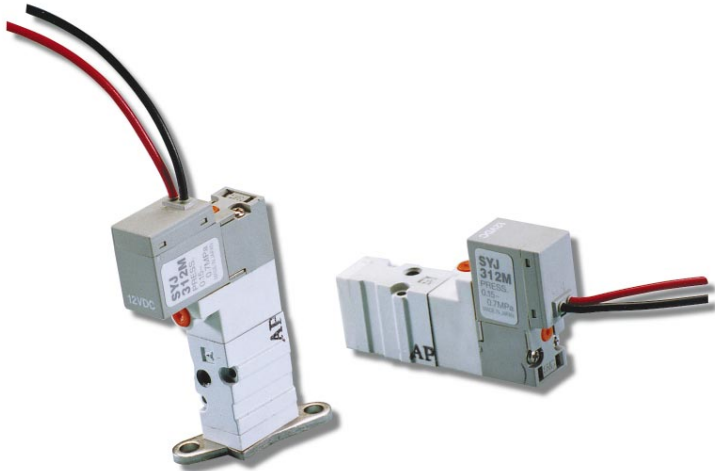


3/2 SOLENOID VALVE

- ✓ 3 body sizes available.
- ✓ 0.5W power consumption (Dc without LED).
- ✓ External pilot version available for manifold use.
- ✓ Interchangeable with older model valves.
- ✓ Suitable for vacuum application. (External Pilot type).
- ✓ Can be used as selector or diverter. (External Pilot type).
- ✓ Internal or external pilot exhaust.
- ✓ NC or NO version available.
- ✓ Standard type is copper free.

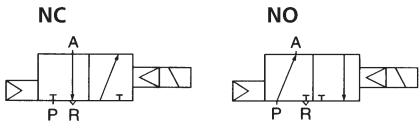


TECHNICAL SPECIFICATIONS

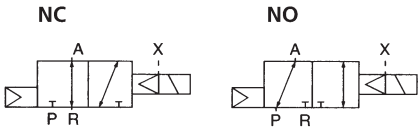
	SYJ300	SYJ500	SYJ700
Operating Pressure (Internal Pilot)	0.15~0.7MPa (1.5~7.1kgf/cm ²)		
(External Pilot)	-100kPa~0.7MPa (10torr to 7.1kgf/cm ²)		
Max Ambient- fluid temp	50°C		
Max Operating Frequency (Hz)	10	5	5
Response Time (Ms)	15	25	30
Mounting Position	Free		
Lubrication	Not required		
Cv (Effective Area mm ²)			
Body Ported	0.05 (0.9)	0.2 (3.6)	0.5 (9.0)
Base Mounted	0.1 (1.8)	0.25 (4.5)	0.5 (9.0)
Mass (g) (Body only) Grommet Type	29	43	72
Power Consumption (w)DC	0.5 (0.55 with LED)		
110VAC	1.0VA(1.1VA with LED)		
230VAC	2.2 VA (2.3 VA with LED)		
Allowable Voltage Variation	±10%		
Pilot Exhaust	External (internal option available)		
External Pilot Supply Pressure (when specified)	(0.15 to 0.7MPa (1.5~7.1kgf/cm ²))		

SYMBOLS

Internal pilot



External pilot



APPLICATIONS

INTERNAL PILOT VERSION

- Control of pilot valves
- Single acting cylinder operation
- Vacuum Control

EXTERNAL PILOT VERSION

- All the above plus
- Air Blast valve
- Pressure release valve
- Selector valve
- Diverter valve

INTERCHANGEABILITY

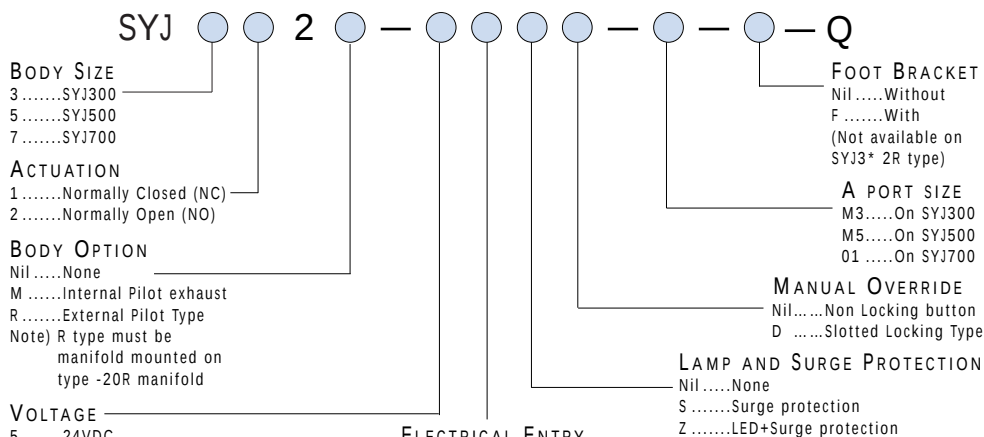
The SYJ Series can be used in place of the following series of valve bodies.

SYJ	VJ	VZ
SYJ300	VJ300	
SYJ500	VJ500	VZ300
SYJ700	VJ700	VZ500



FOR FURTHER TECHNICAL
DETAILS ON THIS
PRODUCT REQUEST
CATALOGUE REFERENCE
E143-B

How To ORDER BODY PORTED VALVES

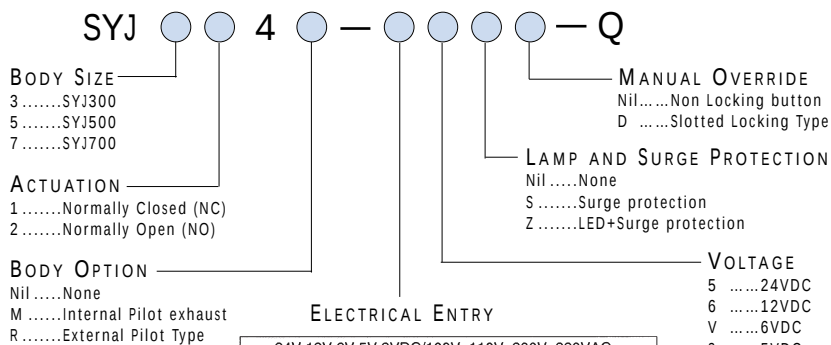


ELECTRICAL ENTRY

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

*LN and MN type are with 2 pcs.socket.

How To ORDER BASE MOUNTED VALVES



ELECTRICAL ENTRY

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

*LN and MN type are with 2 pcs.socket.

ACCESSORIES SINGLE SUB BASES

For SYJ300	SYJ300-9-1
For SYJ500	SYJ500-9-1
For SYJ700	SYJ700-9-1 (1/8" Ported)
	SYJ700-9-2 (1/4" Ported)

CONNECTOR ASSEMBLIES

PLEASE SEE SY3000 VALVE SECTION IN THIS CATALOGUE



SEE INSIDE FRONT COVER FOR DETAILS OF YOUR LOCAL SALES OFFICE

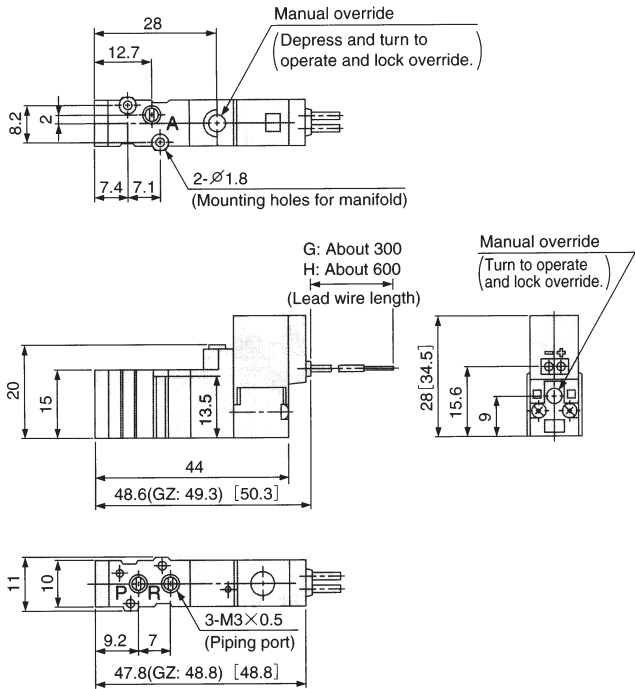


FOR FURTHER TECHNICAL DETAILS ON THIS PRODUCT REQUEST CATALOGUE REFERENCE E143-B



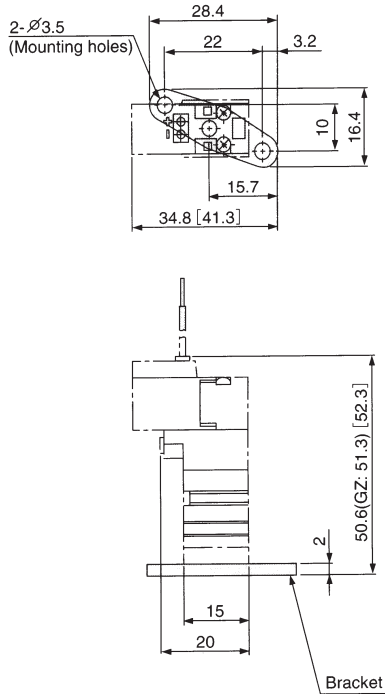
DIMENSIONS
BODY PORTED TYPE

Grommet (G) (H): SYJ3□2-□^G_H□□-M3



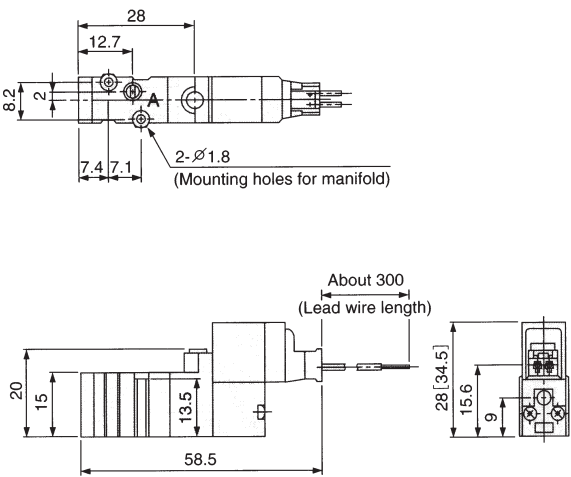
* [] for AC

With bracket



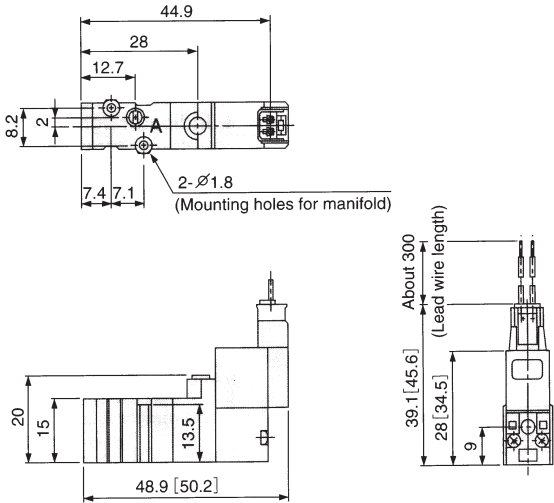
* [] for AC
* Other dimensions are the same as the grommet type.

