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Water Meter Test Bench

DN15-25
DN15-50
DN80-300

Flow Calibration Device

DN2.5-10
DN15-50
DN80-300

Water Meter Test Bench



Product Catalogue



Ningbo Free Trade ECO International Co., Ltd

608, 1501 Tiantong Road N., Ningbo 315100, China
Tel: 0086 0574 87065432 Fax: 0086 0574 87756802
Email: info@sinoeco.com easy@sinoeco.com
Skype: sinoeco.com
Website: www.sinoeco.com

NINGBO FREE TRADE
ECO INTERNATIONAL CO., LTD
宁波保税区亿科国际贸易有限公司

B 公司简介 Brief introduction

ECO International Co.,Ltd is an integrating of technology, manufacturing, and foreign trade, registered in Ningbo, China on Nov.7, 2000. We are mainly working in water meter test bench, valves, water meter, pipe fittings and so on.

We have more than 12 strategic cooperation ISO9001 factories for different products in water meter test bench, valves and fittings. The products are mainly exported to Europe, America and Southeast Asia, especially to Italy, Germany, Poland, France, Ukraine, Moldova and Singapore.

ECO CO is warmly welcome customers, who will have a long term cooperation with us. We can offer you very good business conditions, such as shipment control, quality control, technical support and good after-sales service. We can be your reliable agent in China.



"Quality products, Best&fast service, Reasonable price" are our three advantages. We are looking forward to building good business cooperation and friendship with all the customers around the world.



P 产品介绍 product introduction

I. WATER METER TEST BENCH

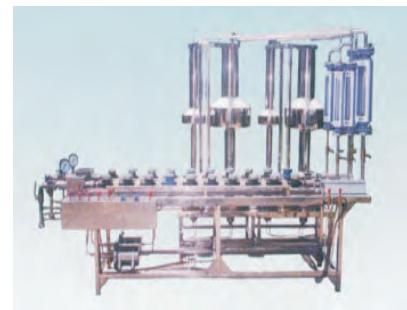
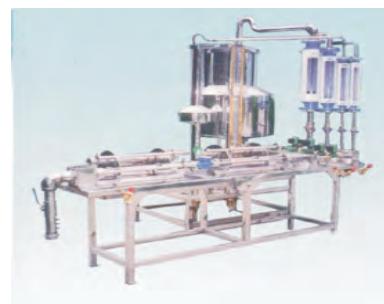
1. Caliber (mm): 15-300
2. Flow range(m³/h): 0.01-2000
3. Class: Mass method 0.1%,
Volume method 0.2%, Dual
clock method 0.3%
4. Model: In series, test

II. FLOW CALIBRATION DEVICE

1. Caliber (mm): 2.5-2400
2. Flow range(m³/h): 0.0088-
24000
3. Class: Mass method 0.03%,
Volume method 0.05%, Dual
clock method 0.2%

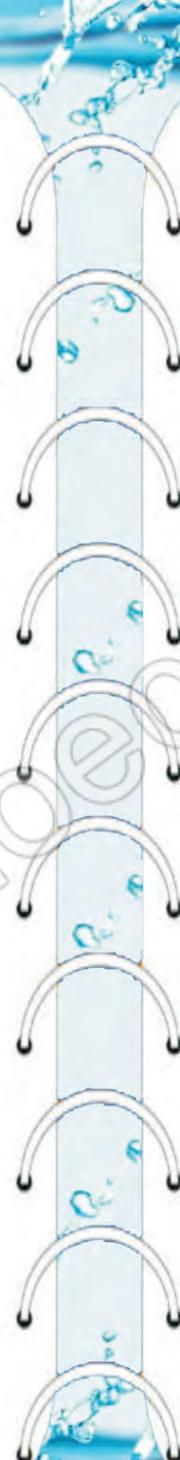
Water Meter Test Bench(15-25)

Water meter test bench (Manual)		
Caliber	15-25	
Model	In series	Test
Size(mm)	3900*1080*2000	
Number of meter	DN15*6, DN20*5, DN25*4	Single
Glass Rotameter	DN15/25/50	DN15/25/50
Vessel	10L/20L 50L/100L	10L/20L 50L/100L
Class	0.20%	0.20%
Flow Range	0.016m ³ /h~6.3m ³ /h	0.016m ³ /h~6.3m ³ /h
Optional		
Pump	Q=6.3m ³ /h H=50m N=3.7Kw	Q=6.3m ³ /h H=50m N=3.7Kw
Storage Tank	1m ³	1m ³
Pressure Tank	0.5m ³	0.5m ³
Pressure-tight test	0-2Mpa	0-2Mpa
Liquid lever photoelectrical	DC5V, 4 Unit	DC5V, 4 Unit
Controller of Photoelectric Sensors	Receive photoelectric signal and control valve	Receive photoelectric signal and control valve



