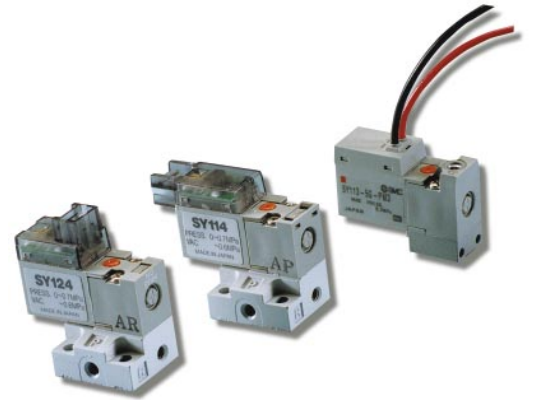


3/2 DIRECT ACTING SOLENOID VALVE

- ✓ 0.5 w Power Consumption (standard type)
- ✓ Life in excess of 10M cycles
- ✓ Compact (10mm body width)
- ✓ Light weight
- ✓ Suitable for low vacuum
- ✓ Modern light colour
- ✓ Copper free as standard

APPLICATIONS

- Small single acting cylinder
- Pilot valves
- Vacuum suitability
- Air blast eject valves



Valves

HOW TO ORDER

SY1 — — — — — **Q**

OPERATION
1.....Normally closed
2.....Normally open

PORTING
3.....Body Ported
4.....Base Mount

FLOW
Nil.....Standard (Cv = 0.008)
A.....Large Flow (Cv = 0.012)

VOLTAGE
5.....24VDC
6.....12VDC
V.....6VDC
S.....5VDC
R.....3VDC
B.....24vAc
3.....110vAc
4.....230vAc
Note: Ac types for standard flow version only

ELECTRICAL ENTRY

24V,12V,6V,5V,3VDC/100V,110V,200V,220VAC			
Grommet	L type plug connector	M type plug connector	
G: Lead wire (Length:300mm)	L: With lead wire (Length:300mm)	M: With lead wire (Length:300mm)	MN: Without lead wire
H: Lead wire (Length:600mm)	LN: Without lead wire	LO: Without connector	MO: Without connector

* LN or MN option includes 2 pins.

LAMP & SURGE PROTECTION

Nil.....Without
S.....Surge voltage & suppressor
Z.....Lamp & Surge Suppressor

PIPING OPTION

Nil.....For manifold (SY1*4 only)
M3.....For manifold (SY1*3 only)
PM3...Body port (SY1*3 only)
PM3-F Body Port with bracket (SY1*3 only)

Note: Body ported version (SY1*3*) is available either as a "stand alone" valve (order with PM3 piping option) or with a common supply manifold (order as M3 piping)

HOW TO ORDER

SY100 VALVE – MANIFOLDS

FOR BODY PORTED VALVES SY113(A)
ULTRA COMPACT TYPE WITH COMMON EXHAUST

SS3Y1 — 30 — F

NO OF STATIONS
022 Stations
:
1010 Stations

PIPED EXHAUST TYPE FOR SY113(A) AND SY123(A)

SS3Y1 — 31 —

NO OF STATIONS
022 Stations
:
.2020 Stations

Note: SY123 and SY113 cannot be mixed on the same manifold

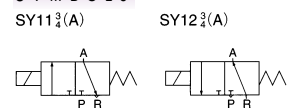
FOR BASE MOUNT VALVES SY1*4(A)

SS3Y1 — S41 —

NO OF STATIONS
022 Stations
:
2020 Stations

A PORT SIZE
M3.....M3 port
M5.....M5 port

SYMBOLS



TECHNICAL SPECIFICATIONS

	SY1**	SY1**A
Fluid	Air	
Ambient & Fluid temp	50°C max.	
Response time	10ms (without surge voltage & suppression)	
Max operating frequency	20Hz	
Lubrication	Not required	
Mounting Direction	Free	
Available Voltage Dc	24, 12, 6, 5, 3 VDC	
Ac	24, 110, 220 Ac	N/a
Allowable Voltage Variation	-10% ~ +10%	
Cv (effective orifice mm ²)	0.008 (0.14)	0.012 (0.22)
Power Consumption Dc	0.5w (0.55w with LED)	0.75w (0.8w with LED)
Ac	110v 1.0VA (1.1VA with LED) 230v 2.2VA (2.3VA with LED)	N/A N/A
Operating Pressure Range	0~0.7MPa (0~7.1kgf/cm ²)	

