

VQZ200/300 / How to Order Manifold



Made to Order
(For details, refer to page 34.)

VV3QZ **2** **5** - **08** **C6** **C** - **□** - **□**

Series

2	VQZ200
3	VQZ300

Manifold type

5	Base mounted
---	--------------

Stations

02	2 stations
⋮	⋮
20	20 stations

Port size [2(A) port]

Symbol	Port size	VQZ200	VQZ300
C4	ø4 one-touch fitting	○	—
C6	ø6 one-touch fitting	○	○
C8	ø8 one-touch fitting	○	○
C10	ø10 one-touch fitting	—	○
01	Rc 1/8	○	—
02	Rc 1/4	—	○
CM ^{Note 1)}	Mixed port sizes	○	○

CE compliant

Nil	—
Q	CE marked

Option

Nil	None
D	DIN rail mounting (With standard DIN rail length)
D0 ^{Note)}	DIN rail mounting (Without DIN rail)
R	External pilot type

Kit type

C	Connector
---	-----------

Note 1) Specify port mixture/with port plug by means of the manifold specification sheet. Port mixture and port plug are available only for one-touch fitting type.
Note 2) For inch size one-touch fittings, refer to page 32.

VQZ200/300 / How to Order Valve

VQZ **2** **1** **5** **□** - **5** **M** **□** **□** **1** - **□**

Series

2	VQZ200 body width 15 mm
3	VQZ300 body width 18 mm

Type of actuation

1	N.C. Metal seal
2	N.O. Metal seal
3	N.C. Rubber seal
4	N.O. Rubber seal

Body type

5	Base mouned
---	-------------

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○ ^{Note 3)}	○
B ^{Note 1)}	High speed response type	(0.9 W) ○	—
K ^{Note 1)}	High pressure type (Metal seal type only)	(0.9 W) ○	—
R ^{Note 1, 2)}	External pilot type	○	○
BR ^{Note 1, 2)}	High speed response/External pilot type	(0.9 W) ○	—
KR ^{Note 1, 2)}	High pressure/External pilot type (Metal seal type only)	(0.9 W) ○	—

CE compliant

Nil	—
Q	CE marked

IP65 compliant

Nil	—
W ^{Note)}	Compliant

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

Electrical entry

Symbol	Electrical entry	Light/surge voltage suppressor
G	Grommet (DC specification)	None
L	L-type plug connector with lead wire	Yes
LO	L-type plug connector without connector	
M	M-type plug connector with lead wire	
MO	M-type plug connector without connector	None
Y	DIN terminal	
YO	DIN terminal without connector	
YZ	DIN terminal	Yes
YS ^{Note 2)}	DIN terminal (DC specification)	Yes
YOS ^{Note 2)}	DIN terminal without connector (DC specification)	(Without light)

Coil voltage

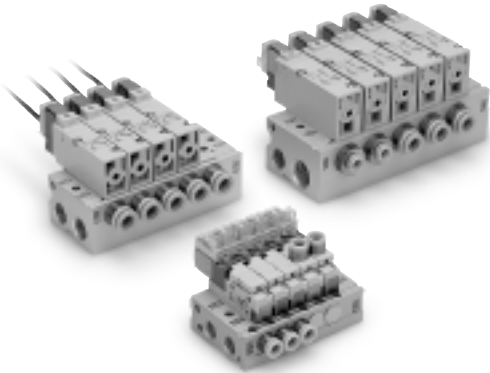
1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Note 1) Option
Note 2) For details on external pilot type, refer to page 32.
Note 3) For AC specification power consumption, refer to page 19.




Caution
Use standard (DC) specification for continuous duty.