Water Meter Test Bench(15-25)

Automatic water meter test bench (Volume method)		
Caliber	15-25	
Model	In series	Test
Size(mm)	3900*1080*2000	
Read Volume	Photoelectric and Camera	Photoelectric and Camera
Controller of Photoelectric Sensors	Receive photoelectric signal and control valve	Receive photoelectric signal and control valve
Read Water meter	Photoelectric/Camera	Photoelectric/Camera
Control System	PC/PLC/MOXA card and so on	PC/PLC/MOXA card and so on
Number of meter	DN15*6, DN20*5, DN25*4	Single
Glass Rotameter	DN15/25/50	DN15/25/50
Vessel	10L/20L 50L/100L	10L/20L 50L/100L
Class	0.20%	0.20%
Flow Range	0.016m ³ /h~6.3m ³ /h	0.016m ³ /h~6.3m ³ /h
Optional		
Pump	Q=6.3m ³ /h H=50m N=3.7Kw	Q=6.3m ³ /h H=50m N=3.7Kw
Storage Tank	1m ³	1m ³
Pressure Tank	0.5m ³	0.5m ³
Pressure-tight test	0-2MPa	0-2MPa



Automatic water meter test bench (Mass method/Dual clock method)		
Caliber	15-25	
Model	In series	Test
Size(mm)	3900*1080*2000	
Read Water meter	Photoelectric/Camera	Photoelectric/Camera
Control System	PC/PLC/MOXA card and so on	PC/PLC/MOXA card and so on
Number of meter	DN15*6, DN20*5, DN25*4	Single
Electromagnetic Flowmeter	DN4/DN20	DN4/DN20
Electronic Balance	120kg 1/6000	120kg 1/6000
Class	0.20%	0.20%
Flow Range	0.016m ³ /h~6.3m ³ /h	0.016m ³ /h~6.3m ³ /h
Frequency Converter	3.7kw	3.7kw
Pump	Q=6.3m ³ /h H=50m N=3.7Kw	Q=6.3m ³ /h H=50m N=3.7Kw
Storage Tank	1m ³	1m ³
Pressure Tank	0.2m ³	0.2m ³
Pressure-tight test	0-2MPa	0-2MPa



Water Meter Test Bench(15-25)

DN15-25 Water Meter Equipment (Volume Method)

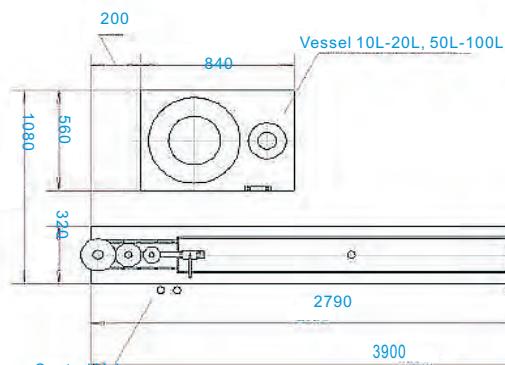
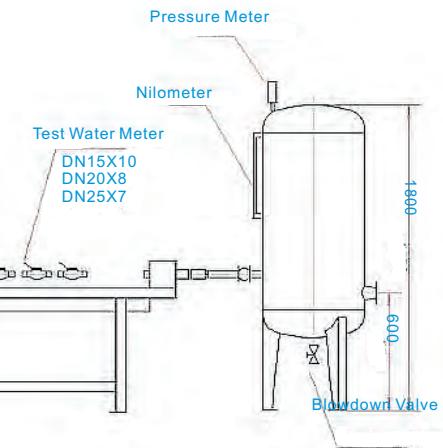
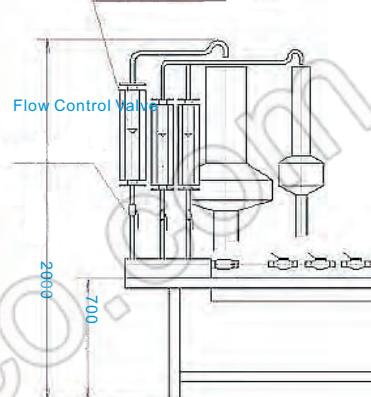


DN15-25 Water Meter Equipment (Mass Method/Dual Clock Method)



Water Meter Test Bench(15-25)

DN15.DN20.DN25 Flowmeter



ECO WATER METER TEST BENCH
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Water Meter Test Bench(15-50)