ACCESSORIES

Single Subbase	SY100-74-1
Connector Assemblies	See Series SY3000

MANIFOLD ACCESSORIES

Blanking Plate (All types)	SY100-77-1A
Spare Gasket (Body Ported Valves)	VJ100-6-2
Spare Gasket (Base Mounted Valves)	VJ100-6-1



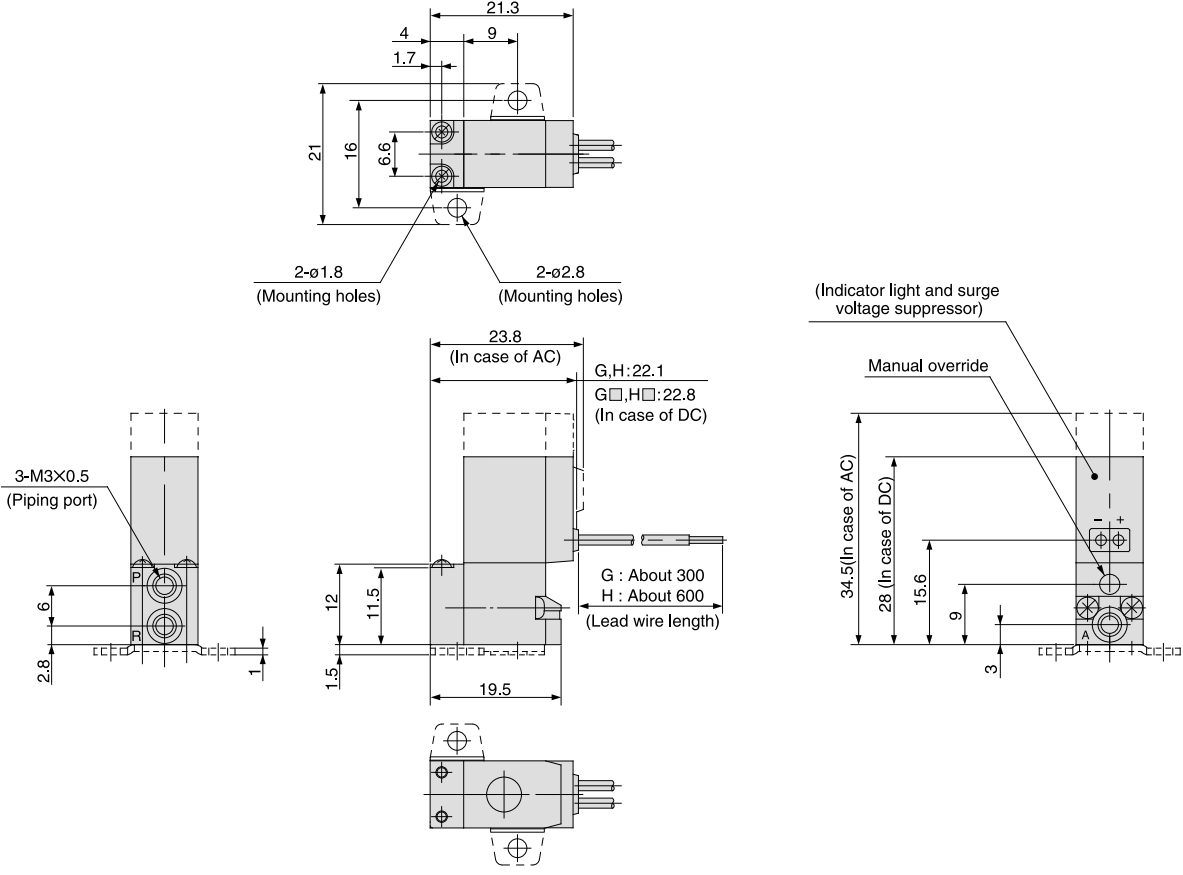
SEE INSIDE FRONT COVER FOR
DETAILS OF YOUR LOCAL SALES OFFICE



FOR FURTHER TECHNICAL
