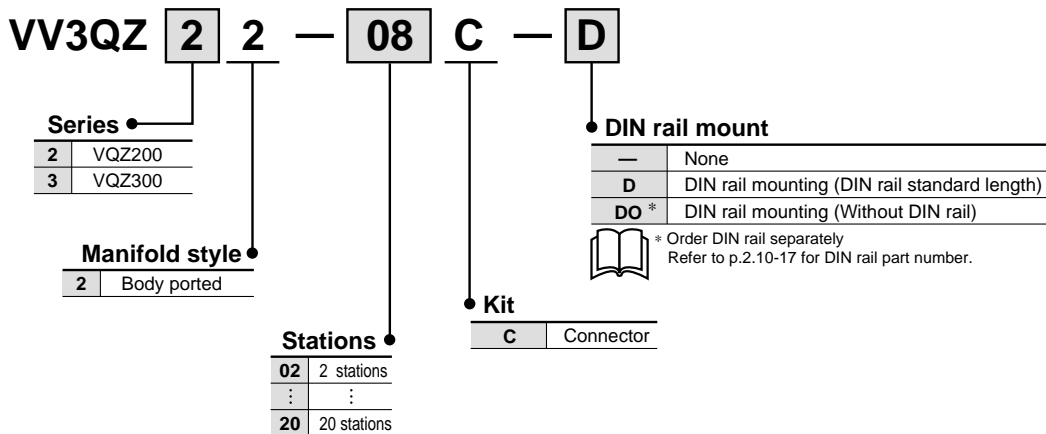
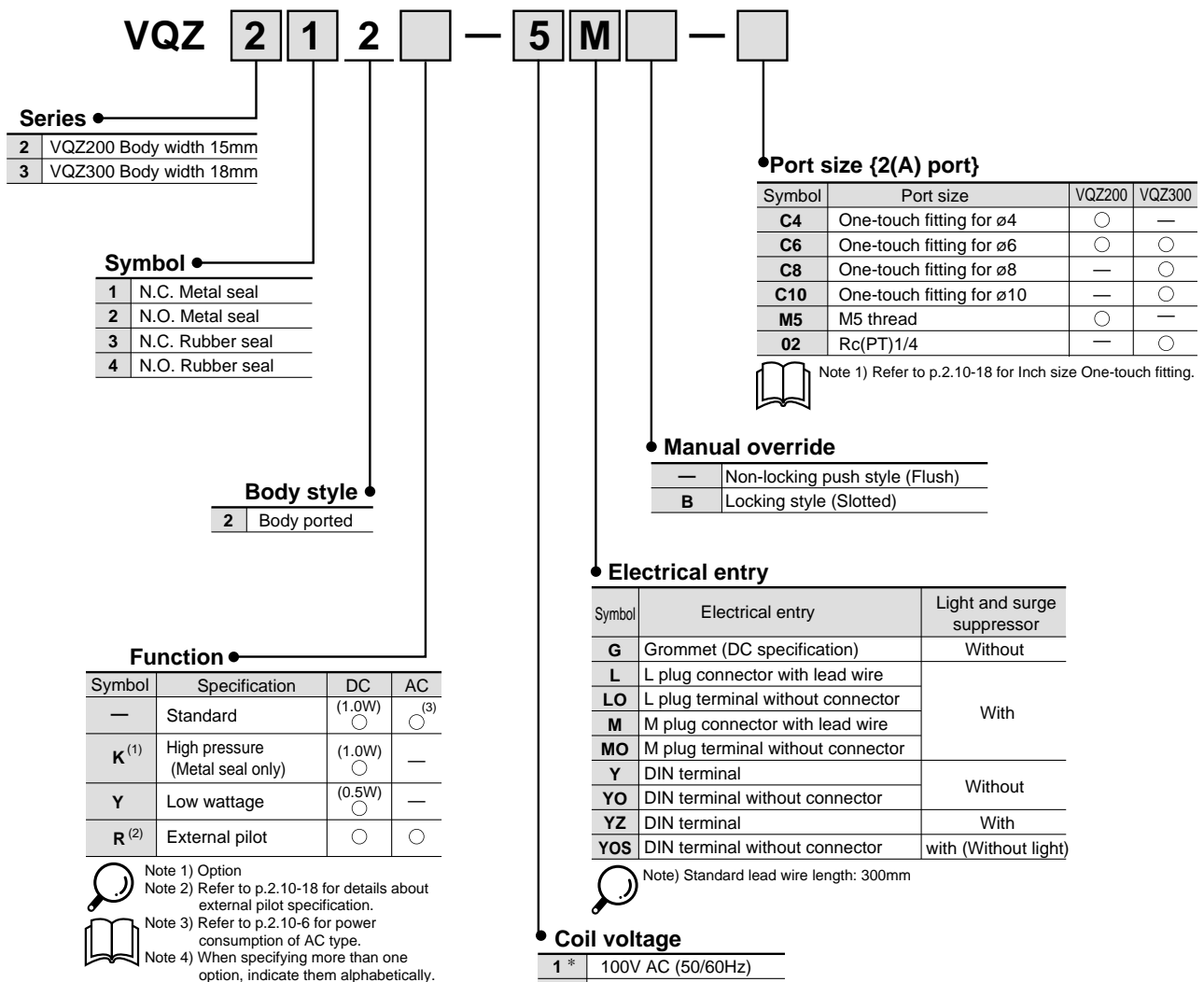