Manifold Specifications



Series	Base model	Piping specifications			Applicable solenoid valve	Applicable stations	Manifold base weight (g) ^(Note)
		Piping direction	Port size				
			1(P), 3(R)	2(A)			
VQZ100	VV3QZ15-□□□	Side/Top	Rc 1/8	C3 (for ø3.2) C4 (for ø4) C6 (for ø6) M5 (M5 thread)	VQZ115	2 to 20 stations	2 stations: 83 Addition per station: 19
VQZ200	VV3QZ25-□□□	Side	Rc 1/4	C4 (for ø4) C6 (for ø6) C8 (for ø8) Rc 1/8	VQZ2□5	2 to 20 stations	2 stations: 126 Addition per station: 38
VQZ300	VV3QZ35-□□□	Side	1(P) port Rc 3/8 3(R) port Rc 1/4	C6 (for ø6) C8 (for ø8) C10 (for ø10) Rc 1/4	VQZ3□5	2 to 20 stations	2 stations: 209 Addition per station: 60

 Note) Weight for threaded connection.

How to Order Manifold Assembly (Example)

VV3QZ25-05C6C 1 set (C kit 5-station manifold base part no.)

- * **VVQZ200-10A-5** ... 1 set (Blanking plate assembly part no.)
- * **VQZ215-5L1** 4 sets (N.C. type part no.)

→ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

→ Enter in order starting from the first station on the D side.

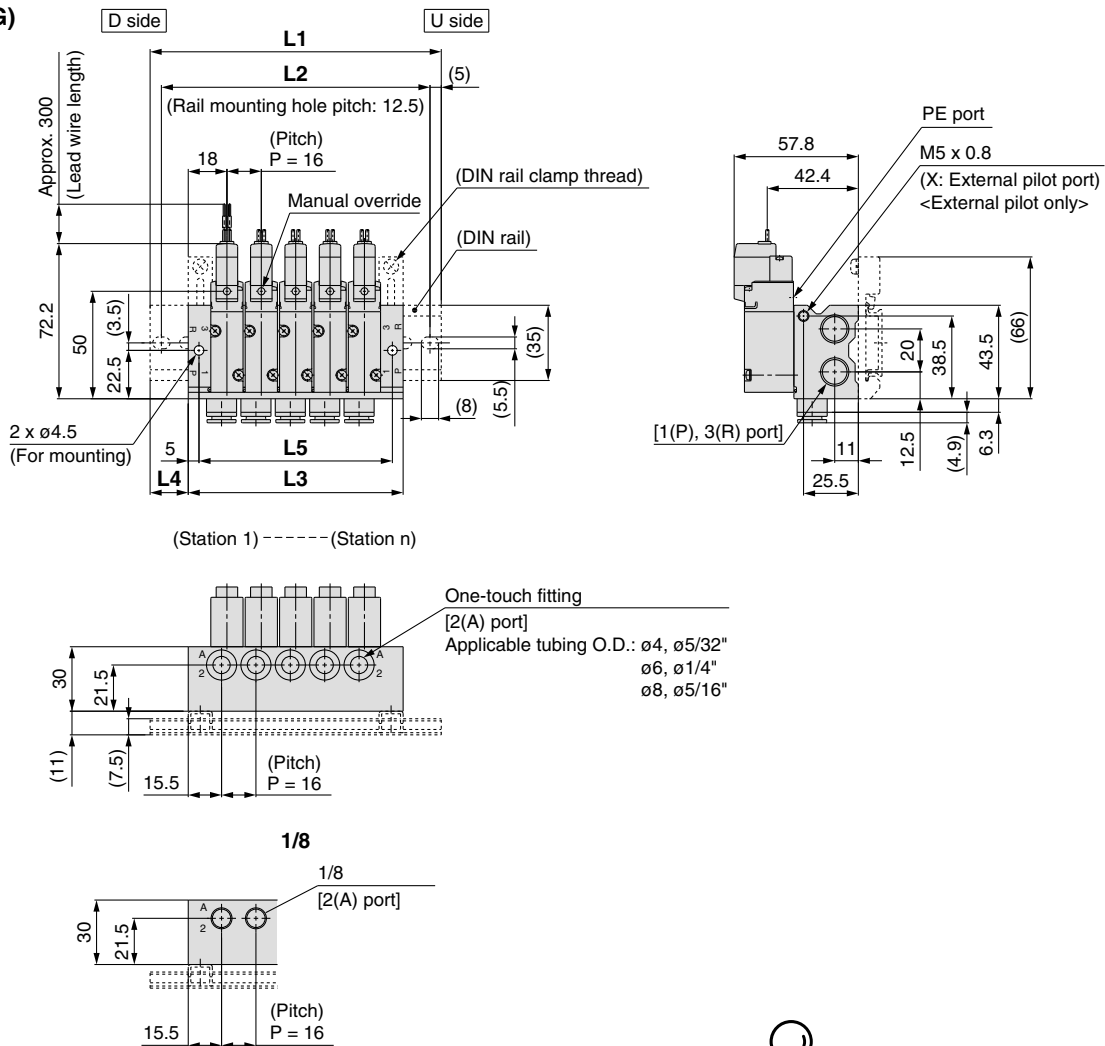
Add the valve and option part number under the manifold base part number.
When entry of part numbers becomes complicated, indicate by the manifold specification sheet.

