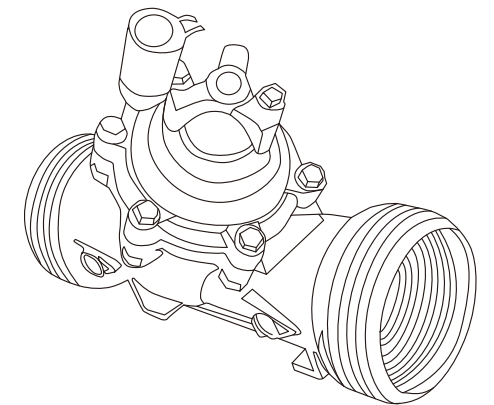


SOLENOID VALVES PRODUCT CATALOGUE



3D Show room

CONTACT XINGYU

 NO.2,Hengfeng Road,Fangqiao industry zone,
Ningbo,China

 +86-15858495285

 0086-574-88848608 / 87029557 / 87029559 / 87029561

 Leoliu@xyelectron.com
Sales7@xyelectron.com

 www.xyelectron.com



Company Profile

XINGYU ELECTRON(NINGBO) CO.,LTD.



XINGYU ELECTRON(NINGBO) CO.,LTD. is one of the key enterprises in Chinese pneumatic and valve industry. We specialize in development, manufacturing, marketing and service of pneumatic actuators, angle seat valves, solenoid valves, solenoids and DIN connectors.

Xingyu was founded in year 1990 and covers an area of 37000 m². Now we have 400 employees .Our company equips large number of CNC machines, automated assembling lines as well as other advanced equipments.

Our company is ISO9001:2008 certificated and has more than 30 national products patents; Most products are CE certificated and some are UL approved. Xingyu is the first company getting the license on Explosion proof coil production in China.

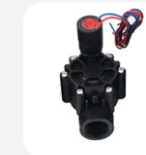
With high quality, competitive price, strict production control system and good service, our products have been selling all over the world, like UK, Germany, Russia, South Africa, India, Turkey, USA, South America, Australia, Korea and so on.

“Not to be the biggest, but to be the strongest” is our Business Goal and ideal.

We will try to make great efforts for a better future.

PRODUCT CATALOGUE

Solenoid Valve 01



XY-DB Series



XY-DH Series



XY-D Series



XY-P Series

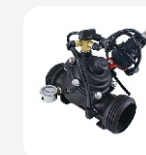


XY-PH Series



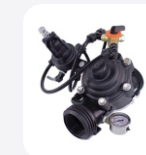
XY-BM Series

Pressure Relief Valve 07



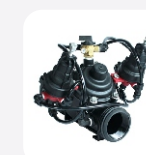
XY-X Series

Pressure Reduce Valve 08

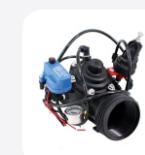


XY-T Series

Pressure Sustain& Reduce Valve 09



XY-TX Series

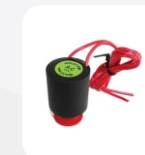


XY-TD Series

Solenoid Coil 11



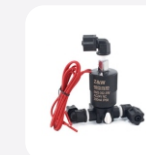
XY-RB Series



XY-BM3 Series



XY-TR6 Series



XY-BM3W Series

Wire Section 15

Installation& Application 16

XY-035DB / XY-050DB / XY-075DB
XY-100DB / XY-121DB / XY-151DB



» Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Double filtration to protect the solenoid core.
- 3. Sealing coil waterproof.
- 4. Closing slowly to prevent the water hammer.
- 5. Independent switch for easy manual overriding.

» Technical parameters

Medium	Water					
Temp	Water Temp≤53℃, Surrounding Temp≤80℃					
Application	The DB Series are widely used in garden sprinkler irrigation, landscaping, road greening, small lawn, low flow system such as green house drip irrigation.					
Pressure	1.0-10.0 Bar					
Flow	XY-035DB≤2.0m³/h, XY-050DB≤3.0m³/h XY-075DB≤5.0m³/h, XY-100DB≤9.0m³/h XY-121DB≤15.0m³/h, XY-151DB≤21.0m³/h					
Port thread	Female/ Male G BSP,NPT(customization)					
Port size	3/8" 1/2" 3/4 1" 1 1/4" 1 1/2"					
Orifice	DN10 DN15 DN20 DN25 DN32 DN40					
Voltage	AC220V/AC110V/AC24V,50~60Hz DC24V/DC12V/DC9V(customization) DC Latching					
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F The static core-----430F Springs-----SUS304 Shading coi-----Red Copper					