DETAILS ON THIS PRODUCT
REQUEST CATALOGUE
REFERENCE
E142-A

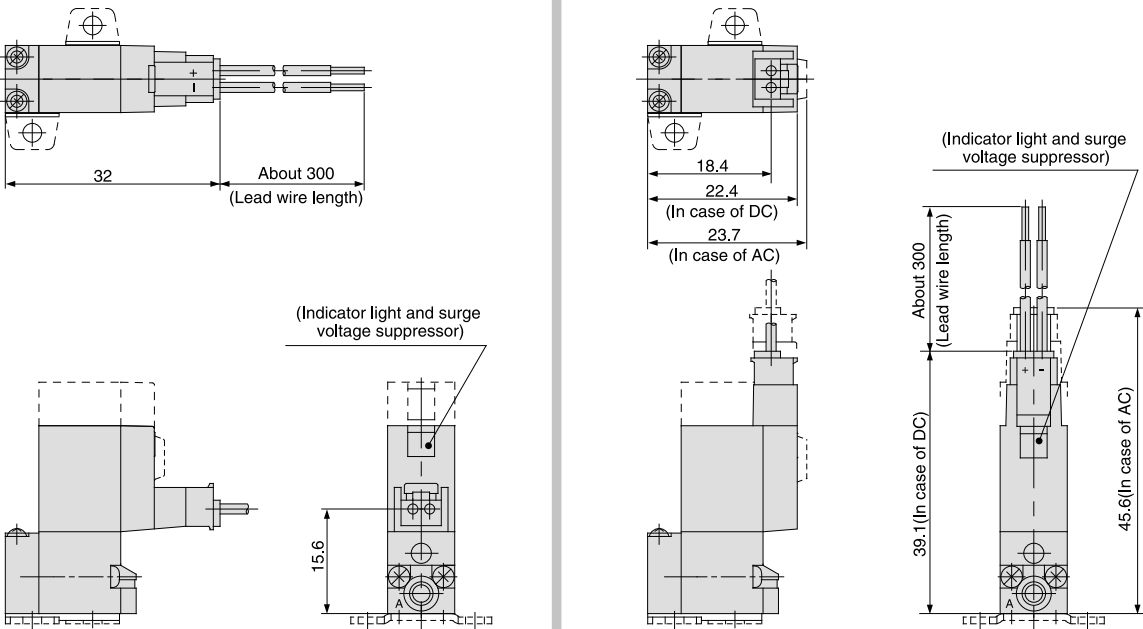
DIMENSIONS
BODY PORTED

Grommet (G), (H) : SY1¹/₂3(A)-□^G_H□□-M3



L type plug connector (L) : SY1¹/₂3(A)-□^L□□-M3

M type plug connector (M) : SY1¹/₂3(A)-□^M□□-M3



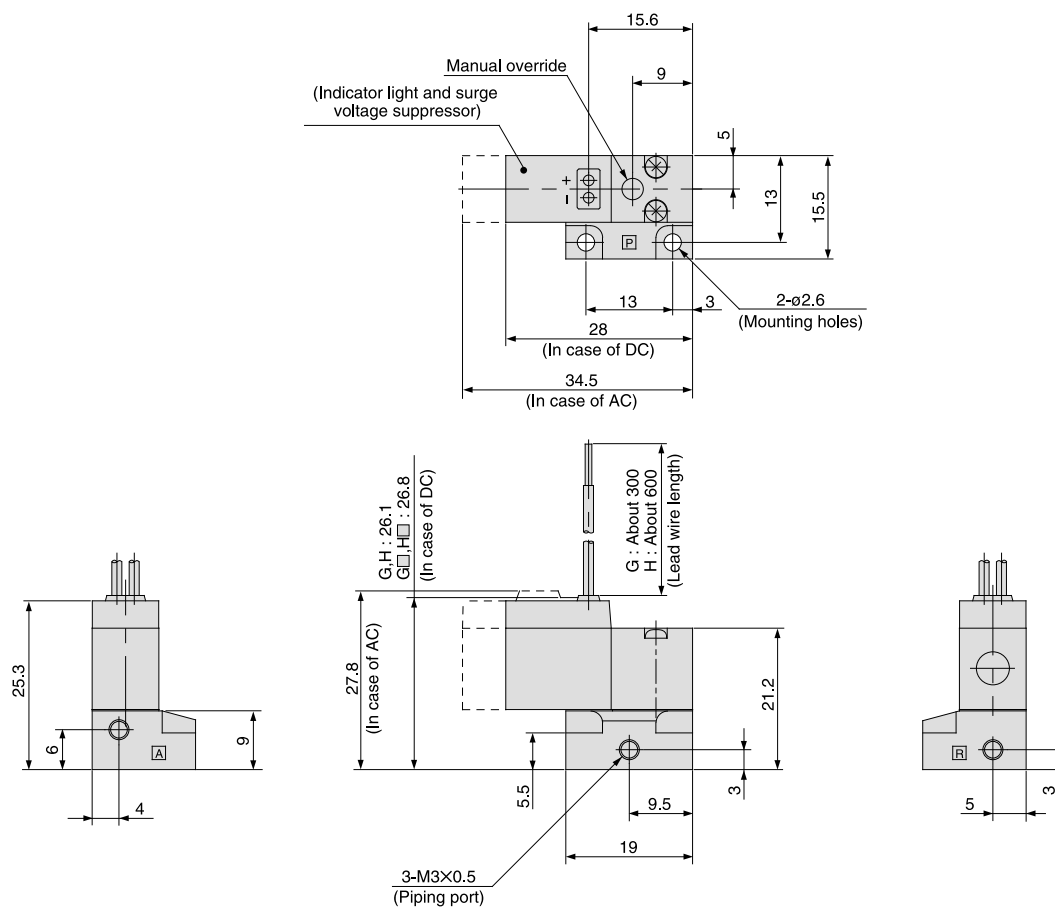
★Other dimensions are same as grommet type.

