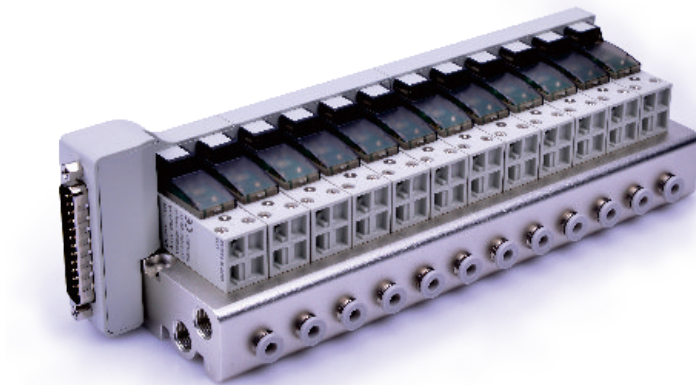


Integrated solenoid valve (3/2 way)

CPV15S Series(NPT)



Ordering code

CPV15S B 20F T

① ② ③ ④

① Model

CPV15S: CPV15S series integrated solenoid valve

② Voltage

B: DC24V
F: DC12V

③ Number of stations

2F: 2 stations
3F: 3 stations
4F: 4 stations
.....
20F: 20 stations

④ Thread type

T: NPT

Specification

Model		CPV15SB	CPV15SF
Integrated solenoid valve	Fluid	Air(to be filtered by 40 μ m filter element)	
	Acting	Direct acting	
	Number of stations	2~20 stations	
	Electrical entry	Terminal, 25pin D-Sub	
	Port size	P/R: NPT1/8 A: Φ5/32"(Push in fittings)	
	The type of Inlet and exhaust	Centralized inlet and exhaust	
	Operating pressure	0~114psi(0~0.8MPa)	
	Proof pressure	175psi(1.2MPa)	
	Temperature	-20~70℃	
Coil	Protection	Dustproof	
	Standard voltage	DC24V	DC12V
	Scope of voltage	DC±10%	
	Temperature classification	F Class	
	Power consumption	DC: 1.6W	

Product feature

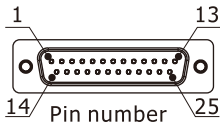
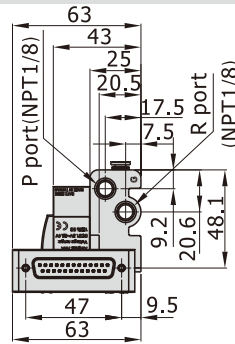
1. Integrated installation centralizes air intake, exhaust and power(25pin D-Sub)to save space and reduce additional accessories.
2. Flexible combination and expandability for various applications. Blank plates are optional.
3. Equipped with manual override for quick air circuit checking.
4. Low starting voltage and long service life.

Integrated solenoid valve (3/2 way)

CPV15S Series(NPT)

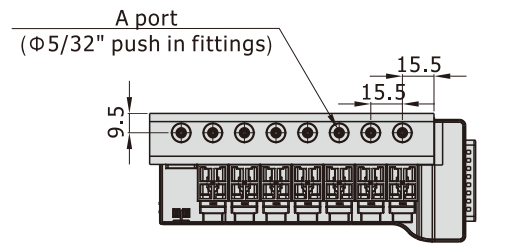
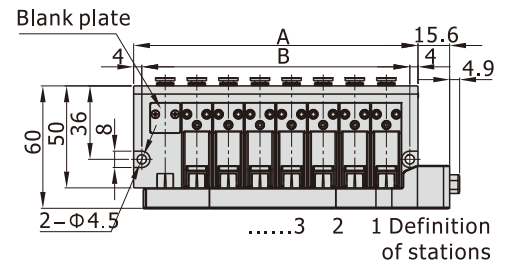
Dimensions

NPT thread



Terminal no.	Polarity		Control object	Terminal no.	Polarity		Control object
	-COM	+COM			-COM	+COM	
1	(+)	(-)	13 station	14	(+)	(-)	1 station
2	(+)	(-)	14 station	15	(+)	(-)	2 station
3	(+)	(-)	15 station	16	(+)	(-)	3 station
4	(+)	(-)	16 station	17	(+)	(-)	4 station
5	(+)	(-)	17 station	18	(+)	(-)	5 station
6	(+)	(-)	18 station	19	(+)	(-)	6 station
7	(+)	(-)	19 station	20	(+)	(-)	7 station
8	(+)	(-)	20 station	21	(+)	(-)	8 station
9			Void	22	(+)	(-)	9 station
10			Void	23	(+)	(-)	10 station
11			Void	24	(+)	(-)	11 station
12			Void	25	(+)	(-)	12 station
13	(-)	(+)	COM				

[Note] Gauge number of cable connecting to D-Sub pin No. 13 (COM) must be ≤ 22 AWG.