Model	Size(mm)		
	Length	Width	Height
XY-035DB	74	40	102
XY-050DB	76	40	104
XY-075DB	115	83	123
XY-100DB	115	84	125
XY-121DB	135	96	145
XY-151DB	136	97	156

XY-076DH / XY-101DH
XY-121DH / XY-151DH



» Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Double filtration to protect the solenoid core.
- 3. Waterproof sealing coil.
- 4. Closing slowly to prevent the water hammer.
- 5. Independent switch for easier manual overriding.
- 6. Flow control handle adjust the flow rate as needed.

» Technical parameters

Medium	Water			
Temp	Water Temp≤53℃, Surrounding Temp≤80℃			
Application	The DH Series are widely used in garden sprinkler irrigation, landscaping, road greening, small lawn, low flow system such as green house drip irrigation.			
Pressure	1.0-10.0 Bar			
Flow	XY-076DH≤5.0m³/h, XY-101DH≤9.0m³/h XY-121DH≤15.0m³/h, XY-151DH≤21.0m³/h			
Port thread	Female/ Male G BSP,NPT(customization)			
Port size	3/4" 1" 1 1/4" 1 1/2"			
Orifice	DN20 DN25 DN32 DN40			
Voltage	AC220V/AC110V/AC24V,50~60Hz DC24V/DC12V/DC9V(customization) DC Latching			
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F The static core-----430F Springs-----SUS304 Shading coi-----Red Copper			

Model	Size(mm)		
	Length	Width	Height
XY-076DH	114	83	133
XY-101DH	115	84	135
XY-121DH	135	96	156
XY-151DH	136	97	167

XY-075D / XY-100D



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Double filtration to protect the solenoid core.
- 3. Sealing coil waterproof.
- 4. Closing slowly to prevent the water hammer.
- 5. Manually on/ off the valve by turning the coil.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	Application: The D Series are widely used in garden sprinkler irrigation, landscaping, road greening, small lawn, low flow system such as green house drip irrigation.		
Pressure	1.0-10.0 Bar		
Flow	XY-075DB≤5.0m³/h, XY-100DB≤9.0m³/h		
Port thread	Female/ Male G BSP,NPT(customization)		
Port size	3/4 1"		
Orifice	DN20 DN25		
Voltage	AC220V/AC110V/AC24V,50~60Hz	DC24V/DC12V/DC9V(customization)	DC Latching
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F The static core-----430F Springs-----SUS304 Shading coi-----Red Copper		

Model	Size(mm)		
	Length	Width	Height
XY-075D	115	83	138
XY-100D	115	84	140

XY-150P / XY-200P



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Double filtration to protect the solenoid core.
- 3. Sealing coil waterproof.
- 4. Closing slowly to prevent the water hammer.
- 5. Manually on/ off the valve by turning the coil.
- 6. Flow control handle adjust the flow rate as needed.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The P Series are widely used in large area lawn irrigation system, such as large park irrigation, road greening, golf course, also used in agriculture irrigation and industrial dedusting.		
Pressure	1.0-10.0 Bar		
Flow	XY-150P≤21m³/h, XY-200P≤34m³/h		
Port thread	Female/ Male G BSP		
Port size	1 1/2" 2"		
Orifice	DN40 DN50		
Voltage	AC220V/AC110V/AC24V,50~60Hz	DC24V/DC12V/DC9V(customization)	DC Latching
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F The static core-----430F Springs-----SUS304 Shading coi-----Red Copper		