★Other dimensions are same as grommet type.

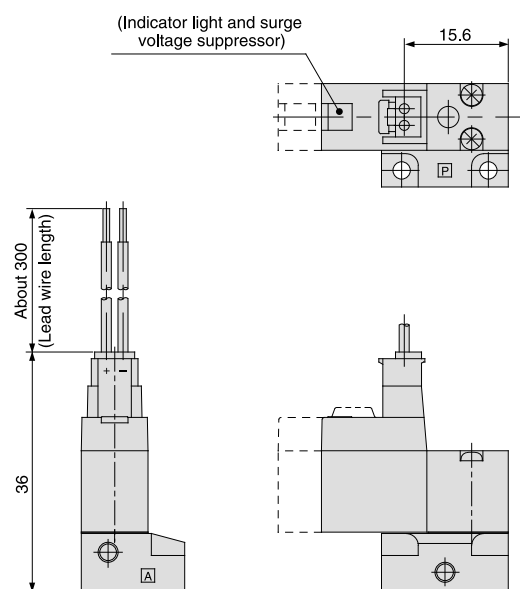
DIMENSIONS

BASE MOUNTED (WITH SUB-PLATE)

Grommet (G), (H) : SY1₂¹4(A)- _H^G-M3

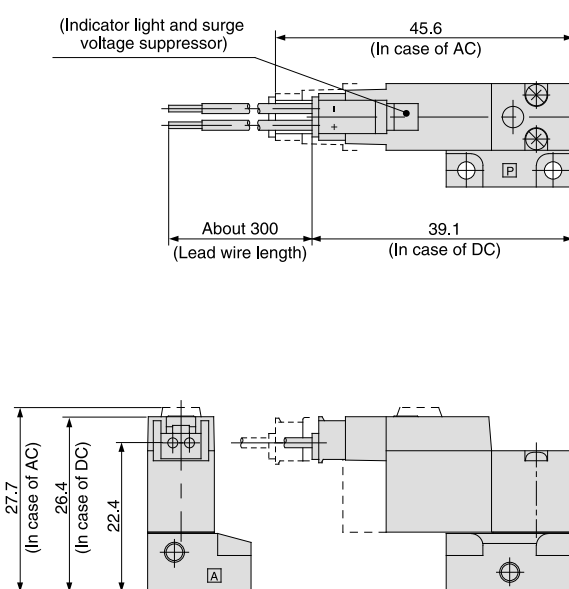


L type plug connector (L) : SY1₂¹4(A)-□L□□-M3



★Other dimensions are same as grommet type.

M type plug connector (M) : SY1₂¹4(A)-□M□□-M3



★Other dimensions are same as grommet type.