[Unit: mm]

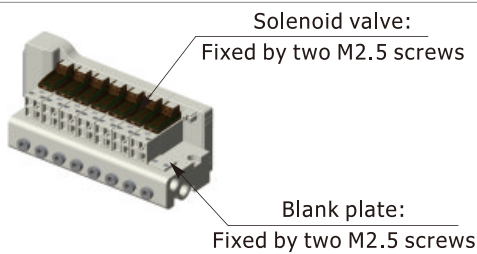
Dim.\Number of stations	2F	4F	6F	8F	10F
A	46.5	77.5	108.5	139.5	170.5
B	38.5	69.5	100.5	131.5	162.5

Dim.\Number of stations	12F	14F	16F	18F	20F
A	201.5	232.5	263.5	294.5	325.5
B	193.5	224.5	255.5	286.5	317.5

Installation and Application

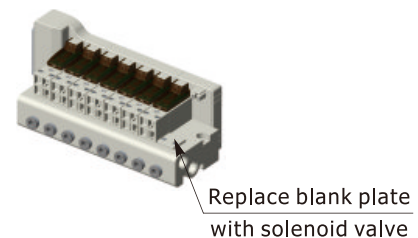
Assembly of micro-solenoid valve (blank plate) and manifold

Mount micro-solenoid valve and manifold by two M2.5 screws as following . Mount blank plate and manifold by two M2.5 countersunk screws as following .



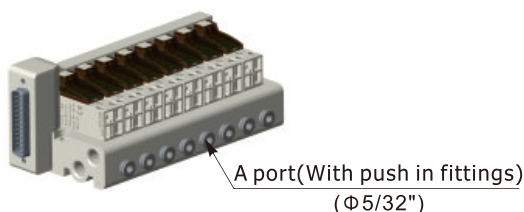
Expansion of micro-solenoid valve

Remove blank plate and install solenoid valve by the assembly instruction.



A port tubing

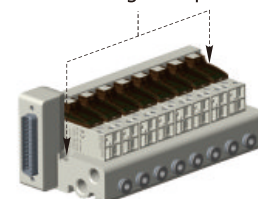
A port is at the side of manifold, port size is "φ5/32"



Manifold mounting

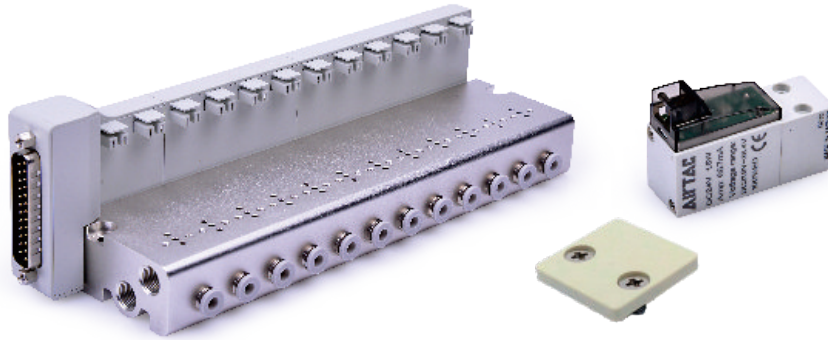
Both sides of manifold attach two installing through-holes, using two M4 hexagon cap screws to fix.

Installing through-holes (using two M4 hexagon cap screws to fix)



Integrated solenoid valve (3/2 way)

CPV15S Series (NPT)— Manifold, solenoid valve and blank plate



Ordering code

Ordering code of manifold



CPV15S 20F T

① ② ③

① Model

CPV15S: CPV15S series integrated solenoid valve

② Number of stations

2F: 2 stations
4F: 4 stations
6F: 6 stations
.....
20F: 20 stations

③ Thread type

T: NPT

Ordering code of valve



CPV15 B P

① ② ③

① Model

CPV: CPV series micro-solenoid valve

② Voltage

B: DC24V
F: DC12V

③ Code of manual override

P: With manual override

Ordering code of blank plate



P-CPV15S-R2

① ②

① Model

CPV15S: CPV15S series integrated solenoid valve

② Code

R2: Blank plate for manifold

[Note] Blank plate kits contains blank plate, gasket and screw.

[Note] 1. Ordering code contains solenoid valve, manifold, and blank plate.
2. Maximum station up to 20 stations.