L type plug connector (L): SYJ3□2-□L□□-M3



* [] for AC
* Other dimensions are the same as the grommet type.

M type plug connector (M): SYJ3□2-□M□□-M3



* [] for AC
* Other dimensions are the same as the grommet type.

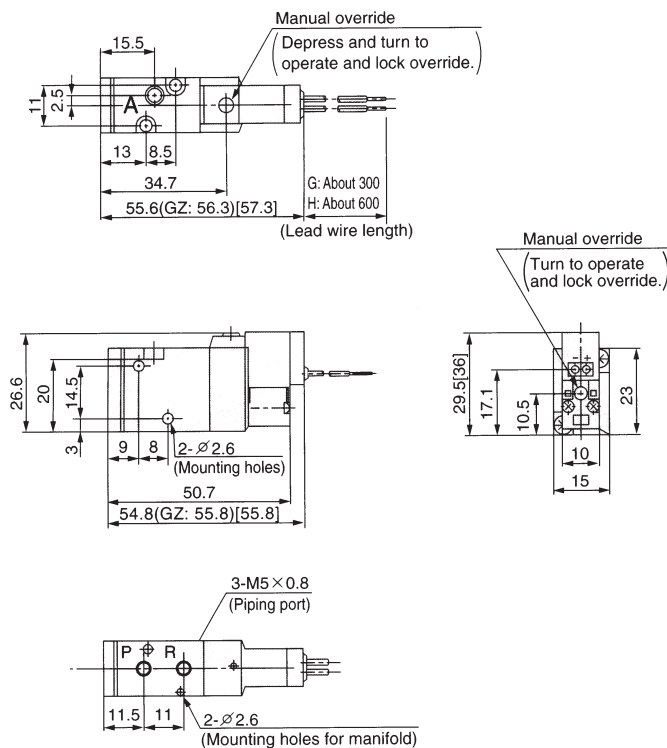


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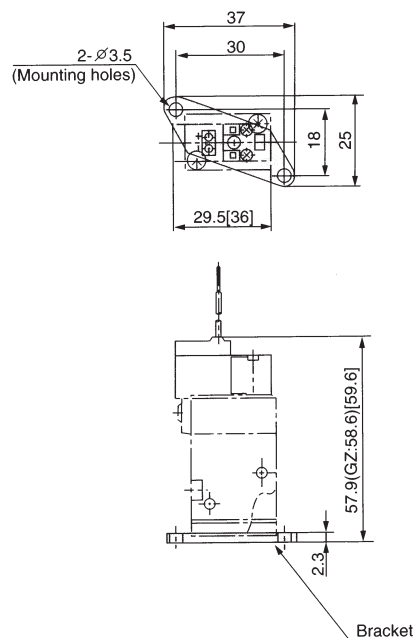
DIMENSIONS

BODY PORTED TYPE

Grommet (G) (H): SYJ5□2-□^G□□-M5



With bracket

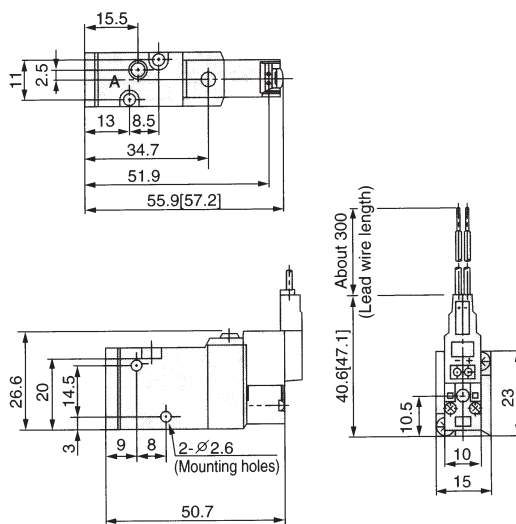
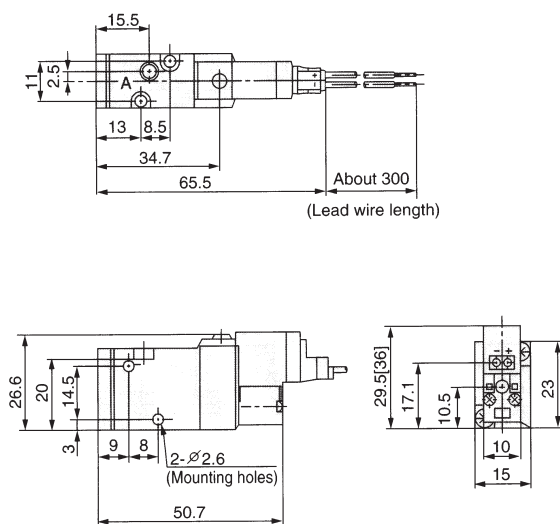


*[] for AC
*Other dimensions are the same as the grommet type.

*[] for AC

L type plug connector (L): SYJ5□2-□L□□-M5

M type plug connector (M): SYJ5□2-□M□□-M5



*[] for AC
*Other dimensions are the same as the grommet type.

*[] for AC
*Other dimensions are the same as the grommet type.



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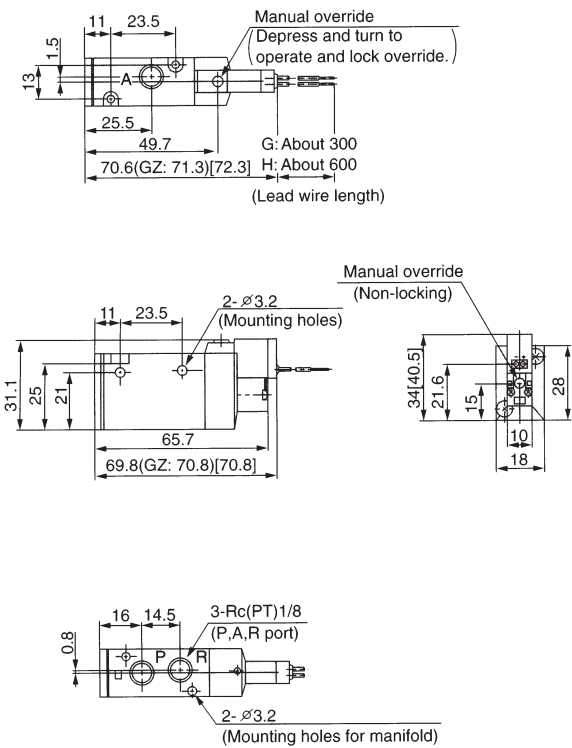


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DETAILS ON THIS
PRODUCT REQUEST
CATALOGUE REFERENCE
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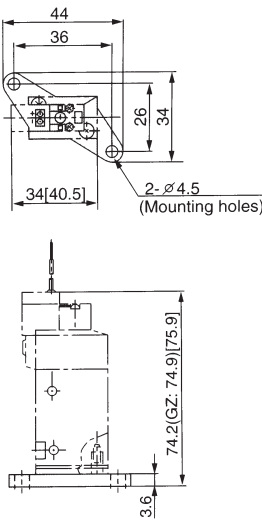
DIMENSIONS
BODY PORTED TYPE

Grommet (G) (H): SYJ7□2-□^G□□-01



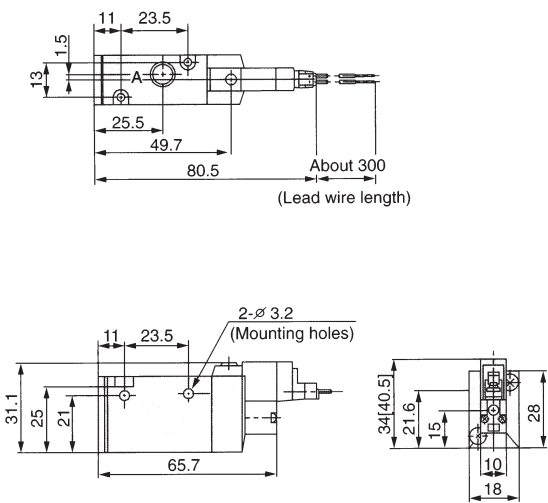
*[] for AC

With bracket



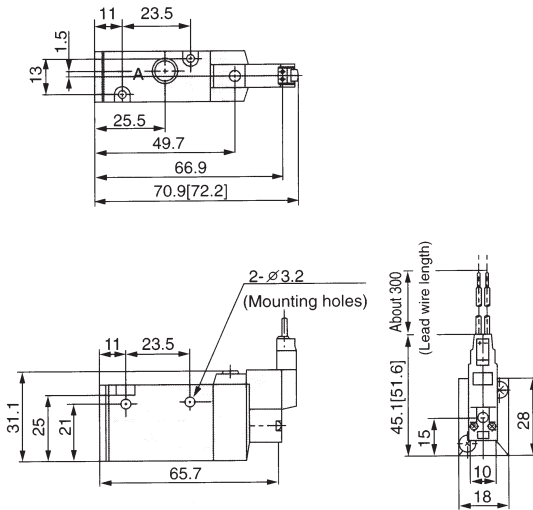
*[] for AC
*Other dimensions are the same as the grommet type.