SEE INSIDE FRONT COVER FOR
DETAILS OF YOUR LOCAL SALES OFFICE

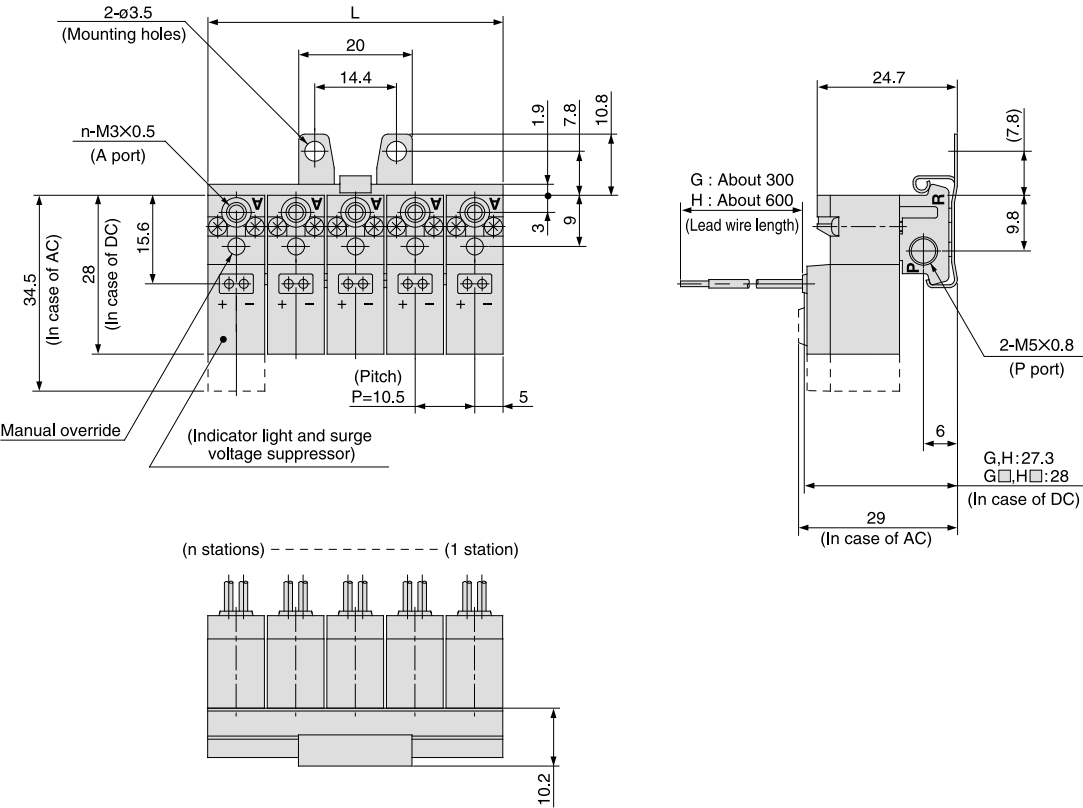


FOR FURTHER TECHNICAL
DETAILS ON THIS PRODUCT
REQUEST CATALOGUE
REFERENCE
E142-A

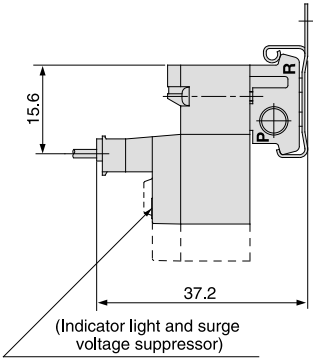
DIMENSIONS

30 TYPE MANIFOLD: TOP PIPING/SS3Y1-30-STATIONS

Grommet (G), (H)



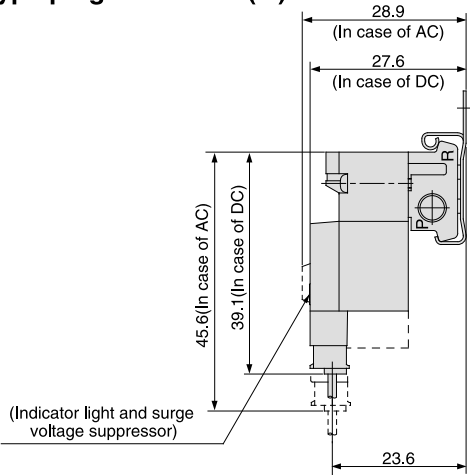
L type plug connector (L)



★Other dimensions are same as grommet type.

Stations	2 stations	3	4	5	6	7	8	9	10 stations
L	20.5	31	41.5	52	62.5	73	83.5	94	104.5

M type plug connector (M)



★Other dimensions are same as grommet type.

