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Products shall be subject to any changes without additional notices.



Everybody is responsible for environmental protection, sustainable development!

DIGITAL Pump Controller

Focus On The
Pump Pressure Controller &
Water Pump



WENLING OUYI ELECTRIC CO.,LTD. 温岭欧亿电器有限公司

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ISO9001:2015 CC
www.laspa.com

Walk into Ouyi

Wenling Ouyi Electric Co., Ltd. is a comprehensive scientific and technological enterprise integrating research, development and sales. The company is located in Wenling, the hometown of economically developed pumps--Wenling. The transportation is very convenient, and the transportation network is all over the world.

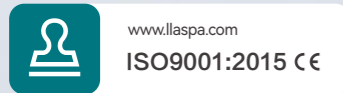
The company specializes in the production of electronic switches, mechanical switches, submersible pumps, land pumps, sewage pumps and a series of products, exported to more than 30 countries and regions. With a professional production and technical personnel, management personnel, marketing service personnel comprehensive talent team, the company in line with the truth-seeking, rigorous, honest business philosophy, constantly increase investment in scientific and technological innovation, the design of novel, stable quality, reasonable price of products to promote to countries around the world. The company sincerely makes friends at home and abroad, develops together, and creates brilliance together!

OUYI CULTURE

- **Corporate Vision**
Elevate value through quality, becoming the customer's top supplier.
- **Corporate Philosophy**
Expertise forges quality and quality builds the brand.
- **Corporate Mission**
Empower Chinese manufacturing with precision engineering.
- **Core Values**
Customer satisfaction embodies our eternal pursuit.

INTRODUCTION

WENLING OUYI ELECTRIC CO.,LTD. Produce the automatic pump control and mechanical pressure switch, float switch, air compressor switch.
We own the brand 雅士霸LLASPA®, We have 9 series electric switch and ten series pressure switch, we also have the export license and VAT certificate, And all series pump control have the CE certificate, and IEC report, Our company address:Injection Zone, Daxi Town, Wenling, Zhejiang China.



Focus On The Pump Pressure Controller
Water Pump Control

DC/AC AUTOMATIC
PUMP CONTROL

(220V/380V)WATER
LEVEL CONTROLLER

PRESSURE SWITCH

FLOAT SWITCH



Focus

On The Pump Pressure Controller Water Pump



-  Stable Performance
-  Safe and reliable
-  Efficient and energy-saving

Scope of application

- High-rise pressurization
- Household water
- Water supply to the villa

Agriculture

- Garden water
- Farmland irrigation
- Water supply for greenhouses

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Pursuing excellence, manufacturing with ingenuity,

Product catalogs

01. PRESSURE CONTROL/ DIGITAL SWITCH SERIES	
LS-16 Digital sensor	01
LS-15 Digital sensor	03
LS-20 Digital sensor	05
LS-1 Pressure control	07
LS-14 Digital Switch	09
LS-3/3B/4/5 Pressure control	10
LS-2 Pressure control	11
LS-30 Pressure control	11
LS-6/6A/6B/6B Plus Pressure control	12
LS-8 Pressure control	13
LS-8A Pressure control	14
02. MECHANICAL PRESSURE SWITCH SERIES	
MC-1 For WATER PUMP	15
MC-2 Pressure control	15
MC-3/3A/3B/3C	16
MC-8 For WATER PUMP	16
MC-9/PSG-1 Pressure control	17
MC-9A For Dirty Water Pump	17
MC-5A For Air compressor	17
MC-7 For Air compressor	18
MC-11 For Air compressor and water pump	18
MC-12/13 Pressure control	18
MC-14 Pressure control	19
MC-15 Pressure control	19
MC-16 Pressure control	19
MLSP Single Pressure Control Specification	20
MLSP Dual Pressure Controller Specification	20
LS-12/17/18 Submersible pump control	21
LS-19 Submersible pump control	21
03. FLOAT SWITCH SERIES	
FLO Float Switch	23
04. OIL PRESSURE GAUGE SERIES	
Oil Pressure Gauge	27
Pressure Gauge(The radial)	27
Pressure Gauge(axial)	28
05. PRESSURE TANKS AND ACCESSORIES	
Pressure tank	29
Circuit board	31
Power cable and plug	32

LS-16 DIGITAL SENSOR

With flow dry protection

Overview of features

Digital pressure control new dual pressure sensor automatic pump controller for 220V submersible pump, this device can protect the motor not burn. this device can set the stop pressure by customer ,so can set the safe pressure for protect the water pipe not broken, if the pipe water pressure reach setting data, it will be stop the water pump.



LS-16 DIGITAL SENSOR

With pressure dry protection

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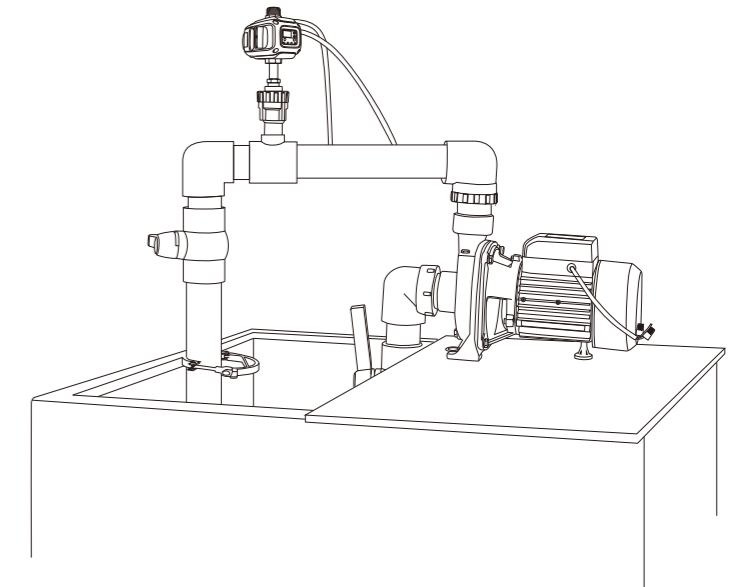
ADVANTAGES

Can use for 220V Submersible Pump Available

LS-16 digital with 1" thread. inside have built-in spring check valve. To prevent internal leakage, it can be installed by horizontal or vertical.

Ceramic pressure sensor

The all-in-one design has the functions of water shortage protection and voltage protection

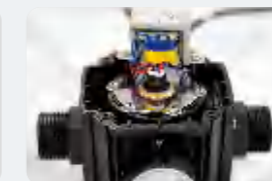


Available in styles

1.1KW 2.2KW

Fit for 2" 3" 4" inch pump

Digital Detail Drawing



Automotive grade capacitive ceramic sensor

LS-16

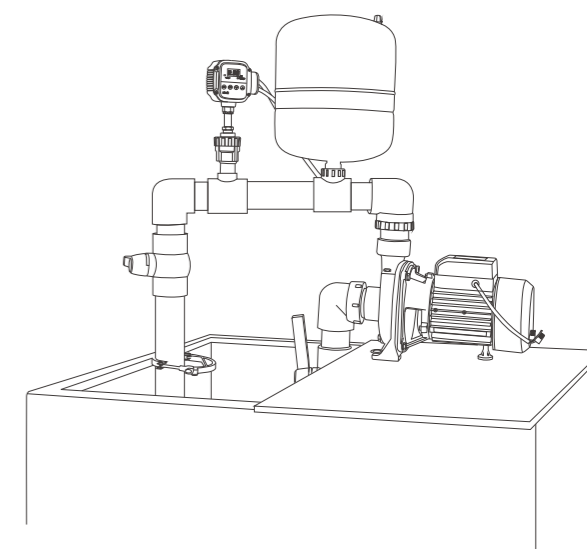
电压	Voltage	110V/220V-240V	接口	Jointscrew	G1
频率	Frequency	50/60Hz	保护等级	Protection Grade	IP65
额定电流	Rated Current	10A	温度	Temperature	100°C
最大功率	Max Power	1.1kW/2.2kW	数量	PCS/CTN	12pcs
最大停止压力	Max Shutdown Pressure	9.8bar	净重	N.W.	10.32kg
流量	Flow	35L/H-500L/H	毛重	G.W.	12.19kg
启动压力	Start Pressure	0.5-6bar(adjustable)	包装尺寸	Packing Size	1.1KW: 42.5×37×35.2cm 2.2KW: 42.5×37×35.2cm
停机压力	Shutdown Pressure	1.3-9.8bar(adjustable)			



Divided into
Digital and Mechanical

LS-15 DIGITAL SENSOR

With pressure dry protection



Fit for 2" 3" 4" inch pump



Available Specifications

1/2male, 1/4male, 3/8male
1/4female (fix nut/movable nut)
3/8female (fix nut/movable nut)