L type plug connector (L): SYJ7□2-□^L□□-01



*[] for AC
*Other dimensions are the same as the grommet type.

M type plug connector (M): SYJ7□2-□^M□□-01



*[] for AC
*Other dimensions are the same as the grommet type.

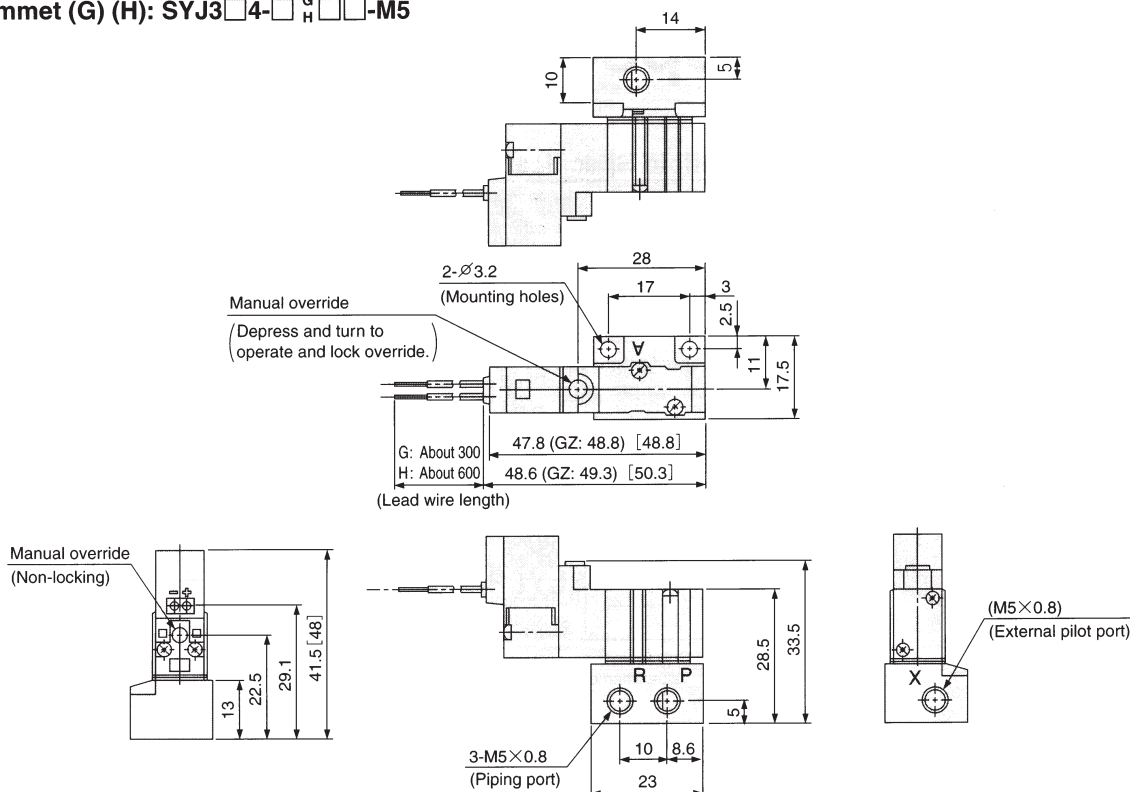


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PRODUCT REQUEST
CATALOGUE REFERENCE
E143-B

DIMENSIONS

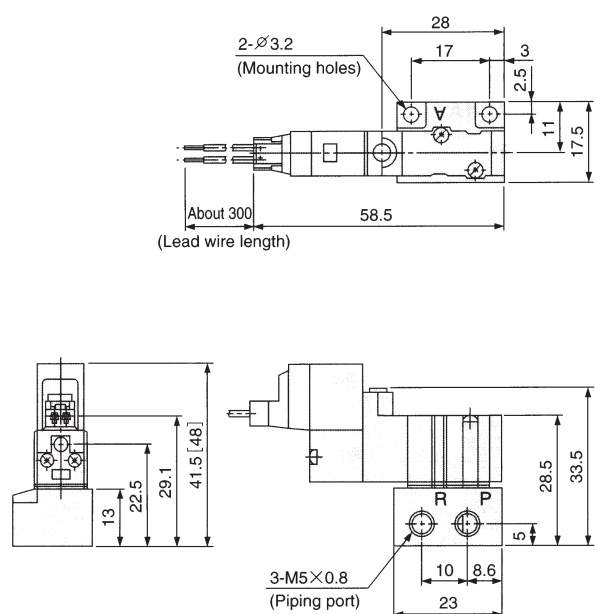
BASE MOUNTED TYPE (WITH SUB-PLATE)

Grommet (G) (H): SYJ3□4-□^G□□-M5



*[] for AC

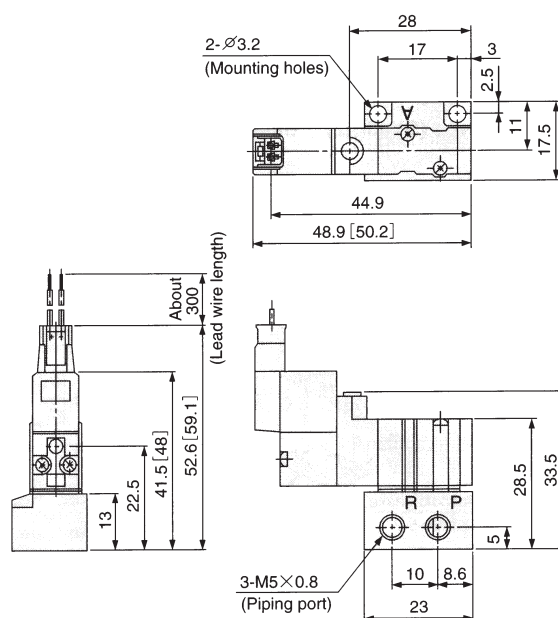
L type plug connector (L): SYJ3□4-□L□□-M5



*[] for AC

*Other dimensions are the same as the grommet type.

M type plug connector (M): SYJ3□4-□M□□-M5



*[] for AC

*Other dimensions are the same as the grommet type.



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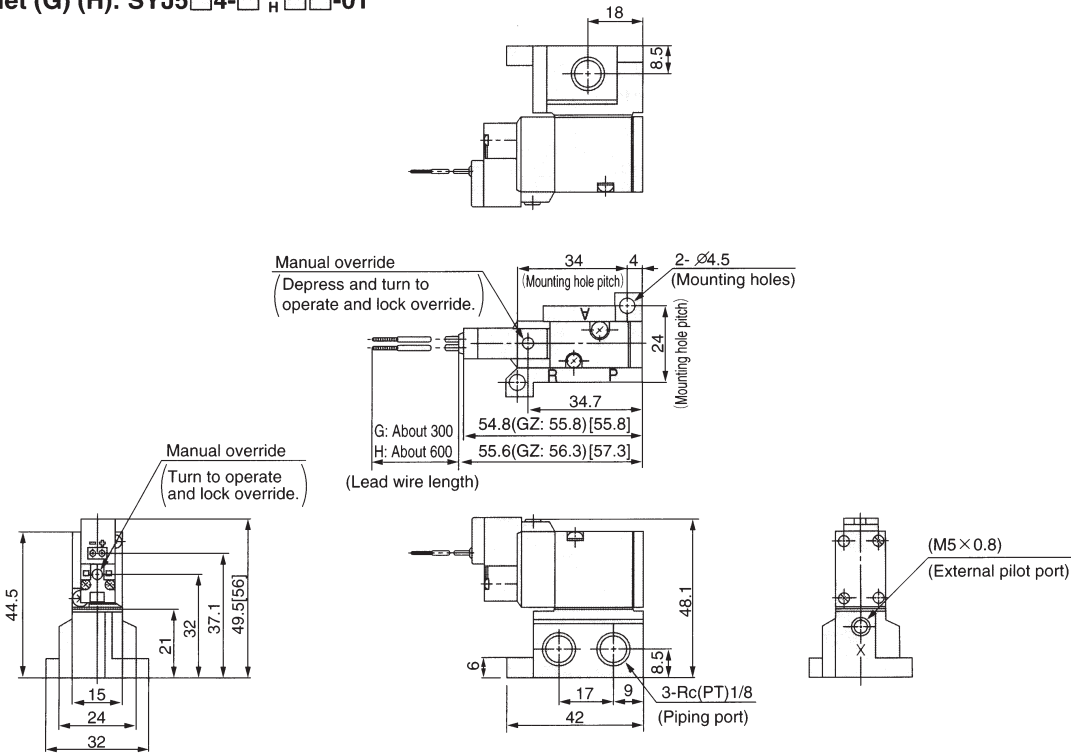
FOR FURTHER TECHNICAL
DETAILS ON THIS
PRODUCT REQUEST
CATALOGUE REFERENCE
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DIMENSIONS