Series VQZ100/200/300

Dimensions: VQZ200

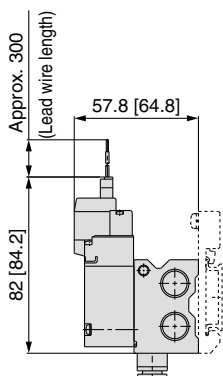
VV3QZ25- Stations Port size C

Grommet (G)



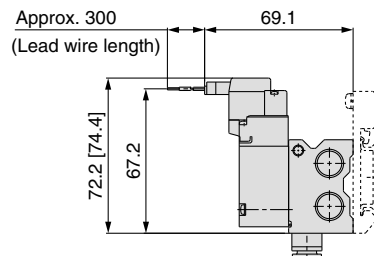
The dashed lines indicate the DIN rail mounting [-D].

L-type plug connector (L)



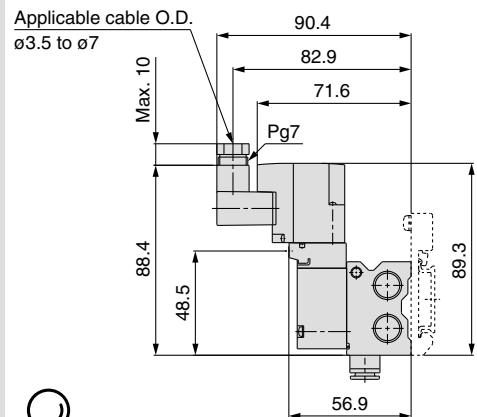
Unless otherwise indicated, dimensions are the same as Grommet (G).
 []: AC

M-type plug connector (M)



Unless otherwise indicated, dimensions are the same as Grommet (G).
 []: AC

DIN terminal (Y)



Unless otherwise indicated, dimensions are the same as Grommet (G).