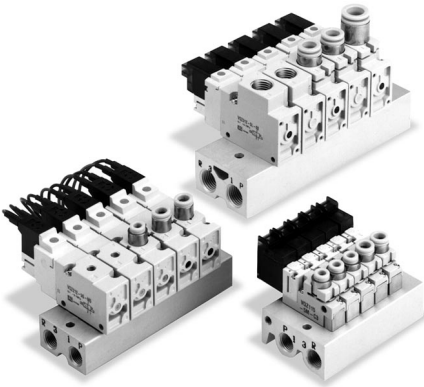
How to Order Manifold VQZ200/300



How to Order Valve VQZ200/300



Manifold Specifications



Series	Base model	Piping specification		Applicable valve	Applicable stations	Manifold base weight (g)	
		Piping	Port size				
			1(P), 3(R)	2(A)			
VQZ100	VV3QZ12-□□□	Top	Rc(PT) 1/8	C3 (for ø3.2) C4 (for ø4) C6 (for ø6) M5 (M5 thread)	VQZ115	2 to 20	2 stations: 83 Additional station: 19
VQZ200	VV3QZ22-□□□	Top	Rc(PT) 1/8	C4 (for ø4) C6 (for ø6) M5 (M5 thread)	VQZ2□2	2 to 20	2 stations: 68 Additional station: 20
VQZ300	VV3QZ32-□□□	Top	Rc(PT) 1/4	C6 (for ø6) C8 (for ø8) C10 (for ø10) Rc(PT) 1/4	VQZ3□2	2 to 20	2 stations: 114 Additional station: 37

- SY
- SYJ
- VK
- VZ
- VT
- VT
- VP
- VG
- VP
- VQ
- VQZ
- VZ
- VS

How to Order Manifold Assembly (Example)

VV3QZ22-05C 1 set (C kit 5 stations manifold base)

- * **VVQZ200-10A-2** ... 1 set (Blank plate assembly)
- * **VQZ212-5M-C6** ... 4 sets (N.C. style)

→ Prefix "*" mark to valves etc. to be assembled on the manifold.