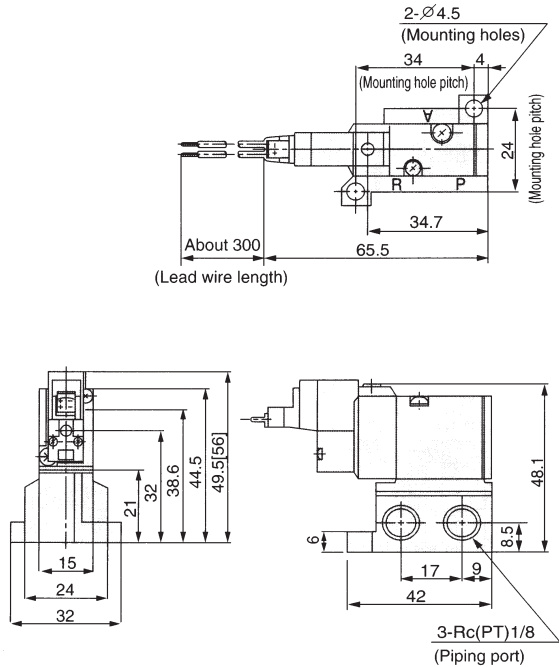
BASE MOUNTED TYPE (WITH SUB-PLATE)

Grommet (G) (H): SYJ5□4-□^G_H□□-01



*[] for AC

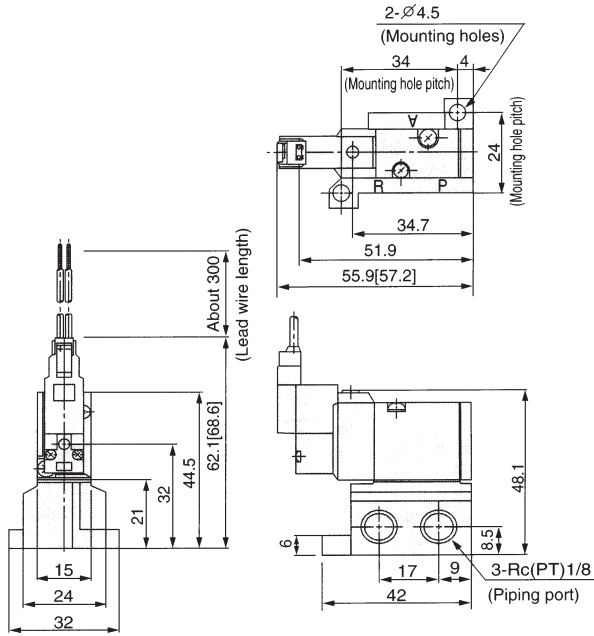
L type plug connector (L): SYJ5□4-□L□□-01



*[] for AC

*Other dimensions are the same as the grommet type.

M type plug connector (M): SYJ5□4-□M□□-01



*[] for AC

*Other dimensions are the same as the grommet type.

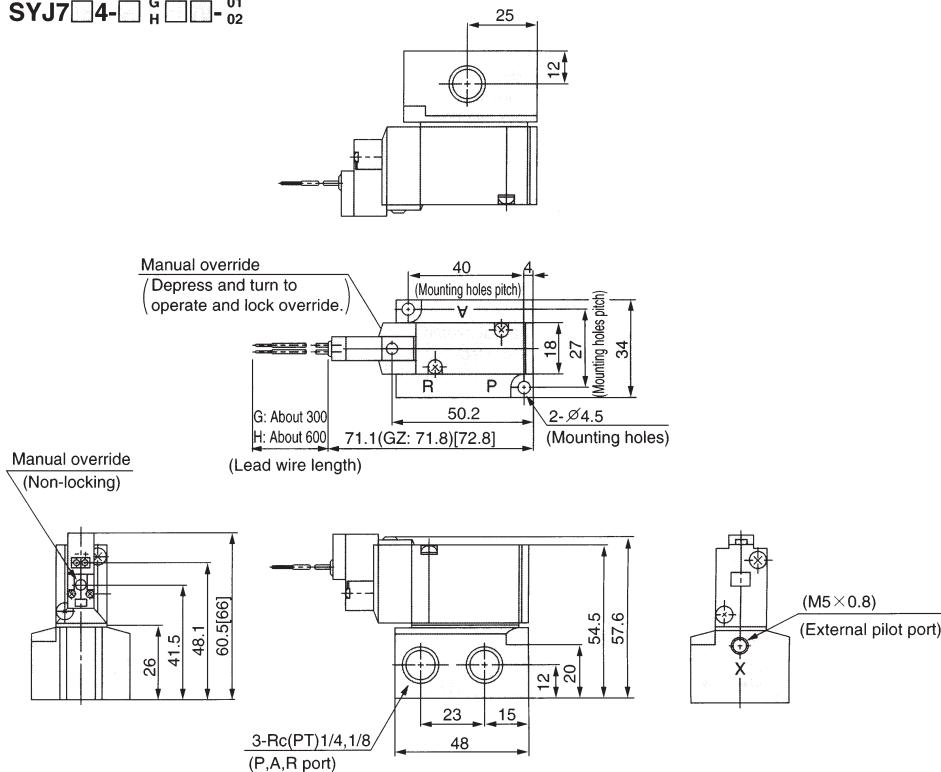


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DETAILS ON THIS
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DIMENSIONS

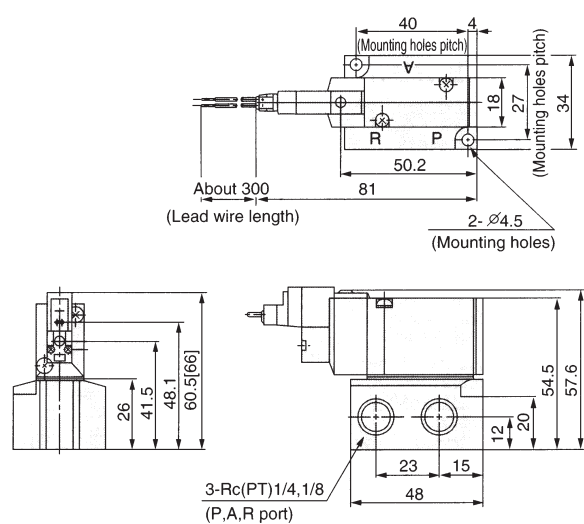
BASE MOUNTED TYPE (WITH SUB-PLATE)

Grommet (G) (H): SYJ7□4-□G□□-01
H□□-02



*[] for AC

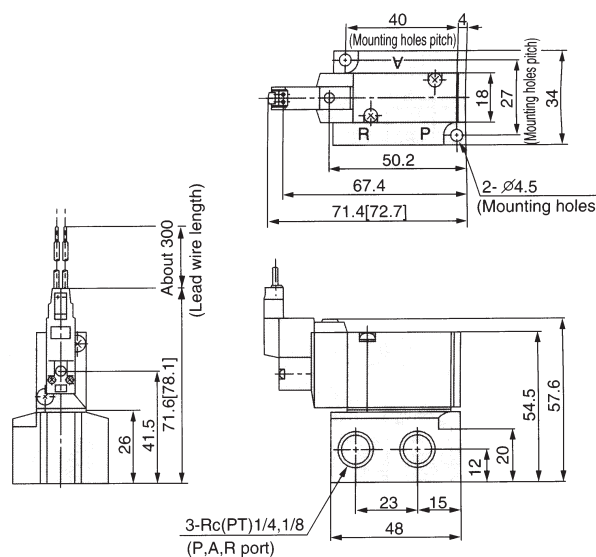
L type plug connector (L): SYJ7□4-□L□□-01
02



*[] for AC

*Other dimensions are the same as the grommet type.

M type plug connector (M): SYJ7□4-□M□□-01
02



*[] for AC

*Other dimensions are the same as the grommet type.

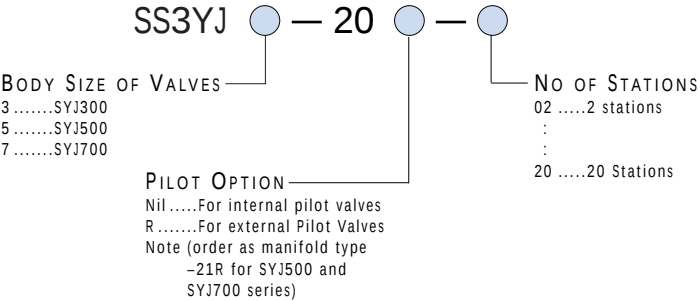


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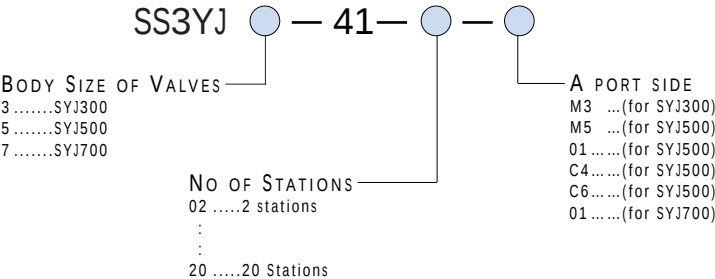
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DETAILS ON THIS
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E143-B

HOW TO
ORDER
FOR BODY PORT VALVES
TYPE 2 0

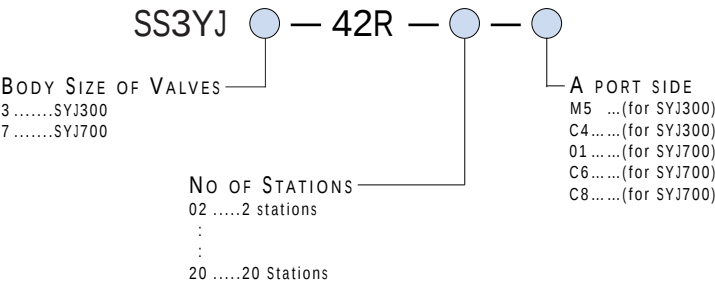


BLANKING PLATES
SYJ3*2* Body PortSYJ300-10-1A
SYJ3*4* Base MountSYJ300-10-2A
SYJ5*2* Body PortSYJ500-10-1A
SYJ5*4* Base MountSYJ500-10-2A
SYJ7*2* Body PortSYJ700-10-1A
SYJ7*4* Base MountSYJ700-10-1A