Water meter test bench (Manual)		
Caliber	15-50	
Model	In series	Test
Size(mm)	4400*1860*2200	
Number of meter	DN15*6、DN20*5、DN25*4、 DN32*4、DN40*3、DN50*2	Single
Glass Rotameter	DN15/25/50/80	DN15/25/50/80
Vessel	10L/20L 100L/500L	10L/20L 100L/500L
Class	0.20%	0.20%
Flow Range	0.016m ³ /h~40m ³ /h	0.016m ³ /h~40m ³ /h
Optional		
Pump	Q=50m ³ /h H=50m N=15Kw	Q=50m ³ /h H=50m N=15Kw
Storage Tank	3m ³	3m ³
Pressure Tank	0.5m ³	0.5m ³
Pressure-tight test	0-2Mpa	0-2Mpa
Liquid lever photoelectrical	DC5V, 4 Unit	DC5V, 4 Unit
Controller of Photoelectric Sensors	Receive photoelectric signal and control valve	Receive photoelectric signal and control valve



Water Meter Test Bench(15-50)

Automatic water meter test bench (Volume method)		
Caliber	15-50	
Model	In series	Test
Size(mm)	4400*1860*2200	
Read Volume	Photoelectric and Camera	Photoelectric and Camera
Controller of Photoelectric Sensors	Receive photoelectric signal and control valve	Receive photoelectric signal and control valve
Read Water meter	Photoelectric/Camera	Photoelectric/Camera
Control System	PC/PLC/MOXA card and so on	PC/PLC/MOXA card and so on
Number of meter	DN15*6、DN20*5、DN25*4、 DN32*4、DN40*3、DN50*2	Single
Glass Rotameter	DN15*1、25*2、50*2、80*1	DN15*1、25*2、50*2、80*1
Vessel	10L/20L 100L/500L	10L/20L 100L/500L
Class	0.20%	0.20%
Flow Range	0.016m ³ /h~40m ³ /h	0.016m ³ /h~40m ³ /h
Optional		
Pump	Q=50m ³ /h H=50m N=15Kw	Q=50m ³ /h H=50m N=15Kw
Storage Tank	3m ³	3m ³
Pressure Tank	0.5m ³	0.5m ³
Pressure-tight test	0-2MPa	0-2MPa



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Water Meter Test Bench(15-50)

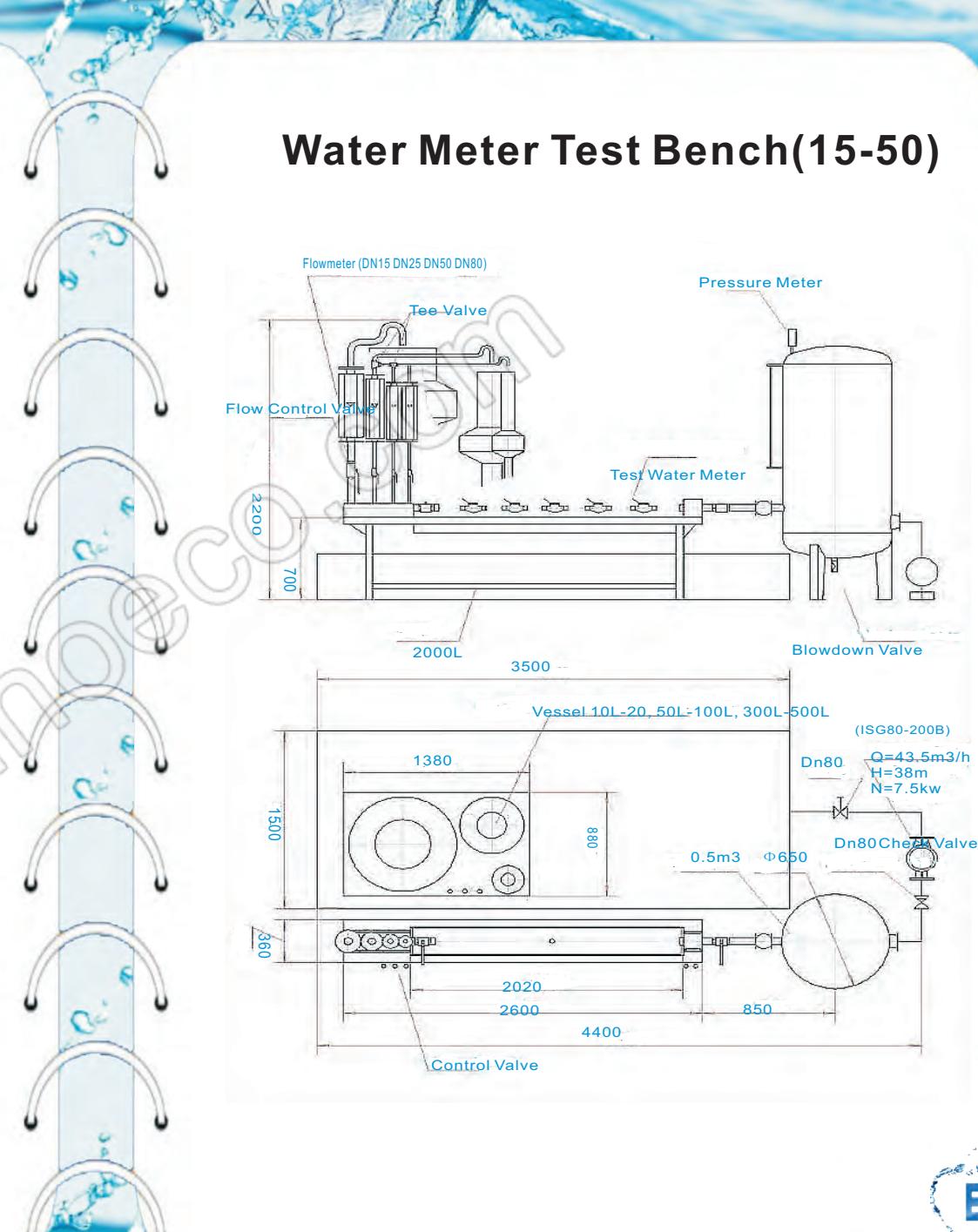
Automatic water meter test bench (Mass method/Dual clock method)		
Caliber	15-50	
Model	In series	Test
Size(mm)	4400*1860*2200	
Read Water meter	Photoelectric/Camera	Photoelectric/Camera
Control System	PC/PLC/MOXA card and so on	PC/PLC/MOXA card and so on
Number of meter	DN15*6, DN20*5, DN25*4, DN32*4, DN40*3, DN50*2	Single
Electromagnetic Flowmeter	DN4/DN15/DN50	DN4/DN15/DN50
Electronic Balance	600kg/60kg 1/6000	600kg/60kg 1/6000
Class	0.20%	0.20%
Flow Range	0.016m ³ /h~40m ³ /h	0.016m ³ /h~40m ³ /h
Frequency Converter	15kw	15kw
Pump	Q=50m ³ /h H=50m N=15Kw	Q=50m ³ /h H=50m N=15Kw
Storage Tank	3m ³	3m ³
Pressure Tank	0.5m ³	0.5m ³
Pressure-tight test	0-2MPa	0-2MPa

