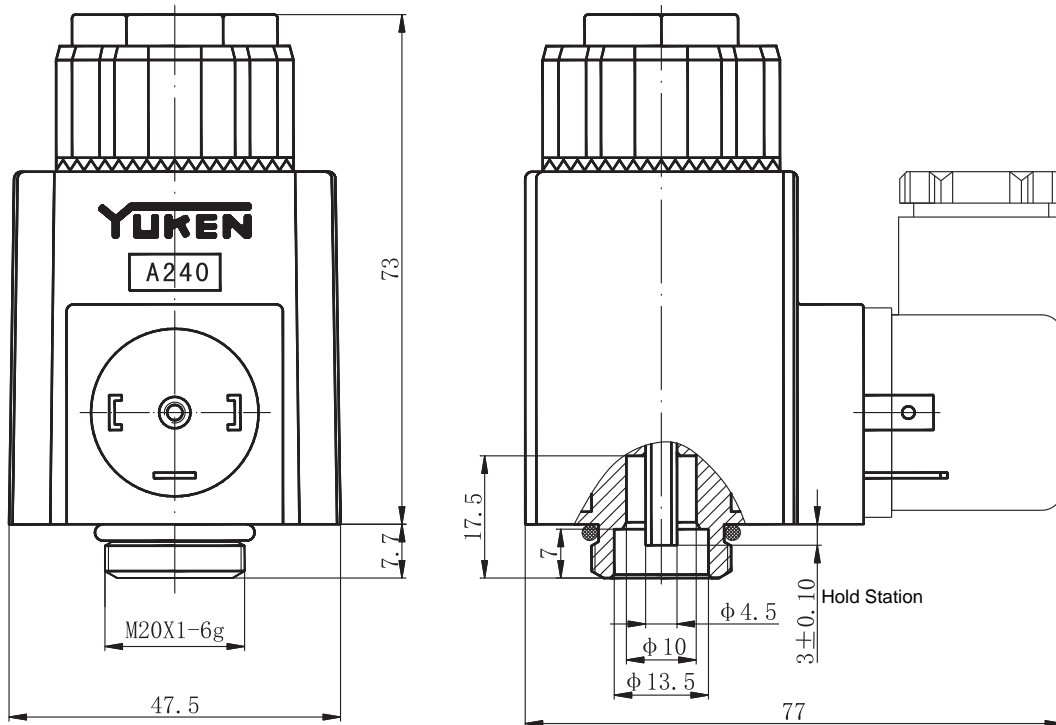
MFJ9A-26YC



MFJ9A-50YC

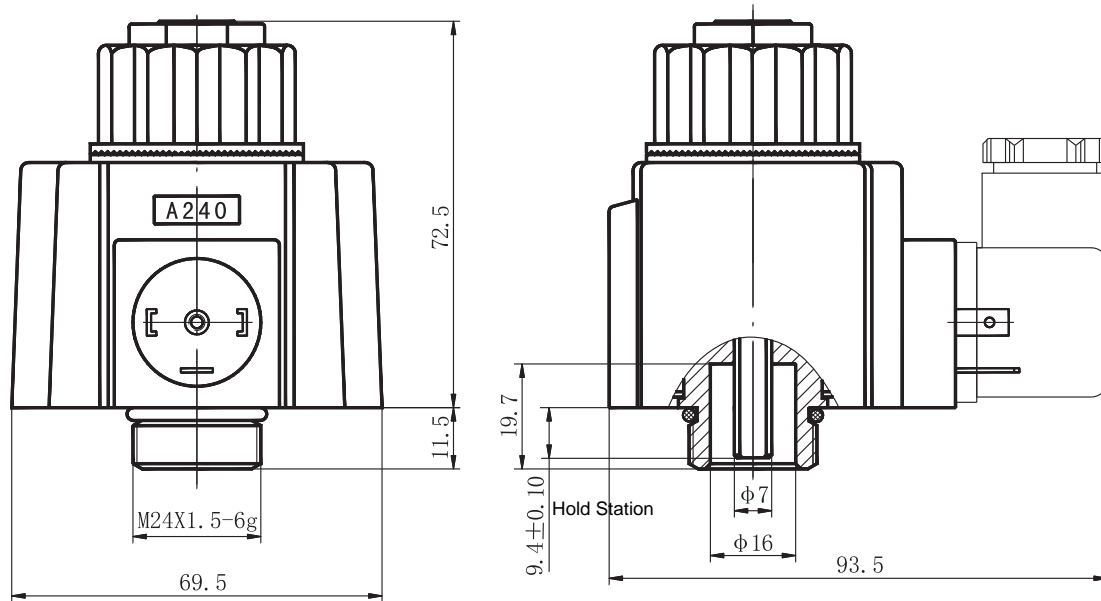
## Externality & Installation Dimensions

Product Code: MFJ9A-26YC





Product Code: MFJ9A-50YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## MFZ9(A)-YC(SG) SERIES DC WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits; which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

Code		MFZ9A-20YC(SG)	MFZ9-37YC(SG)	MFZ9A-55YC(SG)
Rated Voltage	(V)	12 24	12 24	12 24
Rated Force	(N)	≥20	≥37	≥55
Rated Stroke	(mm)	3	3	4
Total Stroke	(mm)	≥6	≥6	≥8
Consumed Power	(W)	≤32	≤30	≤46
Static Oil Pressure	(MPa)	21	21	21
Operating Frequency	(T/h)	12000	12000	12000

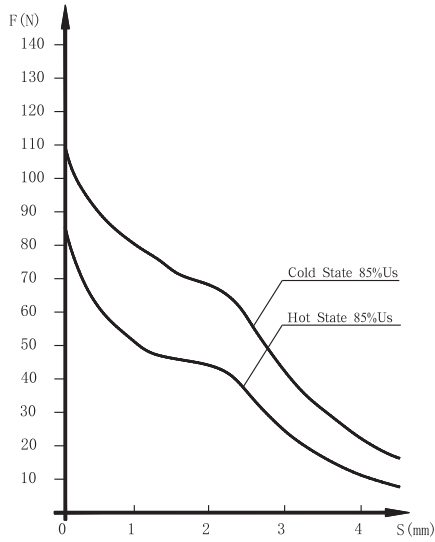
### Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet	Order Code
MF	Z	9 (A)	20/37 /55	YC	(SG)

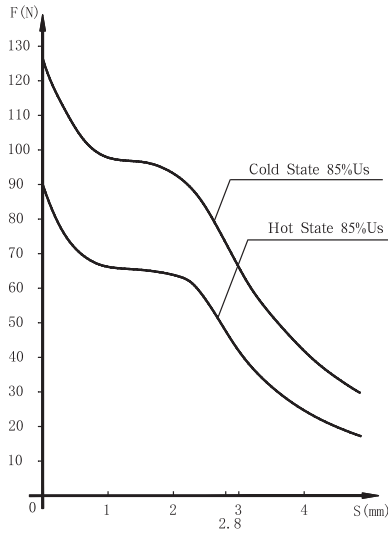


# MFZ9(A)-YC(SG) SERIES DC WET-VALVE SOLENOID

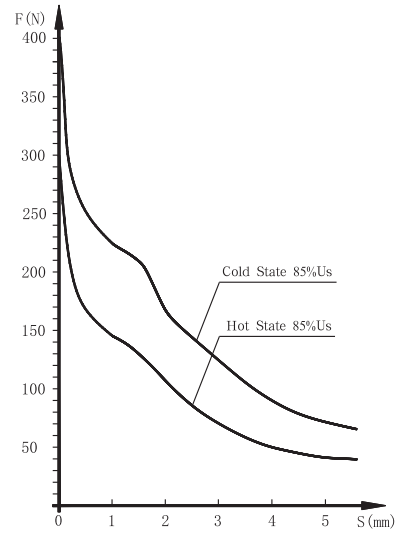
## Stroke-Force Curve



MFZ9A-20YC(SG)



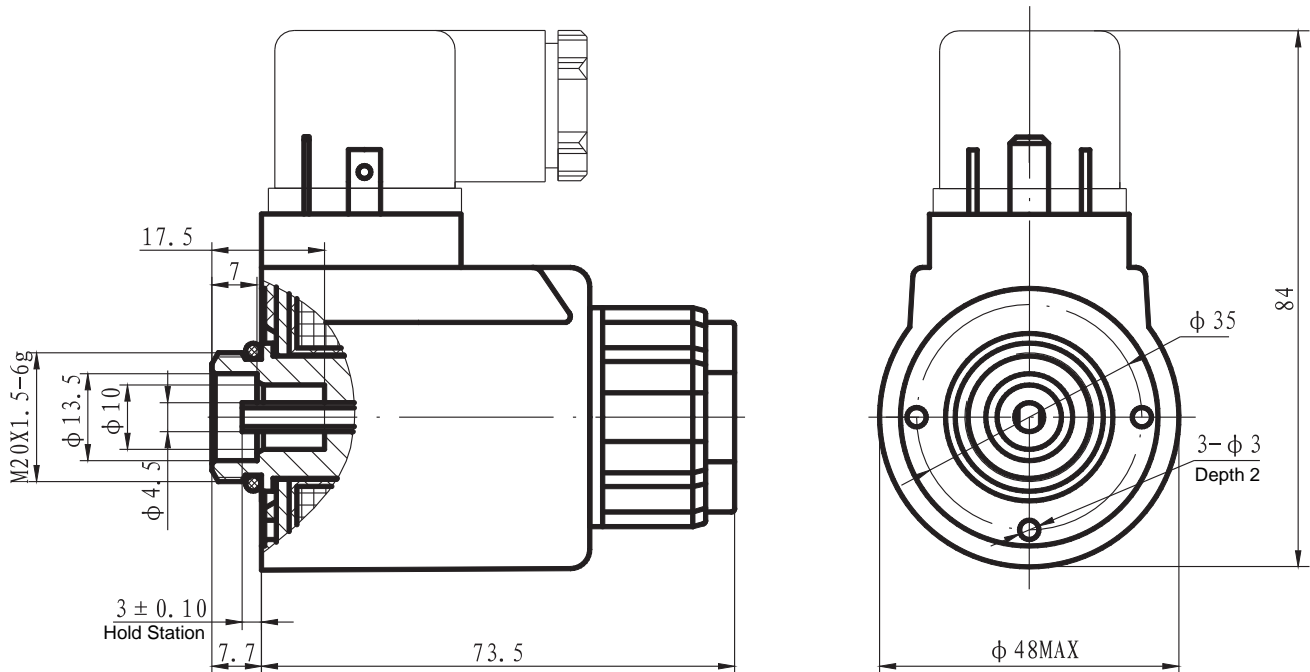
MFZ9-37YC(SG)



MFZ9A-55YC(SG)

## Externality & Installation Dimensions

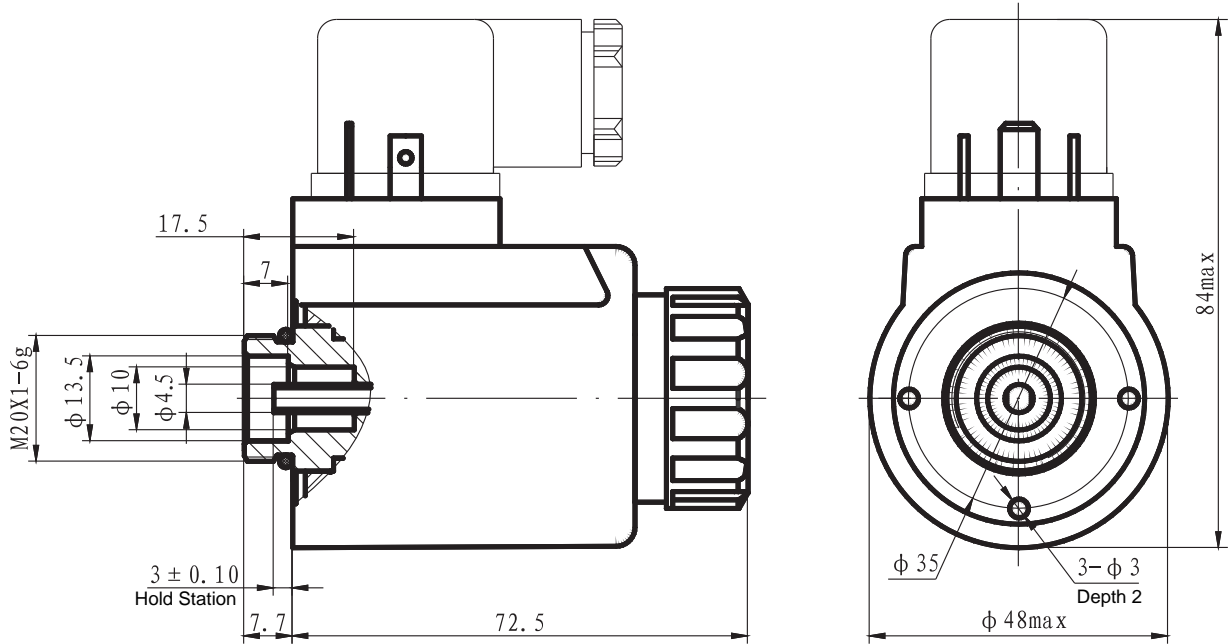
Product Code: MFZ9A-20YC (SG)



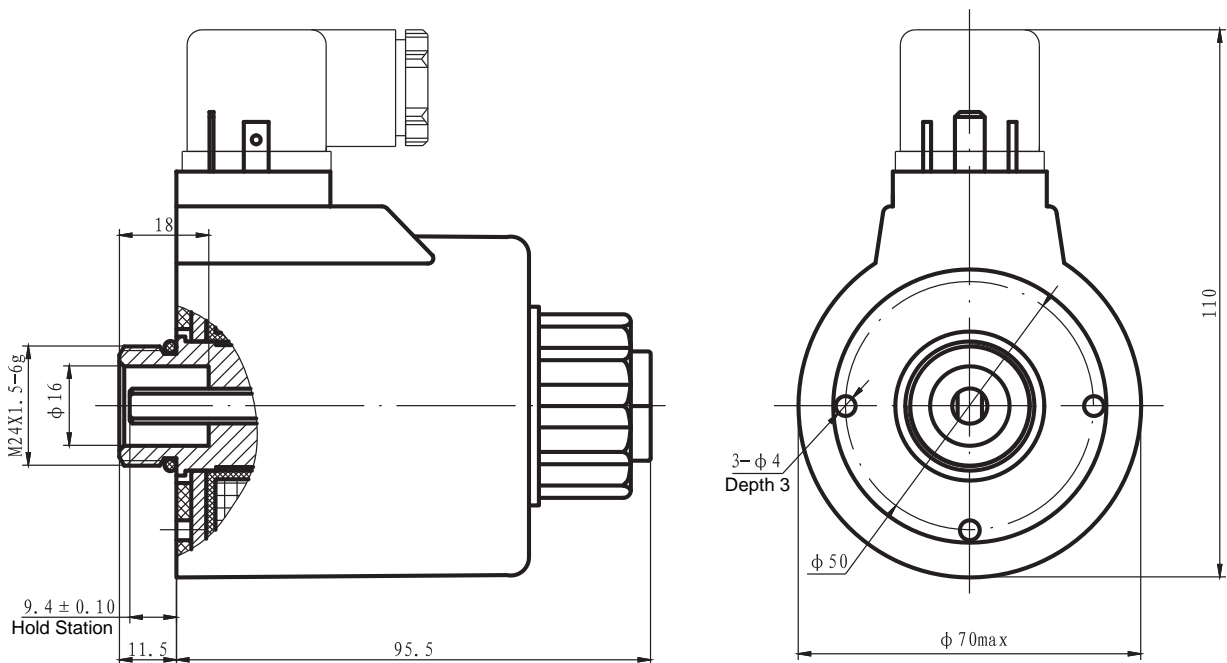


# MFZ9(A)-YC(SG) SERIES DC WET-VALVE SOLENOID

Product Code: MFZ9-37YC (SG)



Product Code: MFZ9A-55YC (SG)





### Operating Notice

- The socket, which solenoids used, is according to IS04400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

### Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.





## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits, which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve of YUKEN.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

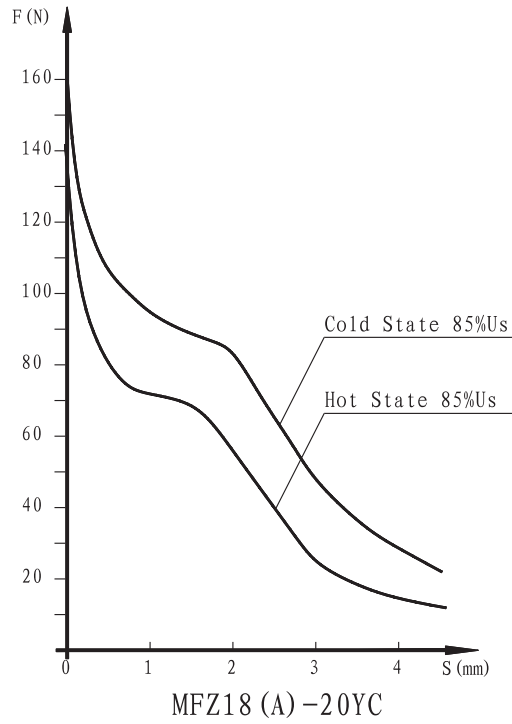
Code		MFZ18-20YC	MFZ18A-20YC
Rated Voltage	(V)	12 24	12 24
Rated Force	(N)	≥20	≥20
Rated Stroke	(mm)	3	3
Total Stroke	(mm)	≥6	≥6
Consumed Power	(W)	≤30	≤30
Static Oil Pressure	(MPa)	16	16
Operating Frequency	(T/h)	12000	12000

## Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	18/18A	20	YC

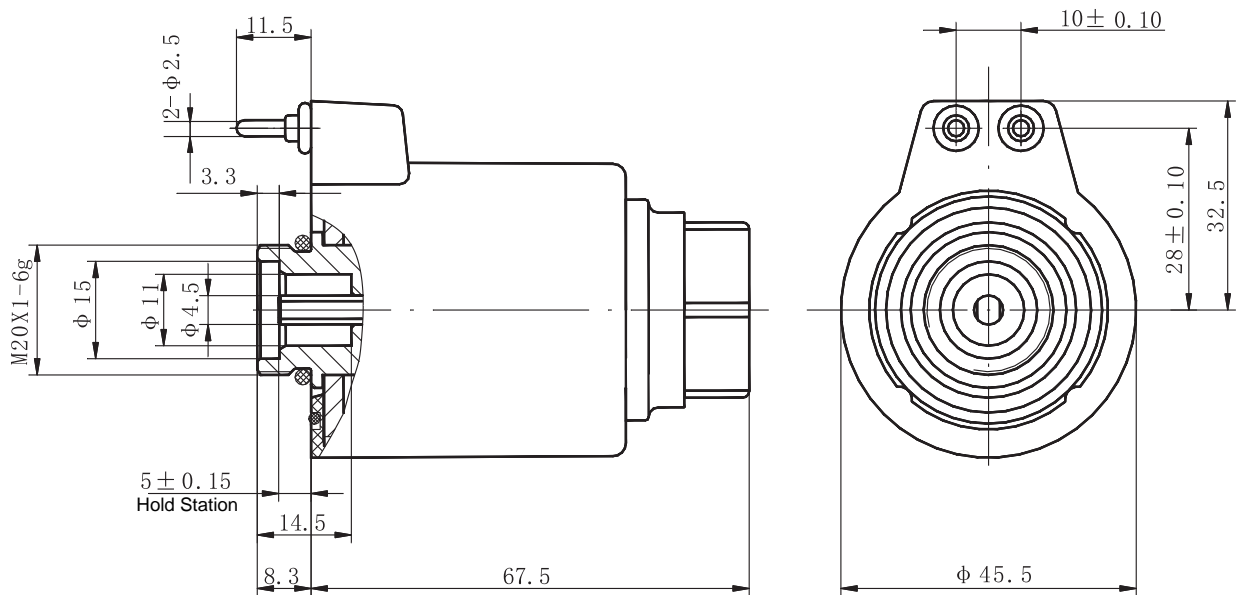


## Stroke-Force Curve



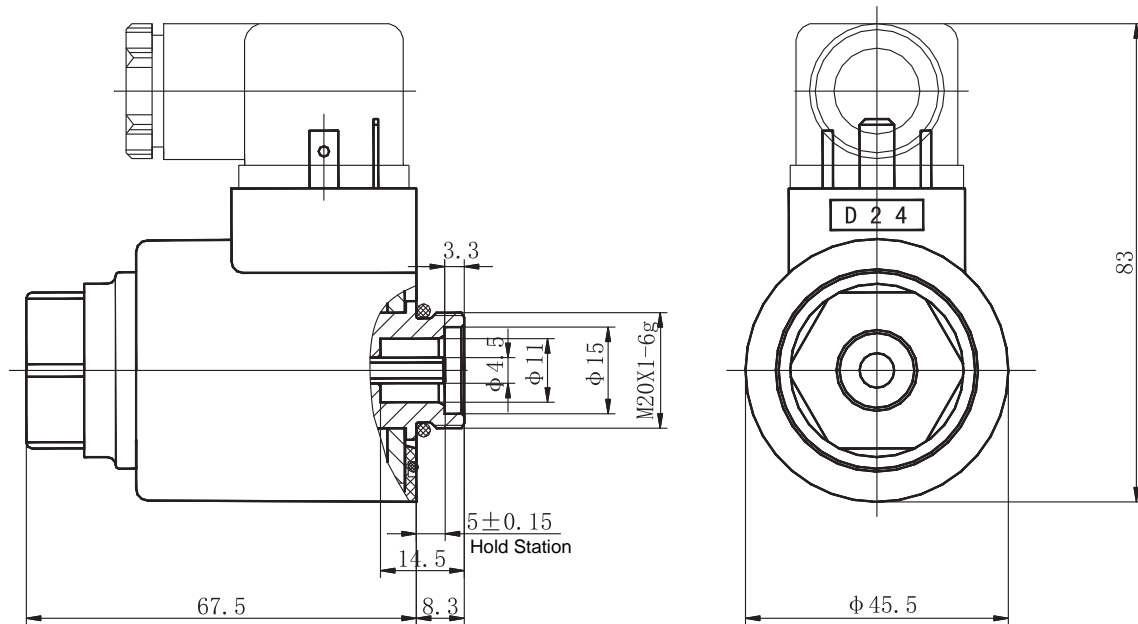
## Externality & Installation Dimensions

Product Code: MFZ18-20YC





Product Code: MFZ18A-20YC



## Operating Notice

- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This series solenoid is applied to the control circuits of AC 50Hz/60Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve of YUKEN.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

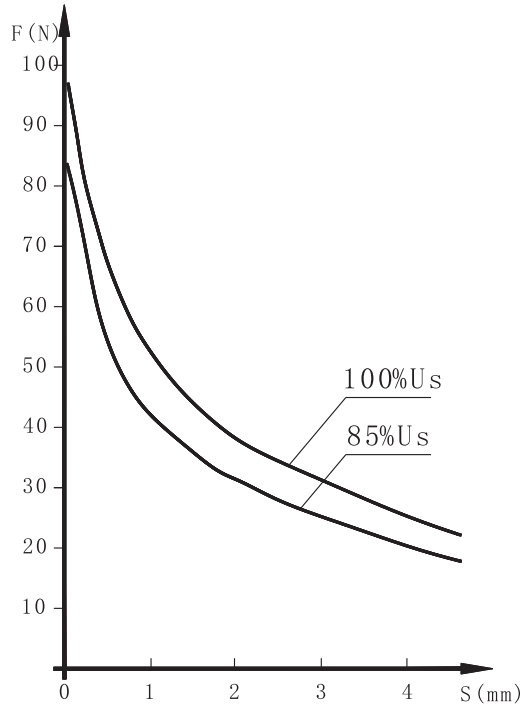
Code		MFJ18-26YC		MFJ18A-26YC	
Rated Voltage	(V)	110/120	220/240	100	200
Power Frequency	(Hz)	50/60		60	
Rated Force	(N)	26		26	
Rated Stroke	(mm)	3		3	
Total Stroke	(mm)	≥6.1		≥6.1	
Static Oil Pressure	(MPa)	16		16	
Start VA	(VA)	≤188		≤188	
Holding VA	(VA)	≤60		≤60	
Operating Frequency	(T/h)	12000		12000	

## Purchase Code

Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	18/18A	26	YC



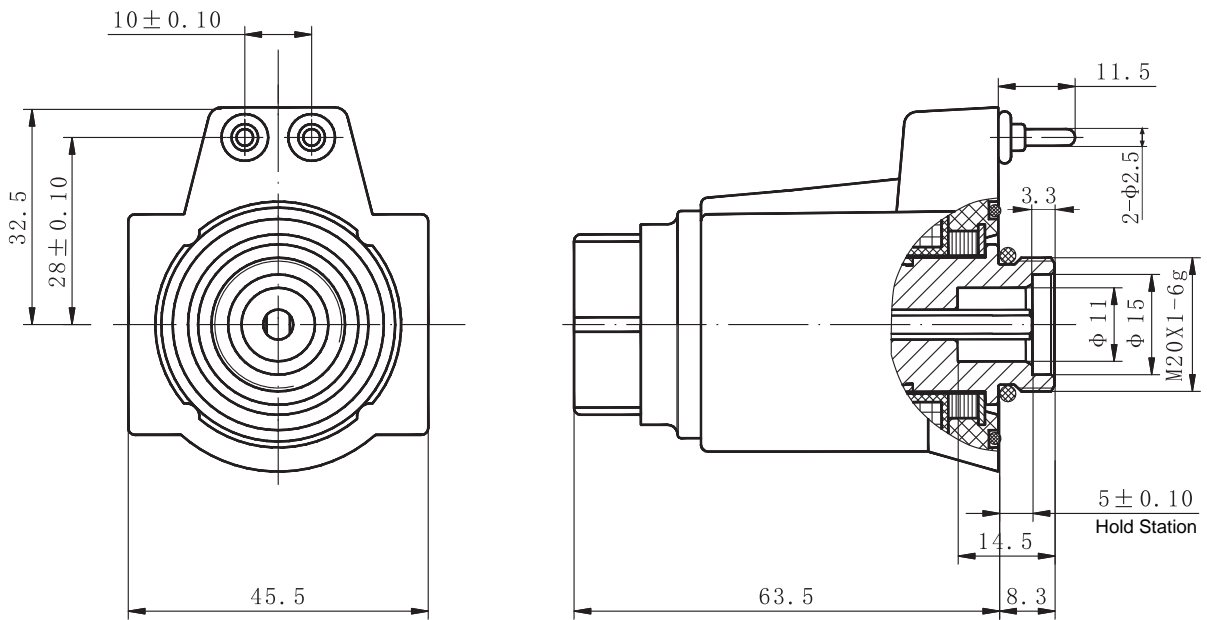
## Stroke-Force Curve



MFJ18(A)-26YC

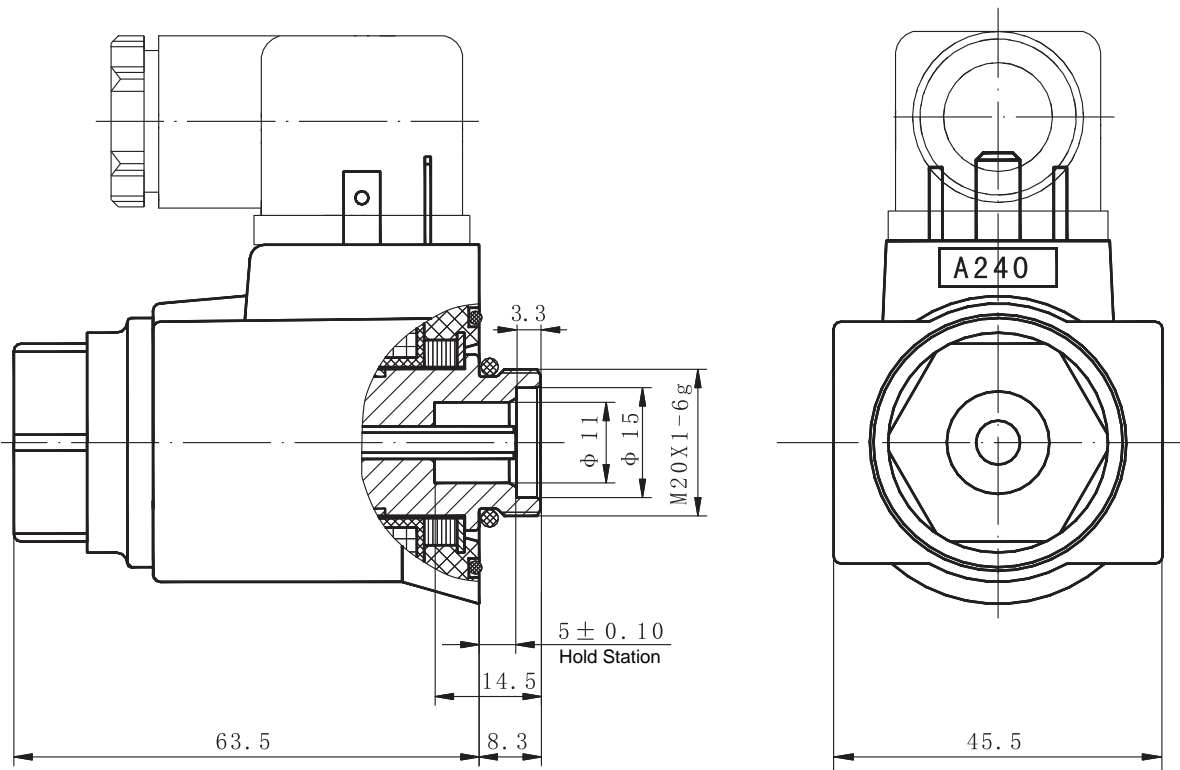
## Externality & Installation Dimensions

Product Code: MFJ18-26YC





Product Code: MFJ18A-26YC



## Operating Notice

- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits, which voltage can reach 220V , as a component of the hydraulic solenoid directional valve. This solenoid is permitted by BSO Company Ltd. in Germany, which is matched for NG6 , NG10 of REXROTH bolt connected solenoid directional valve.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

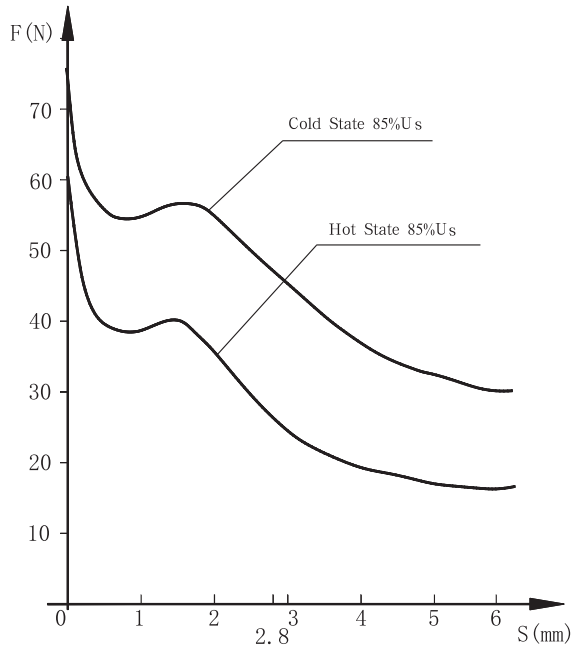
Code		MFZ6-22YC	MFZ6-37YC	MFZ6-90YC
Rated Voltage	(V)	12 24 110 220	12 24 110 220	12 24 110 220
Rated Force	(N)	≥22	≥37	≥90
Rated Stroke	(mm)	2.8	2.8	3.6
Total Stroke	(mm)	≥6.1	≥6.1	≥7.8
Consumed Power	(W)	≤30	≤30	≤35
Static Oil Pressure	(MPa)	16	21	21
Operating Frequency	(T/h)	12000	12000	12000

## Purchase Code

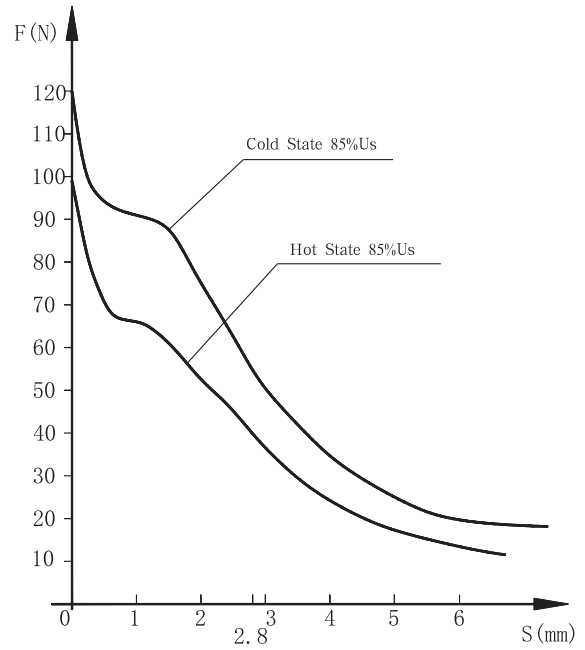
Valve-Using Solenoids	DC	Design Code	Rated Force	Wet
MF	Z	6	22/37/90	YC