HOW TO
ORDER
FOR BASE MOUNT VALVES
TYPE 4 1



HOW TO
ORDER
FOR EXTERNAL PILOT BASE MOUNT VALVES
TYPE 4 2 R



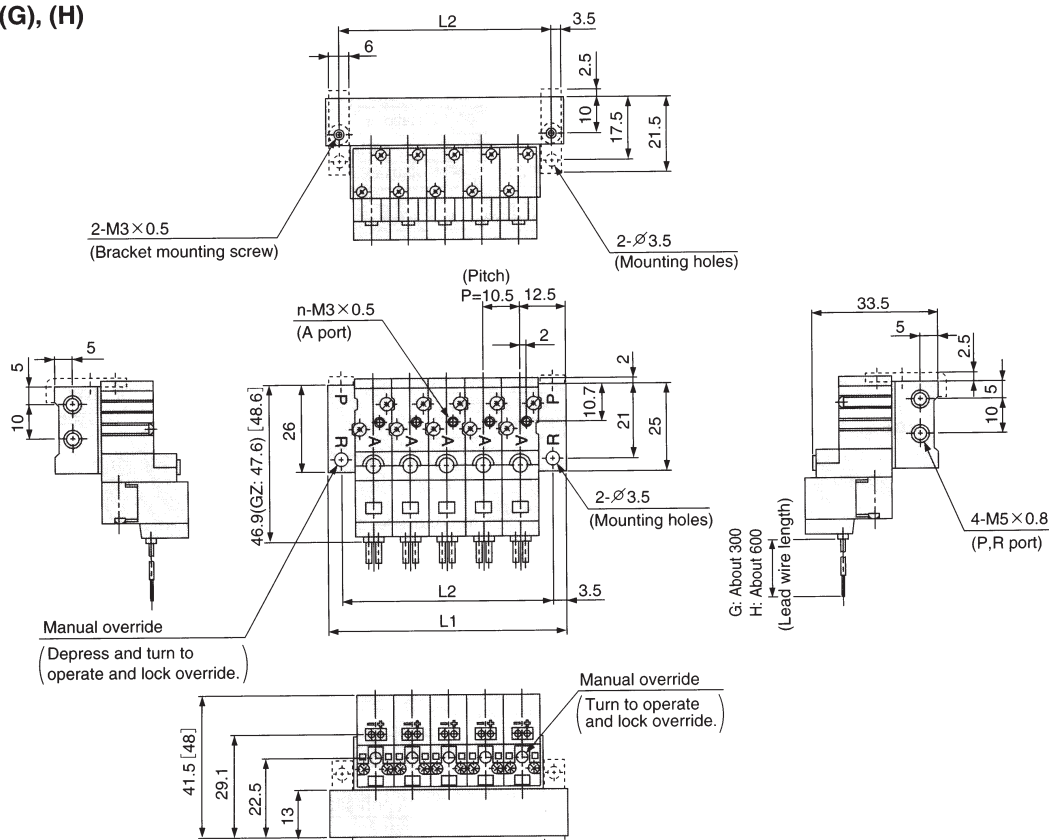
The above types represent only a selection of the manifolds available. The list below are also available to order – please request Catalogue E143-B for full details.

Manifold Valve	Type 20 Int Pilot	20R Ext Pilot	21 Int Pilot	21R Ext Pilot	40 Int Pilot	40R Ext Pilot	41 Int Pilot	S41 Int Pilot	41R Ext Pilot	42 Int Pilot	S42 Int Pilot	42R Ext pilot	S42R Ext Pilot
SYJ300	Shown	Shown	–	–	–	–	Shown	Available	–	Available	Available	Shown	Available
SYJ500	Shown	–	–	Shown	Available	Available	Shown	–	Available	–	–	–	–
SYJ700	Shown	–	Available	Shown	Available	–	Shown	–	Available	Available	–	Shown	–
Comments	Body Ported	Body Ported	Body Ported	Body Ported	Base Mount Bottom Ported	Base Mount Bottom Ported	Base Mount Side Ported	Base Mount Side Ported Reversed Valve	Base Mount Side Ported	Base Mount Side Ported	Base Mount Side Ported Reversed Valve	Base Mount Side Ported Reversed Valve	Base Mount Side Ported Reversed Valve

DIMENSIONS

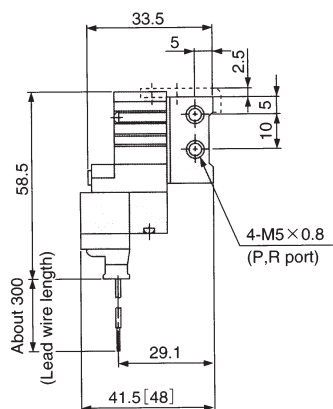
TYPE 20 MANIFOLD: TOP PORTED/SS3YJ3 20-STATION

Grommet (G), (H)

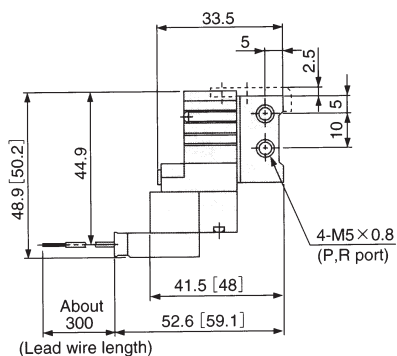


*[] for AC

L type plug connector (L)



M type plug connector (M)



*[] for AC

*Other dimensions are the same as the grommet type.

*[] for AC

*Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	35.5	46	56.5	67	77.5	88	98.5	109	119.5	130	140.5	151	161.5	172	182.5	193	203.5	214	224.5
L ₂	28.5	39	49.5	60	70.5	81	91.5	102	112.5	123	133.5	144	154.5	165	175.5	186	196.5	207	217.5



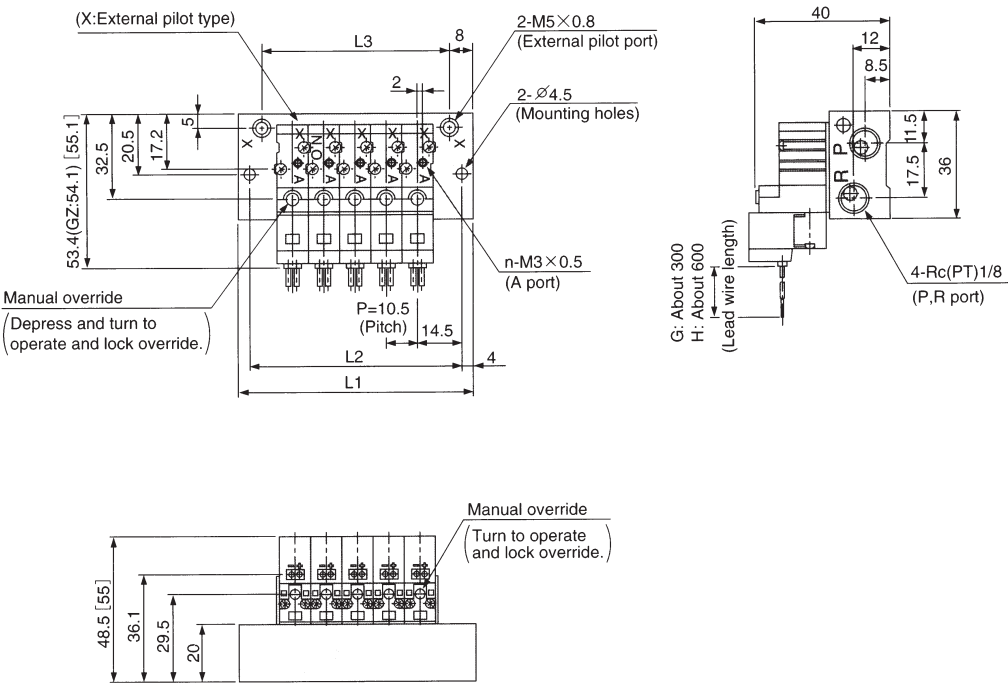
SEE INSIDE FRONT COVER FOR
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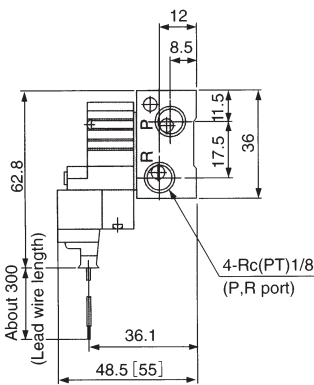
DIMENSIONS
TYPE 20R MANIFOLD: TOP PORTED (EXTERNAL PILOT TYPE)/SS3YJ3-20R-STATION

Grommet (G), (H)

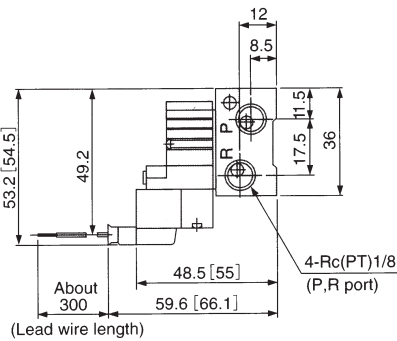


*[] for AC

L type plug connector (L)



M type plug connector (M)



*[] for AC
*Other dimensions are the same as the grommet type.