Model	Size(mm)		
	Length	Width	Height
XY-150P	169	85	202
XY-200P	198	119	252

XY-152PH / XY-202PH
XY-300PH / XY-400PH



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Double filtration to protect the solenoid core.
- 3. Sealing coil waterproof.
- 4. Closing slowly to prevent the water hammer.
- 5. Independent switch for easy manual overriding.
- 6. Flow control handle adjust the flow rate as needed.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The PH series solenoid valves are widely used in large area agricultural irrigation and water treatment systems due to their large overflow, excellent corrosion resistance and blocking resistance.		
Pressure	1.0-10.0 Bar		
Flow	XY-152PH≤26m³/h, XY-202PH≤45m³/h XY-300PH≤65m³/h, XY-400PH≤120m³/h		
Port thread	Female/ Male G BSP, Flange		
Port size	1 1/2" 2" 3" 4"		
Orifice	DN40 DN50 DN80 DN100		
Voltage	AC220V/AC110V/AC24V,50~60Hz DC24V/DC12V/DC9V(customization) DC Latching		
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F The static core-----430F Springs-----SUS304 Shading coi-----Red Copper		

Model	Size(mm)		
	Length	Width	Height
XY-152PH	160	125	169
XY-202PH	165	126	174
XY-300PH	308	160	255
XY-400PH	412	238	335

XY-201BM / XY-251BM / XY-301BM
XY-401BM / XY-501BM / XY-601BM



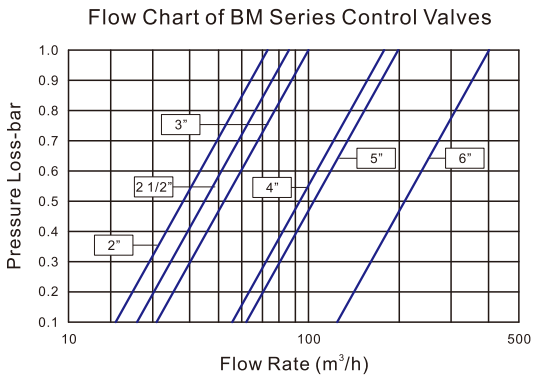
Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Double filtration to protect the solenoid core.
- 3. Waterproof sealing coil.
- 4. Closing slowly to prevent the water hammer.
- 5. Optional Internal or external loop, independent switch.
- 6. Flow control handle adjust the flow rate as needed.
- 7. Y shape valve body design support higher flow rate.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The BM Series have full size from 2"to 6", optional connection include female thread and flanges. Designed for serving on wide range of presure and flow conditions, from low flow dripping to ultra-high flow system.		
Pressure	1.0-10.0 Bar		
Flow	XY-201BM≤60m³/h, XY-251BM≤65m³/h XY-301BM≤70m³/h, XY-401BM≤120m³/h XY-501BM≤125m³/h, XY-601BM≤210m³/h		
Port thread	Female G BSP, Flange connection		
Port size	2" 2 1/2" 3" 4" 5" 6"		
Orifice	DN50 DN65 DN80 DN100 DN125 DN150		
Voltage	AC220V/AC110V/AC24V,50~60Hz DC24V/DC12V/DC9V(customization) DC Latching		
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F The static core-----430F Springs-----SUS304 Shading coi-----Red Copper		

Model	Size(mm)		
	Length	Width	Height
XY-201BM	232	135	215
XY-251BM	250	136	222
XY-301BM	299	137	230
XY-401BM	355	220	322
XY-501BM	360	233	330
XY-601BM	485	247	365



XY-121X / XY-151X / XY-201X / XY-251X
XY-301X / XY-401X / XY-501X / XY-601X



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Self pressure relief when the pressure above max.
- 3. Self pressure relief no extra energy consumption.
- 4. Accurate and stable regulating, prevent water hammer.
- 5. Manually or auto control by installing the BM3WAY.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The X Series Pressure relief valve are widely used in hill region sprinkler or drip system, also used in filtration system, industrial dust and water treatment,		
Input Pressure	1.0-10.0 Bar		
Output Pressure	0.8-6.5 Bar		
Flow	XY-121X≤12.0m³/h, XY-151X≤18.0m³/h, XY-201X≤50.0m³/h, XY-251X≤55.0m³/h, XY-301X≤60.0m³/h, XY-401X≤100.0m³/h, XY-501X≤110.0m³/h, XY-601X≤180.0m³/h		
Port thread	Female G BSP, Flange connection		
Port size	1 1/4" 1 ½" 2" 2 1/2" 3" 4" 5" 6"		
Orifice	DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150		
Voltage	AC220V/AC110V/AC24V,50~60Hz	DC24V/DC12V/DC9V(customization)	DC Latching
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM Springs-----SUS304		