DN15-50 Water Meter Equipment (Volume Method)



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Water Meter Test Bench(15-50)



Water Meter Test Bench(80-300)

Water meter test bench (Manual)		
Caliber	80-300	
Model	Test	
Size(mm)	11510*4800*4650	
Number of meter	Single	
Glass Rotameter	DN25/50/80/100(Bypass flow)/300(Bypass flow)	
Switch	DN300(Tubular Style)	
Vessel	400L/2000L 6m ³ /20m ³	
Class	0.20%	
Flow range	0.4m ³ /h~1000m ³ /h	
Optional		
Pump	Q=50m ³ /h H=50m N=15Kw	
	Q=500m ³ /h H=44m N=90Kw	
	Q=500m ³ /h H=44m N=90Kw	
Pressure Tank	10m ³	
Monitor to Vessel liquid level	Camera/Monitor	



Water Meter Test Bench(80-300)

Automatic water meter test bench (Volume Method/Standard meter Method)		
Caliber	80-300	
Model	In series	Test
Size(mm)	11510*4800*4650	
Read Volume	Liquid level sensor	Liquid level sensor
Controller of Photoelectric Sensors	Receive photoelectric signal and control switch	Receive photoelectric signal and control switch
Control System	PC/PLC/MOXA card and so on	PC/PLC/MOXA card and so on
Number of meter	DN80*4, DN100*3, DN150*2 、DN200*1, DN250*1,	Single
Electromagnetic Flowmeter	DN25/80/300	DN25/80/300
Switch	DN300(Tubular Style)	DN300(Tubular Style)
Vessel	400L/2000L 6m ³ /20m ³	400L/2000L 6m ³ /20m ³
Class	0.20%	0.20%
Flow range	0.4m ³ /h~1000m ³ /h	0.4m ³ /h~1000m ³ /h
Frequency Converter	15kw 90kw 90kw	15kw 90kw 90kw
Pump	Q=50m ³ /h H=50m N=15Kw	Q=50m ³ /h H=50m N=15Kw
	Q=500m ³ /h H=44m N=90Kw	Q=500m ³ /h H=44m N=90Kw
	Q=500m ³ /h H=44m N=90Kw	Q=500m ³ /h H=44m N=90Kw
Pressure Tank	5m ³	5m ³