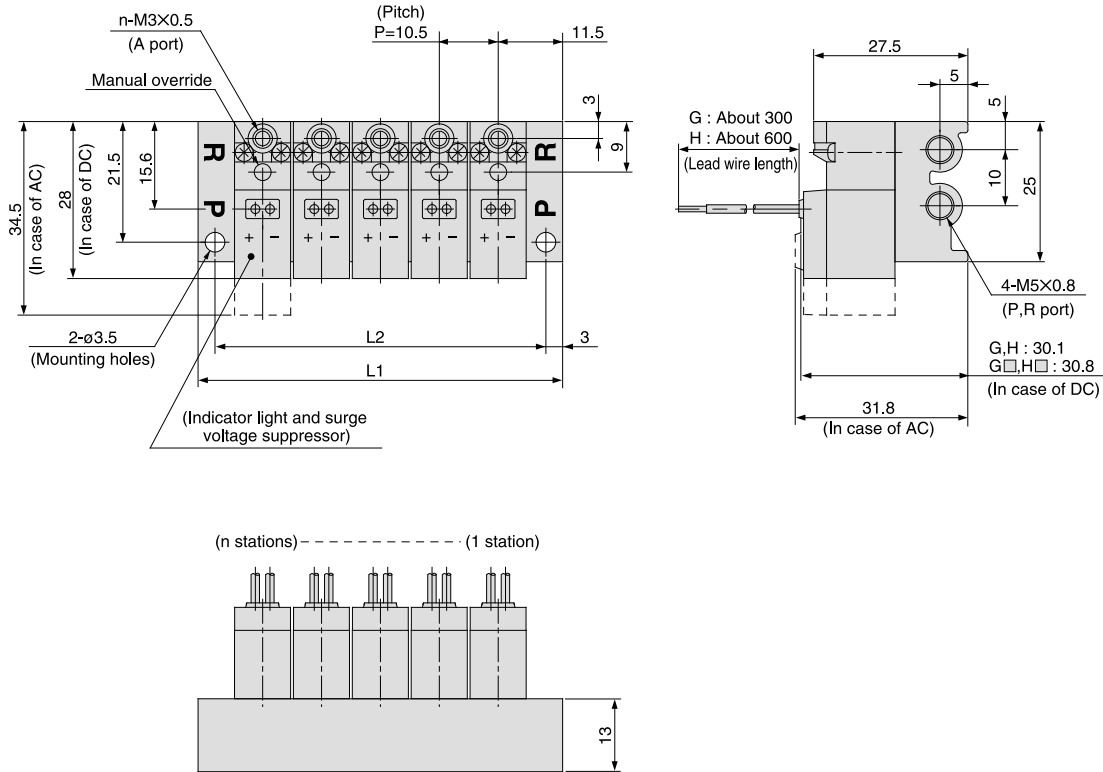


FOR FURTHER TECHNICAL
DETAILS ON THIS PRODUCT
REQUEST CATALOGUE
REFERENCE
E142-A

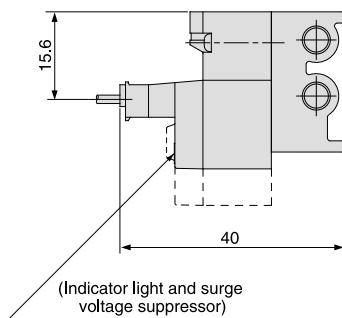
DIMENSIONS

31 TYPE MANIFOLD: TOP PIPING SS3Y1-31-STATIONS

Grommet (G), (H)

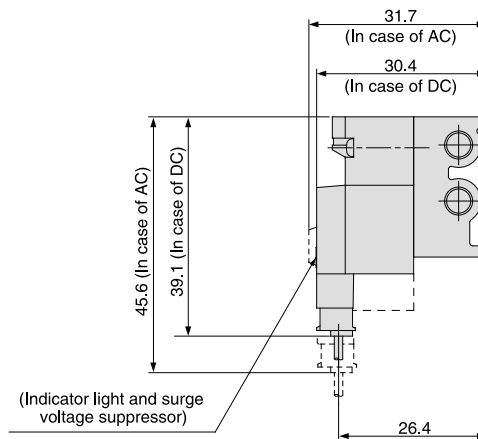


L type plug connector (L)



★Other dimensions are same as grommet type.

M type plug connector (M)



★Other dimensions are same as grommet type.