Ceramic pressure sensor



Type A: made in europe
Smaller hole,
easy to waterproof hammer

Type B: made in china
Hole is large



Type C


DETAILED SPECIFICATIONS 规格详解


螺纹规格 Thread specifications	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
俗称 Commonly called	1分	2分	3分	4分	6分	1寸	1.2寸	1.5寸	2寸
其它称呼 Other titles	DN6	DN8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
外螺纹大小 External thread size	9.5mm	12.5mm	16.2mm	20.3mm	25.7mm	32.5mm	41.3mm	47.8mm	59.6mm
内螺纹大小 Internal thread size	8.8mm	11.5mm	15.3mm	19.5mm	24mm	30.5mm	39.5mm	46.3mm	56.6mm
误差 Error	0.2mm	0.3mm	0.3mm	0.3mm	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm


Fit for as above different inlet and outlet pump

LS-15

额定电压	Rated Voltage	98-240V	温度	Temperature	60°C
频率	Frequency	50/60Hz	启动压力	Start Pressure	0.6-8bar
最大电流	Max Current	25A	包装尺寸	Packing Size	60×32.5×36.9cm
最大功率	Max Power	2.2kW	数量	PCS/CTN	30pcs
保护等级	Protection/Grade	IP65	净重	N.W.	19.05kg
接口	Jointscrew	G1/4" G1/2" G3/8"	毛重	G.W.	22.4kg

 Stable Performance

 Safe and reliable

 Efficient and energy-saving

DIGITAL SENSOR

With pressure dry protection

LS-20 DIGITAL SENSOR

With flow dry protection

Overview of features

Digital pressure control new dual pressure sensor automatic pump controller for 220V submersible pump, this device can protect the motor not burn. this device can set the stop pressure by customer, so can set the safe pressure for protect the water pipe not broken, if the pipe water pressure reach setting data, it will be stop the water pump.



LS-20 DIGITAL SENSOR

With pressure dry protection

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ADVANTAGES

Can use for 220V Submersible Pump Available

LS-20 digital with 1" thread. inside have built-in spring check valve. To prevent internal leakage, it can be installed by horizontal or vertical.

Ceramic pressure sensor

The all-in-one design has the functions of water shortage protection and voltage protection



New exterior design



LS-20

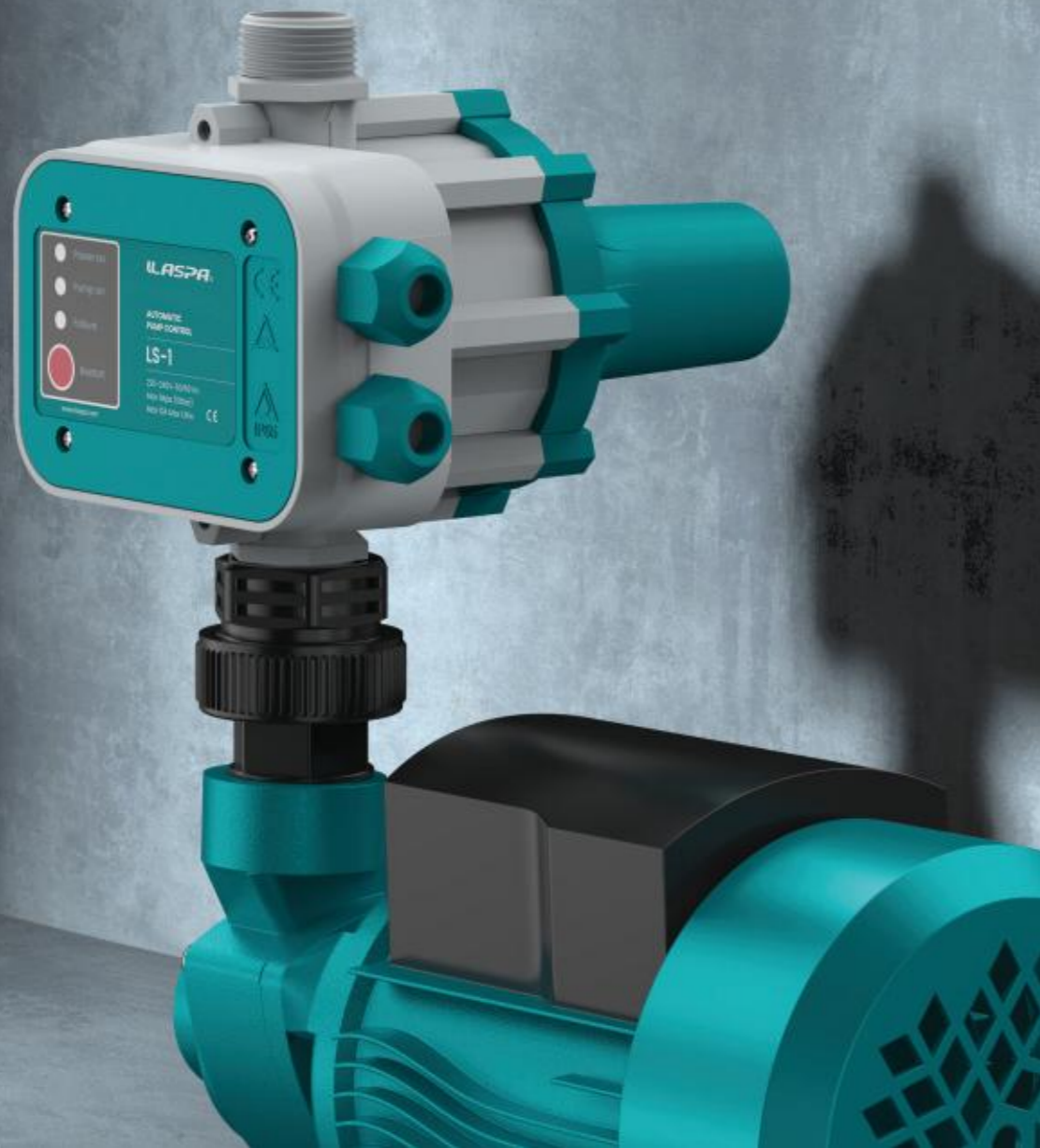
电压	Voltage	110V/220V-240V	接口	Jointscrew	G1
频率	Frequency	50/60Hz	保护等级	Protection Grade	IP65
额定电流	Rated Current	10A	温度	Temperature	100°C
最大功率	Max Power	1.1kW/2.2kW	数量	PCS/CTN	12pcs
最大停止压力	Max Shutdown Pressure	9.8bar	净重	N.W.	/
流量	Flow	35L/H-500L/H	毛重	G.W.	/
启动压力	Start Pressure	0.5-6bar(adjustable)	包装尺寸	Packing Size	/
停机压力	Shutdown Pressure	1.3-9.8bar(adjustable)			



Divided into
Digital and Mechanical

PRESSURE CONTROL

Smart: automatic control of the operation of the pump, when the water shortage automatically stop the pump.
 Safety: The outlet and inlet use the engineering grade environmental friendly materials, they are safe and durable.
 Plug and play: simple to operate, easy to use.
 Low noise: parts standardized, cost-effective, more stable.



LS-1 PRESSURE CONTROL



▲ LS-1 (DN25)



▲ LS-1 (DN25 socket)



▲ LS-1 (DN32 1-1/4)



▲ LS-1 (DN32 with gauge 1-1/4)

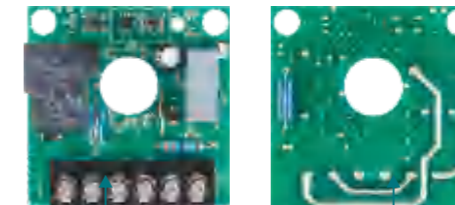


LS-1					
电压	Voltage	AC 220/110V DC 12/24/36/48V	保护等级	Protection/Grade	IP65
频率	Frequency	50/60Hz	温度	Temperature	90°C
最大电流	Max Current	10/16/25A	包装尺寸	Packing Size	DN25: 52×47×38cm
最大功率	Max Power	1.1KW/1.5KW/2.2KW	数量	PCS/CTN	DN25: 12pcs
启动压力	Start Pressure	0.8/1.2/1.5/2.2bar	净重	N.W.	DN25: 14.64kg
最大工作压力	Max Working/Pressure	10bar	毛重	G.W.	DN25: 18.84kg
接口	Jointscrew	G1/G1-1/4			

1.5KW PRESSURE CONTROL



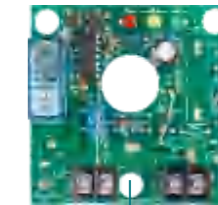
2.2KW 3HP 40(25)A PRESSURE CONTROL



LS-1 2.2KW Auto Restart

- 1.Connector:25A
- 2.Max Rate Current:40(25A)
- 3.Max Pressure:10bar
- 4.Rate Voltage:220-240V
- 5.Max Power:3HP2.2kW
- 6.Auto Restart Function After No Water

CONTROL FOR DC PUMP



DC12V/DC36V

- Voltage DC 12V 24V 36V 48V
- Current 12V: 15A 24V: 8A
- Max Power: 200W
- Max. working pressure: 10BAR
- Starting pressure: 0.8 1.3 1.5BAR
- Water pump dust requirements: ≥25M