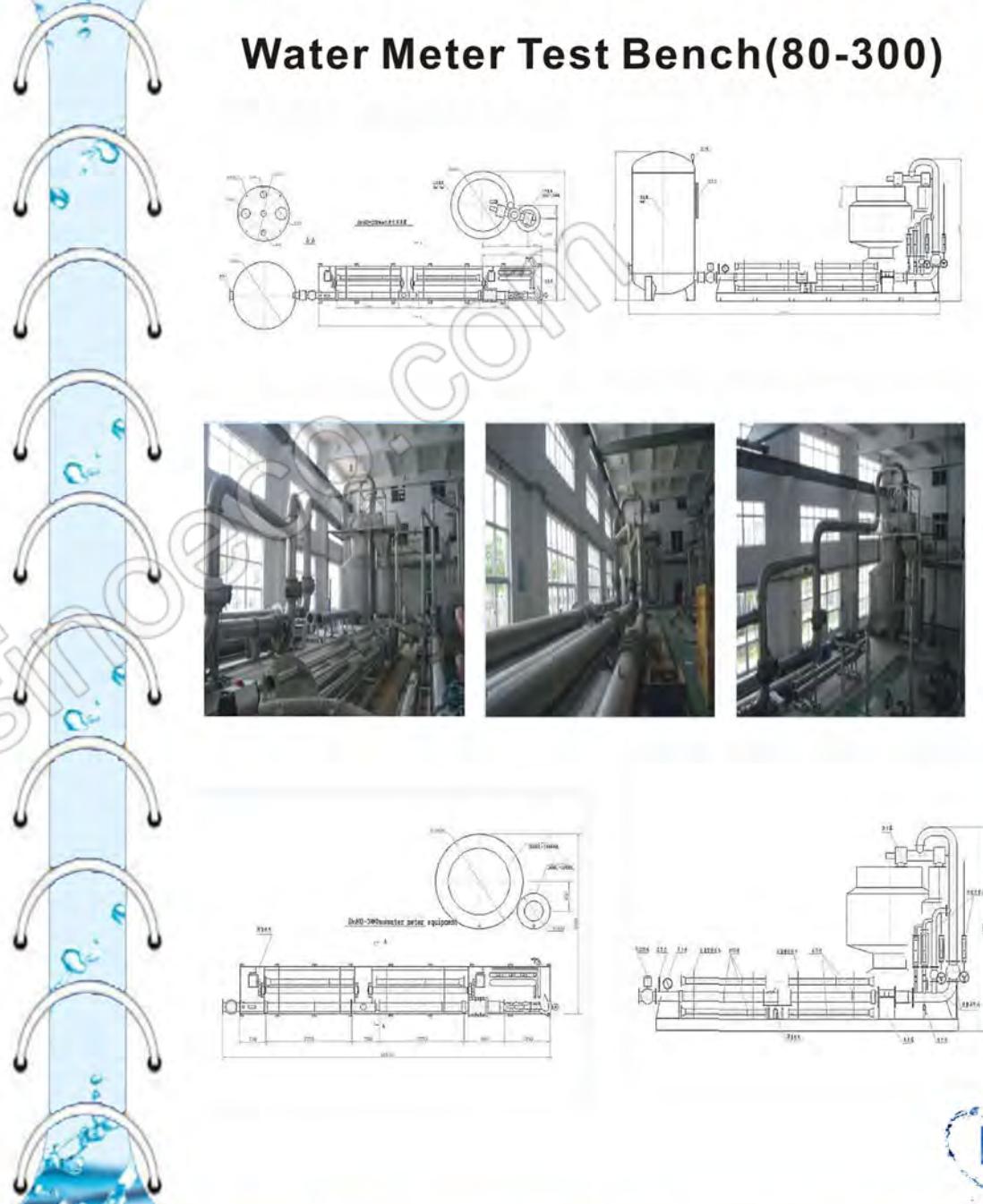


Water Meter Test Bench(80-300)

Automatic water meter test bench (Mass Method/Standard meter Method)		
Caliber	80-300	
Model	In series	Test
Size(mm)	11510*4800*4650	
Read Water meter	Photoelectric	Photoelectric
Control System	PC/PLC/MOXA card and so on	PC/PLC/MOXA card and so on
Number of meter	DN80*4, DN100*3, DN150*2 , DN200*1, DN250*1,	Single
Electromagnetic Flowmeter	DN25/80/300	DN25/80/300
Switch	DN300, DN80(Tubular Style)	DN300, DN80(Tubular Style)
Vessel	13.6m ³ /1.36m ³	13.6m ³ /1.36m ³
Electronic Balance	12t/1.2t 1/6000	12t/1.2t 1/6000
Class	0.10%	0.10%
Flow range	0.4m ³ /h~1000m ³ /h	0.4m ³ /h~1000m ³ /h
Frequency Converter	15kw 90kw 90kw	15kw 90kw 90kw
Pump	Q=50m ³ /h H=50m N=15Kw Q=500m ³ /h H=44m N=90Kw Q=500m ³ /h H=44m N=90Kw	Q=50m ³ /h H=50m N=15Kw Q=500m ³ /h H=44m N=90Kw Q=500m ³ /h H=44m N=90Kw
Pressure Tank	5m ³	5m ³