*[] for AC
*Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	47.5	58	68.5	79	89.5	100	110.5	121	131.5	142	152.5	163	173.5	184	194.5	205	215.5	226	236.5
L ₂	39.5	50	60.5	71	81.5	92	102.5	113	123.5	134	144.5	155	165.5	176	186.5	197	207.5	218	228.5
L ₃	31.5	42	52.5	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5

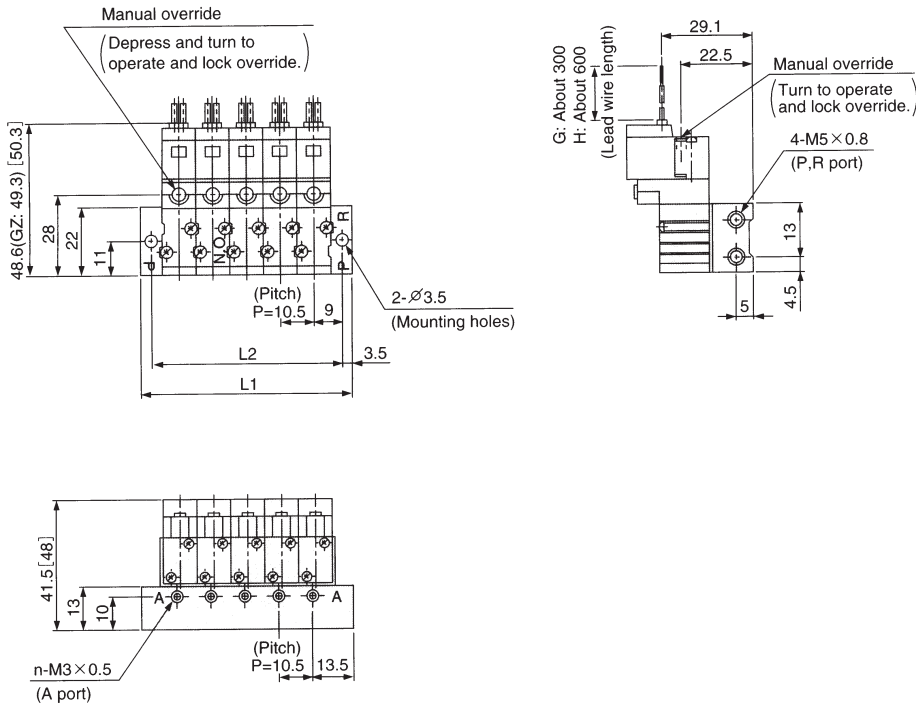


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E143-B

DIMENSIONS

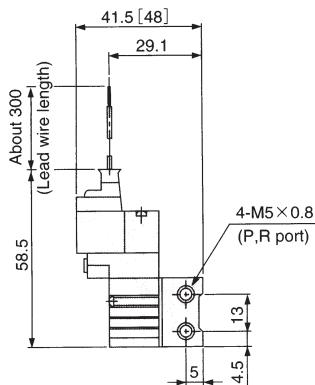
TYPE 41 MANIFOLD: SIDE PORTED/SS3YJ3-41-STATION-M3

Grommet (G), (H)



*[] for AC

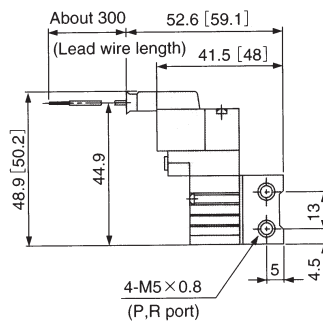
L type plug connector (L)



*[] for AC

* Other dimensions are the same as the grommet type.

M type plug connector (M)



*[] for AC

* Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	35.5	46	56.5	67	77.5	88	98.5	109	119.5	130	140.5	151	161.5	172	182.5	193	203.5	214	224.5
L ₂	28.5	39	49.5	60	70.5	81	91.5	102	112.5	123	133.5	144	154.5	165	175.5	186	196.5	207	217.5



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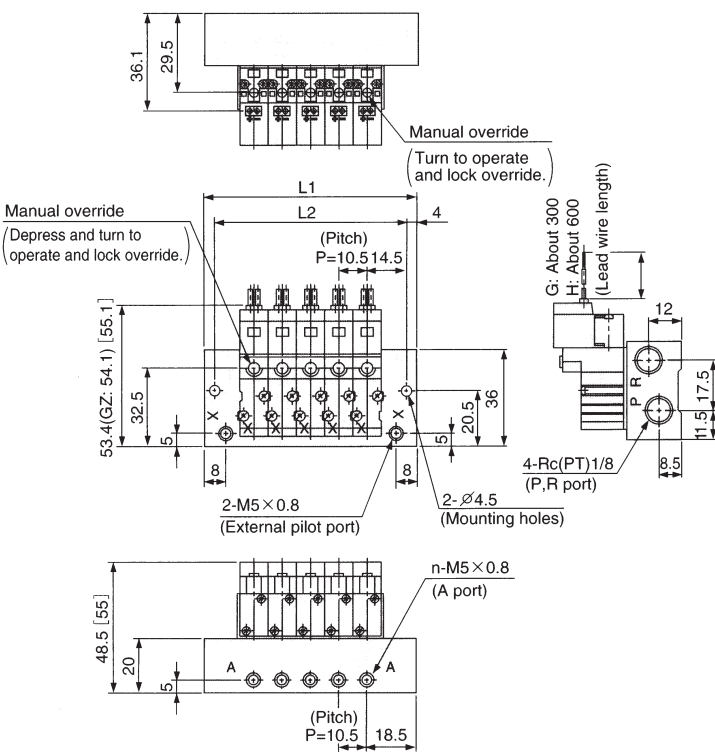


FOR FURTHER TECHNICAL
DETAILS ON THIS
PRODUCT REQUEST
CATALOGUE REFERENCE
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DIMENSIONS

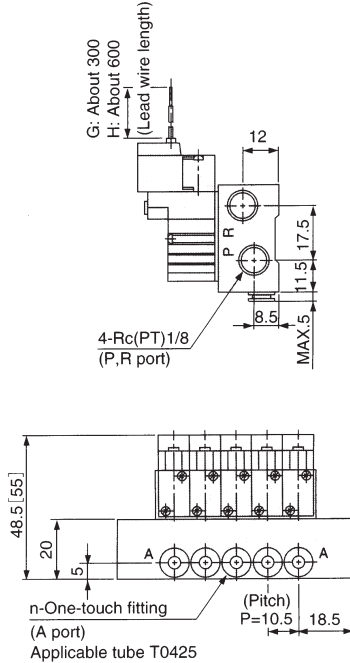
TYPE 42R MANIFOLD: SIDE PORTED (EXTERNAL PILOT TYPE)/SS3YJ3-42R-STATION-M5, C4

Grommet (G), (H)



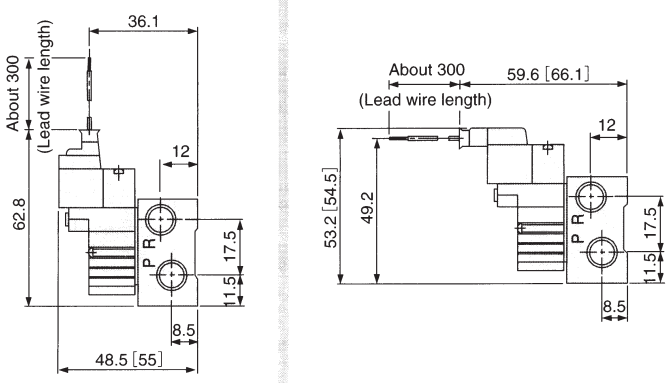
*[] for AC

C4 (Built-in One-touch fitting)



*[] for AC
*Other dimensions are the same as the M5.

L type plug connector (L) M type plug connector (M)



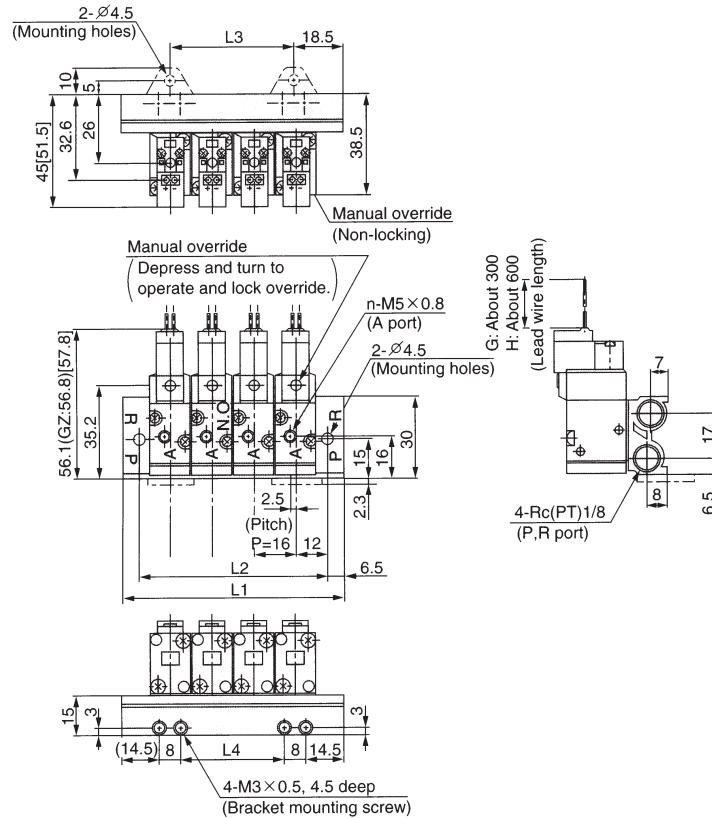
*[] for AC
*Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	47.5	58	68.5	79	89.5	100	110.5	121	131.5	142	152.5	163	173.5	184	194.5	205	215.5	226	236.5
L ₂	39.5	50	60.5	71	81.5	92	102.5	113	123.5	134	144.5	155	165.5	176	186.5	197	207.5	218	228.5

DIMENSIONS

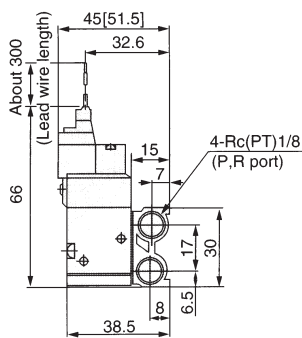
TYPE 20 MANIFOLD: TOP PORTED/SS3YJ5-20-STATION

Grommet (G), (H)

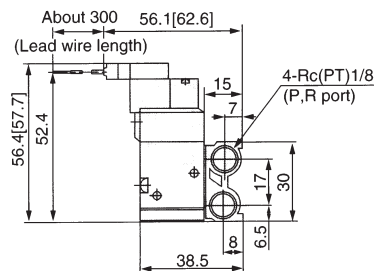


* [] for AC

L type plug connector (L)



M type plug connector (M)



* [] for AC

* Other dimensions are the same as the grommet type.