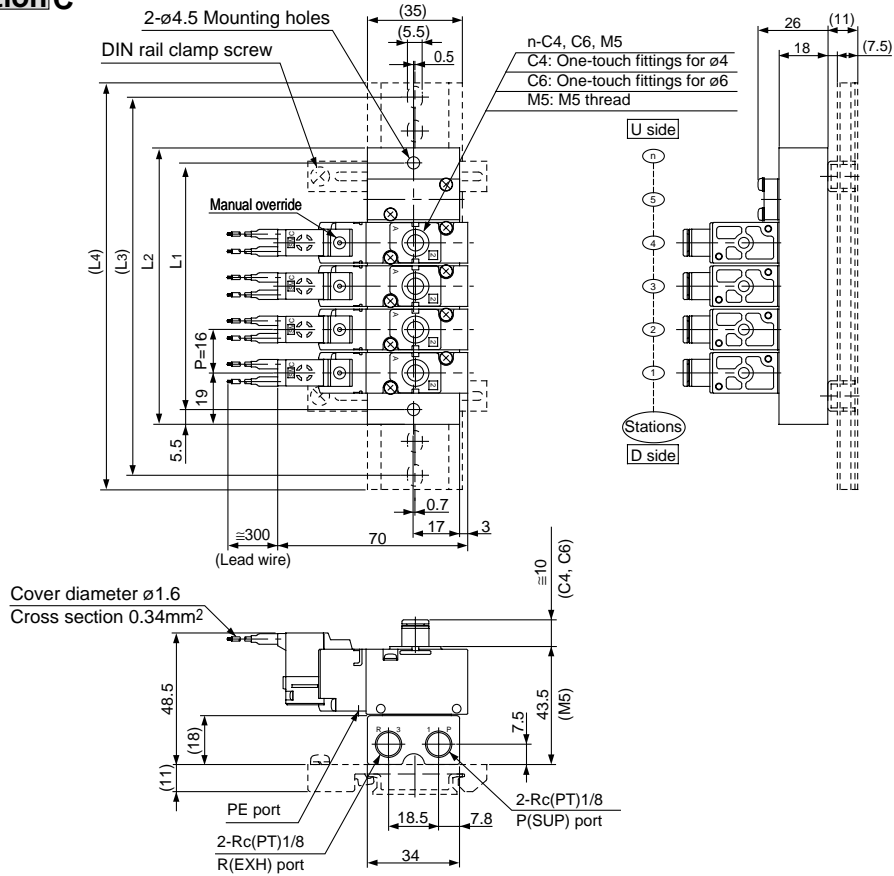
→ Write sequentially from station 1 on the D side.

Add the suffix valve and option part numbers to the manifold base number.
Part numbers written collectively can be complicated, thus specify by using a manifold specification form.

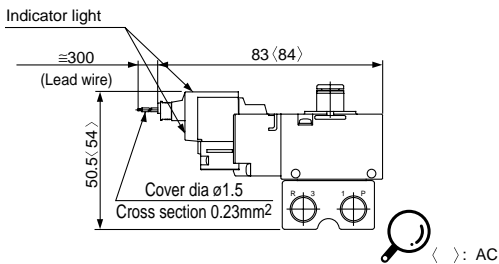
Dimensions: VQZ200

VV3QZ22-Station C

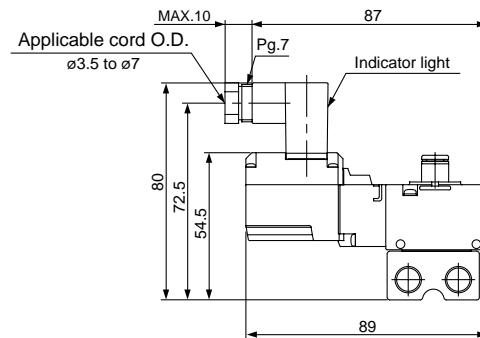
Grommet (G)



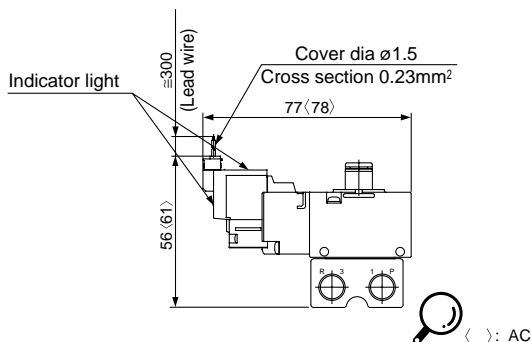
L plug connector (L)