Dimensions

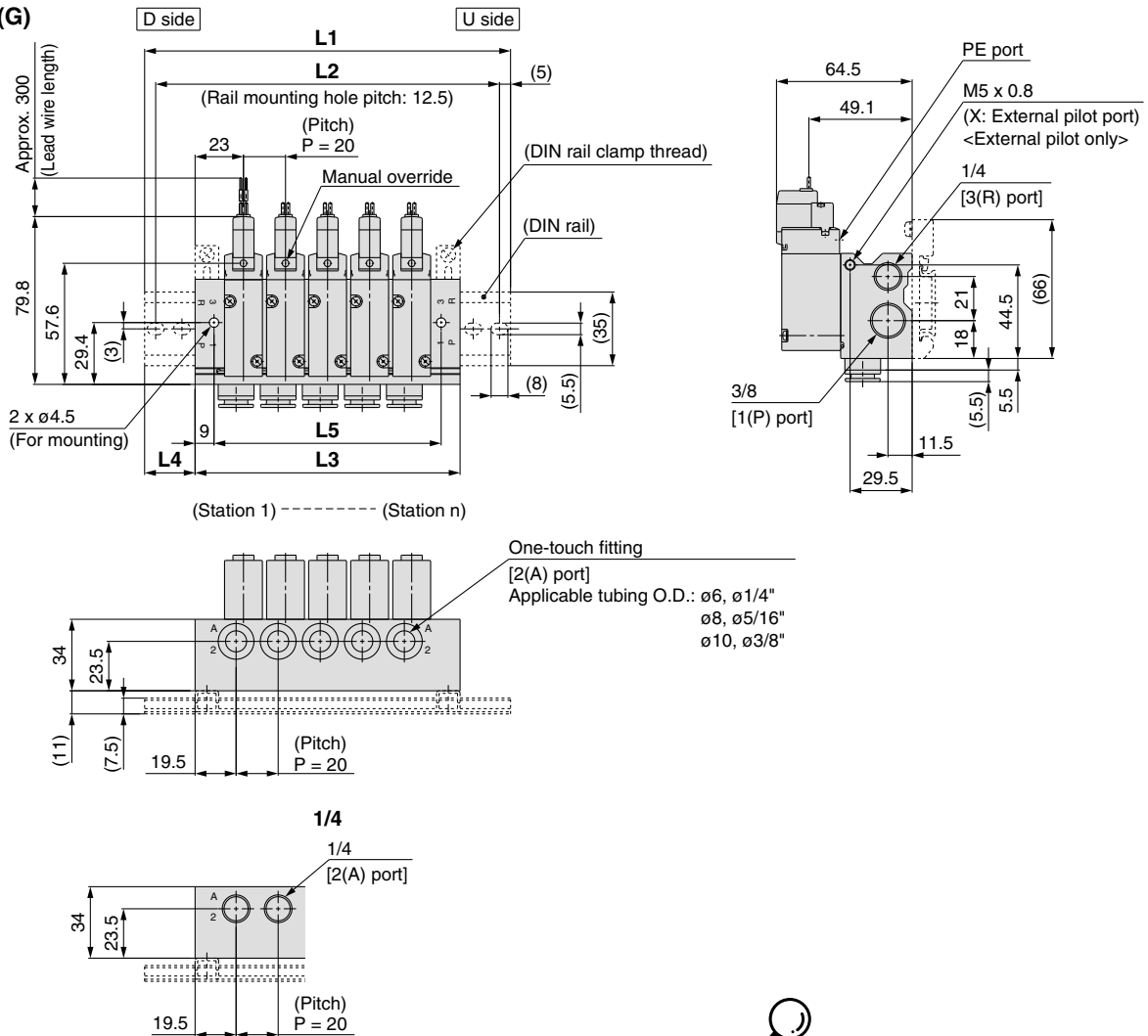
Formula: L5 = 16n + 10 L3 = 16n + 20 n: Stations (Max. 20 stations)

L \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	85.5	98	123	135.5	148	173	185.5	198	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373
L2	75	87.5	112.5	125	137.5	162.5	175	187.5	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5
L3	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
L4	17	15	19.5	18	16	20.5	19	17	15.5	20	18	16.5	21	19	17.5	15.5	20	18.5	16.5
L5	42	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330

Dimensions: VQZ300

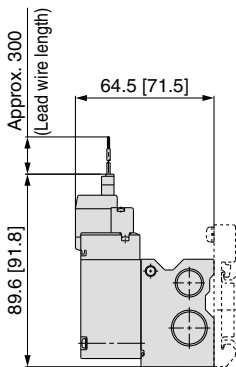
VV3QZ35- Stations Port size C

Grommet (G)



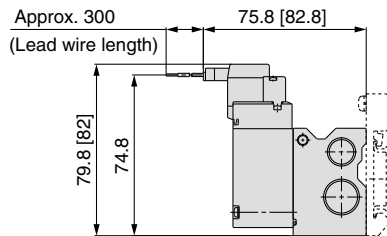
The dashed lines indicate the DIN rail mounting [-D].