* [] for AC

* Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	53	69	85	101	117	133	149	165	181	197	213	229	245	261	277	293	309	325	341
L ₂	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328
L ₃	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304
L ₄	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296



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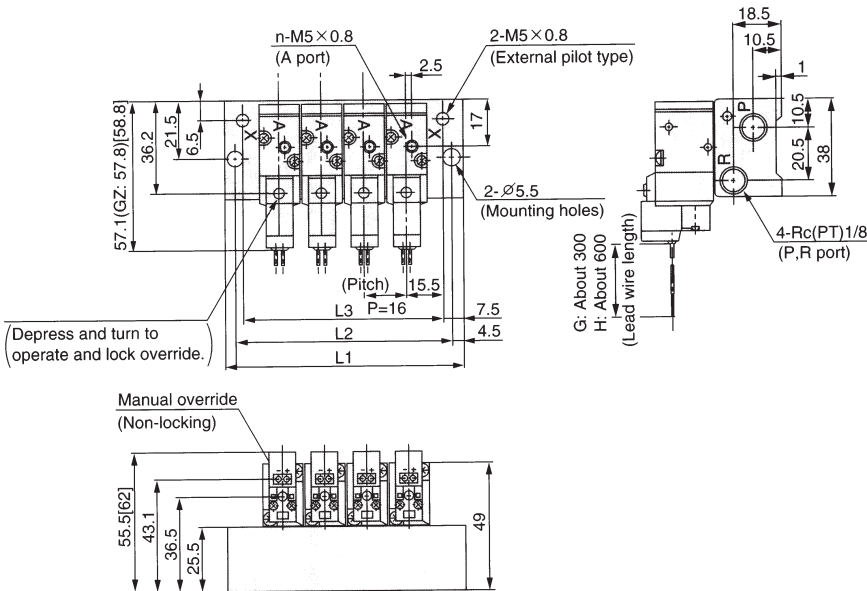


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DIMENSIONS

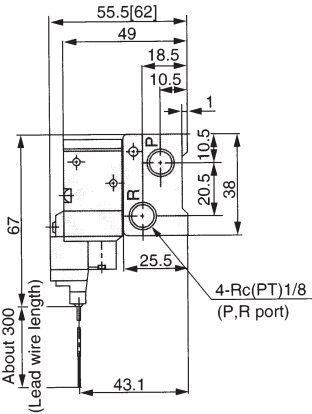
TYPE 21R MANIFOLD: TOP PORTED (EXTERNAL PILOT TYPE)/SS3YJ5-21R-STATION

Grommet (G), (H)

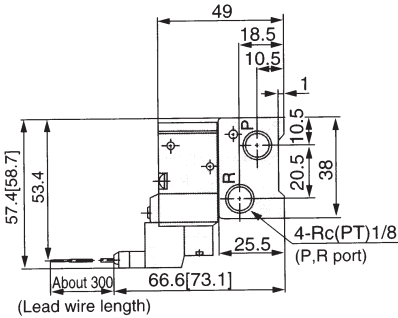


*[] for AC

L type plug connector (L)



M type plug connector (M)



*[] for AC

*Other dimensions are the same as the grommet type.

*[] for AC

*Other dimensions are the same as the grommet type.

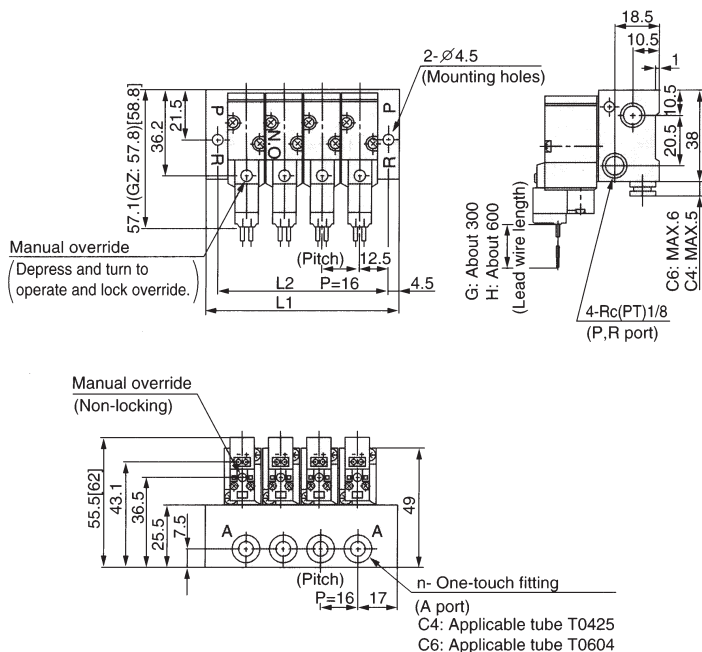
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	62	78	94	110	126	142	158	174	190	206	222	238	254	270	286	302	318	334	350
L2	53	69	85	101	117	133	149	165	181	197	213	229	245	261	277	293	309	325	341
L3	47	63	79	95	111	127	143	159	175	191	207	223	239	255	271	287	303	319	335



DIMENSIONS

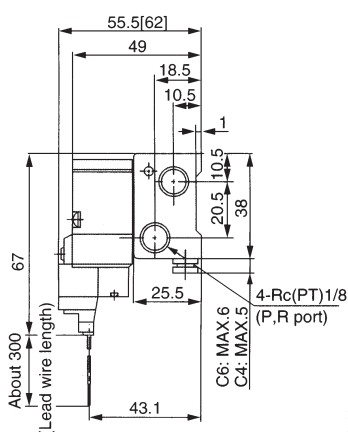
TYPE 41 MANIFOLD: SIDE PORTED/SS3YJ5-41-STATION-M5, 01, C4, C6

Grommet (G), (H)



*[] for AC

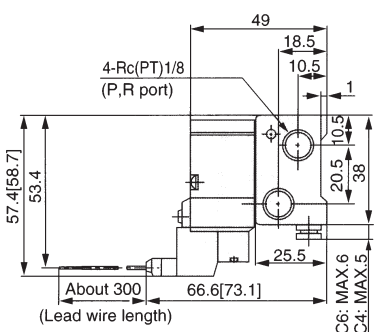
L type plug connector (L)



*[] for AC

*Other dimensions are the same as the grommet type.

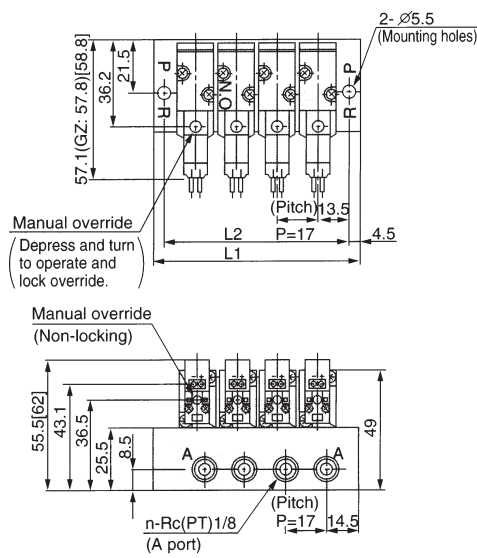
M type plug connector (M)



* [] for AC

* Other dimensions are the same as the grommet type.

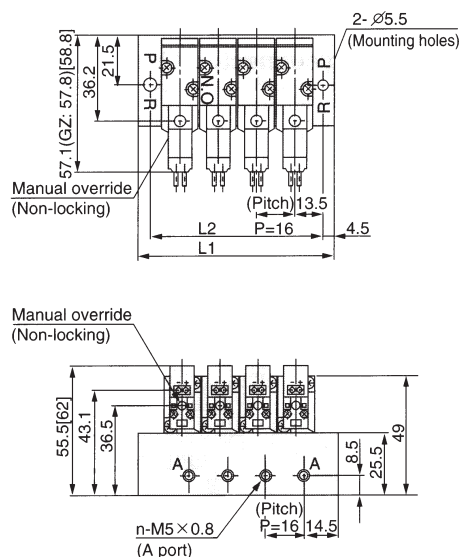
Rc(PT)1/8



*[] for AC

*Other dimensions are the same as same as the C4.C6.

With M5



*[] for AC

*Other dimensions are the same as the C4,C6.

Port size	Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
M5	L1	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
	L2	43	59	75	91	107	123	139	155	171	187	203	219	235	251	267	283	299	315	331
Rc(PT)1/8	L1	53	70	87	104	121	138	155	172	189	206	223	240	257	274	291	308	325	342	359
	L2	44	61	78	95	112	129	146	163	180	197	214	231	248	265	282	299	316	333	350
One-touch fitting	L1	50	66	82	98	114	130	146	162	178	194	210	226	242	258	274	290	306	322	338
	L2	41	57	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329



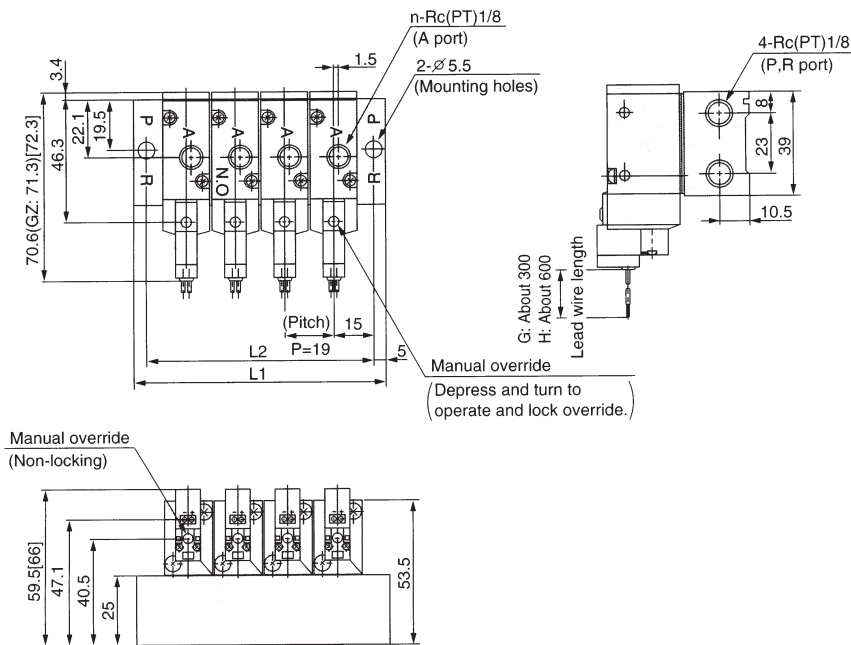
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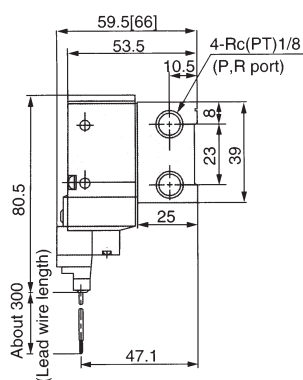
TYPE 20 MANIFOLD: TOP PORTED/SS3YJ7-20-STATION