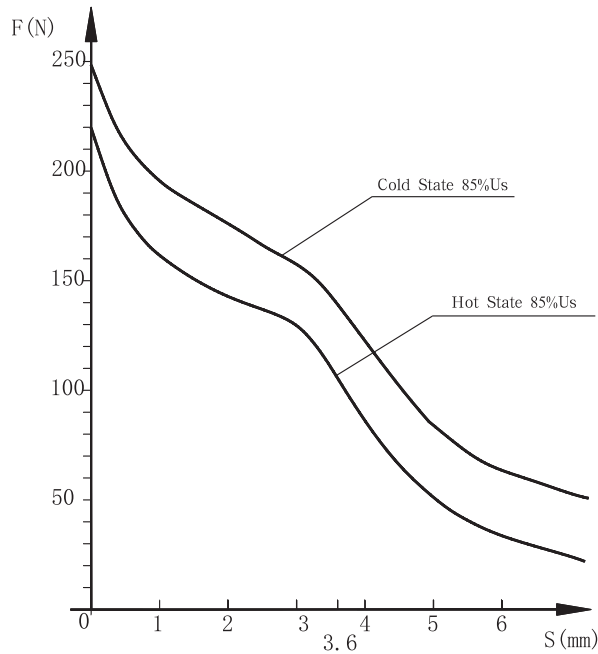
## Stroke-Force Curve



MFZ6-22YC



MFZ6-37YC



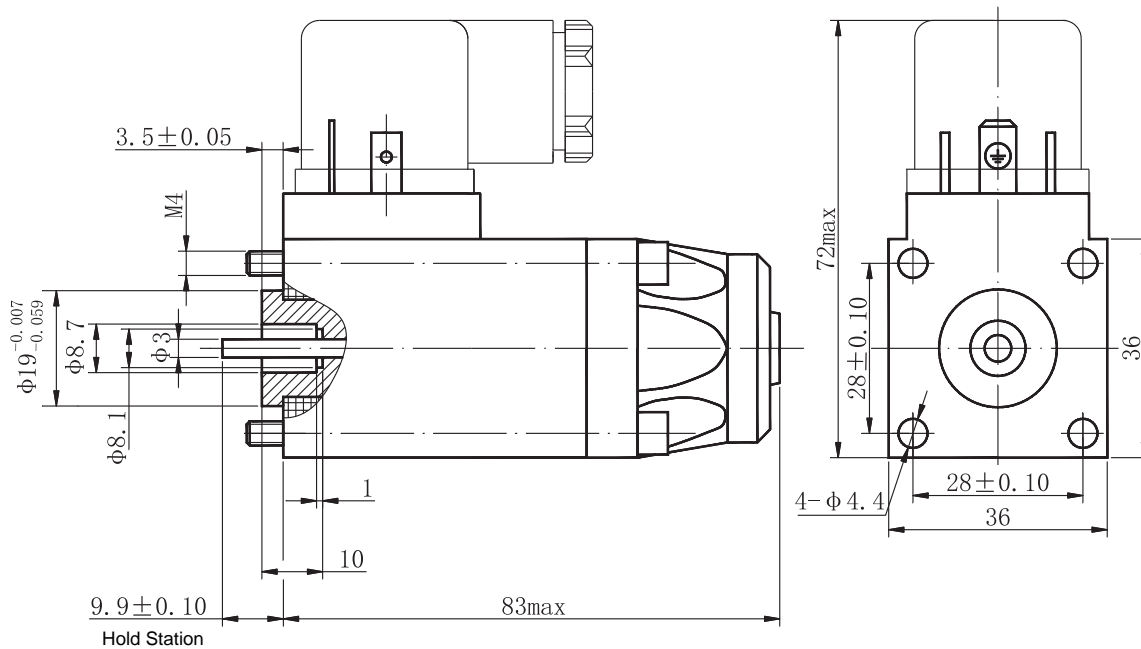
MFZ6-90YC



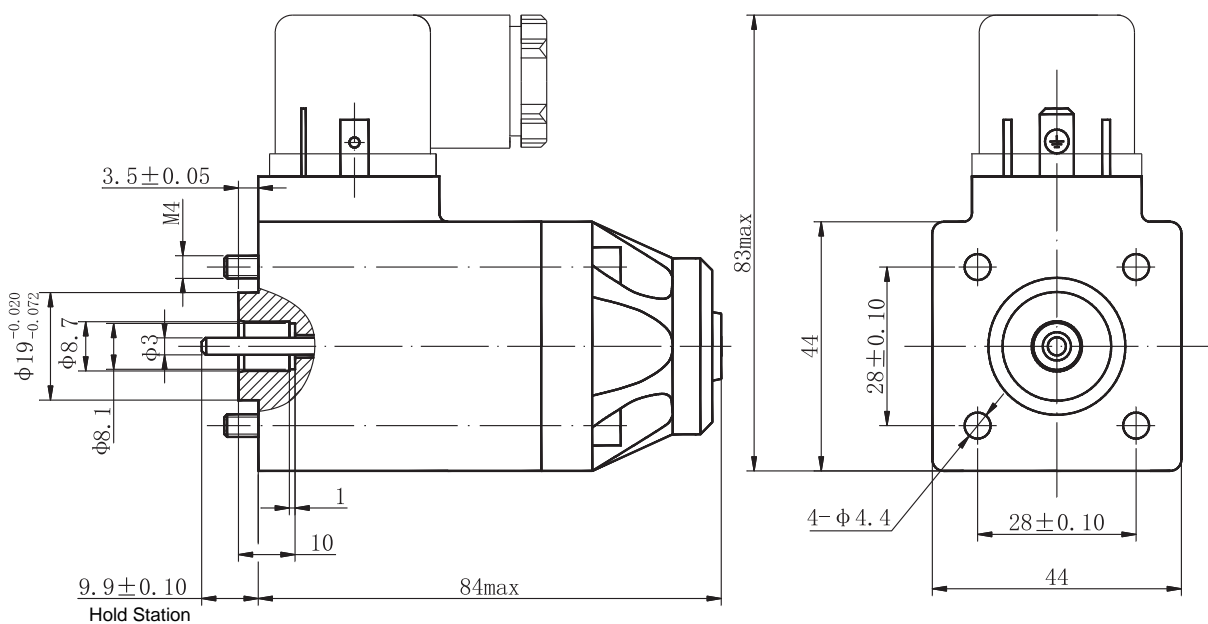


## Externality & Installation Dimensions

Product Code: MFZ6-22YC

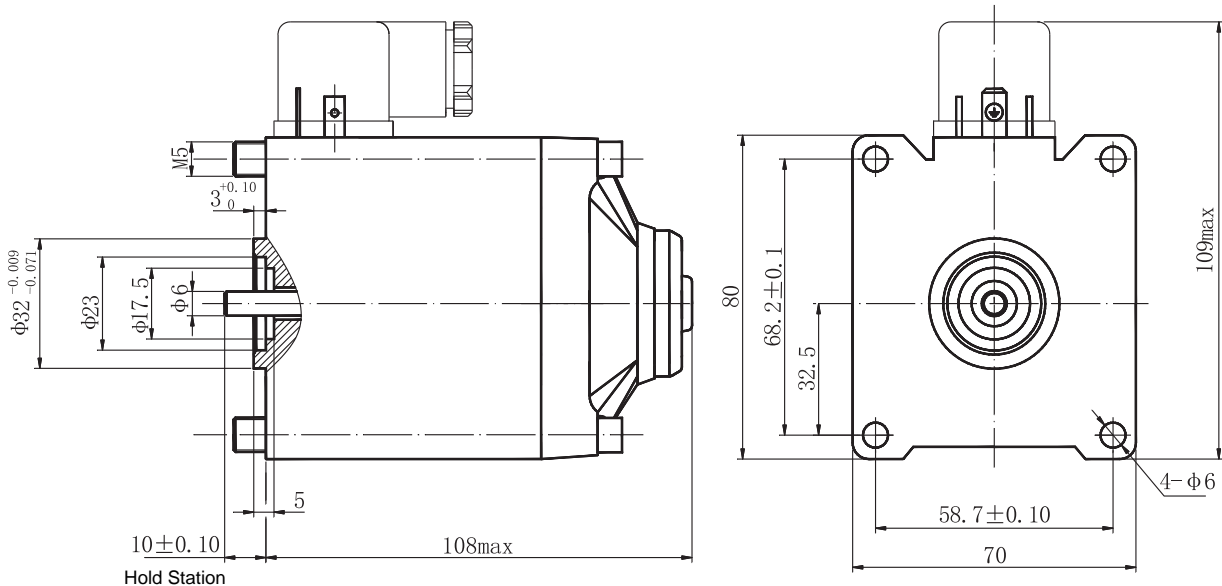


Product Code: MFZ6-37YC





Product Code: MFZ6-90YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## MFB6-YC SERIES INTERNAL RECTIFYING WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits, which voltage can reach 220V, as a component of the hydraulic solenoid directional valve. This solenoid is permitted by BSO Company Ltd. in Germany, which is matched for NG6, NG10 of REXROTH bolt connected solenoid directional valve.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible).
- The protection is IP65 class.

### Key Parameters

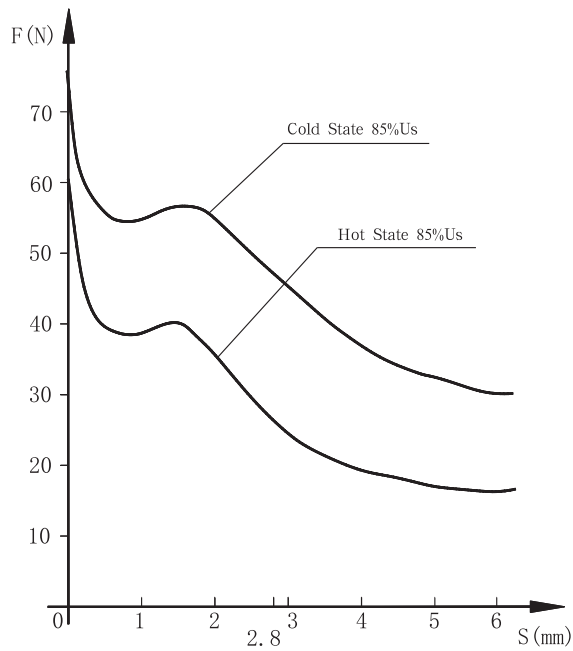
Code		MFB6-22YC	MFB6-37YC	MFB6-90YC
Rated Voltage	(V)	110 220	110 220	110 220
Rated Force	(N)	≥22	≥37	≥90
Rated Stroke	(mm)	2.8	2.8	3.6
Total Stroke	(mm)	≥6.1	≥6.1	≥7.8
Consumed Power	(W)	≤30	≤30	≤35
Static Oil Pressure	(MPa)	16	21	21
Operating Frequency	(T/h)	12000	12000	12000

### Purchase Code

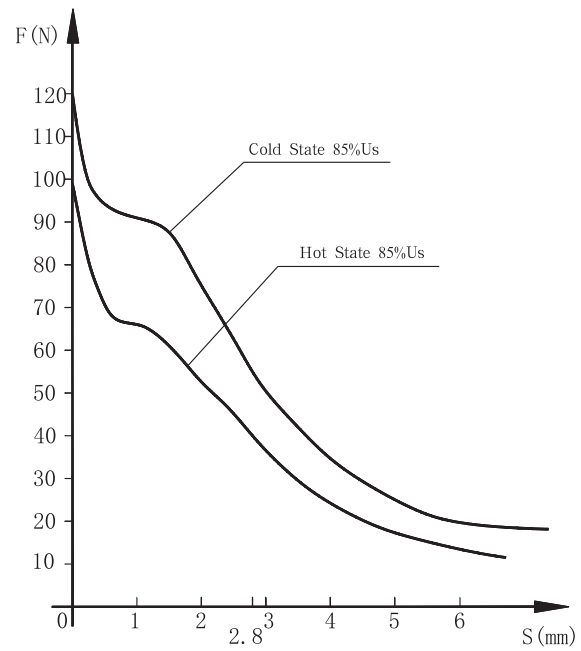
Valve-Using Solenoids	Internal Rectifying	Design Code	Rated Force (N)	Wet
MF	B	6	22/37/90	YC



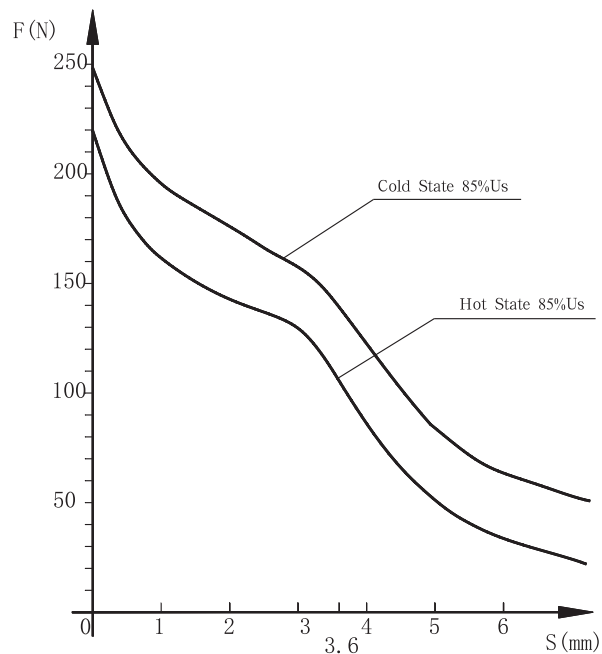
## Stroke-Force Curve



MFB6-22YC



MFB6-37YC



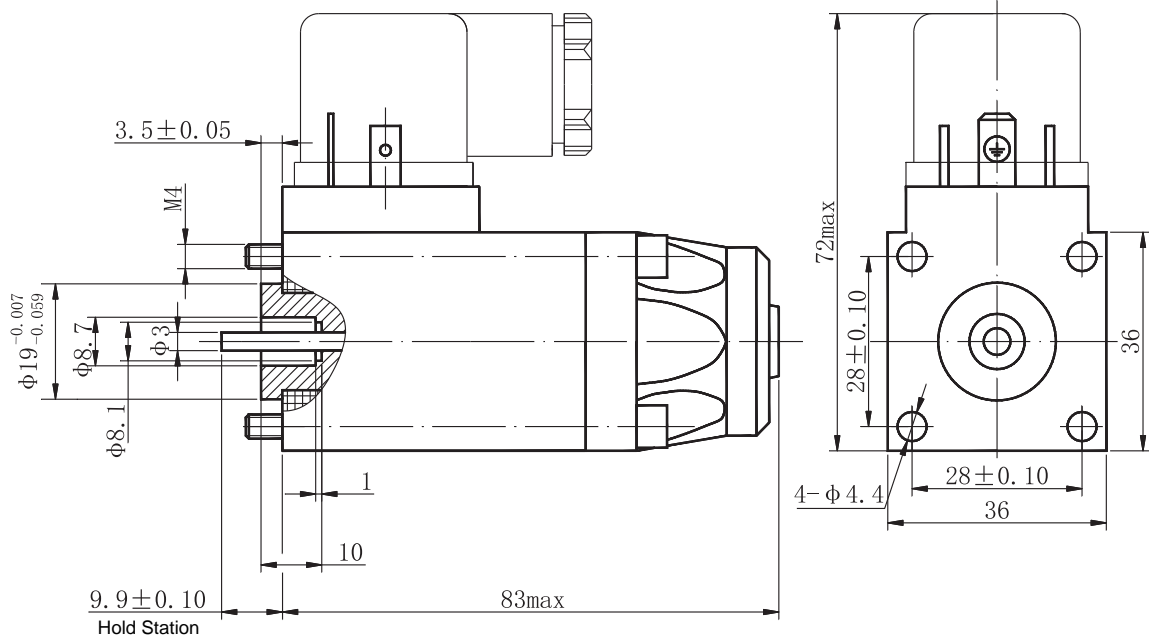
MFB6-90YC



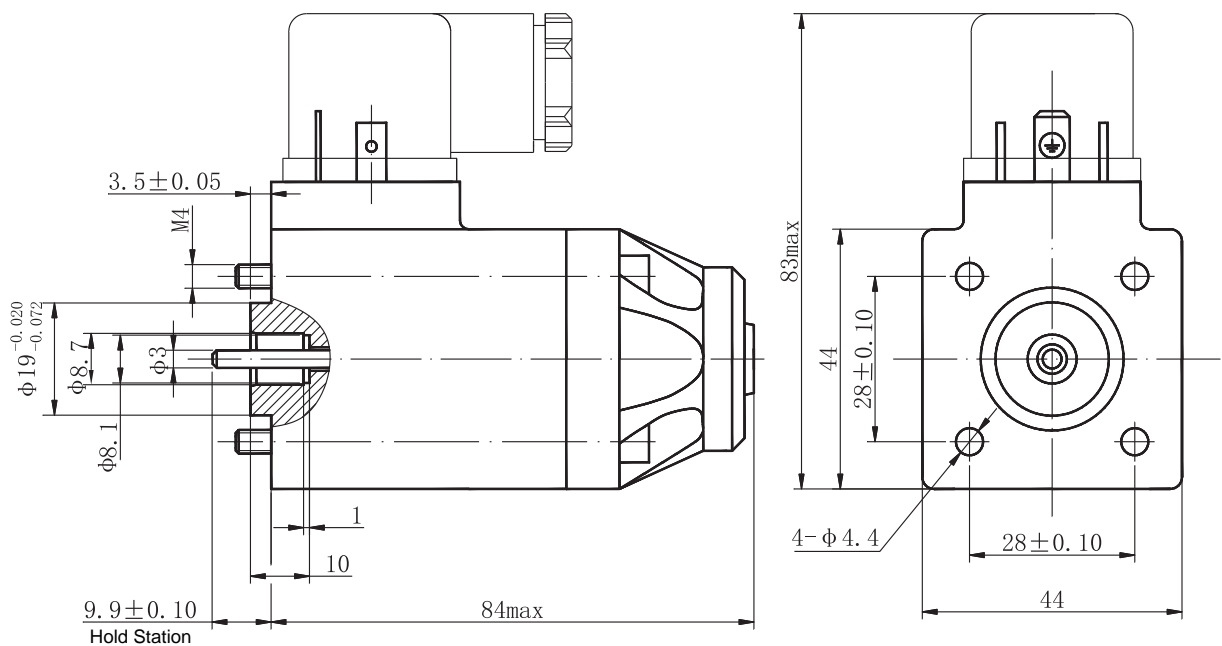
# MFB6-YC SERIES INTERNAL RECTIFYING WET-VALVE SOLENOID

## Externality & Installation Dimensions

Product Code: MFB6-22YC

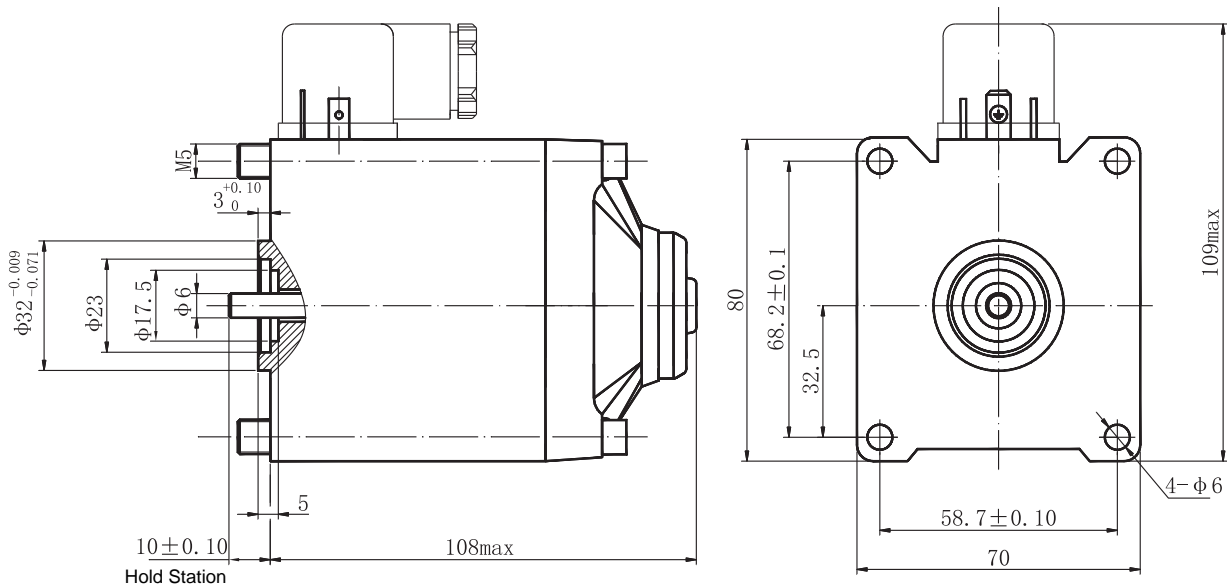


Product Code: MFB6-37YC





Product Code: MFB6-90YC



## Operating Notice

- Solenoid use half-wave commute socket, which meet with ISO4400 standard. The voltage must accord with solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This dry type solenoid is applied to the control circuits of AC 50Hz control circuits, which voltage can reach 380V, as component of the hydraulic solenoid directional valve. This solenoid is permitted by BSO Company Ltd. in Germany, which is matched for NG6, NG10 of Rexroth bolt connected solenoid directional valve.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

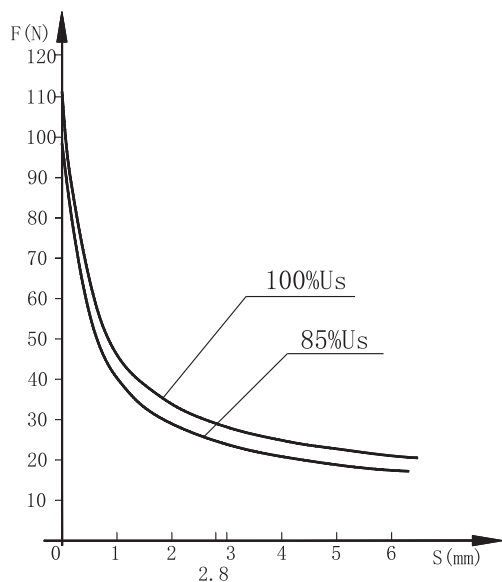
Code		MFJ6-18YC	MFJ6-27YC	MFJ6-54YC
Rated Voltage	(V)	110 220	110 220	110 220
Power Frequency	(Hz)	50	50	50
Rated Force	(N)	18	27	54
Rated Stroke	(mm)	2.8	2.8	3.6
Total Stroke	(mm)	≥6.1	≥6.1	≥7.8
Static Oil Pressure	(MPa)	10	16	16
Start VA	(VA)	≤154	≤200	≤480
Holding VA	(VA)	≤55	≤46	≤65
Operating Frequency	(T/h)	12000	12000	12000