Stations	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L ₁	33.5	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149	159.5	170	180.5	191	201.5	212	222.5
L ₂	27.5	38	48.5	59	69.5	80	90.5	101	111.5	122	132.5	143	153.5	164	174.5	185	195.5	206	216.5



SEE INSIDE FRONT COVER FOR
DETAILS OF YOUR LOCAL SALES OFFICE

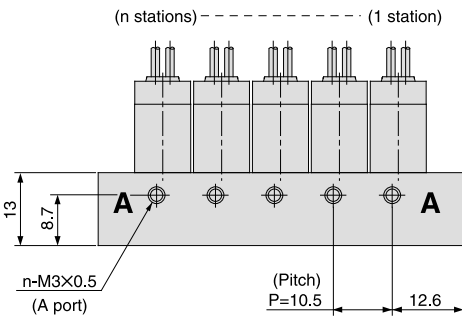
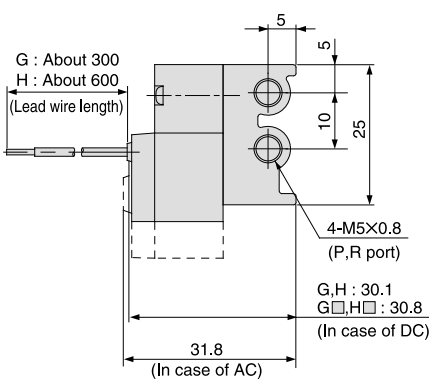
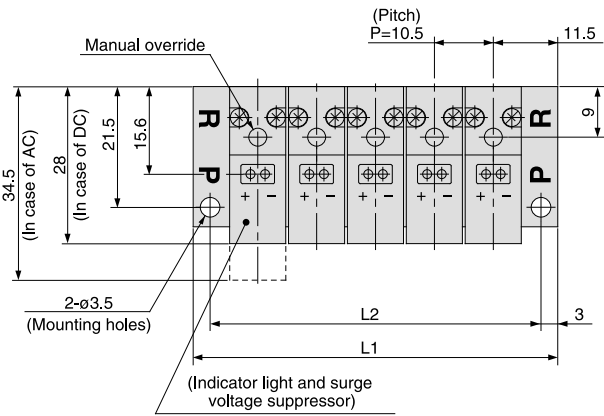


FOR FURTHER TECHNICAL
DETAILS ON THIS PRODUCT
REQUEST CATALOGUE
REFERENCE
E142-A

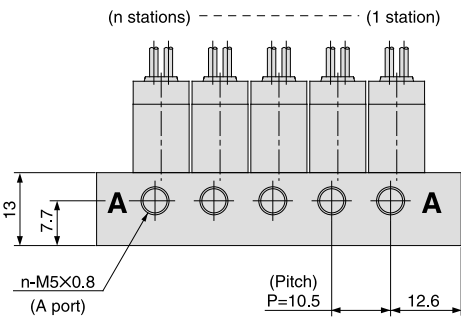
DIMENSIONS

S41 TYPE MANIFOLD: SIDE PIPING SS3Y1-S41-STATIONS-M3, M5

Grommet (G), (H)

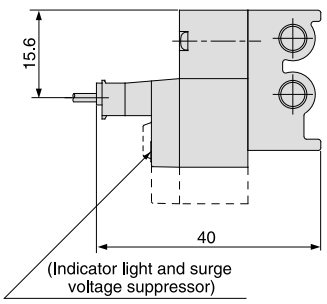


In case of M3

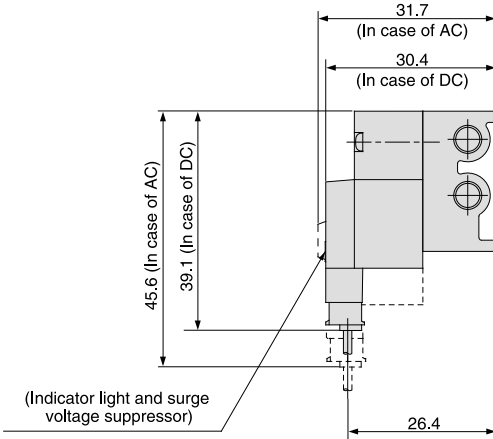


In case of M5

L type plug connector (L)



M type plug connector (M)



★Other dimensions are same as grommet type.

★Other dimensions are same as grommet type.

Stations	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L ₁	33.5	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149	159.5	170	180.5	191	201.5	212	222.5
L ₂	27.5	38	48.5	59	69.5	80	90.5	101	111.5	122	132.5	143	153.5	164	174.5	185	195.5	206	216.5



FOR FURTHER TECHNICAL
DETAILS ON THIS PRODUCT
REQUEST CATALOGUE
REFERENCE
E142-A