Grommet (G), (H)

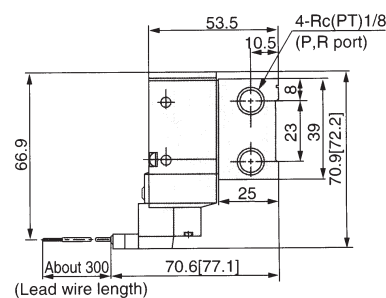


*[] for AC

L type plug connector (L)



M type plug connector (M)



*[] for AC

* Other dimensions are the same as the grommet type.

*[] for AC

*Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	59	78	97	116	135	154	173	192	211	230	249	268	287	306	325	344	363	382	401
L ₂	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391

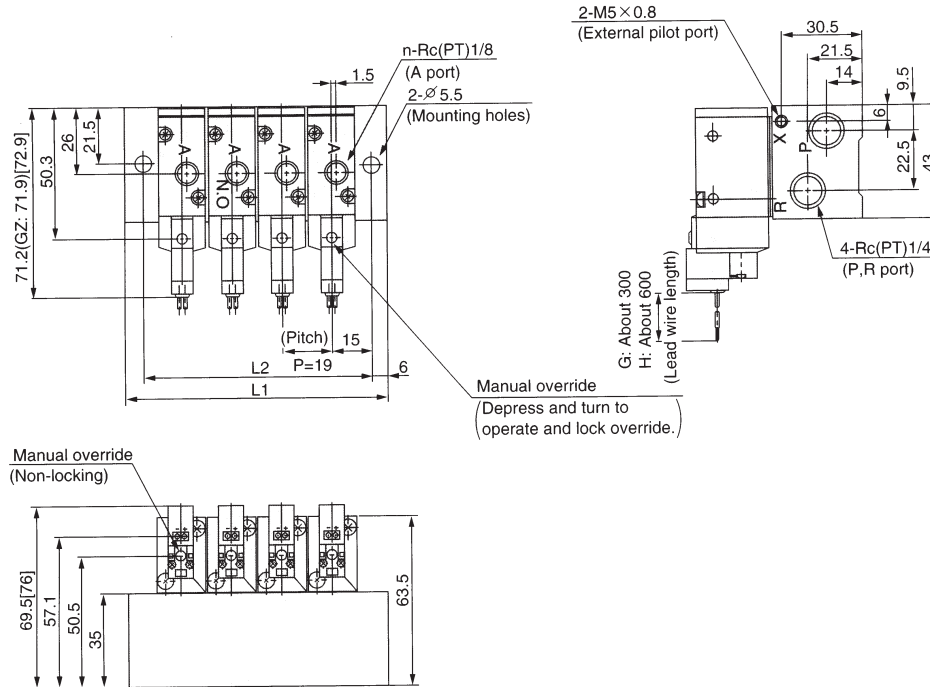


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DIMENSIONS

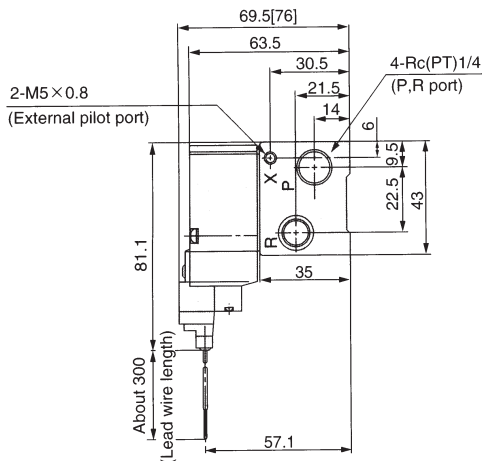
TYPE 21R MANIFOLD: TOP PORTED (EXTERNAL PILOT TYPE)/SS3YJ7-21R-STATION

Grommet (G), (H)

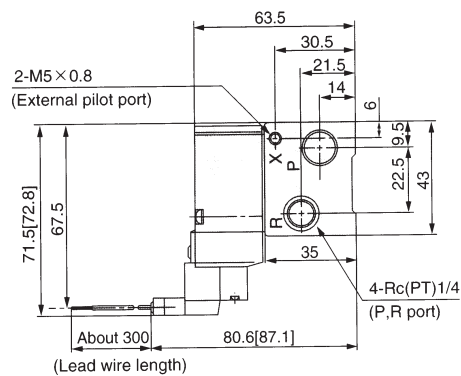


*[] for AC

L type plug connector (L)



M type plug connector (M)



*[] for AC

*Other dimensions are the same as the grommet type.

*[] for AC

*Other dimensions are the same as the grommet type.

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	61	80	99	118	137	156	175	194	213	232	251	270	289	308	327	346	365	384	403
L ₂	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391



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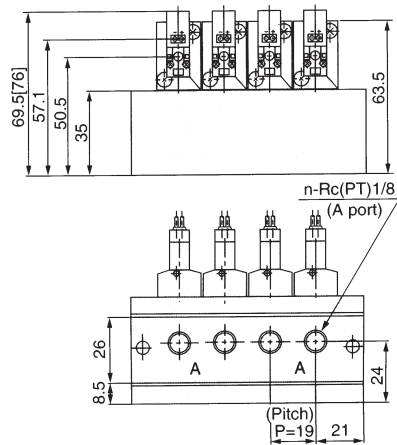


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DIMENSIONS

TYPE 41: BOTTOM PORTED/SS3YJ7-41-STATION-01

SS3YJ7-41-Station-01



* [] for AC

* Other dimensions are the same as type 42.

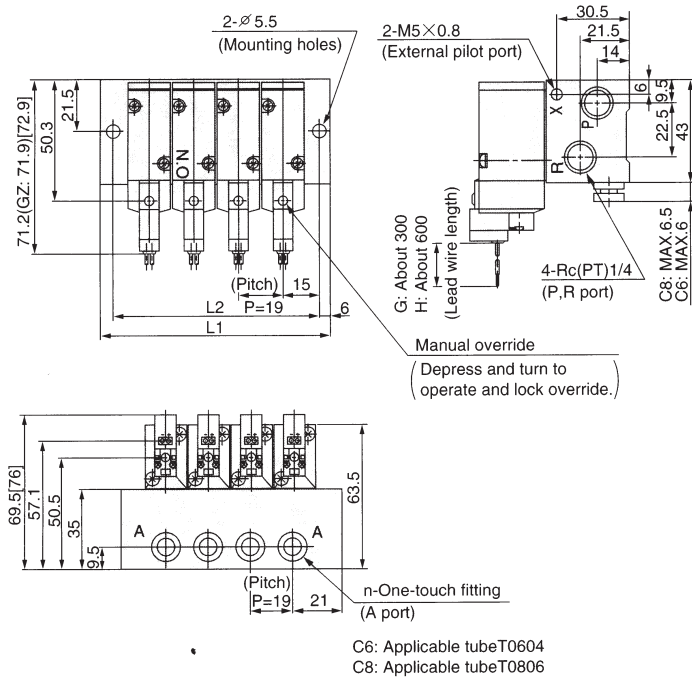


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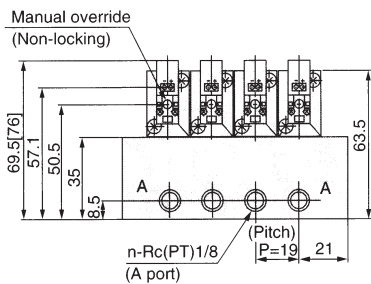
DIMENSIONS

TYPE 42R MANIFOLD: SIDE PORTED/SS3YJ7-42R-STATION-01,C6,C8

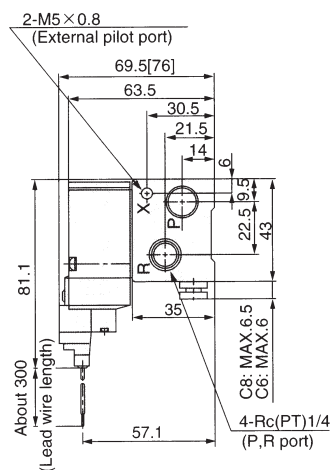
Grommet (G), (H)



Rc(PT)1/8

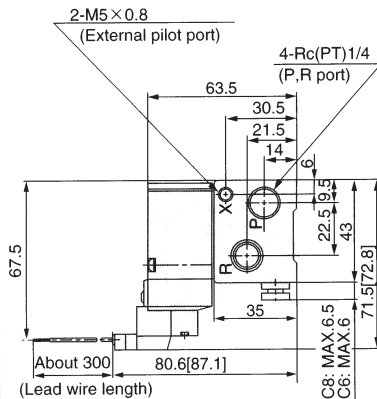


L type plug connector (L)



*[] for AC
*Other dimensions are the same as the grommet type.

M type plug connector (M)



*[] for AC
*Other dimensions are the same as the grommet type.

*[] for AC

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	61	80	99	118	137	156	175	194	213	232	251	270	289	308	327	346	365	384	403
L ₂	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391



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