Integrated solenoid valve (3/2 way)

CPV15S Series (NPT)— Manifold, solenoid valve and blank plate

Specification

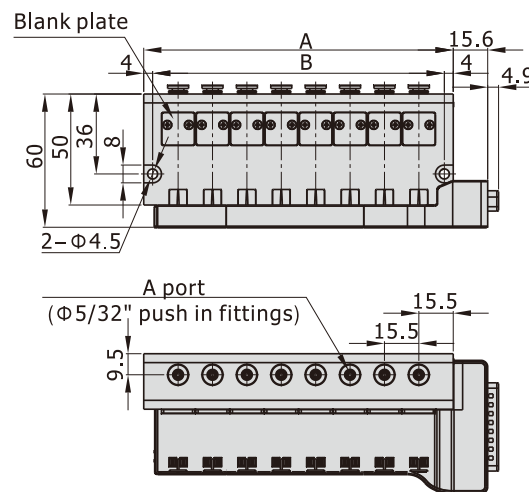
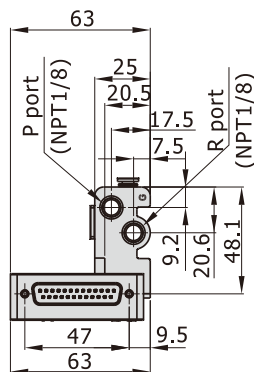
Model		CPV15S
Fluid		Air(to be filtered by 40 μm filter element)
Number of stations		2 stations ~20 stations, only available in even stations
Electrical entry		Terminal, 25pin D-Sub
Port size		P/R: NPT1/8 A: $\Phi 5/32$ "(Push in fittings)
The type of Inlet and exhaust		Centralized inlet and exhaust
Operating pressure		0~114psi(0~0.8MPa)
Proof pressure		175psi(1.2MPa)
Temperature		-20~70°C
Weight	Integrated valve of 2 stations	158.5g(not include CPV15 valve)
	Increase when add 2 satations	+97.65g
	Blank plate kits	0.65g

Product feature

1. Integrated installation centralizes air inlet, exhaust and power (25pin D-Sub)to save space and reduce additional accessories.
2. Flexible combination and expandability for various applications. Blank plates are optional.

Dimensions

NPT thread



[Unit: mm]

Dim.\Number of stations	2F	4F	6F	8F	10F	12F	14F	16F	18F	20F
A	46.5	77.5	108.5	139.5	170.5	201.5	232.5	263.5	294.5	325.5
B	38.5	69.5	100.5	131.5	162.5	193.5	224.5	255.5	286.5	317.5

Installation and Application

Please refer to the "Installation and Application " instruction of Integrated solenoid valve(NPT thread) .

Micro-solenoid valve(3/2 way)

CPV15 Series



Ordering code

Ordering code of valve



CPV 15 B P-050

① ② ③ ④ ⑤

① Model	② Width of body	③ Voltage
CPV: CPV series Micro-solenoid valve	15: 15mm	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V
④ Code of manual pin	⑤ Wire length [Note1]	
P: With manual override	050: 0.5m 200: 2.0m	

[Note1] Contain the two M2.5 screws.

Ordering code of terminal wire



CPV T 050

① ② ③

① Model	③ Wire length	
CPV: CPV series Micro-solenoid valve	050: 0.5m	200: 2.0m
② Terminal wire		
T: Terminal wire		

Specification

Model	CPV15	
Fluid	Air(to be filtered by 40 μ m filter element)	
Acting	Direct acting	
Nominal diameter	Φ0.8mm	
Effective area	P to A:0.44mm ² (Cv=0.024); A to R:0.55mm ² (Cv=0.03)	
Valve type	3 / 2 way	
Weight	micro-solenoid valve	33.2g
	Terminal line	050: 4.6g 200: 21.4g
	Screw(2pcs)	1.45g
Operating pressure	0~114psi(0~0.8MPa)	
Proof pressure	175psi(1.2MPa)	
Temperature	-20~70°C	
Standard voltage	AC220V AC110V AC24V DC24V DC12V	
Scope of voltage	Dc±10%; AC+15%~-10%	
Protection	Dustproof	
Temperature classification	F Class	
Power consumption	DC: 1.6W; AC: 2.0VA	
Electrical entry	Terminal	
Activating time	on<10ms; off<10ms	