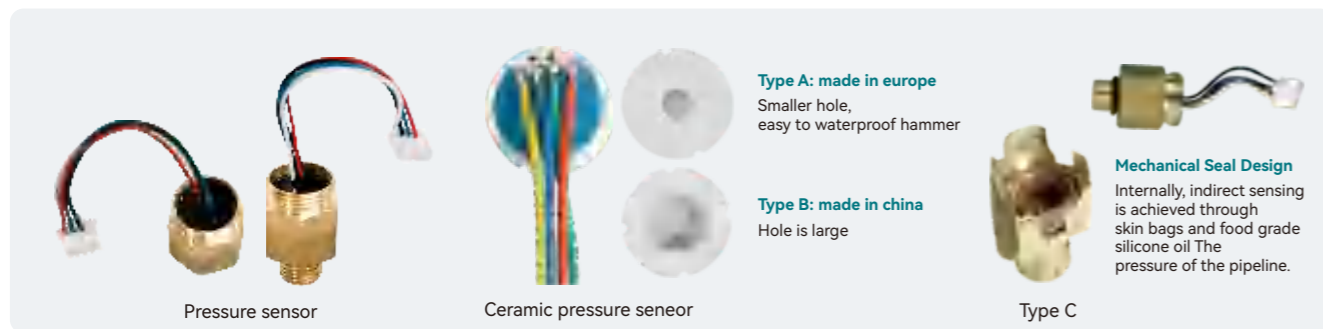
DC24V/DC48V

- Interface: G1 G1-1/4
- Protection class: IP65
- Temperature: 90°
- Packing size: 52*47*38
- Quantity: 12

LS-14 DIGITAL SWITCH

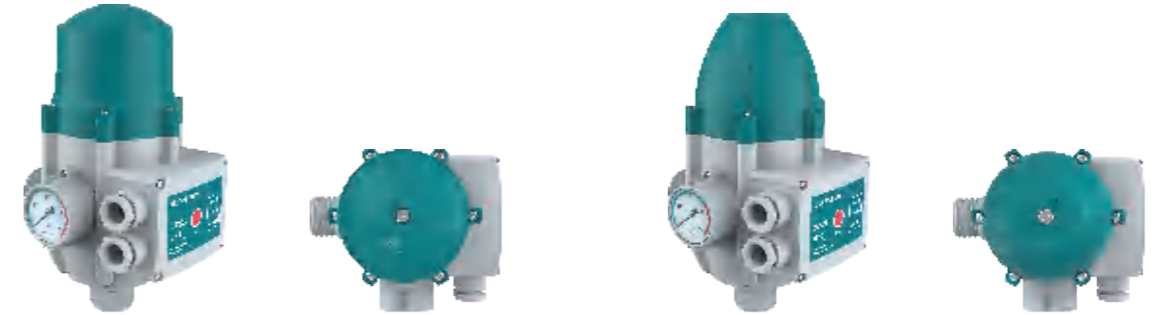
PRESSURE CONTROL

Smart: automatic control of the operation of the pump, when the water shortage automatically stop the pump.
 Safety: The outlet and inlet use the engineering grade environmental friendly materials, they are safe and durable.
 Plug and play: simple to operate, easy to use.
 Low noise: parts standardized, cost-effective, more stable.



LS-14					
电压	Voltage	220V	温度	Temperature	60°C
频率	Frequency	50/60Hz	启动压力	Start Pressure	0-10bar
最大电流	Max Current	10A	包装尺寸	Packing Size	47.5×26.5×52.5cm
最大功率	Max Power	1.1kW	数量	PCS/CTN	50pcs
接口	Jointscrew	G1/4, G3/8, G1/2	净重	N.W.	20.88kg
保护等级	Protection/Grade	IP65	毛重	G.W.	26kg

LS-3/3B/4/5



▲ LS-3 (Adjustment)

▲ LS-3B (Adjustment)



▲ LS-4 (Adjustment)

▲ LS-4 (Not adjust)
With europe socket



▲ LS-5 (Not adjust)

Optionals:

- Starting pressure is adjustable during installation, adjustment range: 1.2bar-3.0bar.
- Color: as customer require.
- Power cable length can choose according to customers' needs.

LS-3/3B/4/5					
电压	Voltage	220V/110V	温度	Temperature	90°C
频率	Frequency	50/60Hz	启动压力	Start Pressure	0.8/1.5/2.2bar
最大电流	Max Current	10A	包装尺寸	Packing Size	LS-4: 55×52.5×24.7 LS-3/5: 53×48×24.5cm
最大功率	Max Power	1.1kW	数量	PCS/CTN	12pcs
接口	Jointscrew	G1	净重	N.W.	LS-4: 15.6kg LS-3/5: 13.6kg
保护等级	Protection/Grade	IP65	毛重	G.W.	LS-4: 18kg LS-3/5: 16.4kg

LS-2



LS-2					
电压	Voltage	220/110V	保护等级	Protection/Grade	IP65
频率	Frequency	50/60Hz	温度	Temperature	90°C
最大电流	Max Current	10A	包装尺寸	Packing Size	42×32.5×21.5cm
最大功率	Max Power	1.1kW	数量	PCS/CTN	12pcs
启动压力	Start Pressure	1.0-3.5bar	净重	N.W.	6.12kg
最大工作压力	Max Working/Pressure	10bar	毛重	G.W.	8.62kg
接口	Jointscrew	G1			

LS-30



▲ LS-30

▲ LS-30 Max

LS-30					
电压	Voltage	220/110V	保护等级	Protection/Grade	IP65
频率	Frequency	50/60Hz	温度	Temperature	90°C
最大电流	Max Current	10A	包装尺寸	Packing Size	44×39×31.5cm
最大功率	Max Power	1.1kW	数量	PCS/CTN	12pcs
启动压力	Start Pressure	1.0-3.5bar	净重	N.W.	9.75kg
最大工作压力	Max Working/Pressure	10bar	毛重	G.W.	14.2kg
接口	Jointscrew	G1			

LS-6/6A/6B/6B PLUS

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▲ LS-6

▲ LS-6A



▲ LS-6B
(Pressure regulation)

▲ LS-6B Plus



LS-6/6A/6B/6B PLUS					
电压	Voltage	220/110V	保护等级	Protection/Grade	IP65
频率	Frequency	50/60Hz	温度	Temperature	90°C
最大电流	Max Current	10A	包装尺寸	Packing Size	51×43×28.3cm
最大功率	Max Power	1.1kW	数量	PCS/CTN	12pcs
启动压力	Start Pressure	0.8/1.5/2.2bar	净重	N.W.	10.68kg
最大工作压力	Max Working/Pressure	10bar	毛重	G.W.	13.36kg
接口	Jointscrew	G1			

PRESSURE CONTROL

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 Safety: The outlet and inlet use the engineering grade environmental friendly materials, they are safe and durable.
 Plug and play: simple to operate, easy to use.
 Low noise: parts standardized, cost-effective, more stable.



LS-8



Option: without GAUGE can choose

LS-8					
电压	Voltage	110V/220V	接口	Jointscrew	G1
频率	Frequency	50/60Hz	保护等级	Protection/Grade	IP65
最大电流	Max Current	10A	温度	Temperature	90°C
最大功率	Max Power	1.1kW/1.5kW	包装尺寸	Packing Size	60.3×47.5×20.3cm
可调压力	Adjustment Pressure	1.0-3.5bar	数量	PCS/CTN	12pcs
不可调压力	Not Adjustment Pressure	0.8/1.2/1.5/2.2bar	净重	N.W.	13.03kg
最大工作压力	Max Working/Pressure	10bar	毛重	G.W.	15.58kg

LS-8A



LS-8A					
电压	Voltage	110V/220V	保护等级	Protection/Grade	IP65
频率	Frequency	50/60Hz	温度	Temperature	90°C
最大电流	Max Current	10A	包装尺寸	Packing Size	60×47×23cm
最大功率	Max Power	1.1kW	数量	PCS/CTN	12pcs
启动压力	Start Pressure	1.0-3.5bar	净重	N.W.	13.5kg
最大工作压力	Max Working/Pressure	10bar	毛重	G.W.	16.1kg
接口	Jointscrew	G1			

MC-1 FOR WATER PUMP



MC-1				
电压	Voltage	110-120V 220-240V		
额定电流	Rated Current	1.5HP/20A		
频率	Frequency	50/60Hz		
压力设定	Pressure Setting	20-40PSI/30-50PSI/40-60PSI		
包装尺寸	Packing Size	51×37×21		
数量	PCS/CTN	50		
净重	N.W.	16.7		
毛重	G.W.	17.6		
	公斤BAR	1.4-2.8	2.1-3.5	2.8-4.2
	PSI	20-40	30-50	40-60

1BAR=0.1MPA=14.5PSI
PSI 单位lb/in2 磅/升

MC-2



MC-2				
电压	Voltage	110-120V 220-240V		
额定电流	Rated Current	1.5HP/20A		
频率	Frequency	50/60Hz		
最低压力	Highest Pressure	20PSI		
最高压力	Lowest Pressure	80PSI		
压力设定	Pressure Setting	20-40PSI/30-50PSI/40-60PSI		
包装尺寸	Packing Size	51×47.5×21		
数量	PCS/CTN	50		
净重	N.W.	16.7		
毛重	G.W.	17.6		