## Purchase Code

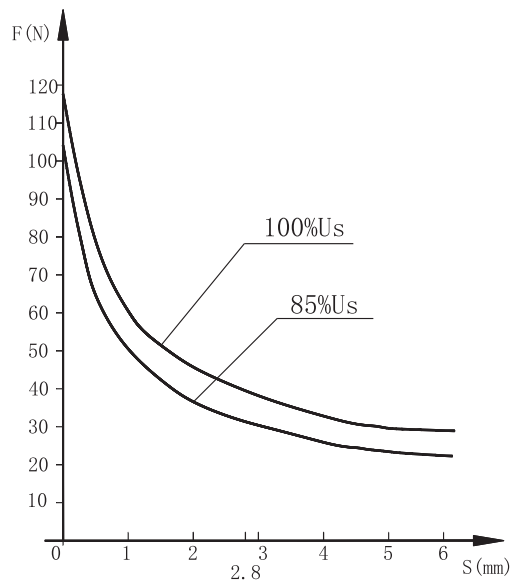
Valve-Using Solenoids	AC	Design Code	Rated Force	Wet
MF	J	6	18/27/54	YC



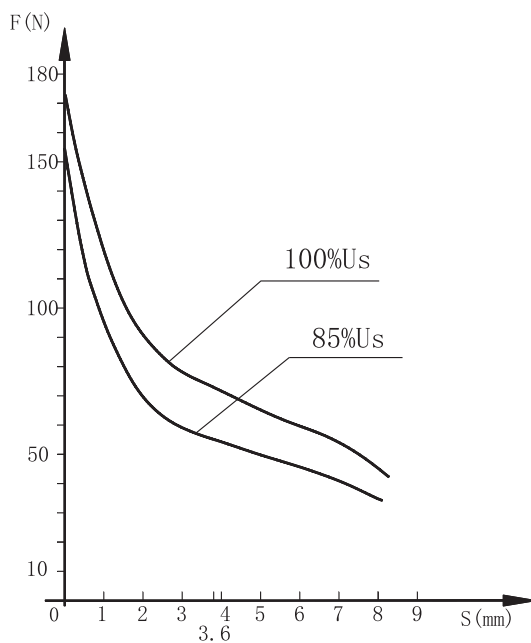
## Stroke-Force Curve



MFJ6-18YC



MFJ6-27YC



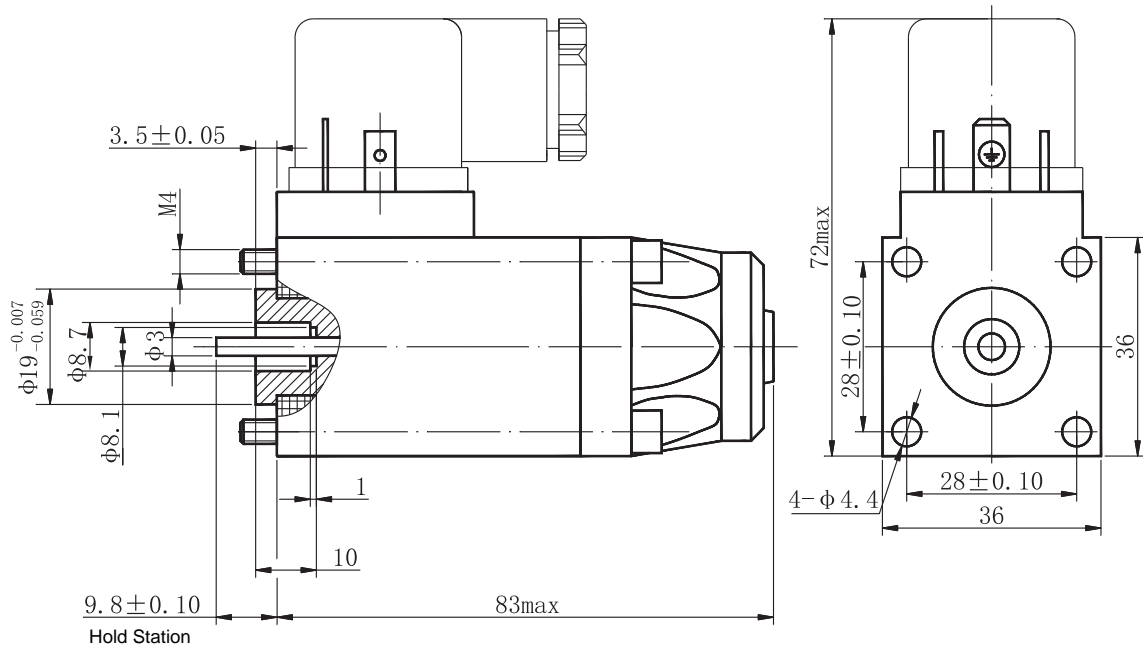
MFJ6-54YC



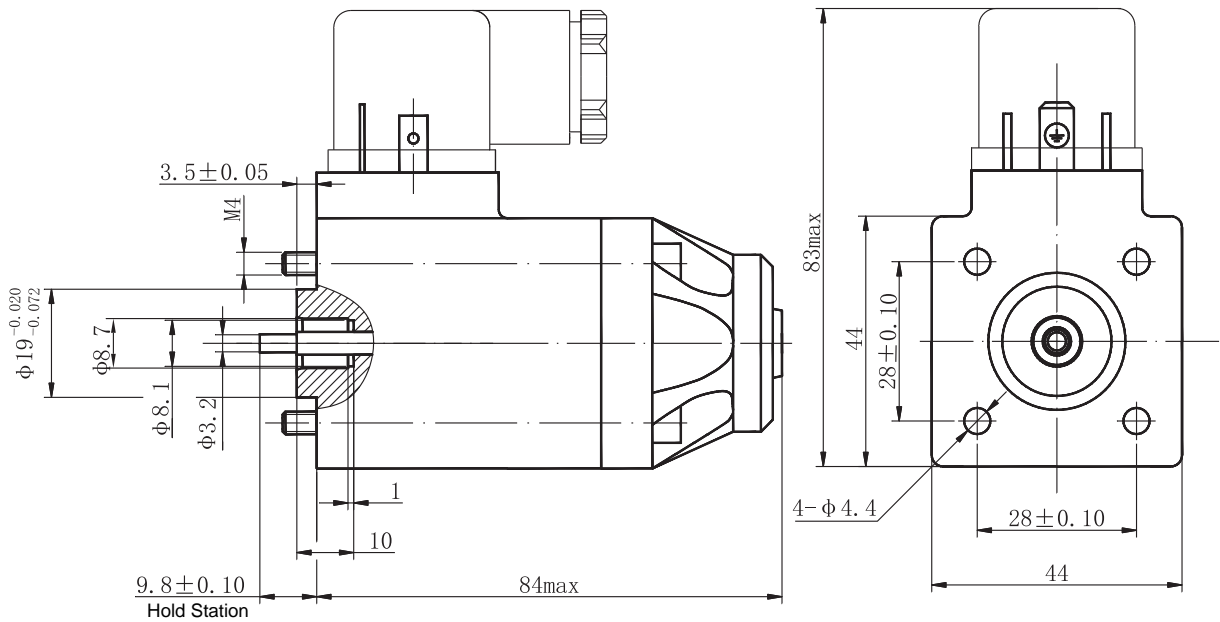


## Externality & Installation Dimensions

Product Code: MFJ6-18YC

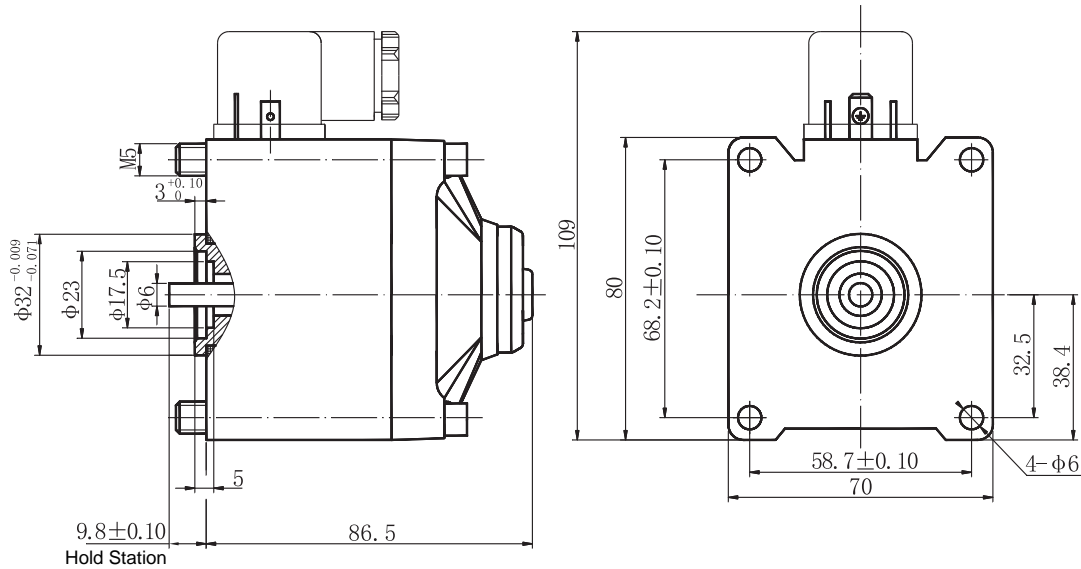


Product Code: MFJ6-27YC





Product Code: MFJ6-54YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When the system ask for low noise, or the cleanliness of the oil can not make sure, or the wave range of the supply power is beyond common requirements, please use the AC internal rectifying solenoid.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits, which voltage can reach 220V, as a component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve of VICKERS.



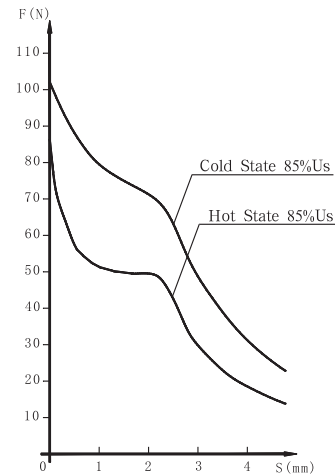
## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible).
- The protection is IP65 class.

## Key Parameters

Code	MFZ8(A)-30YC	
Rated Voltage	(V)	24 110
Rated Force	(N)	≥30
Rated Stroke	(mm)	3
Total Stroke	(mm)	≥6
Consumed Power	(W)	≤30
Static Oil Pressure	(MPa)	21
Operating Frequency	(T/h)	12000

## Stroke-Force Curve



## Purchase Code

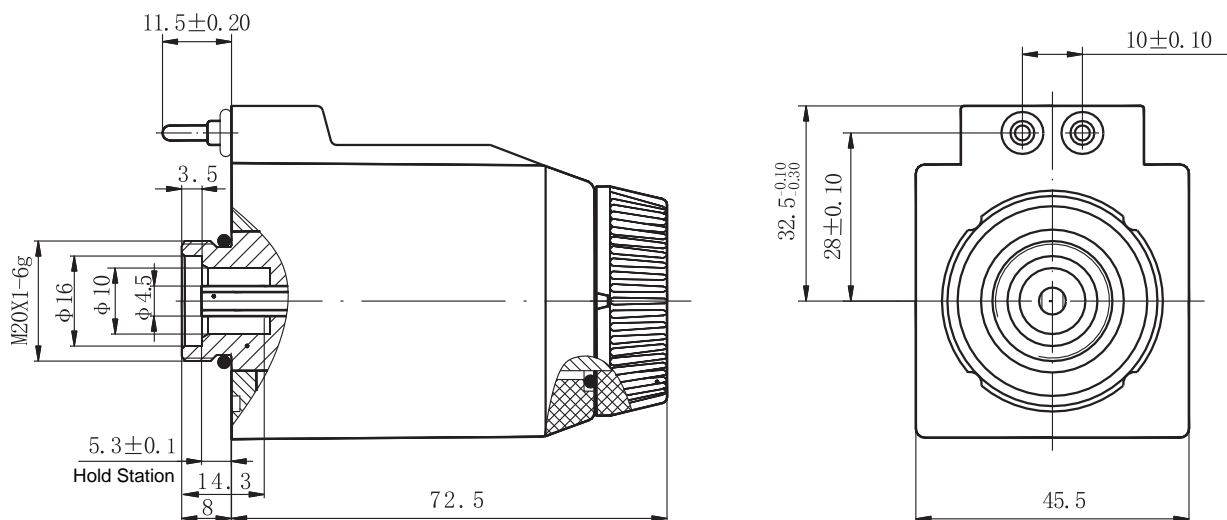
Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	8/8A	30	YC



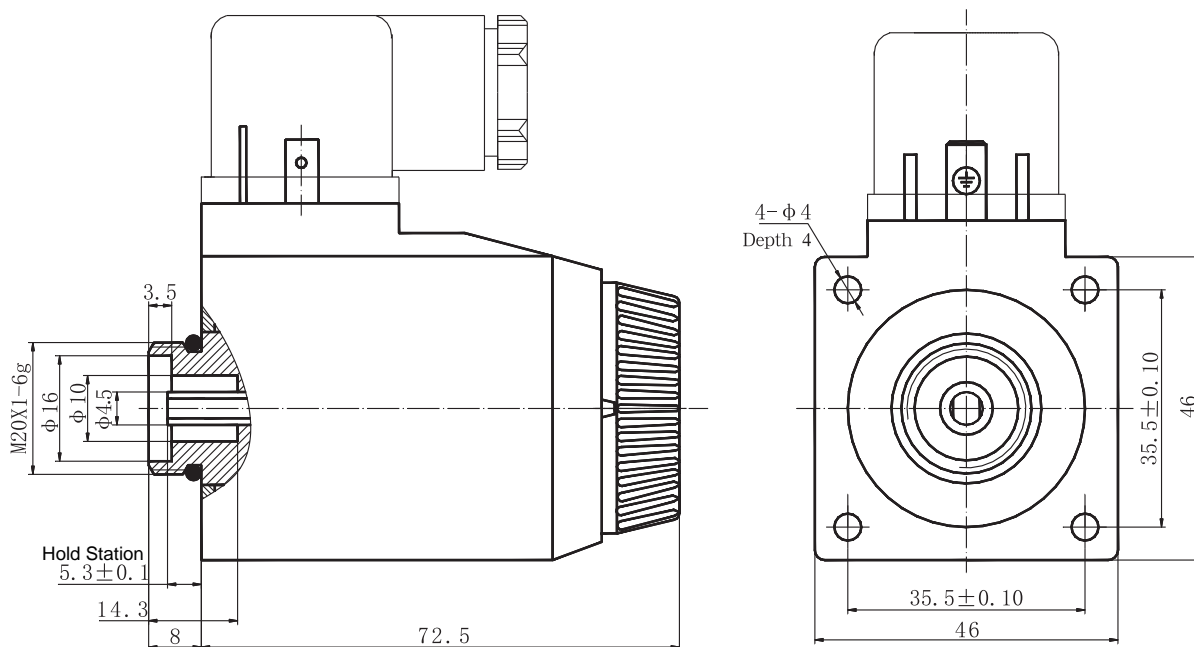
# MFZ8(A)-30YC DC WET-VALVE SOLENOID

## Externality & Installation Dimensions

Product Code: MFZ8-30YC



Product Code: MFZ8A-30YC





### Operating Notice

- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

### Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This dry type solenoid is applied to the control circuits of AC 50Hz control circuits, which voltage can reach 220V, as component of the hydraulic solenoid directional valve. It can be used in NG6 screw connected solenoid directional valve of VICKERS.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

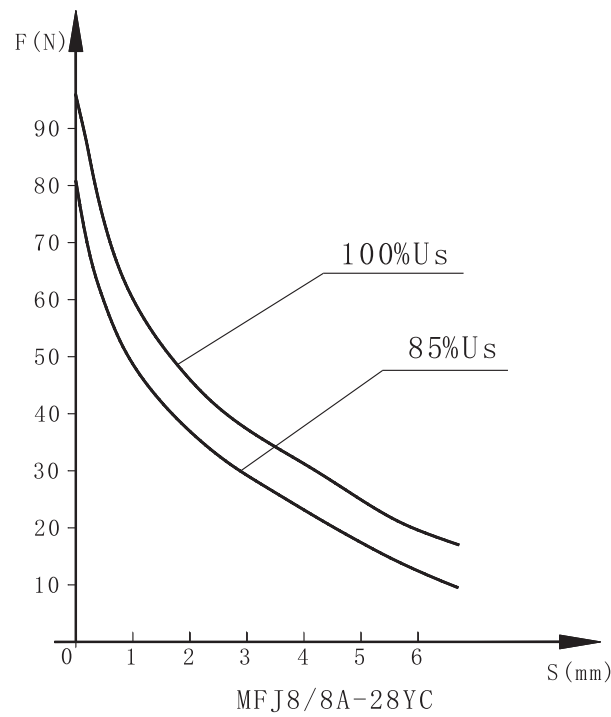
Code		MFJ8-28YC	MFJ8A-28YC
Rated Voltage	(V)	110 220	110 220
Power Frequency	(Hz)	50	50
Rated Force	(N)	≥28	≥28
Rated Stroke	(mm)	3	3
Total Stroke	(mm)	≥6.6	≥6.6
Static Oil Pressure	(MPa)	21	21
Start VA	(VA)	≤155	≤155
Holding VA	(VA)	≤60	≤60