Model	Size(mm)		
	Length	Width	Height
XY-121X	135	230	208
XY-151X	136	232	218
XY-201X	232	220	220
XY-251X	250	225	230
XY-301X	298	235	235
XY-401X	355	330	322
XY-501X	355	350	332
XY-601X	485	398	365

XY-121T / XY-151T / XY-201T / XY-251T
XY-301T / XY-401T / XY-501T / XY-601T



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Control outlet pressure to protect downstream equipment.
- 3. Self pressure relief no extra energy consumption.
- 4. Accurate and stable regulating, prevent water hammer.
- 5. Manually or auto control by installing the BM3WAY.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The T Series Pressure reduce valve are widely used in hill region sprinkler or drip system, also used in filtration system, industrial dust and water treatment,		
Input Pressure	1.0-10.0 Bar		
Output Pressure	0.8-6.5 Bar		
Flow	XY-121T≤12.0m³/h, XY-151T≤18.0m³/h, XY-201T≤50.0m³/h, XY-251T≤55.0m³/h, XY-301T≤60.0m³/h, XY-401T≤100.0m³/h, XY-501T≤110.0m³/h, XY-601T≤180.0m³/h		
Port thread	Female G BSP, Flange connection		
Port size	1 1/4" 1 ½" 2" 2 1/2" 3" 4" 5" 6"		
Orifice	DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150		
Voltage	AC220V/AC110V/AC24V,50~60Hz	DC24V/DC12V/DC9V(customization)	DC Latching
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM Springs-----SUS304		

Model	Size(mm)		
	Length	Width	Height
XY-121T	135	240	210
XY-151T	136	242	220
XY-201T	232	260	220
XY-251T	250	263	230
XY-301T	298	290	235
XY-401T	355	380	322
XY-501T	355	390	332
XY-601T	485	450	365

XY-121TX / XY-151TX / XY-201TX / XY-251TX
XY-301TX / XY-401TX / XY-501TX / XY-601TX



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Pressure reduce when downstream pressure above max.
- 3. Pressure relief when upstream pressure above max.
- 4. Self pressure relief no extra energy consumption.
- 5. Accurate and stable regulating, prevent water hammer.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The TX Series Pressure regulate valve are widely used in hill region sprinkler or drip system, also used in filtration system, industrial dust and water treatment.		
Input Pressure	1.0-10.0 Bar		
Output Pressure	0.8-6.5 Bar		
Flow	XY-121TX≤12.0m³/h, XY-151TX≤18.0m³/h, XY-201TX≤50.0m³/h, XY-251TX≤55.0m³/h, XY-301TX≤60.0m³/h, XY-401TX≤100.0m³/h, XY-501TX≤110.0m³/h, XY-601TX≤180.0m³/h		
Port thread	Female G BSP, Flange connection		
Port size	1 1/4" 1 ½" 2" 2 1/2" 3" 4" 5" 6"		
Orifice	DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150		
Voltage	AC220V/AC110V/AC24V,50~60Hz DC24V/DC12V/DC9V(customization) DC Latching		
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM Springs-----SUS304		

Model	Size(mm)		
	Length	Width	Height
XY-121TX	135	230	208
XY-151TX	136	232	218
XY-201TX	232	220	220
XY-251TX	250	225	230
XY-301TX	298	235	235
XY-401TX	355	330	322
XY-501TX	355	350	332
XY-601TX	485	398	365

XY-121TD / XY-151TD / XY-201TD / XY-251TD
XY-301TD / XY-401TD / XY-501TD / XY-601TD



Feature

- 1. Pilot operated diaphragm structure, nylon reinforced.
- 2. Control outlet pressure to protect downstream equipment.
- 3. Self pressure relief no extra energy consumption.
- 4. Accurate and stable regulating, prevent water hammer.
- 5. Manually or auto control by installing the BM3WAY.