PSI 单位lb/in2 磅/升

MC-3/3A/3B/3C

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MC-3/3A/3B/3C					
电压	Voltage	110-120V 220-240V			
额定电流	Rated Current	1.5HP/20A			
频率	Frequency	50/60Hz			
最高压力	Highest Pressure	20PSI			
包装尺寸	Packing Size	53×27×19			
数量	PCS/CTN	100			
净重	N.W.	19.5			
毛重	G.W.	21			
	公斤BAR	1.0-1.8	1.5-2.2	1.8-2.6	2.2-3.0
	PSI	14.5-26	20-30	26-38	32-44

1BAR=0.1MPA=14.5PSI
PSI 单位lb/in2 磅/升

MC-8 FOR WATER PUMP



MC-8				
压力范围	Pressure Range	15-80PSI		
额定电流	Rated Current	12A		
额定电压	Rated Voltage	110-120V 220-240V 380V		
频率	Frequency	50/60Hz		
最高环境温度	Max Ambient Temperature	40°C		
最高介质温度	Max Liquid Temperature	60°C		
包装尺寸	Carton Size	62.5×33.5×39.5cm		
数量	PCS/CTN	30		
净重	N.W.	18.65kg		
毛重	G.W.	19.65kg		
	公斤BAR	1.4-2.8	2.1-3.5	2.8-4.2
	PSI	20-40	30-50	40-60

1BAR=0.1MPA=14.5PSI
PSI 单位lb/in2 磅/升

MC-9/PSG-1



▲ MC-9 ▲ PSG-1

外螺纹长度: 26 36 43毫米
Male Screw Size: 26mm 36mm 43mm



MC-9		
额定电压	Voltage	110-120V 220-240V 380V
额定电流	Rated Current	16A(10A) 20A
压力设定	Pressure Setting	20-60PSI
螺纹接口	Joint Screw	1/4"
包装尺寸	Packing Size	FEMALE: 54.5×35×22.5 43MM MALE 55×36×27
数量	PCS/CTN	50
净重	N.W.	18.7
毛重	G.W.	21.1
	公斤BAR	1.4-2.8 2.1-3.5 2.8-4.2
	PSI	20-40 30-50 40-60

1BAR=0.1MPa=14.5PSI PSI 单位lb/in² 磅/升

MC-9A FOR DIRTY WATER PUMP



MC-9A		
额定电压	Voltage	110-120V 220-240V
额定电流	Rated Current	16A(10A) 20A
压力设定	Pressure Setting	15-80PSI
压力范围	Pressure Range	15-35PSI, 20-40PSI, 30-50PSI, 40-60PSI, 50-80PSI, 95-125PSI, 120-150PSI, 135-175PSI
螺纹接口	Joint Screw	1/4"
包装尺寸	Packing Size	FEMALE: 54.5×35×22.5 43MM MALE 55×36×27
数量	PCS/CTN	50
净重	N.W.	18.7
毛重	G.W.	21.1
	公斤BAR	0.5-1.5

1BAR=0.1MPa=14.5PSI PSI 单位lb/in² 磅/升

MC-5A FOR AIR COMPRESSOR



MC-5A		
电压	Voltage	110-120V 220-240V
额定电流	Rated Current	1.5HP/20A
频率	Frequency	50/60Hz
最低压力	Highest Pressure	20PSI
最高压力	Lowest Pressure	80PSI
压力设定	Pressure Setting	20-40PSI/30-50PSI/40-60PSI
包装尺寸	Packing Size	51×43×20cm
数量	PCS/CTN	50pcs
净重	N.W.	18kg
毛重	G.W.	20kg
	公斤BAR	5-8
	PSI	70-116

1BAR=0.1MPa=14.5PSI PSI 单位lb/in² 磅/升

MC-7 FOR AIR COMPRESSOR

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Wenling Ouyi Electric Co., Ltd.

ILASPA®



220-240V FOR AIR COMPRESSOR



380V FOR AIR COMPRESSOR

公斤BAR	5-8
PSI	70-116

1BAR=0.1MPa=14.5PSI
PSI 单位lb/in² 磅/升

MC-7

额定电压	Rated Voltage	110-120V 220-240V 380V	净重	N.W.	16
包装尺寸	Packing Size	58×46×17	毛重	G.W.	18
数量	PCS/CTN	50			

Model	Type	input Voltage (V)	Max Current (A)	Joint Screw	On-OFF Pressure
MC-7	One way	3phase 380V	10A	Female 1/4"	5.5-8bar
MC-7	Four way	3phase 380V	10A	Female 1/4"	5.5-8bar
MC-7	One way	1phase 220V	10A	Female 1/4"	5.5-8bar
MC-7	Four way	1phase 220V	10A	Female 1/4"	5.5-8bar

MC-11 FOR AIR COMPRESSOR AND WATER PUMP

Pressure Switch (4-12Bar)

MC-11 pressure switches are used to regulate the tank pressure between two preset values on a 3 phase electrically driven air compressors. They are available with an unloader valve, which prevents compressors from starting under load. On-Off knob for manual cutting off the compressor.



MC-11

介质	Media	Air	电气额定值	Electrical Rating	380V, 20A, 50Hz
工作压力范围	Operating Pressure Range	4bar~12.5bar	触点排列	Contact Arrangement	Normal Close(NC)
压差	Differential Pressure	2bar-3bar	港口	Port	One port or Four ports available
出厂设置	Factory Setting	5bar~8bar/5.5bar~8bar/9bar~12bar	管件	Pipe Fittings	G1/4, G3/8 or 1/4, 3/8 NPT Female
工作温度范围	Operating Temperature Range	-30~55°C			

Other Pressure Settings and Differential Pressure are available on request.
Conversion: 1Mpa = 10bar, 1bar = 14.5PSI, 1Kgf/cm² = 14.2PSI

MC-12/13



▲ MC-12



▲ MC-13

MC-12/13

额定电压 (V) Rated Voltage(V)		功率 Horsepower	
额定电流 (A) Rated Amps(A)		125 VAC	250 VAC
无感电流 Non-inductive Amps		1	15
感应电流 Inductive Amps	恒定电流 Rated Amps	0.75	3.5
	瞬时电流 Locked Rotor Amps	0.45	21

MC-14



MC-14		120VAC	208VAC	240VAC	277VAC
电气参数	Electrical Parameter				
功率	Horsepower	1	1	1	-
满载电流	Full Load Amps	16.0	8.8	8.0	-
瞬时电流	Locked Rotor Amps	96.0	52.8	48.0	-
无感电流	Non-inductibe Amps	16.0	16.0	16.0	16.0
一般用途的电流额定值	Pilot Duty	125VA at 24/277 VAC			

产品	内盒 (长x宽x高) cm	外箱 (长x宽x高) cm	只/箱	净重/箱 (KG)	毛重/箱 (KG)	体积 (CBM)
MC-13	9x7x15.7	48.5x38x32.5	50	20.0	22.5	0.059
MC-14	11.1x7.8x23.7	43x35.5x49.5	30	21.0	23.8	0.075
三通水流开关 DN25 MC-12(25A/25B)	9x7x15.7	38.0x19.0x33.0	20	16.0	17.0	0.023
三通水流开关 DN20 MC-12(20A/20B)				15.0	16.0	
三通水流开关DN15 MC-12(15A/15B)				14.0	15.0	
压力开关MLSP系列	8.4x5.2x10.8	43.8x29.5x24.5	50	20.5	21.8	0.031
双压控制器MLSP830系列	10.5x5.8x11.6	33x30.5x25.2	30	17.4	18.2	0.025

MC-15



MC-15		
电压	Voltage	220V/24V
功率	Power	800W/260W
接口尺寸	Joint	6~4(6:inlet 4:outlet)/1~1(1:inlet 1:outlet)
只/箱	CTN	100Pcs
毛重	G.W.	23.6kgs
内盒 (长x宽x高) cm	Packing Size	36.5x23x30.5

NOTE: 260W:6~4(6:inlet 4:outlet)/1~1(1:inlet 1:outlet) 800W:1~1(1:inlet 1:outlet)

MC-16



MC-16		热继电器元件调节范围	
功率	电压	额定电流	Thermal Relay Components Adjustment range
0.75kW	380V	2.1A	1.7-2.5A
1.1kW	380V	2.5A	2-3A
1.5kW	380V	3.6A	2.8-4.4A
2.2kW	380V	5A	5.5-8A
3kW	380V	6.6A	7-11A
4kW	380V	9A	9-13A
5.5kW	380V	11A	12-18A
7.5kW	380V	15A	12-18A
7.5kW	380V	15A	12-18A
11kW	380V	22A	20-32A
15kW	380V	30A	28-45A
18.5kW	380V	37A	40-63A
22kW	380V	44A	40-63A
30kW	380V	60A	53-85A

Magnetic starter is mainly applied to circuit of AC 50 or 60Hz, voltage up to 550v for far distance making and breaking circuit and frequency starting and controlling motor.It has the features of small volume, light weight,low power consumption, high efficiency,safe and reliable performance etc.