DIN terminal (Y)



M plug connector (M)



Dimensions

Equation $L1=16n+11$ $L2=16n+22$

n: Station (Max. 20)

L \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	43	59	75	91	107	123	139	155	171	187	203	219	235	251	267	283	299	315	331
L2	54	70	86	102	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342
L3	75	100	112.5	125	137.5	162.5	175	187.5	212.5	225	237.5	250	275	287.5	300	325	337.5	350	362.5
L4	85.5	110.5	123	135.5	148	173	185.5	198	223	235.5	248	260.5	285.5	298	310.5	335.5	348	360.5	373

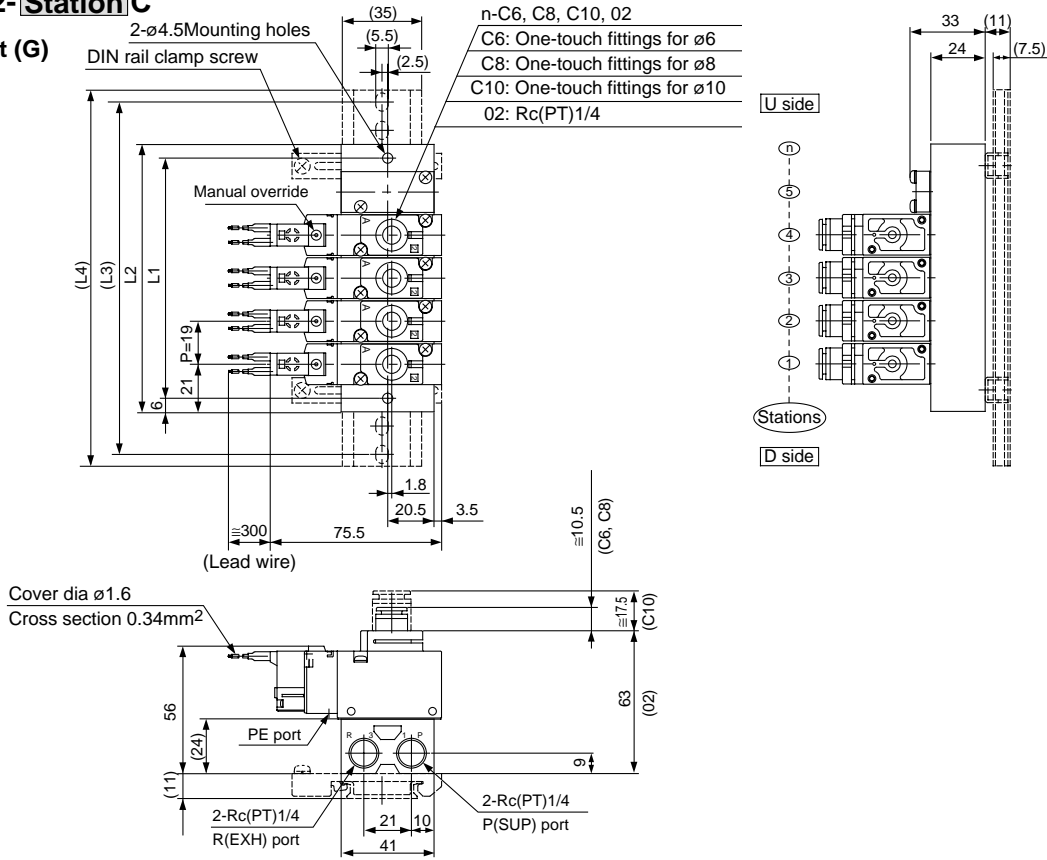
- SY
- SYJ
- VK
- VZ
- VT
- VT
- VP
- VG
- VP
- VQ
- VQZ**
- VZ
- VS