Water Meter Test Bench(80-300)

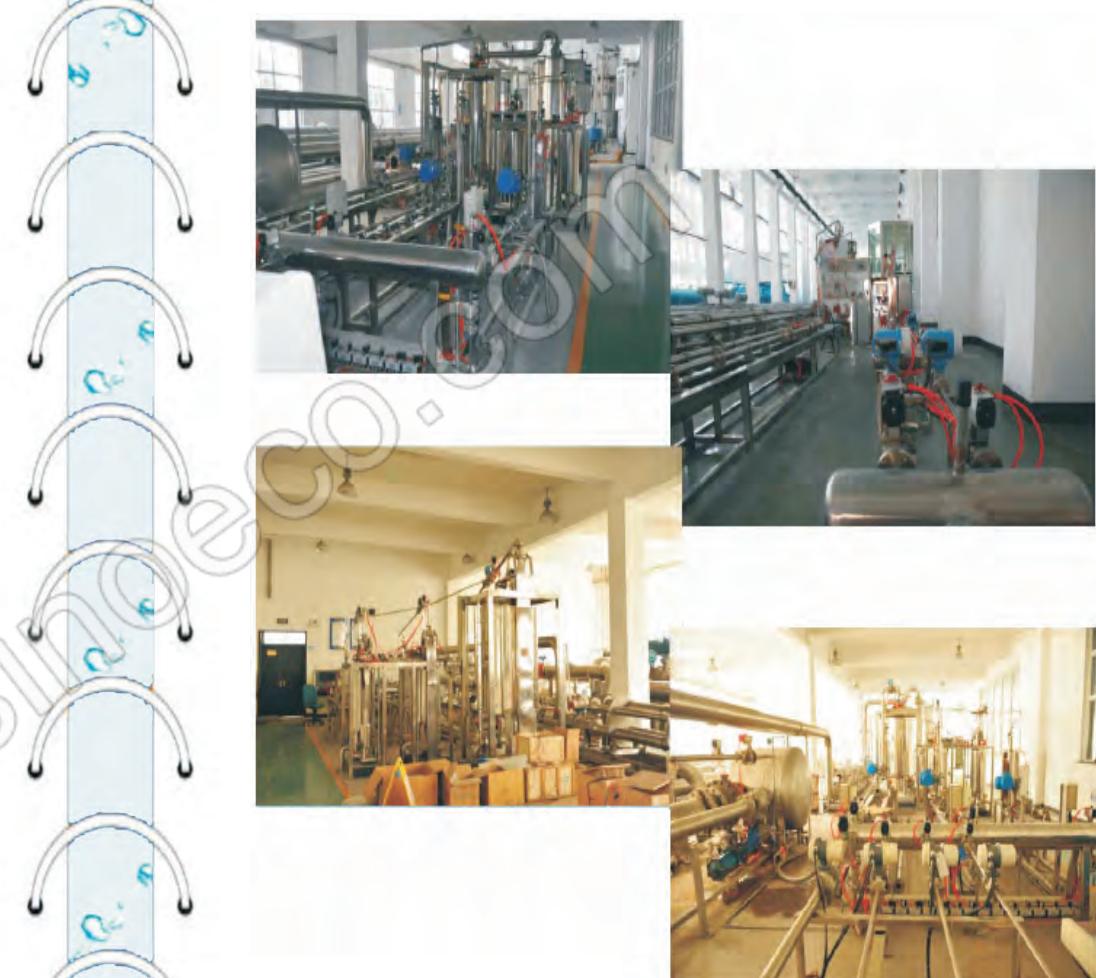


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Flow Calibration Device(2.5-10)