MLSP SINGLE PRESSURE CONTROL SPECIFICATION

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Technical Parameters:

The adjusting range is: -0.2~7.5(bar) The maximum test pressure: 22(bar)
Mechanical back to the poor: 0.7~4(bar) Pressure connection: G1/4A
Maximum working pressure: 17(bar) Contact material: Ag



MLSP		压力范围 Pressure Range(bar)	压差 Differential Pressure(bar)	出厂设定 Factory Setting(bar)		最大气密试验压力 Max.gas Tight Test Pressure(bar)
型号 Model	fig.1			fig.2		
MLSP502	-0.5~2	0.2~0.7	1	0.5	16.5	
MLSP503	-0.5~3	0.35~1.5	2	1	16.5	
MLSP506	-0.5~6	0.6~4	3	2	16.5	
MLSP506M	-0.5~5.5	≤1	手动复位 manual reset		16.5	
MLSP110	1~10	1~3	6	5	16.5	
MLSP516	5~16	2~5	10	8	33	
MLSP520	5~20	2~5	16	14	33	
MLSP530D	5~30	3~10	20	15	33	
MLSP530	8~30	3~5固定fixation	20	15~17	33	
MLSP503M	8~30	≤5	20	手动复位 manual reset	33	

MLSP DUAL PRESSURE CONTROLLER SPECIFICATION



型号 Model	低压 Low Pressure		高压 High Pressure		低压 Low Pressure	高压 High Pressure	出厂设定 Factory Setting(bar)			
	压力范围 Pressure Range(bar)	压差 Differential Pressure(bar)	压力范围 Pressure Range(bar)	压差 Differential Pressure(bar)	复位形式 Format Form		出厂设定 Factory Setting(bar)			
					fig.2	fig.1	fig.2	fig.1		
MLSP830	-0.5~6	0.6~4	8~30	3~5固定fixation	自动auto	自动auto	3	2	20	15
MLSP830HM	-0.5~6	0.6~4	8~30	≤5	自动auto	手动manual	3	2	20	手动 manual
MLSP830HLM	-0.5~5.5	≤1	8~30	≤5	手动manual	手动manual	手动 manual	3	20	手动 manual

LS-12/17/18 SUBMERSIBLE PUMP CONTROL



▲ LS-12 (220V) ▲ LS-12 (380V)

▲ LS-18 Control Box

▲ LS-17 Control panel

LCONDENSA TEUR/CAPACITOR(ΩF)

LS-18	15	18	20	25	30	35	40	45	50	55	60	65	70	75	80	85
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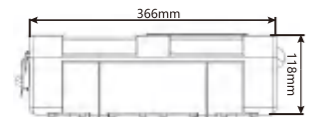
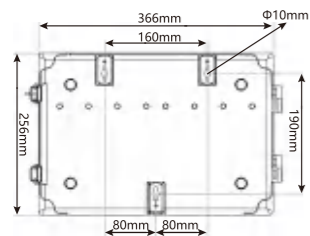
PROT.THERM./THERMAL PROTEC. AMP

LS-18	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	25	30
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Model	LS-18-0.75	LS-18-0.75	LS-18-0.75	LS-18-0.75	LS-18-0.75
Power	0.75	0.75	0.75	0.75	0.75
Rated current	6	6	6	6	6
Capacitor	25	25	25	25	25
Thermal protector	10	10	10	10	10

LS-12			LS-18		
电压	Voltage	Three Phase 380V	额定电压	Voltage	220V-240V
功率	Power	0.75-4KW / 0.75-7.5KW / 0.75-11KW / 0.75-15KW	功率	Power	0.75-2.2kW
频率	Frequency	50/60Hz	频率	Frequency	50/60Hz
包装尺寸	Packing Size	49×25.5×32.2cm	包装尺寸	Packing Size	51.5×38.5×58cm
数量	PCS/CTN	6pcs	数量	PCS/CTN	12pcs
净重	N.W.	5.82kg	净重	N.W.	15.1kg
毛重	G.W.	6kg	毛重	G.W.	16.1kg

LS-19



Pump intelligent controller(dual pump)

- High-definition LCD screen LCD 4.5 inches (color screen / black and white screen)
- Applications: sewage lifting / sewage pumping station / municipal rain and sewage lifting / water supply
- Rated input voltage: 380VAC/ 220VAC
- Three phase /single -phase combined
- Administrator password (input administrator password for parameter setting)
- Dual pump alternately
- Control method: Manuals ↔ Auto
- Optional liquid level control method: Float switch/analog liquid transmitter 4~20mA or 0-5V
- Dynamic display (operation and fault) status of water pump
- Dynamic display (action and fault) status of liquid level
- The liquid level float switch can be extended to 4 liquid level points (low level 1, medium level 2, high level 3, overflow level 4)
- Various ways of parameter calibration
 - ①Automatic parameter calibration
 - ②Fool-style one-key parameter calibration
 - ③Set parameters manually
- Delay function (start pump delay setting, pump stop delay setting)
- 24-hour anti-rust function
- Dry running protection function (when starting in manual state, the pump will be stopped due to dry running, preventing air intake)
- Phase sequence protection
- Option: running by time interval setting, leakage protection, sound and light alarm
- Dry running, overload, locked rotor, phase loss, under voltage, over voltage, overflow and other protection
- Record of running time and the number of failures
- Using temperature: -10°C ~ 55°C

Product selection model

Model	Three phase	Single phase	Black white lcd	Color LCD	ON/OFF Signal	Analog Signal	Air press level	Time control
LS-19-1		○		○	○			
LS-19-2		○		○			○	
LS-19-3		○		○		○		
LS-19-4		○		○				○
LS-19-5	○			○	○			
LS-19-6	○			○			○	
LS-19-7	○			○		○		
LS-19-8	○			○				○
LS-19-9		○	○		○			
LS-19-10		○	○				○	
LS-19-11		○	○			○		
LS-19-12		○	○					○
LS-19-13	○		○		○			
LS-19-14	○		○				○	
LS-19-15	○		○			○		
LS-19-16	○		○					○

Expandable additional functions, Layout page guide

Additional functions	Description
Basic Configuration	Basic Configuration
Rainwater sewage drainage	Rainwater sewage drainage Dual pump alternately, Ultra high liquid level stop the pump
Leakage Current	Leakage Current 50mA ~ 100mA

Drainage liquid level float sensor wiring diagram

Liquid level points Quantity	Liquid level 1	Liquid level 2	Liquid level 3	Liquid level 4
ON/OFF Signal 1 EA	Dual Pump alternately			
ON/OFF Signal 2 EA	Dual Pump alternately	Dual pump start		
ON/OFF Signal 3 EA	stop	Dual Pump alternately	Dual pump start	
ON/OFF Signal 4 EA	stop	Dual Pump alternately	Dual pump start	Mandatory start
ON/OFF Signal 4 EA	stop	Dual Pump alternately	Dual pump start	Collection sump start

Drainage air pressure / Pressure sensor, Liquid level function, Wiring diagram guide

Liquid level point	Pressure range 1	Water tank 2 height	Storage 3 water height	Low 4 liquid level	Medium 5 liquid level	High 6 liquid level	Super high 4 liquid level
	Sensor range	Height set up	Height set up	Stop	Dual Pump alternately	Dual pump start	Mandatory start

FLO



FLO-1 FLO-2 FLO-3 FLO-4



FLO-5 FLO-6 FLO-7 FLO-8

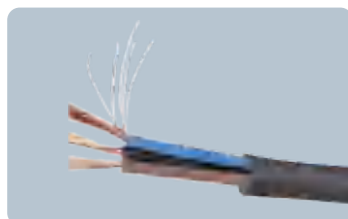


FLO-9 FLO-10 BF-2 (BALANCE WEIGHT) Weight:200g (gram) BF-1 (BALANCE WEIGHT) Weight:150g (gram) Weight:200g (gram)

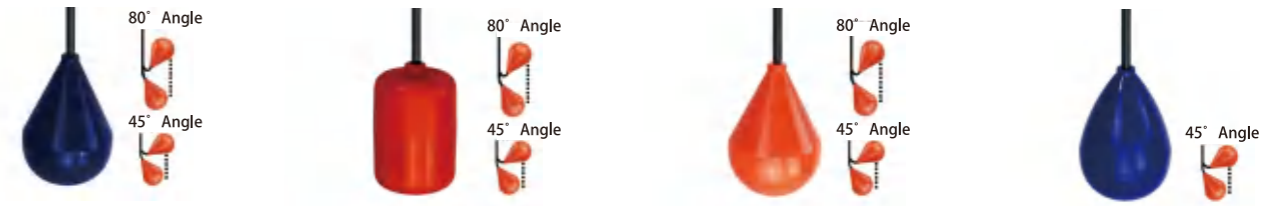
FLO		
额定电压	Voltage	AC 125V/250V
额定电流	Rated Current	AC 16(4A)
频率	Frequency	50/60Hz
温度	Temperature	90°C
保护等级	Protection/Grade	IP68

Diameter Copper wire pcs

3X1	20UM	0.2MM	32PCS
3X0.75	20UM	0.2MM	24PCS
3X0.5	20UM	0.2MM	16PCS
3X1	15UM	1.5MM	56PCS
3X0.75	15UM	1.5MM	42PCS
3X0.5	15UM	1.5MM	28PCS