VQZ100/200/300 Body Ported

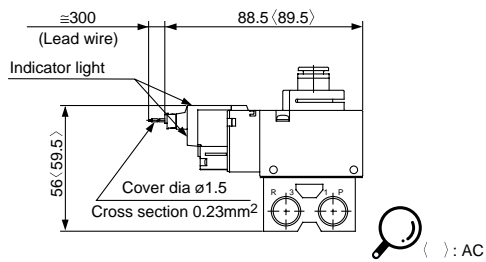
VQZ300

VV3QZ32-Station C

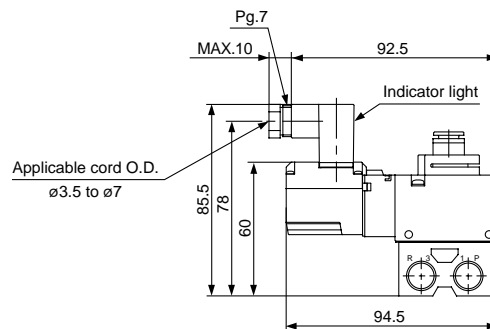
Grommet (G)



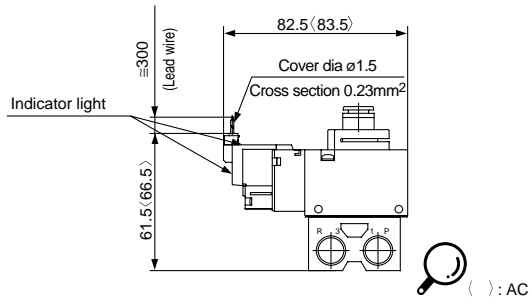
L plug connector (L)



DIN terminal (Y)



M plug connector (M)



Dimensions Equation $L1=19n+11$ $L2=19n+23$

n: Station (Max. 20)

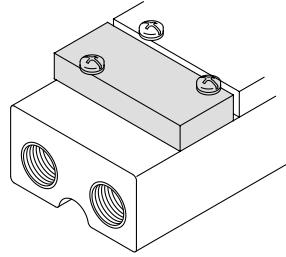
L \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391
L2	61	80	99	118	137	156	175	194	213	232	251	270	289	308	327	346	365	384	403
L3	87.5	100	125	137.5	162.5	187.5	200	225	237.5	262.5	275	300	312.5	337.5	350	375	387.5	412.5	425
L4	98	110.5	135.5	148	173	198	210.5	235.5	248	273	285.5	310.5	323	348	360.5	385.5	398	423	435.5

Manifold Options

Blank plate

VVQZ100-10A-2
VVQZ200-10A-2
VVQZ300-10A-2

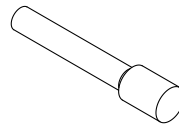
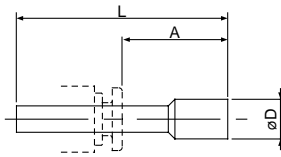
This is used when removing the valve for maintenance, or reserving a valve mounting space on the manifold for future use.



Blank plug

KQP-23-X19
KQP-04-X19
KQP-06-X19
KQP-08-X19
KQP-10-X19

● Color: White



Dimensions

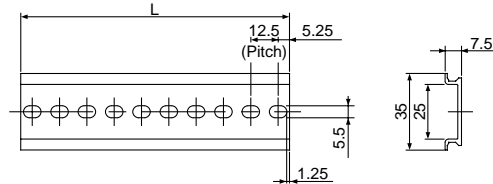
One-touch fitting ød	Part No.	A	L	D
3.2	KQP-23-X19	16	31.5	3.2
4	KQP-04-X19	16	32	6
6	KQP-06-X19	18	35	8
8	KQP-08-X19	20.5	39	10
10	KQP-10-X19	22	43	12

DIN rail

AXT100-DR-□

* Enter suffix number into □ from the table below.
Refer to the manifold dimensions for the L dimension.