DN2.5-10 Flow Equipment	
Control System	PC/PLC/MOXA card and so on
Caliber(mm)	2.5-10
Main pipe sizes(mm)	10
Test Line Pipe Sizes(mm)	2.5、4、6、8、10
Measurement Method	Mass Method/Standard meter Method
Flow Range(m^3/h)	0.007-1.9
Flow Rates(m/s)	0.4-7
Electronic Balance(kg)(1/15000)	3 (1.5、0.75) 30 (15、7.5)
Standard flow meter(mm)(Class:0.2)	2.5、4、10
Pressure Tank(m^3)	0.1
Switch	DN4、DN10
Pump(Q*H*H)	2.0 m^3/h *52m*0.75kw
Frequency Converter	0.75kw
Work Pressure(Mpa)	0.2-0.6
Work temperature(°C)	Room Temperature
Calibration Fluid	Water
Expanded Uncertainty(%)K=2	Mass method Standard meter Method
Equipment Repeatability(%)	0.05 0.2 0.2

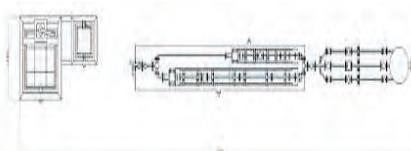
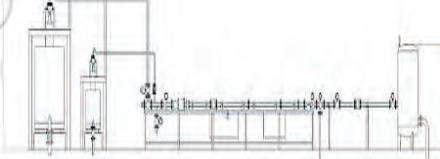
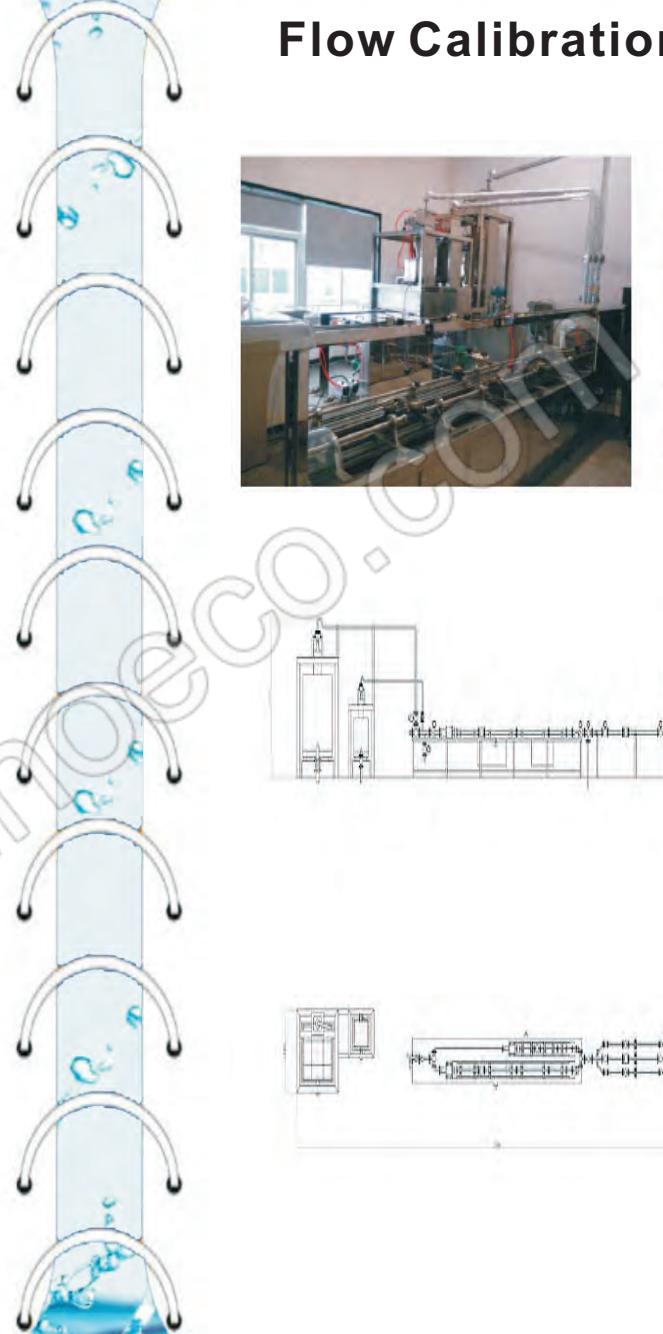
Flow Calibration Device(2.5-10)



Flow Calibration Device(15-50)

DN15-50 Flow Equipment		
Control System		PC/PLC/MOXA card and so on
Caliber(mm)	15-25	32-50
Main pipe sizes(mm)	25	50
Test Line Pipe Sizes(mm)	15 20 25	32 40 50
Measurement Method		Mass Method/Standard meter Method
Flow Range(m ³ /h)	0.2-50	
Flow Rates(m/s)	0.3-7	
Electronic Balance(kg)(1/12000)	6 (2.4、1.2)	60 (24、12) 600 (240、120)
Standard flow meter(mm)(Class:0.2)	10 20	50
Pressure Tank(m ³)	0.5	
Switch	DN15、DN50	
Pump(Q*H*H)	5.5m ³ /h*50m*3.7kw 50m ³ /h*50m*15kw	
Frequency Converter	3.7kw、15kw	
Work Pressure(Mpa)	0.2-0.6	
Work temperature(°C)	Room Temperature	
Calibration Fluid	Water	
Expanded Uncertainty(%)K=2	Mass method	0.05
	Standard meter Method	0.2
Equipment Reparability(%)		0.2