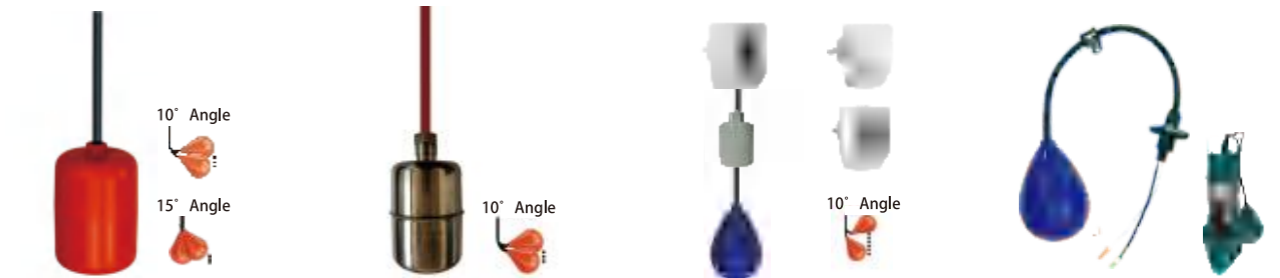
FLO



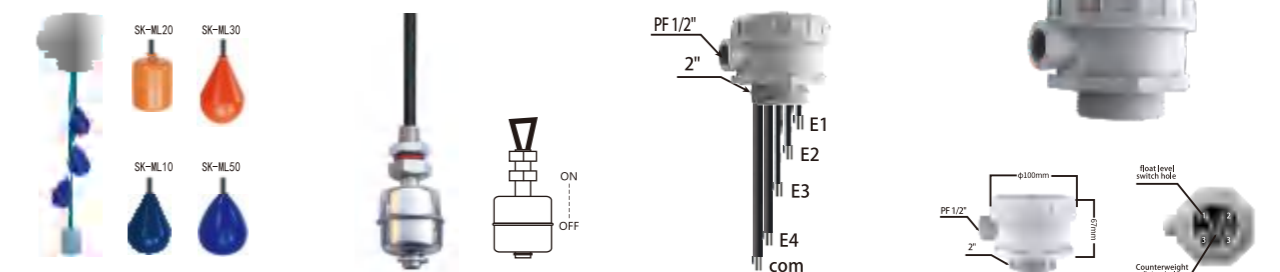
FLO-11 FLO-12 FLO-13 FLO-14



FLO-15 FLO-16 FLO-17 FLO-18



FLO-19 FLO-20 FLO-21 FLO-22



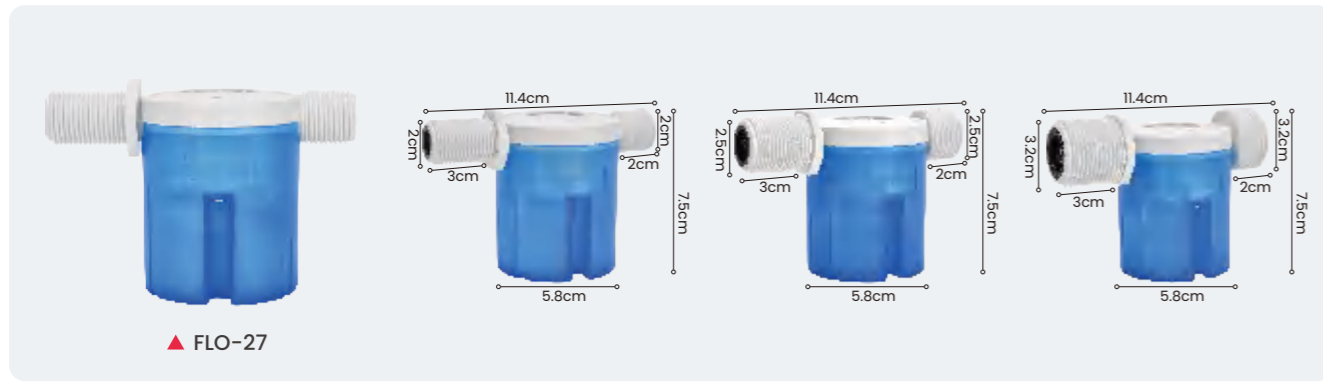
FLO-23 FLO-24 FLO-25 FLO-26

FLO																
Model	FLO-11	FLO-12	FLO-13	FLO-14	FLO-15	FLO-16	FLO-17	FLO-18	FLO-19	FLO-20	FLO-21	FLO-22	FLO-23	FLO-24	FLO-25	FLO-26
Switch type	Microswitch				Microswitch/Mercury switch				Mercury switch	Microswitch		Mercury switch	Reed switch	3/4/5-Pin	PC	
Sensitivity	45°Angle/80°Angle				15°Angle/10°Angle				10°Angle	45°Angle		5mm	700Ω (20V AC)	PF 1/2"		
A-V	5A(3A) 250VAC			16A(4A)/22A(8A) 250VAC	5A(3A) 250VAC				3A 250VAC	16(4)A/22(8)A 250VAC	16A/22A 250VAC	3A/16A 250VAC	1A 250VAC	304SS	2"	
Size(mm)	Φ80×115	Φ48×62	Φ68×95	Φ80×115	Φ80×115	Φ98×157	Φ68×95	Φ80×115	Φ48×62	Φ73×100	Φ80×115	Φ80×115	Φ80×115	Φ28×28×36	Φ100×67	Φ100×67

FLO AUTOMATIC WATER LEVEL CONTROL VALVE(INSIDE TYPE)

FLO AUTOMATIC WATER LEVEL CONTROL VALVE(INSIDE TYPE)

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Installation diagram



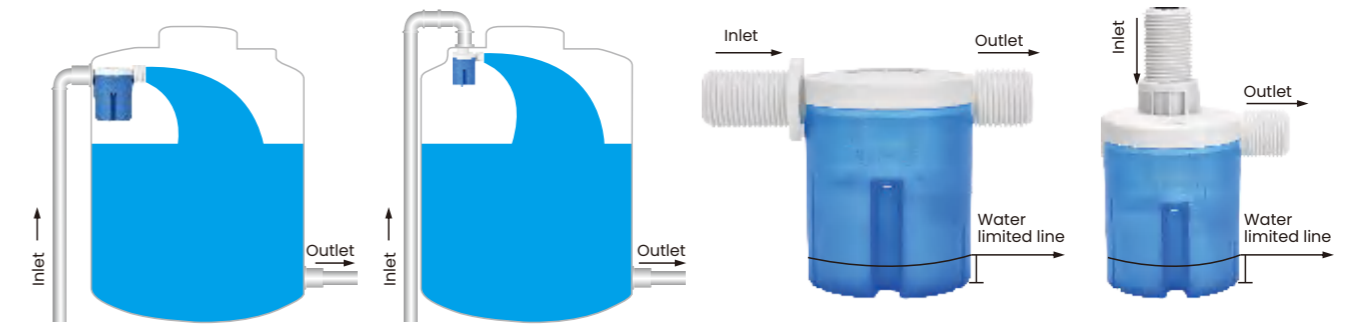
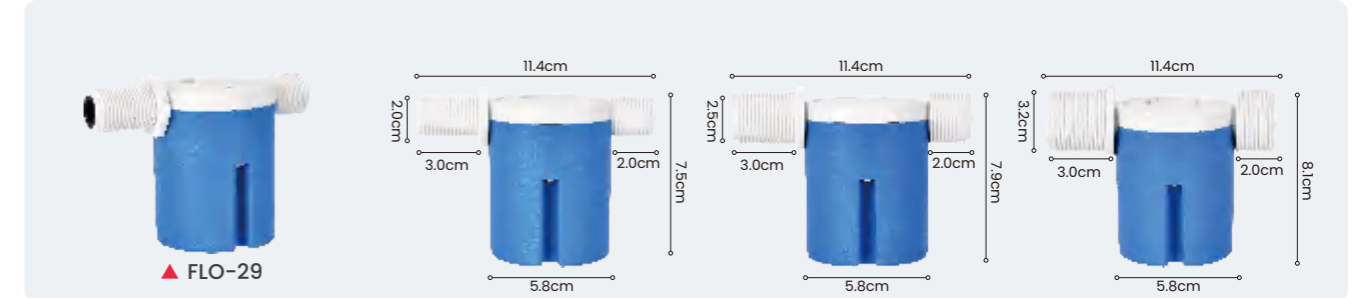
FLO		FLO-27		FLO-28	
型号	Model	FLO-27	型号	Model	FLO-28
尺寸	Size	1/2",3/4",1"	尺寸	Size	1/2",3/4",1"
安装	Installation	Horizontal	安装	Installation	Vertical
温度	Temperature	≤120°C	温度	Temperature	≤120°C
工作压力	Work pressure	0.01-1.0MPa 0.1-10Bar 1.5-150PSI	工作压力	Work pressure	0.01-1.0MPa 0.1-10Bar 1.5-150PSI

NOTICE

1. Water pressure: min 0.1kg; max 10kg
2. Before installing, please clean the impurities in the pipeline to avoid blocking the valve.
3. This product must vertically installed on level surface.
4. The valve should be fixed horizontally and connected the water level control valve with the tank inlet.