L-type plug connector (L)



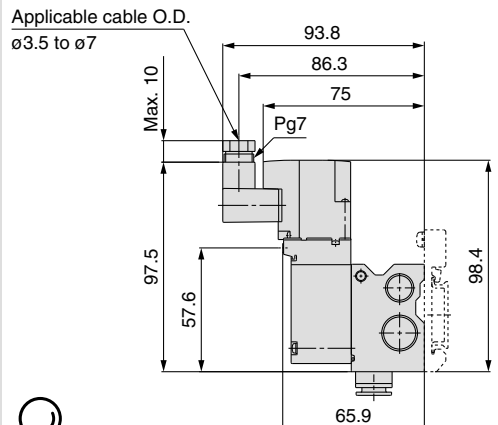
Unless otherwise indicated, dimensions are the same as Grommet (G).
[] : AC

M-type plug connector (M)



Unless otherwise indicated, dimensions are the same as Grommet (G).
[] : AC

DIN terminal (Y)



Unless otherwise indicated, dimensions are the same as Grommet (G).

Dimensions

Formula: L5 = 20n + 8 L3 = 20n + 26 n: Stations (Max. 20 stations)

L \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	98	123	148	160.5	185.5	198	223	248	260.5	285.5	298	323	348	360.5	385.5	398	423	448	460.5
L2	87.5	112.5	137.5	150	175	187.5	212.5	237.5	250	275	287.5	312.5	337.5	350	375	387.5	412.5	437.5	450
L3	66	86	106	126	146	166	186	206	226	246	266	286	306	326	346	366	386	406	426
L4	16	18.5	21	17.5	20	16	18.5	21	17.5	20	16	18.5	21	17.5	20	16	18.5	21	17.5
L5	48	68	88	108	128	148	168	188	208	228	248	268	288	308	328	348	368	388	408

Series VQZ100/200/300

Manifold Options

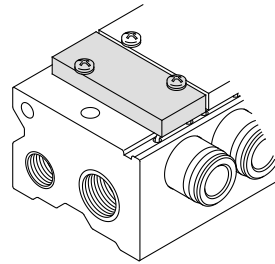
Blanking plate assembly

VVQZ100-10A-5 (for VQZ100)

VVQZ200-10A-5 (for VQZ200)

VVQZ300-10A-5 (for VQZ300)

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



Blanking plug

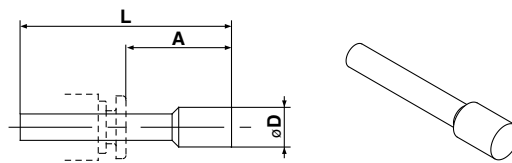
KQ2P-23

KQ2P-04

KQ2P-06

KQ2P-08

KQ2P-10



Dimensions

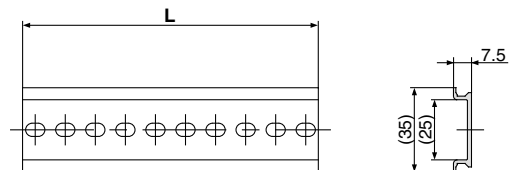
Applicable fitting size ød	Model	A	L	D
3.2	KQ2P-23	16	31.5	3.2
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12

DIN rail

AXT100-DR-□

* As for □, enter the number from the DIN rail dimensions table.
For L dimension, refer to the dimensions of each kit.

Each manifold can be mounted on a DIN rail.
Insert "D" at the end of the manifold part number.
The DIN rail is approximately 30 mm longer than the length of manifold.



L Dimension

$$L = 12.5n + 10.5$$

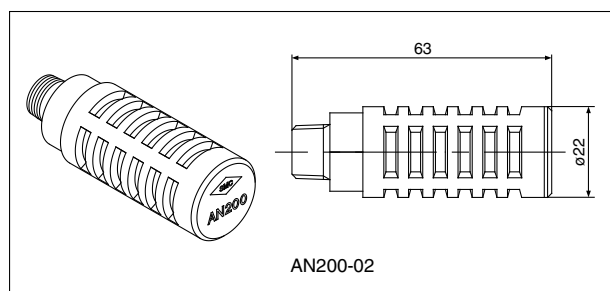
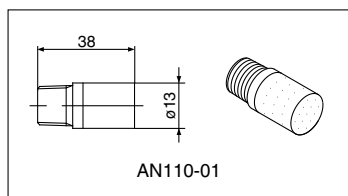
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5

No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
L dimension	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

Silencer

(for manifold EXH port)

Silencer is installed in the manifold EXH port.