To order a manifold with DIN rail already attached, insert "D" at the end of the manifold part number.
The DIN rail is approximately 30mm longer than the length of manifold.



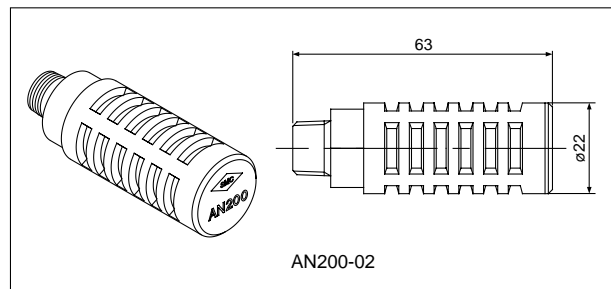
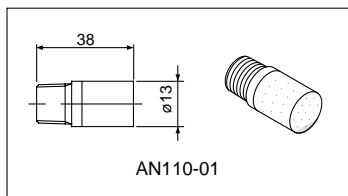
L dimension

$$L = 12.5n + 10.5$$

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
L	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5

EXH port silencer

Silencer is installed in the EXH port.



Dimensions

Model	Silencer P/N
VQZ100	AN110-01
VQZ200	AN110-01
VQZ300	AN200-02

SY

SYJ

VK

VZ

VT

VT

VP

VG

VP

VQ

VQZ

VZ

VS

Series VQZ Body Ported Option

External Pilot Specification

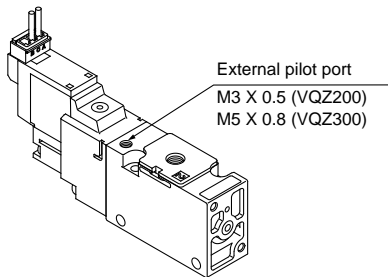
The external pilot specification is used when the operating pressure is below the minimum operating pressure 0.1 to 0.2MPa or when valve is used for a vacuum application.

For the external pilot valve, an "R" should be attached to the valve and the manifold part number.

Example/Valve

VQZ212R — 5M — C6

External pilot specification



Pressure specifications

Series		VQZ100 ⁽²⁾	VQZ200, VQZ300
External pilot pressure range	Metal seal	—	0.1 to 0.7MPa
	Rubber seal (1) (VQZ100: Poppet)	0.2 to 0.7MPa	0.15 to 0.7MPa
Operating press. range (1)		Vacuum to 0.7MPa	



Note 1) In case of the high pressure style, the upper limit of max. operating pressure and external pressure range is 1MPa.

Note 2) If VQZ100 is applied in vacuum, vacuum from P port. When finishing the vacuum application, supply pressure from R port. Make sure that the supply pressure is less than half of the external pilot pressure.

Inch Size One-touch Fittings and Optional Thread

Manifolds are available with inch size one-touch fittings and NPT, NPTF or PF type threads.

How to Order Valve

VQZ212 — 5M — N7 T

Thread
(Cylinder ports,
and P/R ports)

—	Rc(PT)
N	NPT
T	NPTF
F	G(PF)

Note) R port of VQZ200 is only PF 1/16

Cylinder ports

Symbol	N1	N3	N7	N9	N11	M5	O2
Tube O.D. (Inch)	ø1/8"	ø5/32"	ø1/4"	ø5/16"	ø3/8"	M5	1/4
A, B port	VQZ 100	●	●	—	—	●	—
	VQZ 200	—	●	●	—	●	—
	VQZ 300	—	—	●	●	●	●



Note) Millimeter size One-touch fittings (C□) are also available.

How to Order Manifold

VV3QZ22 — 05C — 00T

Thread
(P/R port)

—	Rc(PT)
00N	NPT
00T	NPTF
00F	G(PF)

Dust Tight/Jet Proof (IP65)

Optional IP65 model is available on valves with DIN connector electrical entry.