MAINTENANCE

If water is not very clean and with some impurities, the valve should need proper maintenance.
When user find water supply time prolonged or the valve can't close automatically, please unload the valve and clean it.



FLO		FLO-29		FLO-30	
型号	Model	FLO-29	型号	Model	FLO-30
尺寸	Size	1/2",3/4",1"	尺寸	Size	1/2",3/4"
安装	Installation	Horizontal	安装	Installation	Vertical
温度	Temperature	≤80°C	温度	Temperature	≤80°C
工作压力	Work pressure	0.01-1.0MPa 0.1-10Bar 1.5-150PSI	工作压力	Work pressure	0.01-1.0MPa 0.1-10Bar 1.5-150PSI

FLO SERIES
Float Switch

OIL PRESSURE GAUGE



▲ YN40 1.5INCH



▲ YN40Z 1.5INCH



▲ YN50Z 2INCH



▲ YN63(Protect cover)
2.5INCH

Model	YN40	YN40Z	YN50	YN50Z	YN63	YN63Z	YN100	YN100Z
Pressure range	-1-100BAR	-1-600BAR	-1-600BAR	-1-600BAR	-1-600BAR	-1-600BAR	-1-600BAR	-1-600BAR
Cover material	SS304	SS304	SS304	SS304	SS304	SS304	SS304	SS304
Connector material	copper	copper	copper	copper	copper	copper	copper	copper
Connector type	axial	The radial	axial	The radial	axial	The radial	axial	The radial
Connector size(G)	1/8	1/8	1/4	1/4	1/4	1/4	1/2	1/2
PCS/CTN	200	200	100	100	100	100	50	50
Size (cm)	38*25*25	37*31*16	34*28*36	40*37*15	38*31*38	44*37*17	58*23*27	58*23*27

Note: It can be customized if there are special pressure requirements.

PRESSURE GAUGE(THE RADIAL)



▲ Y40



▲ Y50
(Copper connectors)



▲ Y50
(Aluminum joints)



▲ Y63
Tire pressure gauges,
normally aluminum connectors

PRESSURE GAUGE(THE RADIAL)



▲ Y100



▲ WY63



▲ Y60
(Copper connectors)



▲ Y60
(Aluminum joints)



▲ Y50

PRESSURE GAUGE(AXIAL)



▲ Y40Z



▲ Y50Z



▲ Y50Z



▲ Y50Z



▲ Y40Z



▲ Y60Z



▲ Y50Z



▲ Y50Z



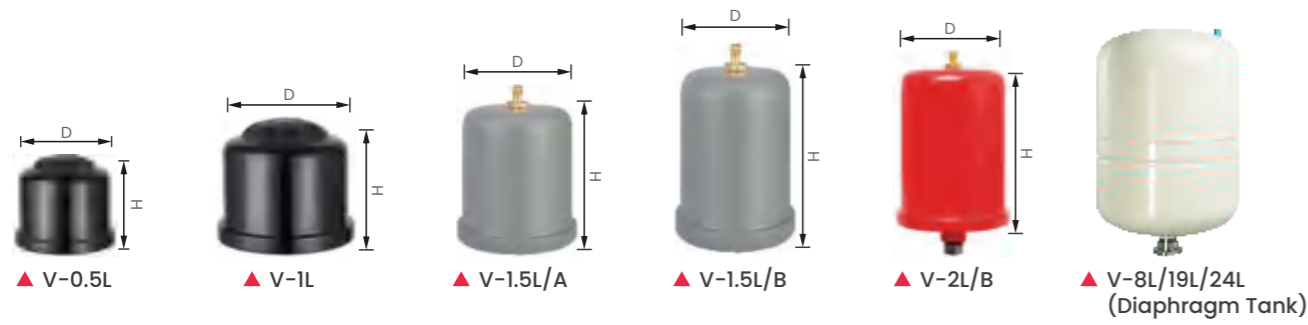
▲ Y50Z



▲ Y40Z

Model	Y35Z	Y40	Y40Z	Y50	Y50Z	Y60	Y60Z	Y63	Y63Z
Pressure range	0-1 6bar	0-1450PSI	0-1450PSI	0-1450PSI	0-1450PSI	0-1450PSI	0-1450PSI	0-1450PSI	0-1450PSI
Cover material	ironclad	ironclad	ironclad	ironclad	ironclad	ironclad	ironclad	ironclad	ironclad
Connector material	copper	copper	copper	copper	copper	copper	copper	copper	copper
Connector type	The radial	axial	The radial	axial	The radial	axial	The radial	axial	The radial
Connector size(G)	m10*1	1/4、1/8	1/4、1/8	1/4	1/4	1/4	1/4	1/4	1/4
PCS/CTN	200	200	200	200	200	200	200	100	100
Size (cm)	37*31*16	38*24*25	37*31*16	46*28*24	42*28*23	32*34*34	32*27*26	36*18*35	36*18*35

PRESSURE TANK



V						
Model	V-0.5L	V-1L	V-1.5L/A	V-1.5L/B	V-2L/B	V-8L/19L/24L
Wall thickness(mm)	0.8	0.8	0.8	0.8	0.8	1.2
Diameter(mm)	72	114.6	101	96	115	200/270/270
Height(mm)	148	97.65	150	141	182	220/295/395
Pre-charge pressure	1.5bar	1.5bar	1.5bar	1.5bar	1.5bar	3.5bar
Max.Press	4	4	4	4	4	12
Max.Temp	99°C	99°C	99°C	99°C	99°C	99°C
Connect	G3/8	G3/8	G3/8	G3/8	G3/8	G1
PCS/CTN	40	40	30	20	20	1
Size (cm)	61*39*17	55*39.5*22.5	47.5*47*20	45*36.5*20	62*41.5*26	8L: 20.5*20.5*31.5 19L: 29*29*43 24L: 28.5*28.5*41.5



V/H											
Model	V-5L	V-8L	V-12L	V-19L	V-24L	F-24L	V-36L	V-50L	V-60L	V-80L	V-100L
Wall thickness(mm)	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.2	1.2	1.2
Diameter(mm)	200	200	280	280	280	330	360	360	450	450	450
Height(mm)	225	320	370	430	450	325	550	660	660	720	790
Pre-charge pressure	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar
Max.Press	8	8	8	8	8	8	8	8	8	8	8
Max.Temp	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C
Connect	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1
PCS/CTN	8	6	1	1	1	1	1	1	1	1	1
	0.00875	0.014	0.0233	0.03214	0.03606	0.03606	0.07227	0.08697	0.13163	0.1539	0.1701

PRESSURE TANK

www.laspa.com
Wenling Ouyi Electric Co., Ltd.

LASPA[®]



H							
Model	H-19L	H-24L	H-36L	H-50L	H-60L	H-80L	H-100L
Wall thickness(mm)	0.8	0.8	1.0	1.0	1.0	1.2	1.2
Diameter(mm)	270	270	360	360	390	450	450
Height(mm)	400	450	420	550	570	600	720
Pre-charge pressure	2bar	2bar	2bar	2bar	2bar	2bar	2bar
Max.Press	8	8	8	8	8	8	8
Max.Temp	99°C	99°C	99°C	99°C	99°C	99°C	99°C
Connect	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1
PCS/CTN	1	1	1	1	1	1	1
Size (cm)	41*27*29	45*27*29	46*36*38	55*36*38	60*36*38	59.5*45*49.5	68.5*45*49.5



V											
Model	V-5L	V-8L	V-12L	V-19L	V-24L	V-36L	V-50L	V-60L	V-80L	V-100L	
Wall thickness(mm)	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.2	1.2	1.2	
Diameter(mm)	180	200	200	270	270	360	360	390	450	450	
Height(mm)	290	320	350	400	450	580	710	730	760	880	
Pre-charge pressure	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar	
Max.Press	6	6	6	6	6	6	6	6	6	6	
Max.Temp	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C	
Connect	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G1	G1	G1	G1	
PCS/CTN	1	1	1	1	1	1	1	1	1	1	

H								
Model	H-12L	H-19L	H-24L	H-36L	H-50L	H-60L	H-80L	H-100L
Wall thickness(mm)	0.8	0.8	0.8	1.0	1.0	1.0	1.2	1.2
Diameter(mm)	270	270	270	360	360	390	450	450
Height(mm)	350	400	450	420	550	570	600	720
Pre-charge pressure	2bar	2bar	2bar	2bar	2bar	2bar	2bar	2bar
Max.Press	6	6	6	6	6	6	6	6
Max.Temp	99°C	99°C	99°C	99°C	99°C	99°C	99°C	99°C
Connect	G3/4 or G1	G3/4 or G1	G3/4 or G1	G3/4 or G1	G1	G1	G1	G1
PCS/CTN	1	1	1	1	1	1	1	1