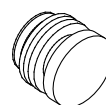
Dimensions

Model	Silencer part no.
VQZ100	AN110-01
VQZ200	AN200-02
VQZ300	AN200-02

Port plug

VVQZ100-CP (for VQZ100)

This is used when changing piping location. (Side or Top)



Series VQZ Base Mounted

Options

External Pilot Specification

The external pilot specification is used when the operating pressure is below the minimum operating pressure 0.1 to 0.15 MPa or when valve is used for a vacuum application. Order a valve by adding the external pilot specification [R] to the part number.

Valve Part No.

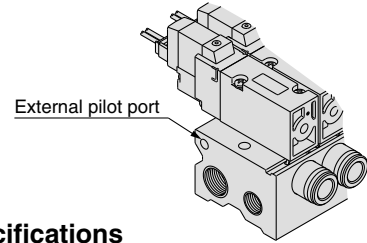


• Entry is the same as standard products.

Manifold Part No.



• Entry is the same as standard products.



Pressure Specifications

Series		VQZ100 ^{Note 2)}	VQZ200/300
External pilot pressure range ^{Note 1)}	Metal seal	—	0.1 to 0.7 MPa
	Rubber seal (VQZ100: poppet)	0.2 to 0.7 MPa	0.15 to 0.7 MPa
Operating pressure range ^{Note 1)}		-100 kPa to 0.7 MPa	

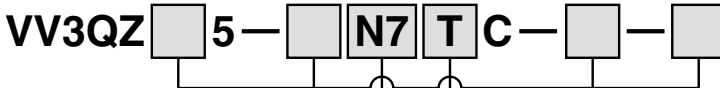
Note 1) In case of the high pressure type, upper limit of max. operating pressure and external pilot pressure range is 1 MPa.

Note 2) When using the VQZ100 series for a vacuum application, vacuum air through its 1(P) port. When supplying vacuum-release air, supply it through its 3(R) port. But do not supply vacuum-release air exceeding 50% for the external pilot pressure.

Inch Size One-touch Fittings and Optional Threads

Inch size one-touch fittings and NPT, NPTF and G thread are available.

Manifold Part No.



• Entry is the same as standard products.

• Cylinder port

• Thread type (Cylinder port and 1(P), 3(R) ports)

Symbol	N1	N3	N7	N9	N11	NM ^{Note 1)}	M5	O1	O2
Applicable tubing O.D.	ø1/8"	ø5/32"	ø1/4"	ø5/16"	ø3/8"	Mixed	M5 thread	1/8 thread	1/4 thread
Cylinder port	VQZ100	●	●	●	—	—	●	—	—
	VQZ200	—	●	●	●	—	—	●	—
	VQZ300	—	—	●	●	●	—	—	●

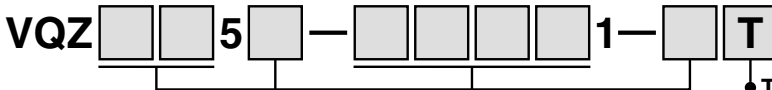
Nil	Rc
N	NPT
T	NPTF
F	G

Note 1) Except VQZ100, mixing one-touch fittings and thread types is impossible.
Note 2) Metric size one-touch fittings (C□) are also available.

Optional Threads Other than Rc

Rc specifications are standard for all ports, however, NPT, NPTF and G are available for overseas markets. Add the appropriate symbol following the port size in the standard part number.

Valve Part No.



• Entry is the same as standard products.

• Thread type (Cylinder port and 1(P), 3(R) ports of sub-plate)

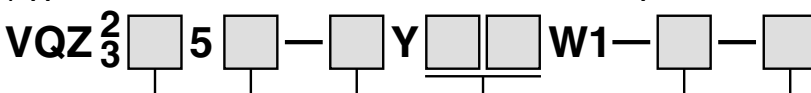
Nil	Rc
N	NPT
T	NPTF
F	G

IP65 Enclosure (Based on IEC529)

DIN terminal is available with IP65 enclosure.

Valve Part No.

(Applicable to the VQZ200/300 rubber seal with the exception of the external pilot type)



• Entry is the same as standard products.

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