Technical parameters

Medium	Water		
Temp	Water Temp≤53℃, Surrounding Temp≤80℃		
Application	The TD Series Pressure reducing solenoid valve are widely used in hill region sprinkler or drip system, filtration system, industrial dust and water treatment.		
Input Pressure	1.0-10.0 Bar		
Output Pressure	0.8-6.5 Bar		
Flow	XY-121TD≤12.0m³/h, XY-151TD≤18.0m³/h, XY-201TD≤50.0m³/h, XY-251TD≤55.0m³/h, XY-301TD≤60.0m³/h, XY-401TD≤100.0m³/h, XY-501TD≤110.0m³/h, XY-601TD≤180.0m³/h		
Port thread	Female G BSP, Flange connection		
Port size	1 1/4" 1 ½" 2" 2 1/2" 3" 4" 5" 6"		
Orifice	DN32 DN40 DN50 DN65 DN80 DN100 DN125 DN150		
Voltage	AC220V/AC110V/AC24V,50~60Hz DC24V/DC12V/DC9V(customization) DC Latching		
Material	Valve body-----Glass filled Nylon Sealed ring-----NBR/EPDM The movable core-----430F	The static core-----430F Springs-----SUS304 Shading coi-----Red Copper	

Model	Size(mm)		
	Length	Width	Height
XY-121TD	135	240	210
XY-151TD	136	242	220
XY-201TD	232	260	220
XY-251TD	250	263	230
XY-301TD	298	290	235
XY-401TD	355	380	322
XY-501TD	355	390	332
XY-601TD	485	450	365

XY-RB1.1/2.1

Electrical parameter of AC coil
XY-RB1.1/2.1



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
AC24V	1W	250mA	127mA	39Ω	Red-red
AC110V	1W	72mA	25mA	1.14KΩ	Red-orange
AC220V	1W	37mA	15mA	4.97KΩ	Red-bule

Electrical parameter of DC coil
XY-RB1.1 / XY-RB2.1-DC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
DC9V	4.3W	470mA	470mA	19Ω	Blue-blue
DC12V	4.3W	350mA	350mA	34Ω	Green-green
DC24V	4.3W	175mA	175mA	137Ω	Black-black

Electrical parameter of DC Latching coil
XY-RB2 / XY-RB2.1-DL



Voltage range	9-24VDC(latching pulse)
Capacitance required	3300μF
Coil resistance	6Ω
Coil inductance	12mH
Pulse width	20-500mSec
Wire colour	Red-black
Work Mode	+Red&-black valve core locked position(valve opening) -Red&+ black valve core unlock position(valve closing)

XY-BM3

Electrical parameter of AC coil
XY-BM3-AC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
AC24V	1W	250mA	127mA	39Ω	Red-red
AC110V	1W	72mA	25mA	1.14KΩ	Red-orange
AC220V	1W	37mA	15mA	4.97KΩ	Red-bule

Electrical parameter of DC coil
XY-BM3-DC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
DC9V	4.3W	470mA	470mA	19Ω	Blue-blue
DC12V	4.3W	350mA	350mA	34Ω	Green-green
DC24V	4.3W	175mA	175mA	137Ω	Black-black

Electrical parameter of DC Latching coil
XY-BM3-DL



Voltage range	9-24VDC(Latching pulse)
Capacitance required	3300μF
Coil resistance	6Ω
Coil inductance	12mH
Pulse width	20-500mSec
Wire colour	Red-black
Work Mode	+Red&-black valve core locked position(valve opening) -Red&+ black valve core unlock position(valve closing)

XY-TR6

Electrical parameter of AC coil
XY-TR6-AC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
AC24V	6.72W	410mA	280mA	30Ω	Red-red
AC110V	6.72W	90mA	62mA	633Ω	Red-orange
AC220V	6.72W	45mA	31mA	2.5KΩ	Red-bule

Electrical parameter of DC coil
XY-TR6-DC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
DC9V	5.76W	650mA	650mA	13.8Ω	Blue-blue
DC12V	5.76W	470mA	470mA	25.6Ω	Green-green
DC24V	5.76W	240mA	240mA	102Ω	Black-black

Electrical parameter of DC Latching coil
XY-TR6-DL



Voltage range	9-24VDC(latching pulse)
Capacitance required	3300μF
Coil resistance	9.3Ω
Coil inductance	12mH
Pulse width	20-500mSec
Wire colour	Red-black
Work Mode	+Red&-black valve core locked position(valve opening) -Red&+ black valve core unlock position(valve closing)

XY-BM3W

Electrical parameter of AC coil
XY-BM3W-AC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
AC24V	1W	250mA	127mA	39Ω	Red-red
AC110V	1W	72mA	25mA	1.14KΩ	Red-orange
AC220V	1W	37mA	15mA	4.97KΩ	Red-bule