TANK SERIES

Pressure Tank

MEMBRANE AND METAL HOSE

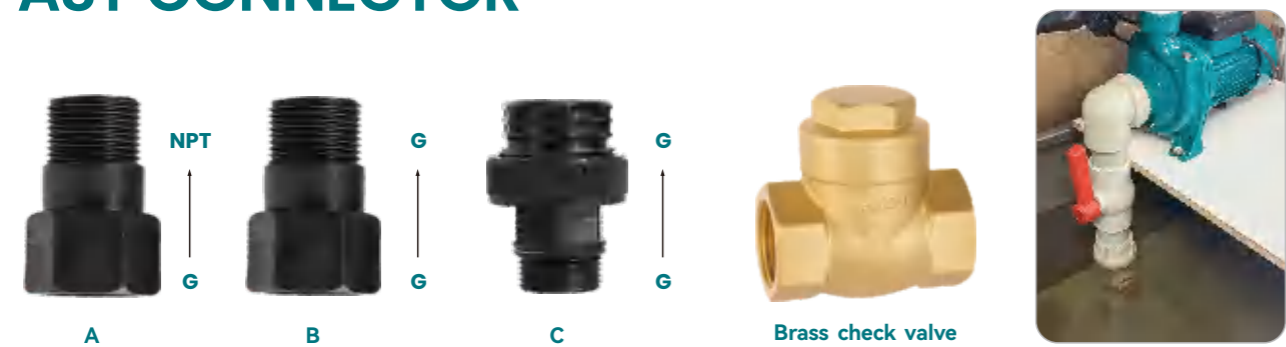


Product picture	Model	Describe	Specifications	Weight	Packing number	Size
	DS-52007	Nickel plated Copper connector, A bent pipe with 1 "nut, A 1 "outer tooth	50cm	330	50	58x32x20
			60cm	370	50	68x32x20
			100cm	530	40	105x32x18

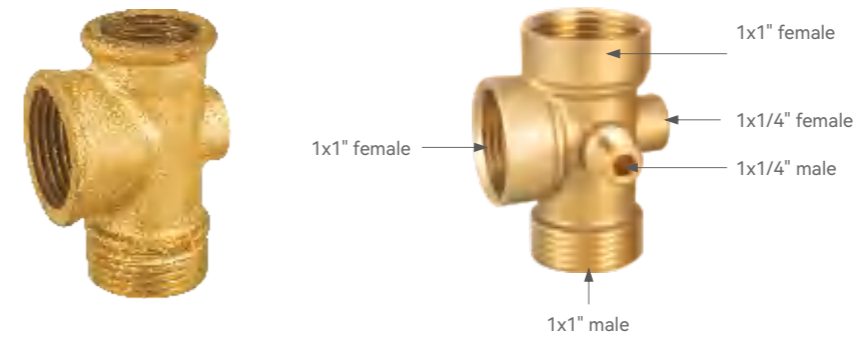
CIRCUIT BOARD



FAST CONNECTOR



BRASS FIVE WAY NO RETURN CHECK VALVE



规格	Height	7cm
常规重量	Weight	135、150
装箱数	PCS/CTN	100
尺寸	CBM	54x28x18



POWER CABLE AND PLUG



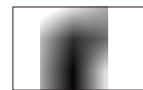
LS-1



A 接1米欧插（电源）和25-40或者60cm短线无插头（电机）
Connect 1 meter europe plug(power),25-40 or 60cm cable without plug(motor)



B 接英国插头（电源）和60cm短线无插头（电机）
connect 1meter british plug for power, 25-40 or 60cm cable for motor



C 单独接1米欧插（电源），不接电机
indepent connect one meter Europe cable (power), no need for cable for motor



D 单独接灰色测试线（电源），不接电机
indepent connect the gray test cable with plug(power), no need cable for motor



E 接英国插头（电源），不接电机
indepent connect british plug for power,no need cable for motor



F 接2根短线无插头（电源和电机）
two short cable without plug(25-40 or 60cm),one for power,one for motor



G 接1米欧插（电源）和60cm德国插座（电机）
connect 1 meter Europe plug(power), 60cm connect germany socket for motor



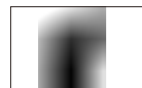
LS-3



A 接1米欧插（电源）和25-40或者60cm短线无插头（电机）
connect 1 meter europe plug(power),25-40 or 60cm cable without plug(motor)



B 接英国插头（电源）和60cm短线无插头（电机）
connect british plug for power,25-40 or 60cm cable for motor



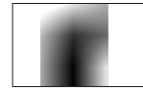
C 单独接1米欧插（电源），不接电机
connect one meter Europe plug(power), no need for cable for motor



D 单独接灰色试线（电源），不接电机
indepent connect the gray test cable with plug(power), no need cable for motor



E 接英国插头（电源）
indepent connect british plug for power, no need cable for motor



F 接英国插头（电源），不接电机
two short cable without plug(25-40 or 60cm), one for power,one for motor



G 接1米欧插（电源）和60cm德国插座（电机）
connect one meter Europe plug(power), 60cm connect germany socket for motor



LS-4



A 单独接灰色测试线（电源），不接电机
indepent connect the gray test cable with plug(power), no need cable for motor



B 单独接1米欧插（电源），不接电机
connect one meter Europe plug(power), no need for cable for motor



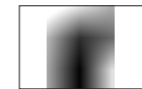
LS-6



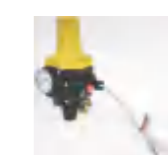
A 接1米欧插（电源）和25-40或者60cm短线无插头（电机）
connect 1 meter europe plug(power),25-40 or 60cm cable without plug(motor)



B 接英国插头（电源）和60cm短线无插头（电机）
connect british plug for power,25-40 or 60cm cable for motor



C 单独接1米欧插（电源），不接电机
connect one meter Europe plug(power), no need for cable for motor



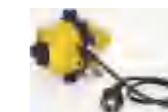
D 单独接灰色测试线（电源），不接电机
indepent connect the gray test cable with plug(power), no need cable for motor



LS-8A



A 单独接灰色测试线（电源），不接电机
indepent connect the gray test cable with plug(power), no need cable for motor



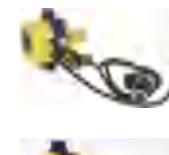
B 单独接1米欧插（电源），不接电机
indepent connect british plug for power, no need cable for motor



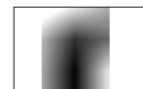
LS-8



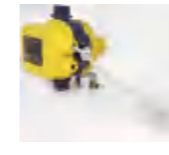
A 接1米欧插（电源）和25-40或者60cm短线无插头（电机）
connect 1 meter europe plug(power),25-40 or 60cm cable without plug(motor)



B 接英国插头（电源）和60cm短线无插头（电机）
connect british plug for power,25-40 or 60cm cable for motor



C 单独接1米欧插（电源），不接电机
connect one meter Europe plug(power), no need for cable for motor



D 单独接灰色测试线（电源），不接电机
indepent connect the gray test cable with plug(power), no need cable for motor



E 接英国插头（电源），不接电机
indepent connect british plug for power, no need cable for motor



F 接2根短线无插头（电源和电机）
two short cable without plug(25-40 or 60cm), one for power,one for motor



G 接1米欧插（电源）和60cm德国插座（电机）
connect one meter Europe plug(power), 60cm connect germany socket for motor



接线剥皮长度:

LS-1: 直插、弯插、英插: 外皮剥线: 2.5cm
两根短线: 一头3cm, 一头2.5cm
铜线外皮: 0.7cm
LS-2: 直插、弯插、英插: 外皮剥线: 5cm
两根短线: 一头5cm, 一头3cm
铜线外皮: 1cm

LS-3/LS-3B/LS-4/LS-5/LS-6/LS-6A/LS-6B:
直插、弯插、英插: 外皮剥线: 3cm
两根短线: 外皮剥线: 3cm
铜线外皮: 1cm
LS-8: 直线、弯插、英插: 外皮剥线: 3cm
两根短线: 外皮剥线: 3cm
铜线外皮: 0.7cm

MC-1: 直插、弯插、英插: 外皮剥线: 6cm
两根短线: 一头6cm, 一头3cm
铜线外皮: 1cm
MC-9: 直插、弯插、英插: 外皮剥线: 8cm
两根短线: 一头8cm, 一头3cm
铜线外皮: 1cm

kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55
HP	0.5	0.75	1	1.5	2	3	4	5	7	10	15	20	25	30	40	50	60	70

NORMAL COLOR



LS-12
380V



LS-12
220V



LS-1



LS-1



LS-6B
(PLUS)



LS-8
(DRAK BLUE)



LS-8
(BLACK)



LS-8
(TRANSPARENT)



LS-1



LS-2



LS-3
(RED)
ADJUSTMENT



LS-3B



LS-8
(HALF
TRANSPARENT)



LS-8
(NO PRESSURE
GAUGE)



LS-8A



LS-8A
(NO PRESSURE
GAUGE)



LS-3
(BLUE)
ADJUSTMENT



LS-5



LS-4
With Europe
Socket



LS-6A



MC-1



MC-8



PSG-1



MC-9A



LS-6



LS-15



LS-16



LS-6B



MC-7



MC-11



MC-13



MC-14

COLOR SERIES

Normal Color