## Purchase Code

Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	8/8A	28	YC

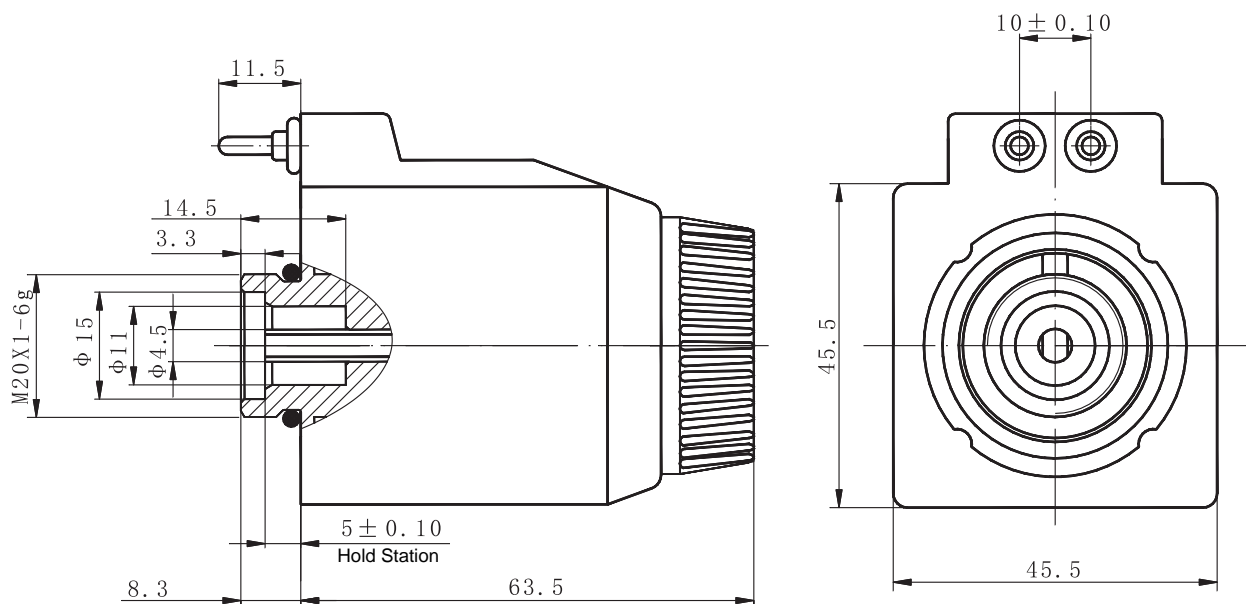


## Stroke-Force Curve



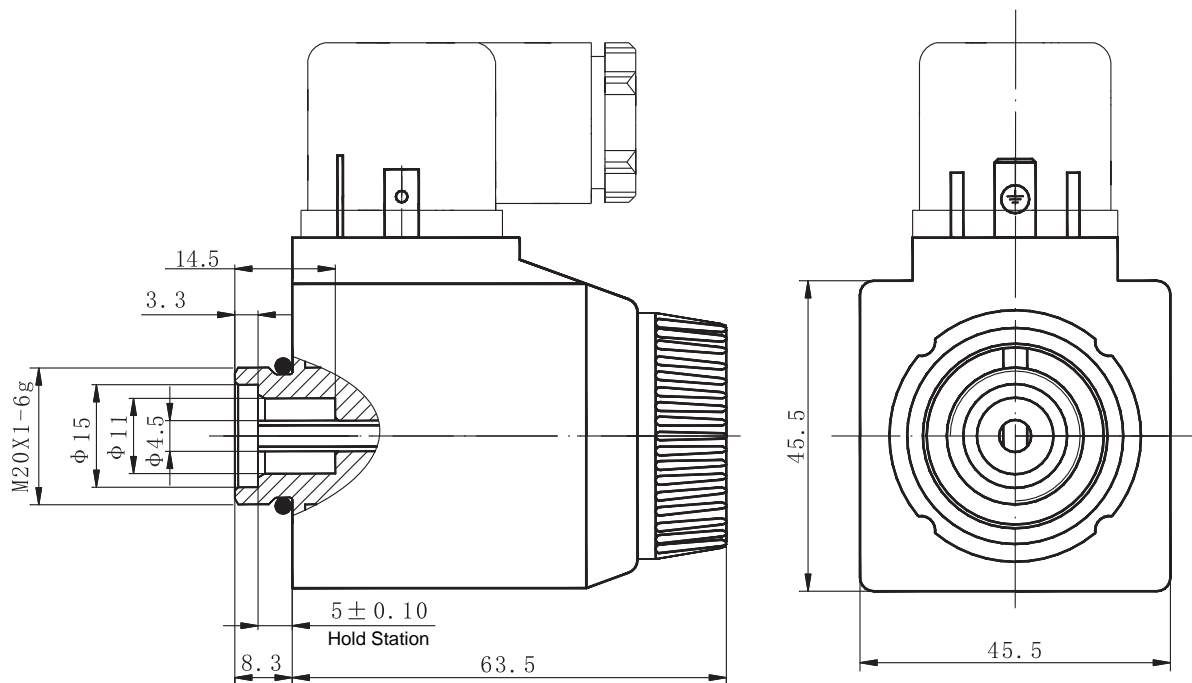
## Externality & Installation Dimensions

Product Code: MFJ8-28YC





Product Code: MFJ8A-28YC



## Operating Notice

- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When the system ask for low noise, or the cleanliness of the oil can not make sure, or the wave range of the supply power is beyond common requirements, please use the AC internal rectifying solenoid.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.





### Purpose

This solenoid that single-phase full wave is designed by the local combined institution DC supply control circuits, which voltage can be applied to reach 220V, as a component of the hydraulic solenoid directional valve.



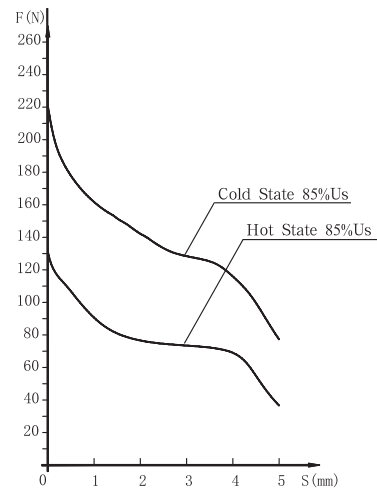
### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

Code	MFZ2-60YC	
Rated Voltage	(V)	24 110
Rated Force	(N)	≥60
Rated Stroke	(mm)	4
Total Stroke	(mm)	≥8.5
Consumed Power	(W)	≤40
Static Oil Pressure	(MPa)	16
Operating Frequency	(T/h)	7200

### Stroke-Force Curve



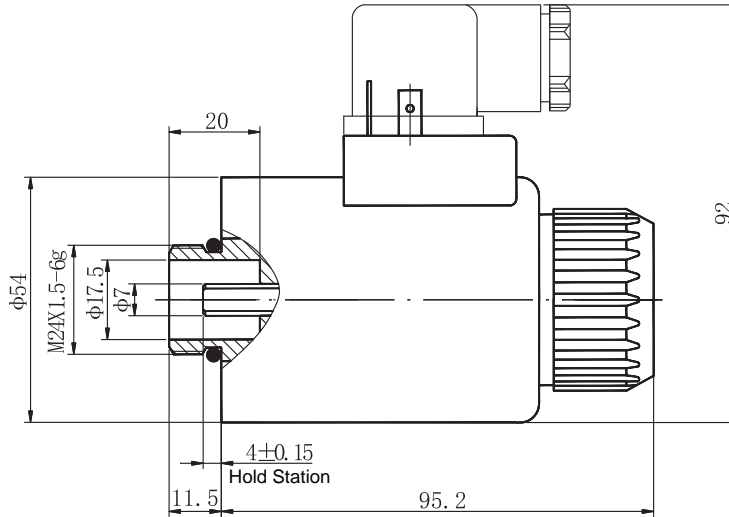
### Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	2	60	YC



## Externality & Installation Dimensions

Product Code: MFZ2-60YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.
- When the supply power is AC, you can choose MFB2-60YC; the capability is the same with MFZ2-60YC.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## MFZ10-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

### Purpose

This solenoid that single-phase full wave is designed by the local combined institution DC supply control circuits, which voltage can is applied to reach 220V, as a component of the hydraulic solenoid directional valve.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

Code		MFZ10-21YC	MFZ10-56YC
Rated Voltage	(V)	12 24	12 24
Rated Force	(N)	≥21	≥56
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	≥6	≥8
Consumed Power	(W)	≤30	≤38
Static Oil Pressure	(MPa)	16	16
Operating Frequency	(T/h)	12000	12000

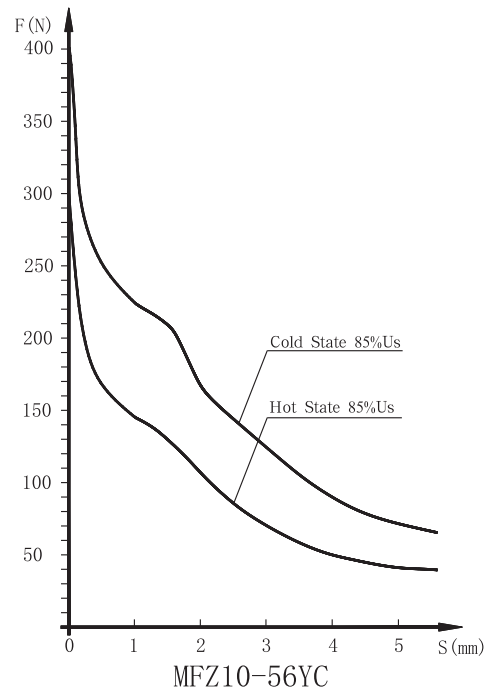
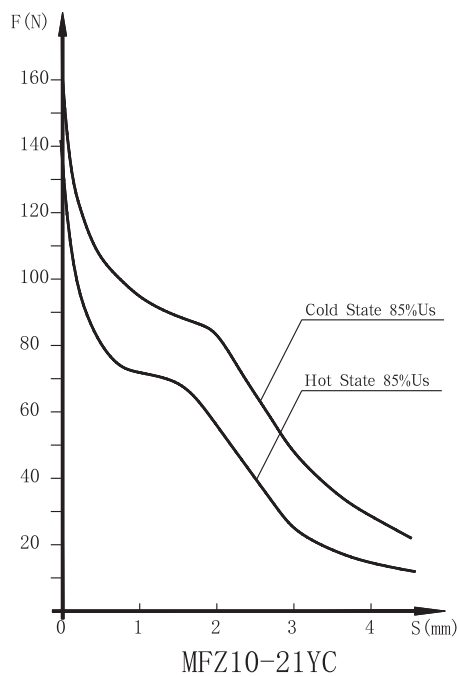
### Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	10	21/56	YC



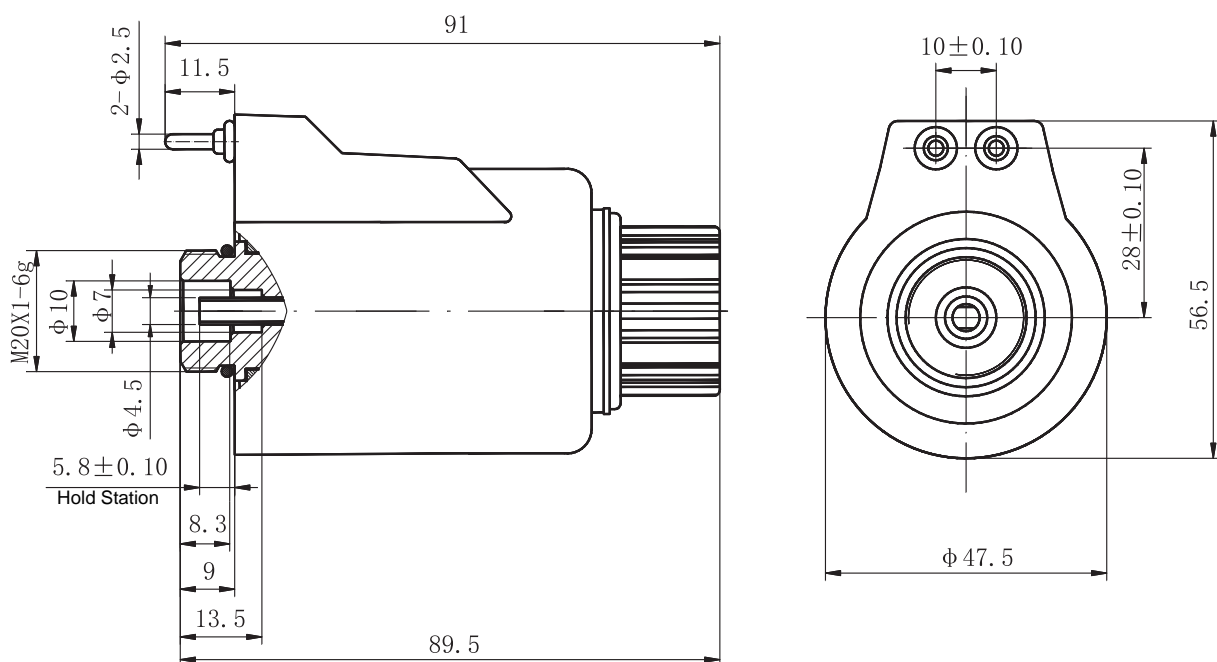
# MFZ10-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

## Stroke-Force Curve



## Externality & Installation Dimensions

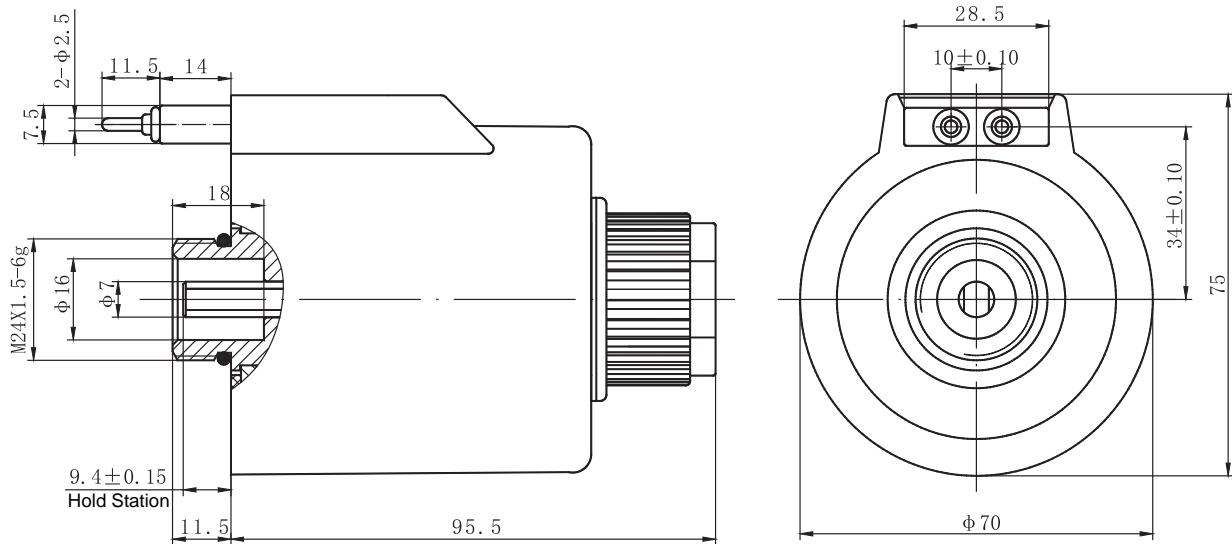
Product Code: MFZ10-21YC





## MFZ10-YC SERIES DC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

Product Code: MFZ10-56YC



### Operating Notice

- Mode connection of solenoids is junction box. The voltage of junction box must meet with the solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

### Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



## Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply control circuits; which voltage can reach 220V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

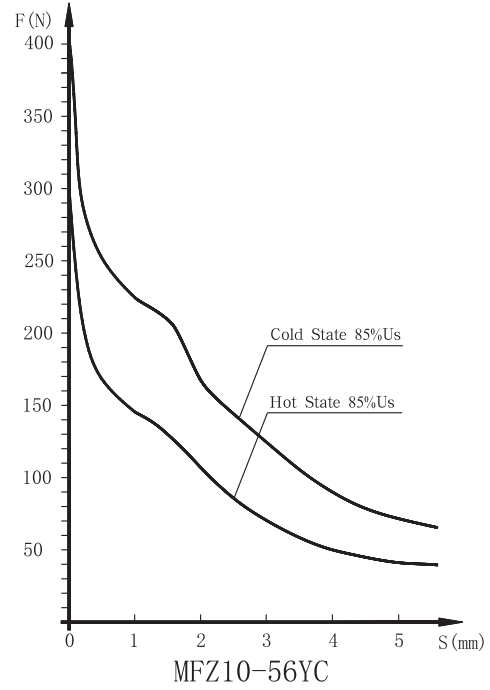
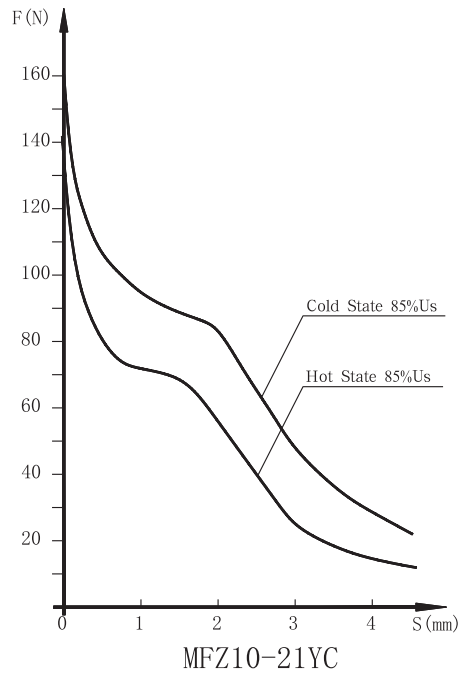
Code		MFZ10A-21YC	MFZ10A-56YC
Rated Voltage	(V)	12 24	12 24
Rated Force	(N)	≥21	≥56
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	≥6	≥8
Consumed Power	(W)	≤30	≤38
Static Oil Pressure	(MPa)	16	16
Operating Frequency	(T/h)	12000	12000

## Purchase Code

Valve-Using Solenoids	DC	Design Code	Rated Force (N)	Wet
MF	Z	10A	21/56	YC

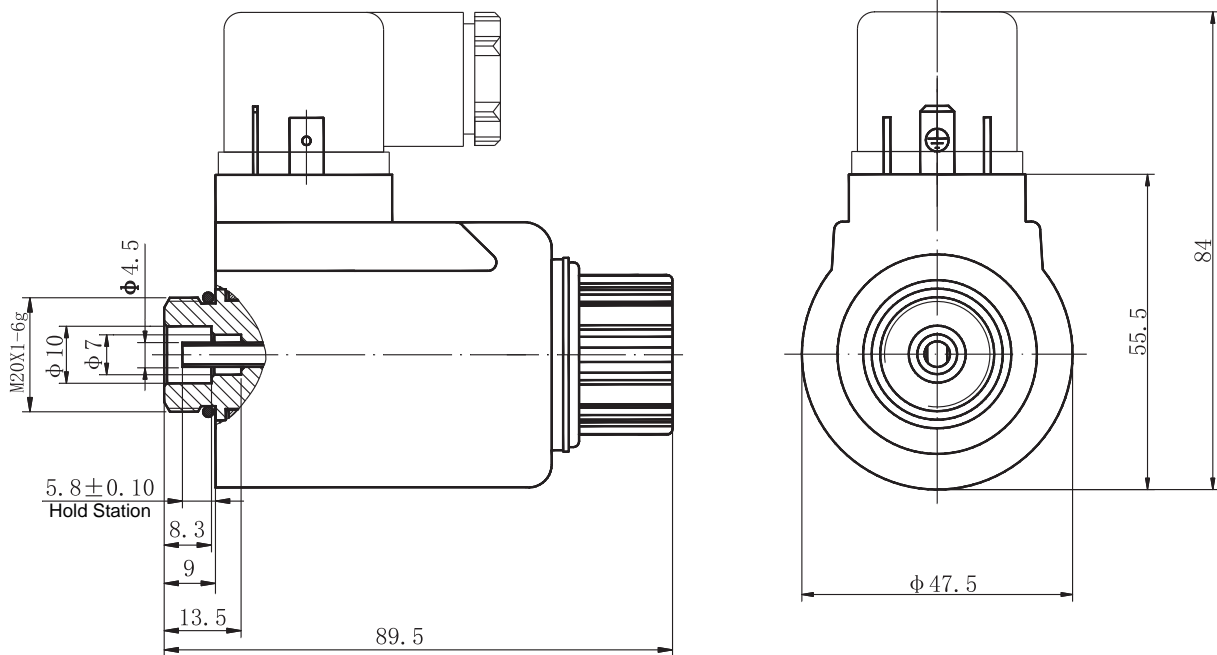


## Stroke-Force Curve



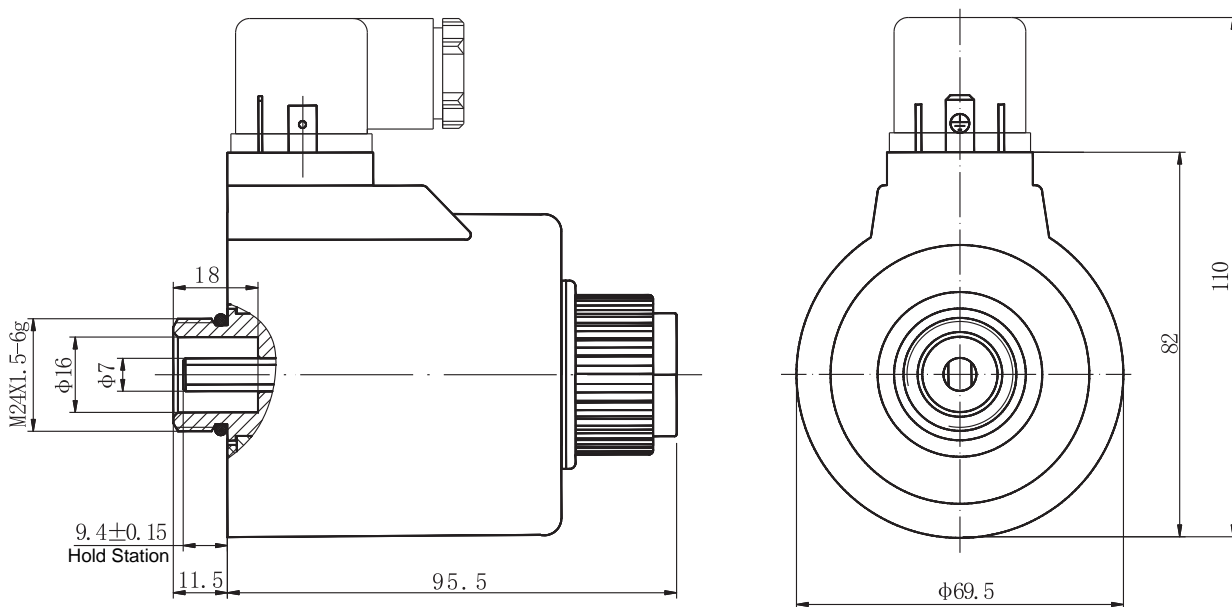
## Externality & Installation Dimensions

Product Code: MFZ10A-21YC





Product Code: MFZ10A-56YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.