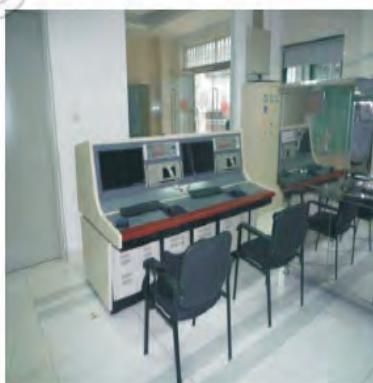
Flow Calibration Device(15-50)



Flow Calibration Device(80-300)

DN80-300 Flow Equipment		
Control System		PC/PLC/MOXA card and so on
Caliber(mm)	80-150	200-300
Main pipe sizes(mm)	150	300
Test Line Pipe Sizes(mm)	80、100、125、150	200、250、300
Measurement Method	Mass Method/Standard meter Method	Standard meter Method
Flow Range(m ³ /h)	5.4-445	34-1500
Flow Rates(m/s)	0.3-7	0.3-6
Electronic Balance(kg)(1/12000)	600 (240, 120) 6000 (2400, 1200)	
Standard flow meter(mm)(Class:0.2)	DN50*1、DN150*4	
Pressure Tank(m ³)	5m ³	
Switch	DN15、DN50	
Pump(Q*H*H)	50*50*15*1、400*50*75*1、 1130*44*200*1	
Frequency Converter	15kw*1、75kw*1、200kw*1	
Work Pressure(Mpa)	0.3-0.5	
Work temperature(°C)	Room Temperature	
Calibration Fluid	Water	
Expanded Uncertainty(%)K=2	Mass method	0.05
	Standard meter Method	0.2
Equipment Repearability(%)	0.2	

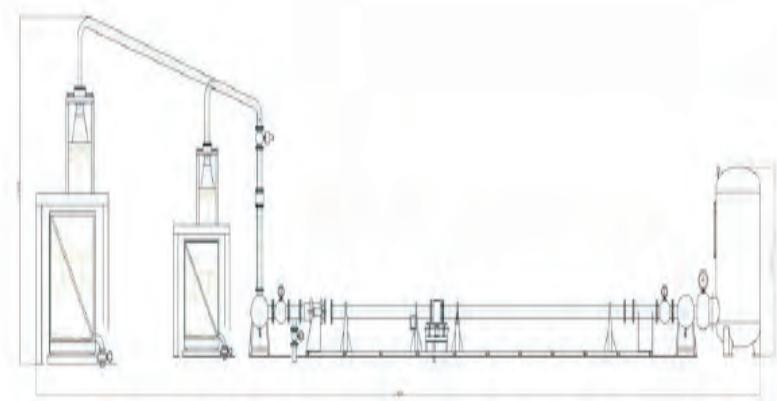
Flow Calibration Device(80-300)



Flow Calibration Device(80-300)



Flow Calibration Device(80-300)



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Gas Flow Calibration Device

The gas flow standard calibrating device			
Flow range	(0.5-10000)m ³ /h (Customer can decide Upper limit)		
Caliber	DN10-80	DN100-300	DN350-500
Test line pipe sizes(mm)	DN10, DN15, DN20 DN25, DN32, DN40 DN50, DN65, DN80	DN100, DN125 DN150 、 DN200 DN250, DN300	DN350, DN400, DN450 、 DN500
Expanded Uncertainty	0.25%(K=2)		
Sonic nozzles Expanded Uncertainty	0.15%(K=2)		
The accuracy of pressure transmitter	0.075%		
The accuracy of temperature transmitter	0.2°C		
Working pressure	80kpa-0		
Working temperature	(-10~50) °C		
Working medium	Air		
Sytem equipment noise	Equipment noise<70dB, Outside noise<60dB		
Operation environment	Atmospheric pressure:(86-106)kpa; Temperature:(0-50)°C ; Humidity:(45-90)%RH		
Power	AC3*380V; 50Hz		
Max Power dissipation	<230kw		
Vacuum pump	ARE-250V-49kpa 85m ³ /min 110kw 2sets		
Sonic nozzles(Total 20)	0.5, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024*9 (m ³ /h)		

Gas Flow Calibration Device