Electrical parameter of DC coil
XY-BM3W-DC



Voltage	Power	Starting Current	Holding Current	Resistance (20℃)	Wire Colour
DC9V	4.3W	470mA	470mA	19Ω	Blue-blue
DC12V	4.3W	350mA	350mA	34Ω	Green-green
DC24V	4.3W	175mA	175mA	137Ω	Black-black

Electrical parameter of DC Latching coil
XY-BM3W-DL



Voltage range	9-24VDC(Latching pulse)
Capacitance required	3300μF
Coil resistance	6Ω
Coil inductance	12mH
Pulse width	20-500mSec
Wire colour	Red-black
Work Mode	+Red&-black valve core locked position(valve opening) -Red&+ black valve core unlock position(valve closing)

Wire selection in controller system.

- 1.Once station connect with one solenoid valve. Choose the longest distance from the controller.
- 2.Reference the list, choose the size of wire by the longest distance, for example, the longest distance is 1000m, select the common wire size 4.0mm², control wire size 2.5mm².
- 3.Common wire size ≥ control wire size.

Common ground wire	Control wire						
	0.5	1	1.5	2.5	4	6	10
0.5	180	240	250	300	310	320	320
1	240	370	400	520	550	570	600
1.5	250	400	500	620	730	800	870
2.5	300	520	620	910	1120	1290	1330
4	310	550	730	1120	1500	1780	1900
6	320	570	800	1290	1780	2220	2500
10	320	600	870	1330	1900	2500	3330

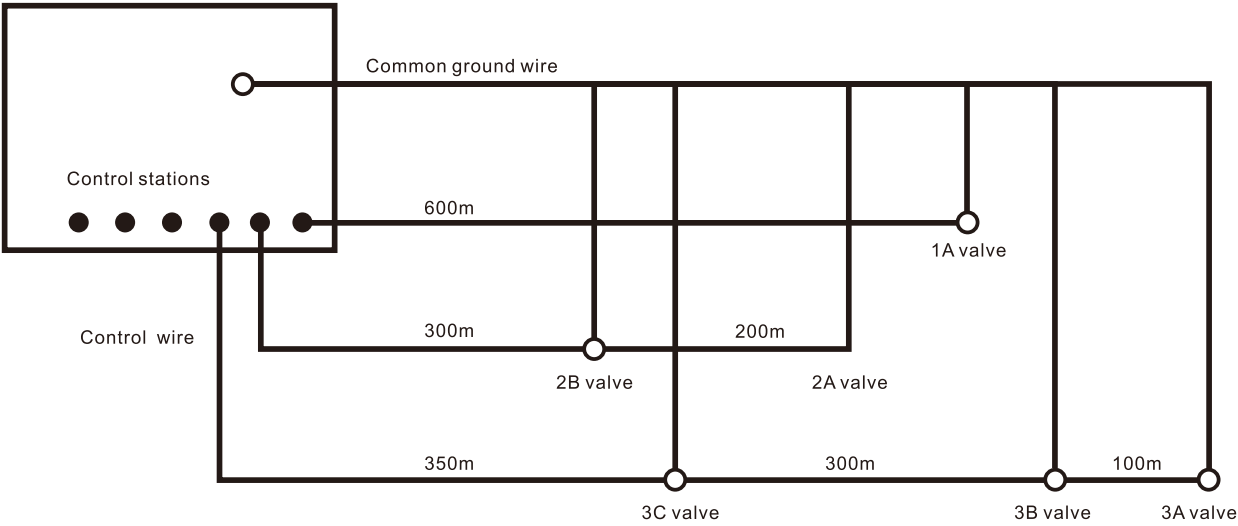
When one station connect with many valves, calculate the equivalent circuit length:

Station#1: Only valve, so the Equiv. Length = Actual Length 600m

Station#2: Equiv. Length=(1valveX200m)+(2vlavesX300m)=800m

Station#3: Equiv. Length=(1valveX100m)+(2valvesX300m)+(3valvesX350m)=1750m

Refer the above table, select the wire size, for example, station#3, select common ground wire at 6mm²,select control wire at 4mm².



Note: The black line is the public line.