## MFJ10-YC SERIES AC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

### Purpose

This series solenoid is applied to the control circuits of AC 50Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve.



### Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

### Key Parameters

Code		MFJ10-28YC	MFJ10-52YC
Rated Voltage	(V)	110 220	110 220
Power Frequency	(Hz)	50	50
Rated Force	(N)	≥28	≥52
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	≥6	≥8
Static Oil Pressure	(MPa)	16	16
Start VA	(VA)	≤188	≤336
Holding VA	(VA)	≤60	≤84
Operating Frequency	(T/h)	12000	12000

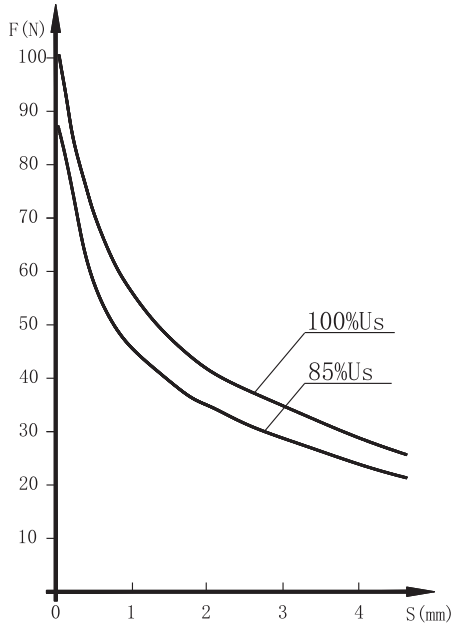
### Purchase Code

Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	10	28/52	YC

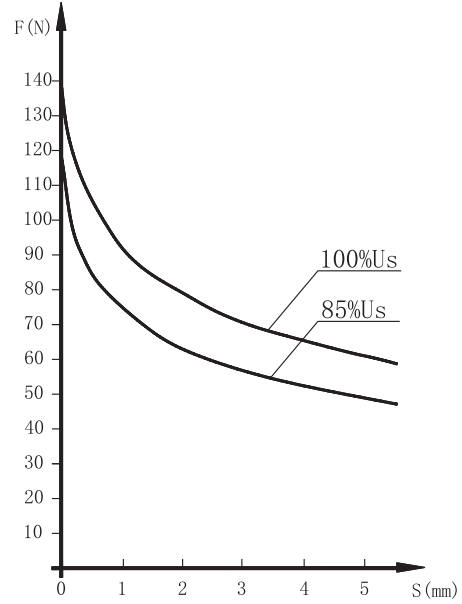


# MFJ10-YC SERIES AC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

## Stroke-Force Curve



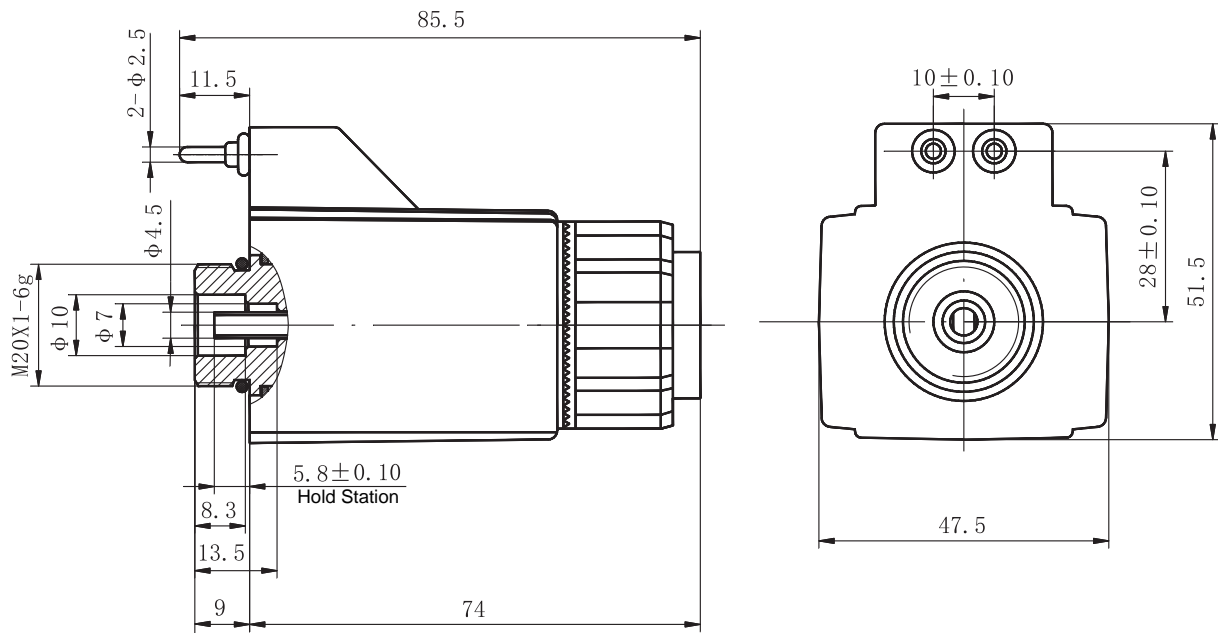
MFJ10-28YC



MFJ10-52YC

## Externality & Installation Dimensions

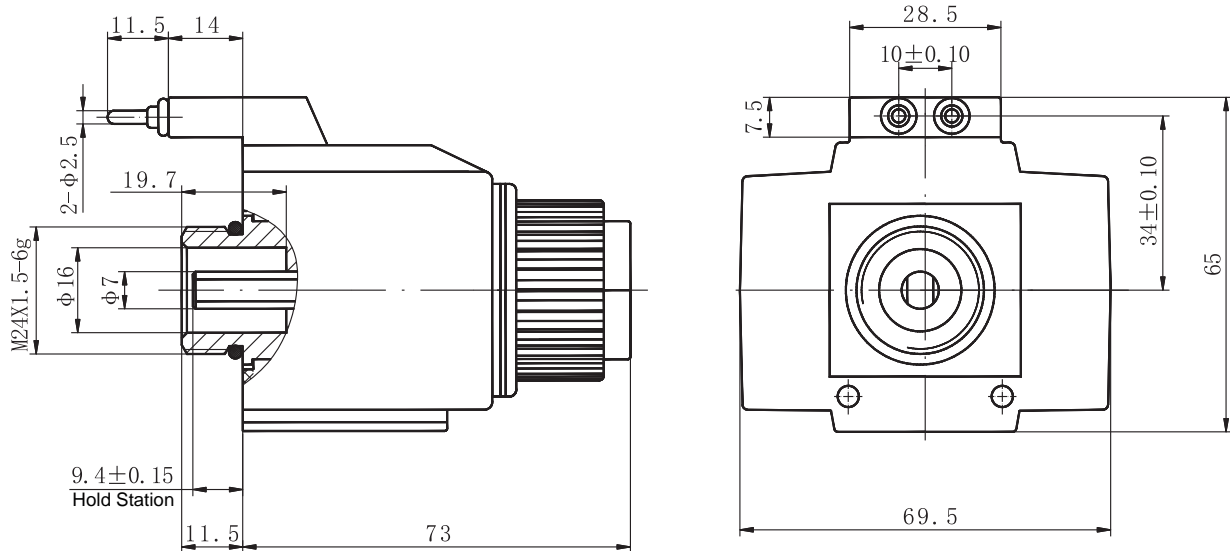
Product Code: MFJ10-28YC





## MFJ10-YC SERIES AC(JUNCTION BOX TYPE) WET-VALVE SOLENOID

Product Code: MFJ10-52YC



### Operating Notice

- Mode connection of solenoids is junction box. The voltage of junction box must meet with the solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

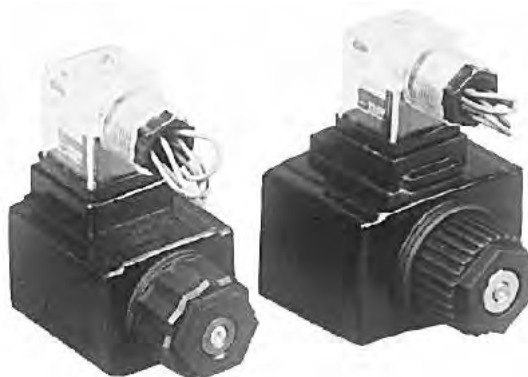
### Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.



## Purpose

This series solenoid is applied to the control circuits of AC 50Hz, which voltage can reach 380V, as a power component of the hydraulic solenoid directional valve. It can be used in NG6, NG10 screw connected solenoid directional valve.



## Usual Service Conditions

- It can be installed randomly.
- There is no gas or dust which can corrupt metal or destroy nonconductor. Or, it will affect the products lifetime.
- The solenoids fit for the continuous duty system or intermittent periodic duty system.
- The reasonable wave range of supply voltage is between 85%—110% (any special requirements is possible) .
- The protection is IP65 class.

## Key Parameters

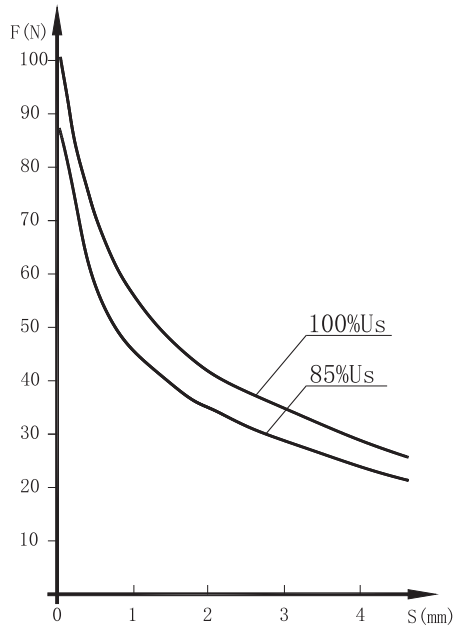
Code		MFJ10A-28YC	MFJ10A-52YC
Rated Voltage	(V)	110 220	110 220
Power Frequency	(Hz)	50	50
Rated Force	(N)	≥28	≥52
Rated Stroke	(mm)	3	4
Total Stroke	(mm)	≥6	≥8
Static Oil Pressure	(MPa)	16	16
Start VA	(VA)	≤188	≤336
Holding VA	(VA)	≤60	≤84
Operating Frequency	(T/h)	12000	12000

## Purchase Code

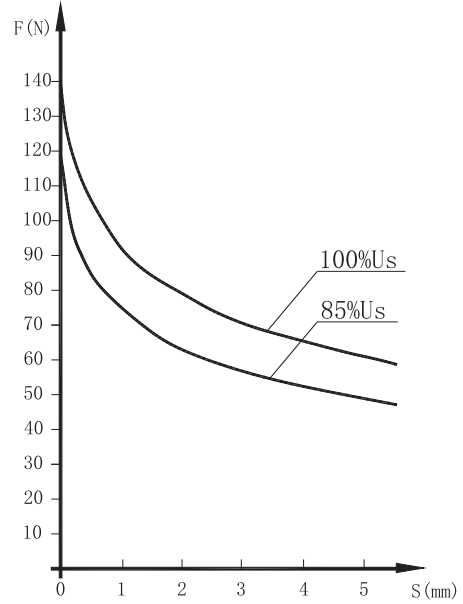
Valve-Using Solenoids	AC	Design Code	Rated Force (N)	Wet
MF	J	10A	28/52	YC



## Stroke-Force Curve



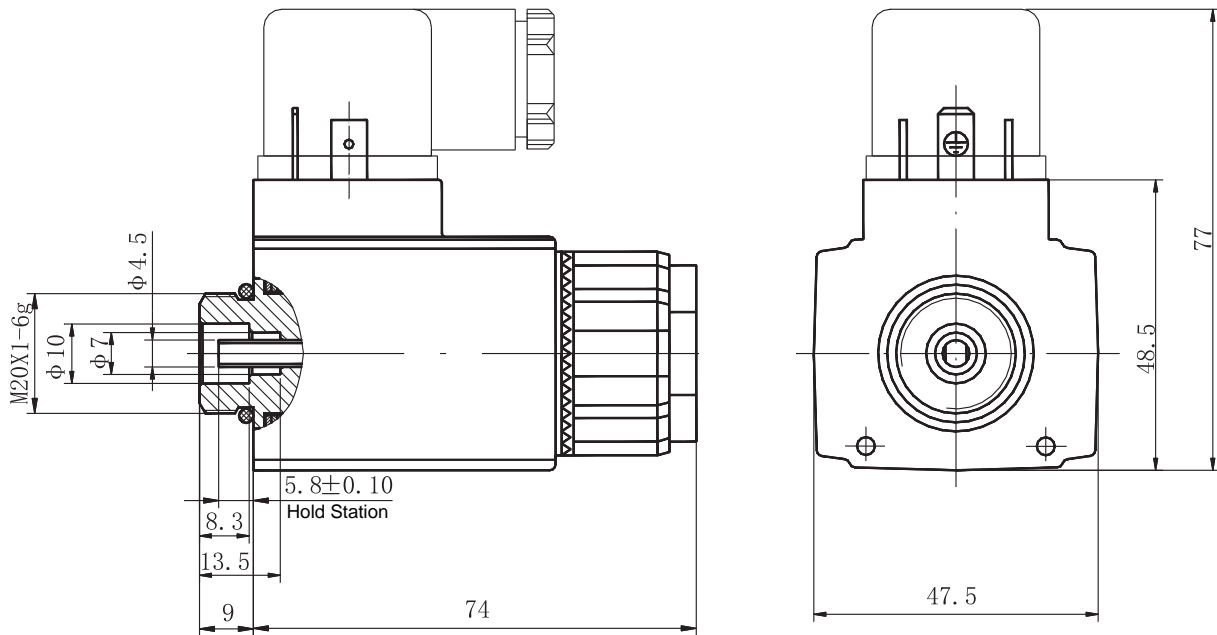
MFJ10A-28YC



MFJ10A-52YC

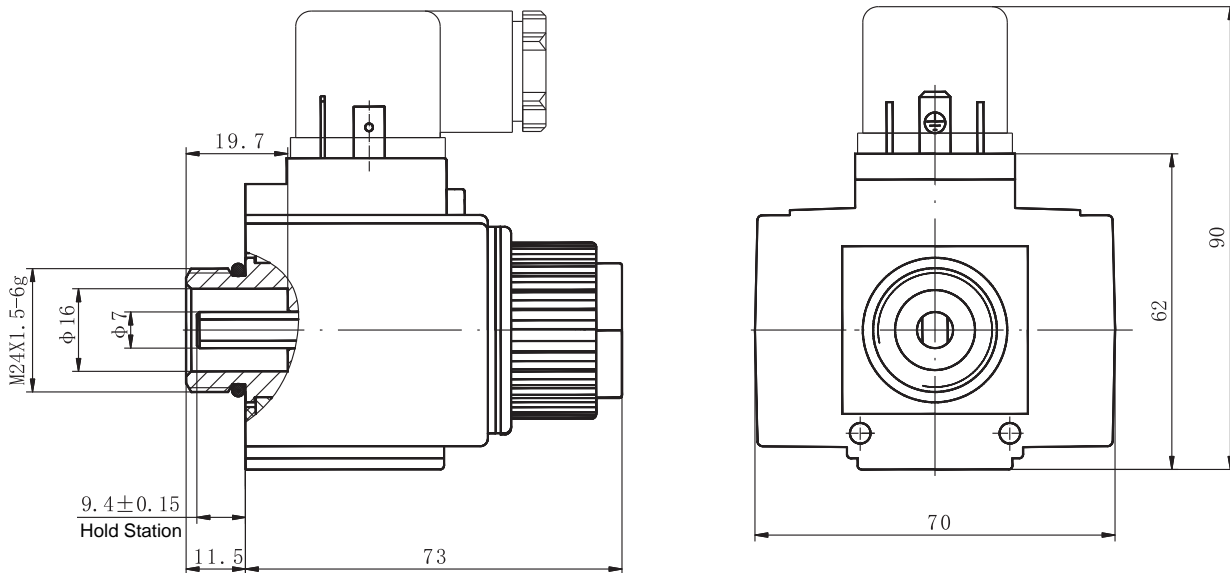
## Externality & Installation Dimensions

Product Code: MFJ10A-28YC





Product Code: MFJ10A-52YC



## Operating Notice

- The socket, which solenoids used, is according to ISO4400 standard. Including two specifications: indicator light & without light. You can choose according to your requirements. The voltage of the socket, with indicator light, must conform to the voltage of solenoid itself.
- The pushpin of the solenoid is used in adjustment or sometimes in emergency, but when the backpressure of the system is higher, please use screwdriver to push it, not strike it. The wallop can destroy the pushpin and the surface of the leading hole, or the solenoid will leak oil or cannot reposition.
- When solenoid is used in double directions, remember the solenoids cannot be energized at the same time in order to prevent the solenoids from burning.
- There is a protector of over-current between electrical control system and solenoid, in order to prevent the solenoid and the electrical component from burning in improper conditions.