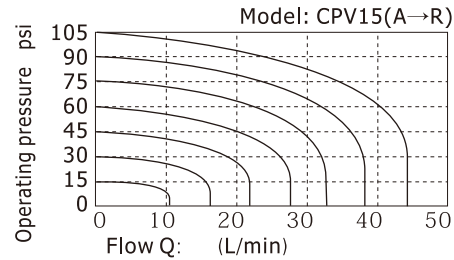
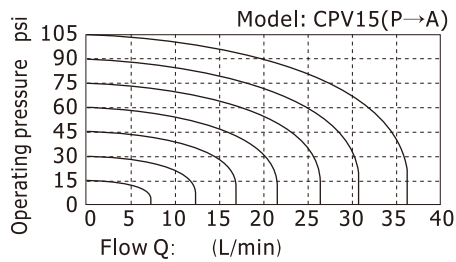
Micro-solenoid valve(3/2 way)

CPV15 Series

Product feature

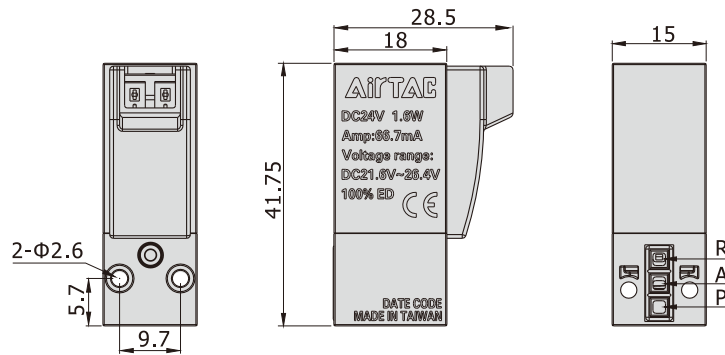
1. Multi-direction installation and polarless circuit design.
2. Low starting voltage and long service life.
3. AC voltage models possess a built-in full wave rectifier circuit to reduce the noise effectively.
4. With anti-surge component can avoid the damage of solenoid valve.

Flow chart



Dimensions

[Unit: mm]



Installation and Application

1. Micro-solenoid valve assembly
Fastened with torque of 0.4~0.45N.m by two M2.5X19L screws.
2. Wiring instruction
Multi-direction installation and polarless circuit design.
Note: The terminal wire is non-polarity.
3. Prevent to connect AC coils in series with other devices.



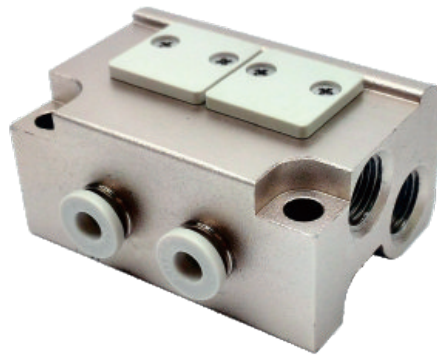
Vertically insert
(Wire is vertical to valve)



Horizontally insert
(Wire is parallel to valve)

Micro-solenoid valve(3/2 way)

CPV15 Series — Manifold (NPT)



Ordering code

Ordering code of manifold

CPV15M 20F T

① ② ③

① **Model**

CPV15M: CPV15 series manifold

② **Number of stations**

2F: 2 station
3F: 3 station
4F: 4 station
.....
20F: 20 station

③ **Thread type**

T: NPT

Ordering code of blank plate



P-CPV15S-R2

① ②

① **Model**

CPV15S: CPV15S series integrated solenoid valve

② **Code**

R2: Blank plate for manifold

- [Note] 1. Ordering code contains manifold and blank plate.
2. Maximum station up to 20 stations.
3. Blank plate kits contain blank plate, gasket and screw.

Specification

Model	CPV15M2F	CPV15M3F	CPV15M4F	CPV15M20F
Fluid	Air(to be filtered by 40 μm filter element)				
Temperature	-20~70°C				
Port size	P/R: NPT1/8 A: Φ5/32"(Push in fittings)				
Applicable valves	CPV15 series micro-solenoid valve				

Product feature

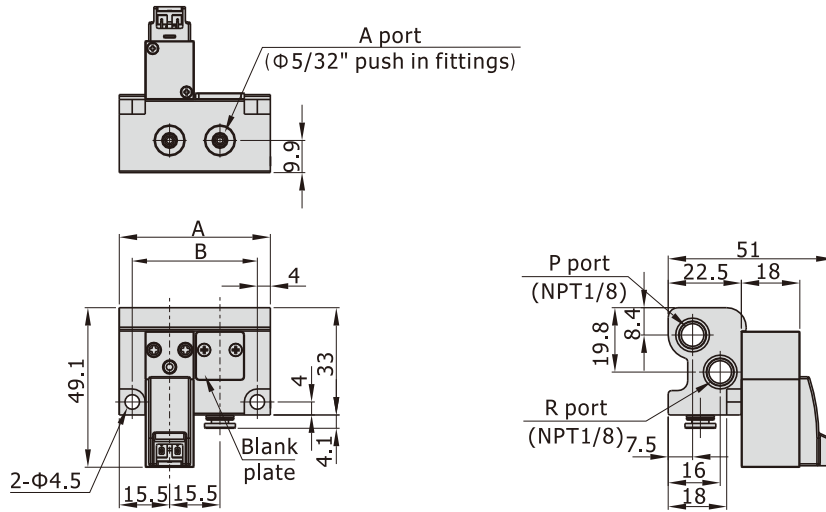
1. Integrated installation saves space and reduces additional accessories.
2. Centralized air intake, exhaust, and wiring for quick air circuit checking.
3. Flexible combination and expandability for various applications.
Blank plates are optional.