How to Order Valve

(Applicable to VQZ200/300 rubber seal style only)

VQZ332 — 5YZB W — 02

IP65 rated

—	No (standard)
W ⁽¹⁾	IP65 rated



Note 1) The pilot exhaust of the IP65 valves is common with main valve exhaust. (The standard valve has an individual exhaust for the pilot valve.)

Replacement Parts

One-touch Fitting Assembly (For cylinder port)

Fitting size	C3	C4	C6	C8	C10	M5 (VQZ100 only)
Series						
VQZ100, 200	VVQ1000-50A-C3	VVQ1000-50A-C4	VVQ1000-50A-C6	—	—	VVQ1000-50A-M5
VQZ300	—	—	VVQ1000-51A-C6	VVQ1000-51A-C8	VVQ1000-51A-C10	—

Note) Orders accepted in 10 pcs. units.

Plug connector assembly

DC (+COM)

• Single

AXT661-14A-□

• Latching

AXT661-13A-□

DC (-COM)

• Latching

AXT661-13AN-□

100V, 110V AC

• Single

AXT661-31A-□

• Latching

AXT661-32A-□

200V, 220V AC

• Single

AXT661-34A-□

• Latching

AXT661-35A-□

Only connector and sockets (3 pcs.)

AXT661-12A

Lead wire length

—	300mm
6	600mm
10	1000mm
20	2000mm
30	3000mm

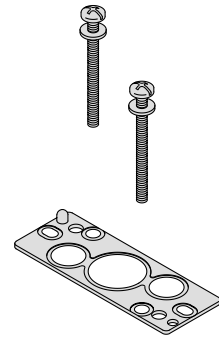
Standard wire length of valve with plug connector is 300mm.

When requiring valve with 600mm length lead wire specify the model number of valve without plug connector and the plug connector assembly.

Gasket and screw assembly

	Part No.
VQZ100	VQZ100-GS-2
VQZ200	VQZ200-GS-2
VQZ300	VQZ300-GS-2

Note) Above part number consists of a 10 pcs. units with one gasket and two screws. Orders are accepted in 10 pcs. units.



Pilot valve assembly

VQ11 1 □ — 5 G

Series

0	VQZ100
1	VQZ200, 300

Function

Symbol	Specification	DC	AC
—	Standard	(1.0W) ○	○
K ⁽¹⁾	High pressure (Metal seal only)	(1.0W) ○	—
Y	Low wattage	(0.5W) ○	—
L ⁽³⁾	Latching	(1.0W) ○	○

Note 1) Option
 Note 2) When specifying more than one option, please indicate them alphabetically.
 Note 3) K (High pressure) and Y (Low wattage) are not available.
 Electrical entry: L/M plug connector only.

Coil voltage

1*	100V AC (50/60Hz)
2*	200V AC (50/60Hz)
3*	110V AC (50/60Hz)
4*	220V AC (50/60Hz)
5	24V DC
6	12V DC
9*	Others

* Consult SMC when requiring grommet of AC specification and others.

Electric entry

Symbol	Electrical entry	Light and surge voltage suppressor
G	Grommet (DC specification)	Without
L	L plug connector with lead wire	With
LO	L plug terminal without connector	
M	M plug connector with lead wire	
MO	M plug terminal without connector	Without
Y ⁽¹⁾	DIN terminal	
YO ⁽¹⁾	DIN terminal without connector	
YZ ⁽¹⁾	DIN terminal	With
YOS ⁽¹⁾	DIN terminal without connector	With (Without light)

Note 1) DIN is applicable to VQZ 200 and 300.
 Note 2) Electrical entry of pilot valve for VQZ100 (L and M) is opposite side of valve body part number.

Valve style	Pilot valve style
VQZ115□-□L□	VQ110□-□M□
VQZ115□-□M□	VQ110□-□L□

SY

SYJ

VK

VZ

VT

VT

VP

VG

VP

VQ

VQZ

VZ

VS