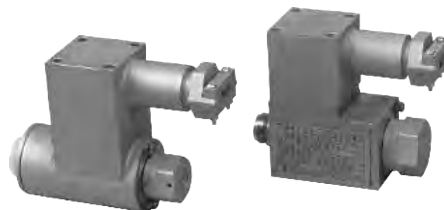
## Explanation Of Sample

- If client have special requirements, we can adjust the connect dimension, the extended length of push pin, and the supply voltage between solenoids and valve body.
- Characteristic curve for reference only.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAIDI.



### Purpose

This series of electromagnet is flameproof hydraulic wet-valve solenoid, and can be applied to mine flameproof Exd I Mb, chemical environment with flameproof Exd II CT4 explosive gas environment. As electromagnetic directional valve power element, they can form a complete set of Yu Lishi music type, oil research type six / 10 direction valve. Solenoid type wiring using the introduction, connect with the valve by the threaded, installation, easy to install and repair. Power and energy is lower than similar products with reliable performance.

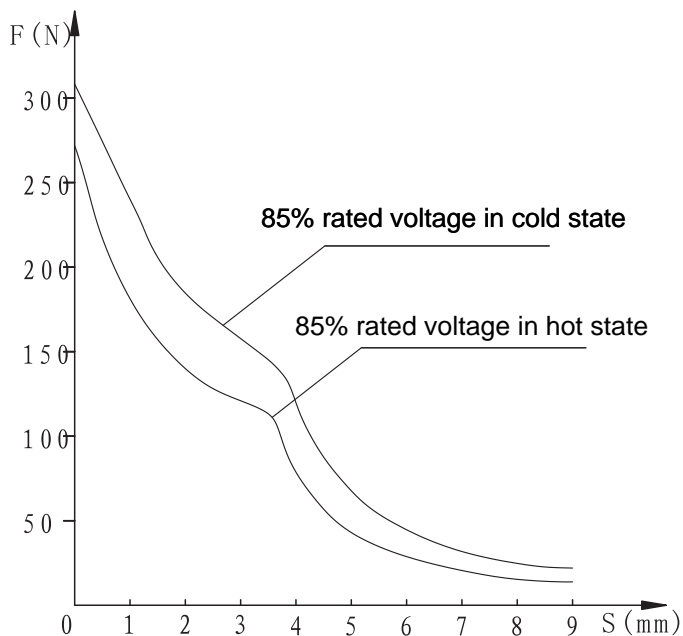


### Key Parameters

Code	DTBZ-37FYC	DTBZ-90FYC	DTBZ12-37FYC	DTBZ12-90FYC	DTBZ10-37YFC	DTBZ10-90FYC
Environment	Exd I Mb	Exd I Mb	Exd I Mb Exd II CT4	Exd I Mb Exd II CT4	Exd I Mb Exd II CT4	Exd I Mb Exd II CT4
Dimensions(mm)	110*120*45	125*137*63	135*100*45	160*120*64	110*45*100	120*63*120
Voltage Specifications (V)	DC24	DC24	DC12,DC24, DC110,AC36, AC127,AC220	DC12,DC24, DC110,AC36, AC127,AC220	DC12,DC24, DC36,AC36, AC127,AC220	DC12,DC24, DC36,AC36, AC127,AC220
Rated Suction(N)	37	90	37	90	37	90
Rated Travel(mm)	2.8	4	2.8	4	2.8	4
Rated Power(W)	18	36	16.5	18	22	22

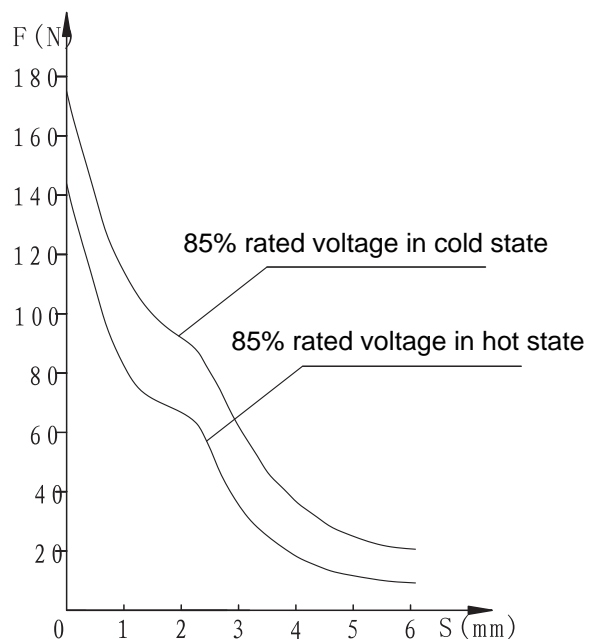


Stroke-Force Curve



DTBZ9-90FYC Exd I

Electromagnetic Force Curve (F-S Curve)

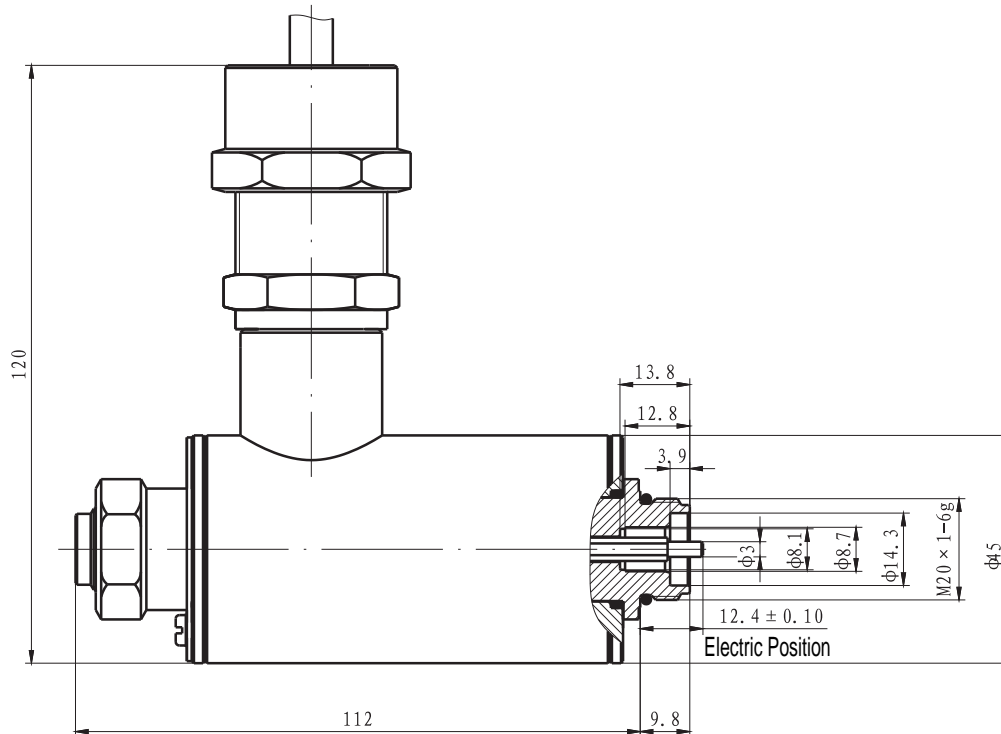


DTBZ9-37FYC Exd I

Electromagnetic Force Curve (F-S Curve)

Externality & Installation Dimensions

Product Code: DTBZ-37FYC

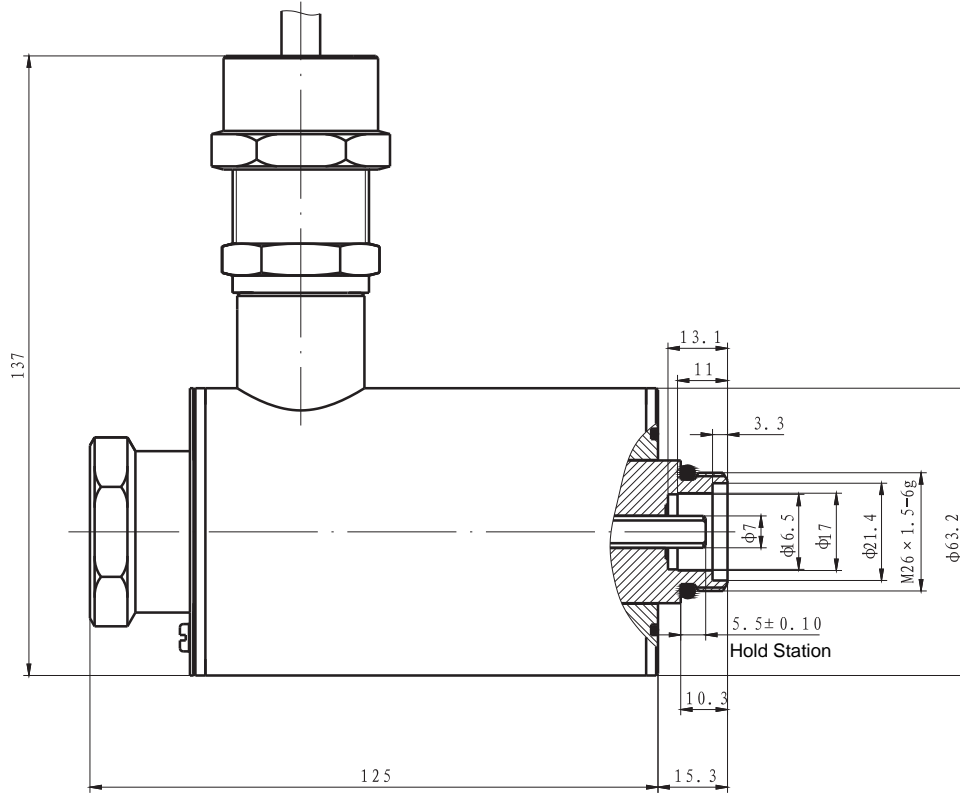




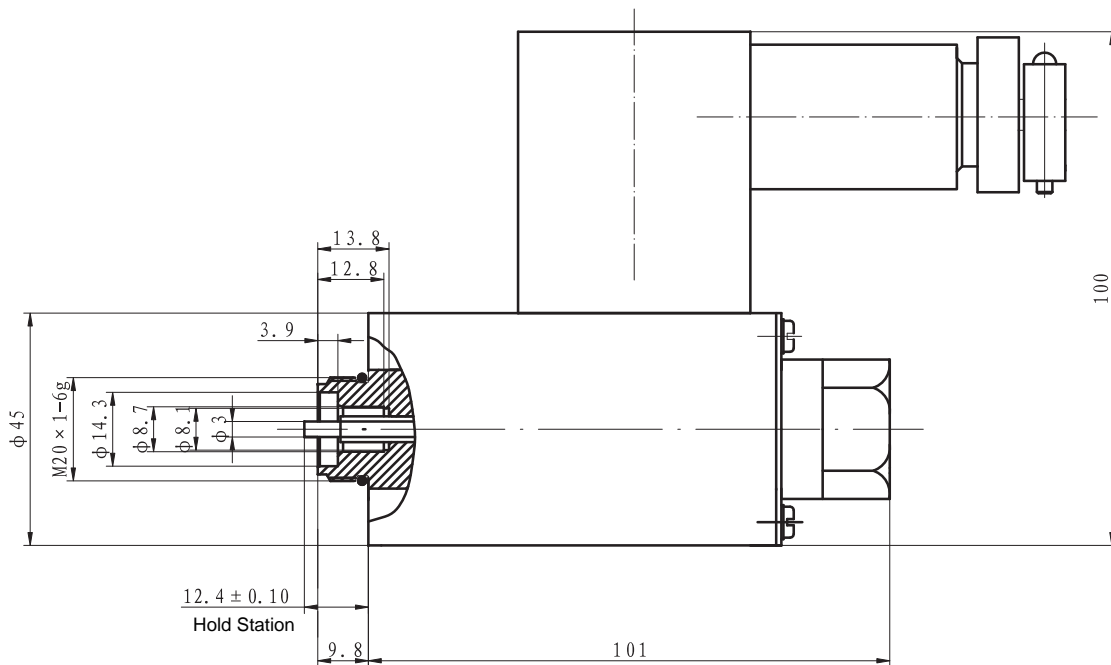


DTBZ-FYC MINE-USED FLAMEPROOF HYDRAULIC WET-VALVE SOLENOID

Product Code: DTBZ-90FYC

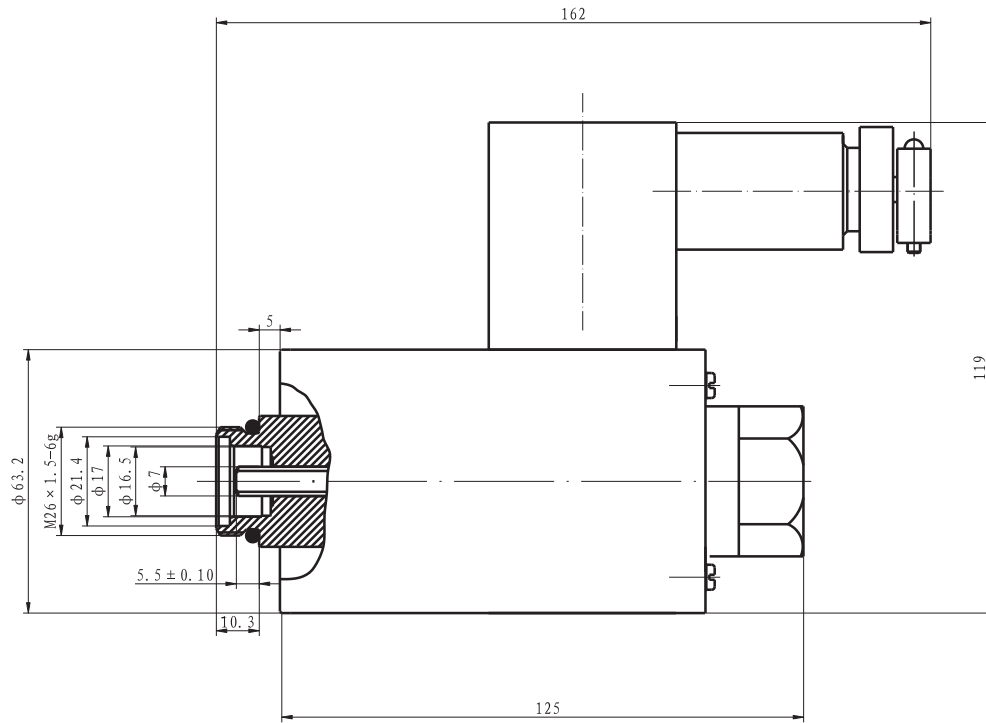


Product Code: DTBZ12-37FYC

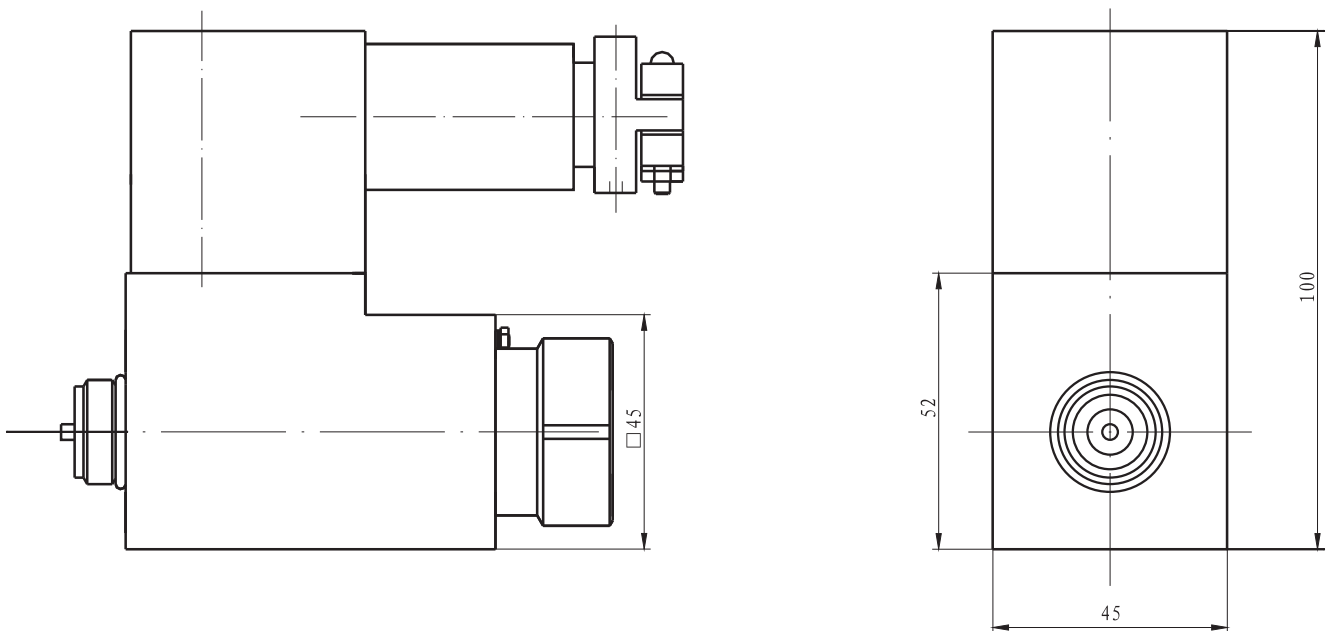




Product Code: DTBZ12-90FYC

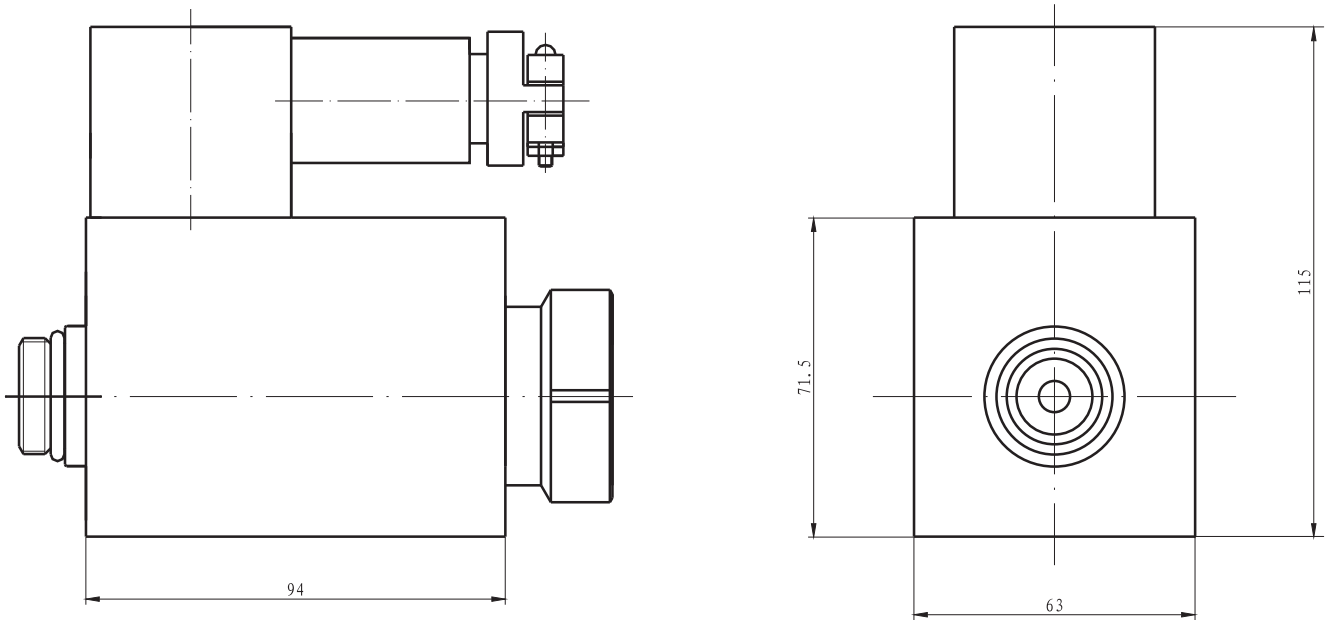


Product Code: DTBZ10-37FYC





Product Code: DTBZ10-90FYC



#### Purpose

- Asking professional personage to install. It is strictly prohibited to charged disassembly. Pay attention to protect flame-proof face when using!
- Do not disassemble replacement parts inside the product, what may cause the product does not meet explosion-proof requirements. If dismantle, causing all the consequences please conceited.



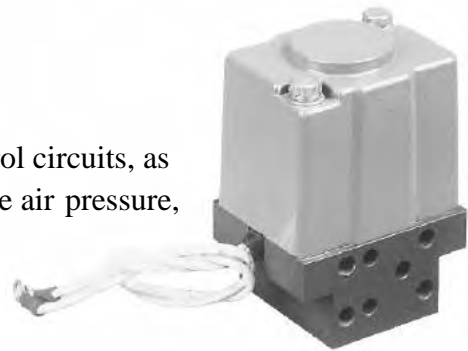
### The LDK Solenoid Air Valve

#### Purpose

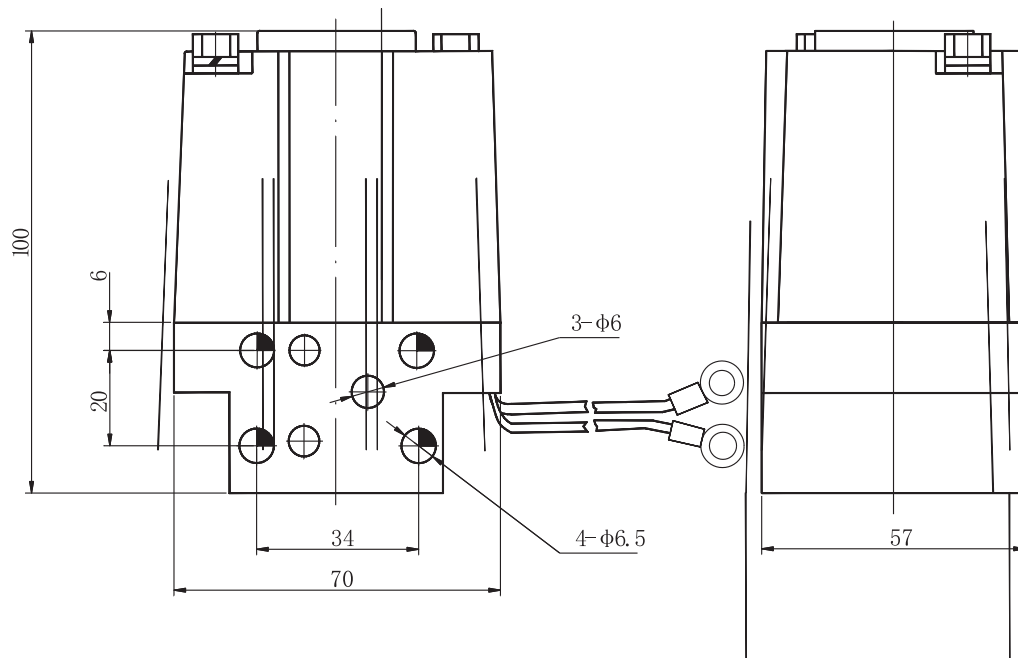
The LDK solenoid air valve is applied to DC 110V control circuits, as a pilot operated component of the high speed train to keep the air pressure, release, and brake.

#### Usual Service Conditions

- Altitude limit is 2000m.
- Surroundings temperature: upper limit is +40°C, the lower limit is -40°C, mean annual temperature limit is +35°C.
- The LDK solenoid air valve fit for the continuous duty system or intermittent periodic duty system.
- The supply voltage is no less than 75%  $U_s$ , and within 115%  $U_s$ .
- The protection is IP65 class.



#### Externality & Installation Dimensions



#### Explanation Of Sample

- If the application is beyond the catalogue, please contact with us.
- The main performance parameter is obtained in the conditions of lab. Finally explanation and changing of the parameters by KAI DI.



## MFZ4- Y Auto-Valve Solenoid

### Purpose

This series solenoid is applied to single-phase bridge full wave rectifying DC power supply, which voltage can reach 12V, 24V, 26V, as a power component of solenoid direction valve of car control system.

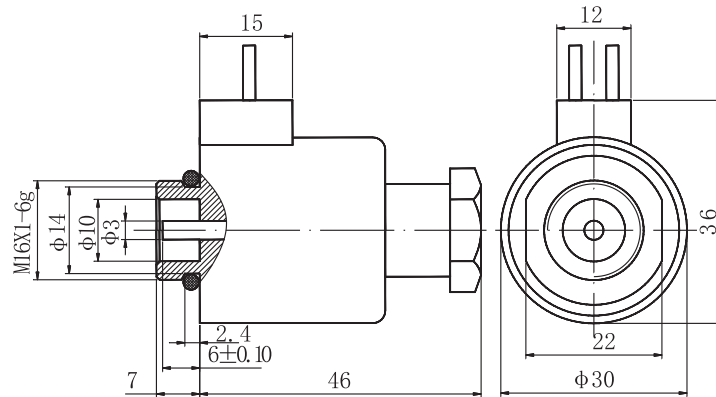


### Key Parameters

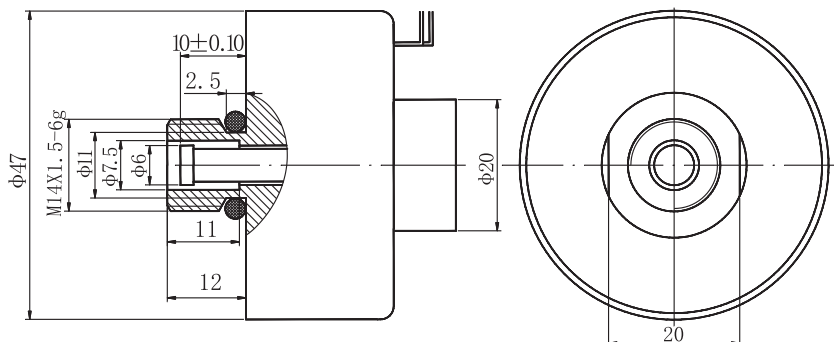
Code		MFZ4-10Y	MFZ4-40Y
Rated Voltage	(V)	12 24	26
Operating Frequency	(T/h)	7200	3600
Rated Force	(N)	≥10	≥40
Rated Stroke	(mm)	1.5	1.5
Consumed Power	(W)	≤14	≤35

### Externality & Installation Dimensions

Product Code: MFZ4-10Y



Product Code: MFZ4-40Y





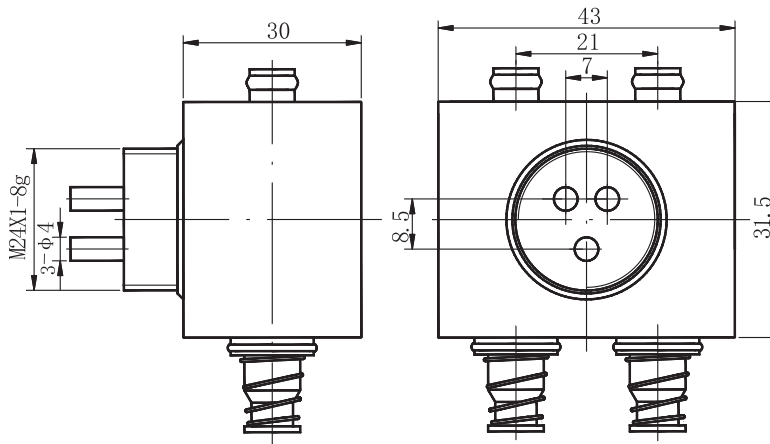
## OTHER SOLENOID

### CP3550 Solenoid

#### Purpose

This product is fit for DC 24V circuits, used in ABS of car, as a power component of solenoid control system. Its operated frequency can reach 160Hz and make the ABS more realizable.

#### Externality & Installation Dimensions

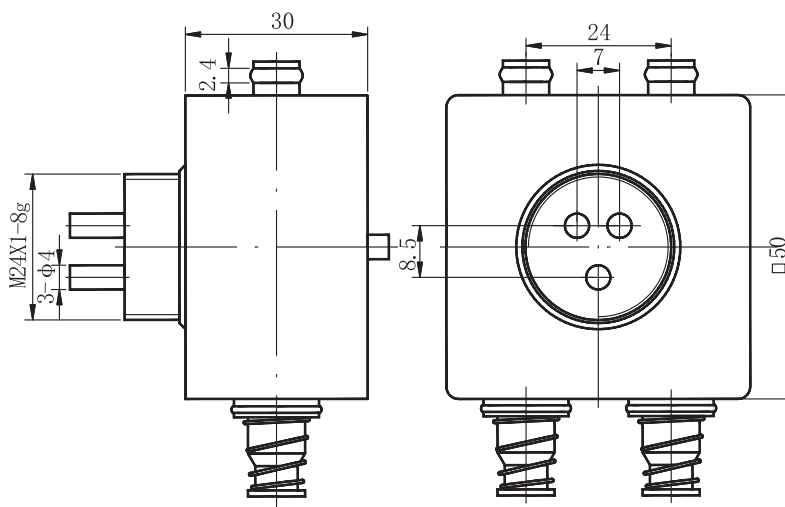


### LABS Double Directional Solenoid

#### Purpose

The LABS double directional solenoid is applied to DC 110V control circuits as a pilot component of ABS high speed train.

#### Externality & Installation Dimensions





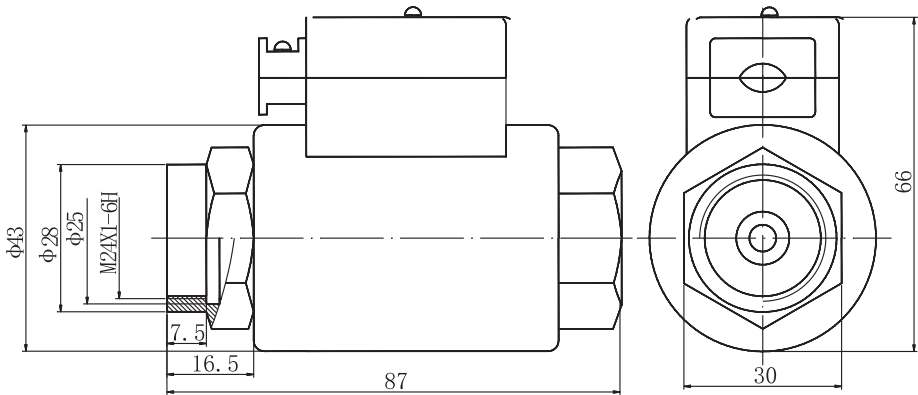
## OTHER SOLENOID

### MFZ1-8A Solenoid Used In The Shipping

#### Purpose

This product is applied to DC 24V control circuits. It is used in pneumatic control system of shipping, as a power component of air solenoid valve.

#### Externality & Installation Dimensions

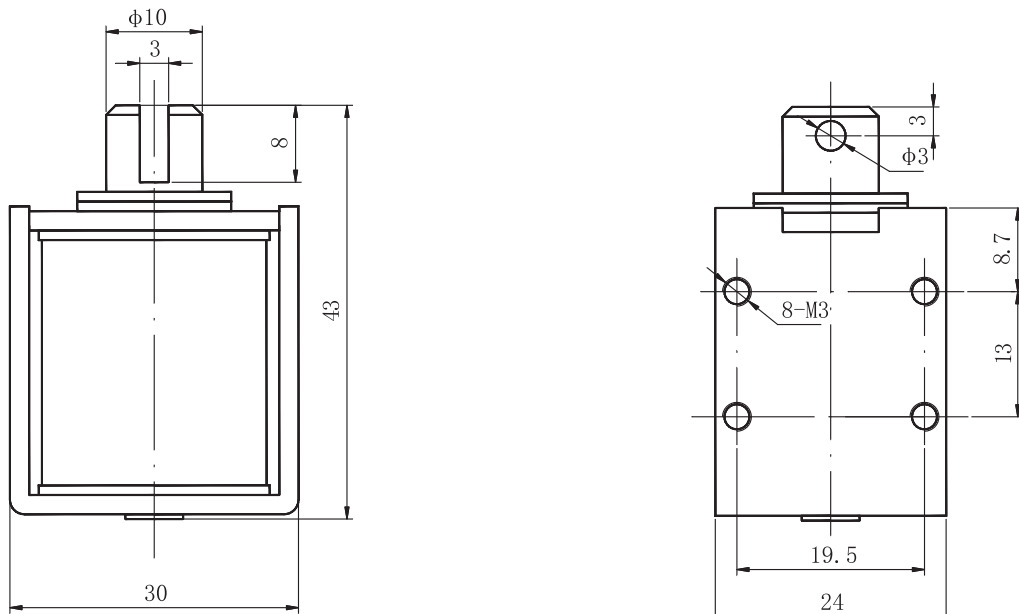


### MFZ1-10T DC Pulling Solenoid

#### Purpose

This product is applied to DC 12V control circuits, as a power component of post automatic inspection system or other automatic system.

#### Externality & Installation Dimensions





## OTHER SOLENOID

### DF2025 DC Pulling Solenoid

#### Purpose

This series solenoid is applied to single-phase full wave rectifying DC power supply; which voltage can reach 220V, as a power component of machine and automatic system to realize the telecontrol and mechanical brake, etc.

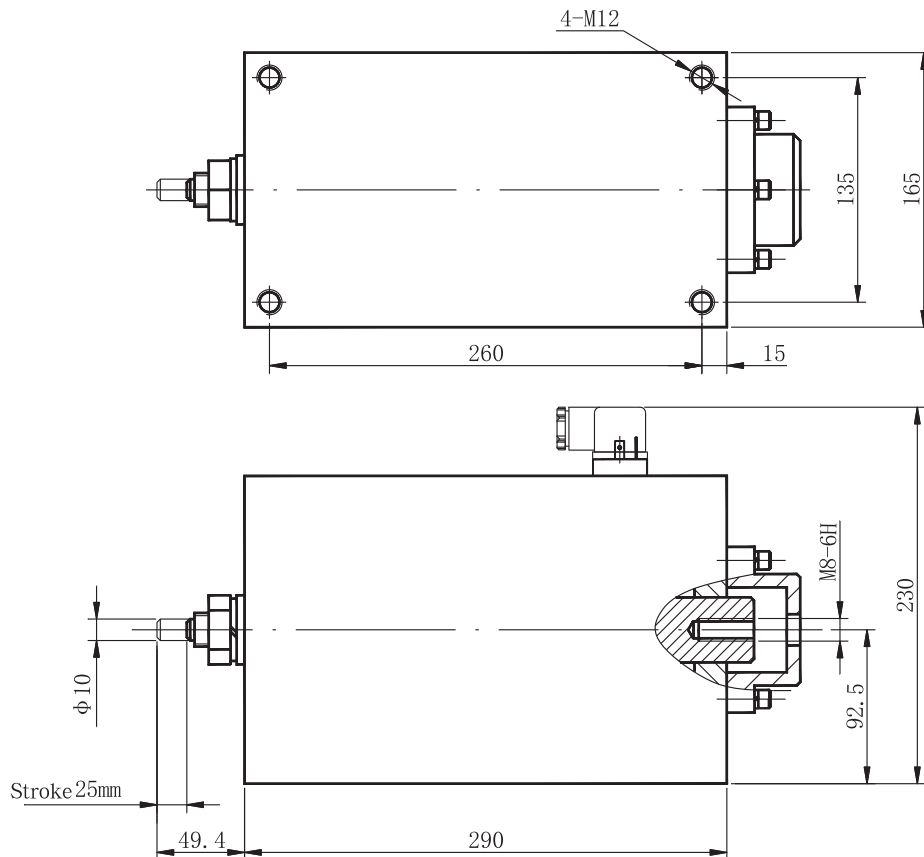
Screw junction style.



#### Key Parameters

Rated Voltage (V)	Rated Stroke (mm)	Rated Force (N)	Operating Frequency (T/h)	Consumed Power (W)
DC 110 220	25	200	180	280

#### Externality & Installation Dimensions







### MFZ16-YC Cartridge Inserted Valve Solenoid

The solenoid of MFZ16-YC is screw connected, which voltage is DC 24V, outside screw can connect with valve body; inside screw can connect with cartridge inserted valve. It is used in the integrated hydraulic system; make the installation, service & replacing more efficient.

It has three modes: normal open and normal close and double direction.

It is used for NG6-NG16 cartridge inserted valve.



### MQZJ Series Solenoid Used In The Alkali Liquid.

#### Purpose

The solenoid of MQZJ includes MQZJ-12 and MQZJ-30, which voltage is DC 27V, its stroke is 12mm, 13mm. The reposition force of the push pin is 15N; the stroke force is 12N, 30N. Key characteristics: small compactness, light weights, enduring hot alkali, support pressure is 0-3Mpa. It can dip in 100°C 30% concentration liquor of NaOH to work for about 40 minutes.