Micro-solenoid valve(3/2 way)

CPV15 Series — Manifold (NPT)

Dimensions

NPT thread



[Unit: mm]

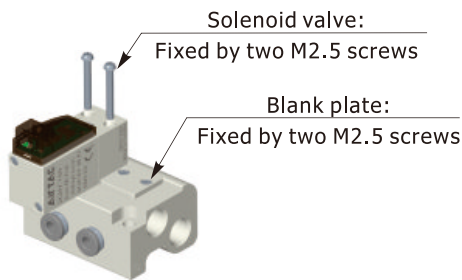
Item\Number of stations	2F	3F	4F	5F	6F	7F	8F	9F	10F
A	46.5	62	77.5	93	108.5	124	139.5	155	170.5
B	38.5	54	69.5	85	100.5	116	131.5	147	162.5

Item\Number of stations	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	186	201.5	217	232.5	248	263.5	279	294.5	310	325.5
B	178	193.5	209	224.5	240	255.5	271	286.5	302	317.5

Installation and Application

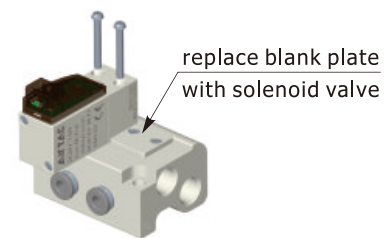
Assembly of micro-solenoid valve (blank plate) and manifold

Mount micro-solenoid valve and manifold by two M2.5 screws as following .
Mount blank plate and manifold by two M2.5 countersunk screws as following .



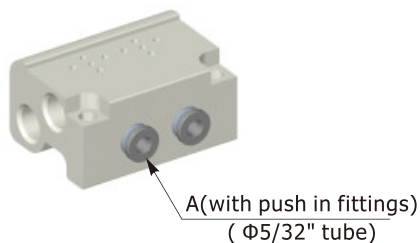
Expansion of micro-solenoid valve

Remove blank plate and install solenoid valve by the assembly instruction.



A port tubing

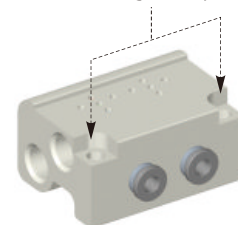
A port is at the side of manifold, port size is " $\Phi 5/32''$ "



Manifold mounting

Both sides of manifold attach two installing through-holes, using two M4 hexagon cap screws to fix.

Installing through-holes (using two M4 hexagon cap screws to fix)



Integrated solenoid valve's cable



F-DSUB25/F-DSUB37



Specification

1. Flame resistant grade: UL94 VW-1.
2. Rated temperature: 80°C.
3. Rated voltage: 300V.

How to select cable

Cable type \ Valve type	CPV10S	CPV15S
F-DSUB25	●	●
F-DSUB37		

Cable ordering code

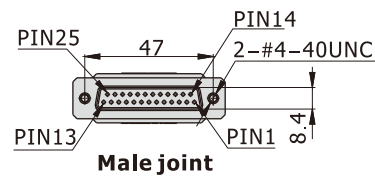
F - D S U B 2 5 F 2 0 0



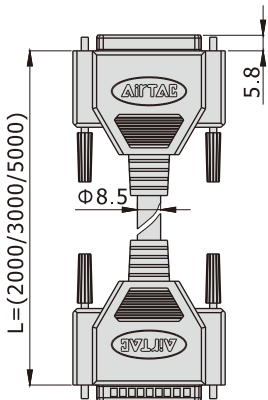
① Model	DSUB: D-SUB Cable		
② Pin Number	25: 25PIN	37: 37PIN	
③ Terminal type	F: Two Females	M: One Female+another male	
④ Wire length	200: 2m	300: 3m	500: 5m

Dimensions and wire's assignment

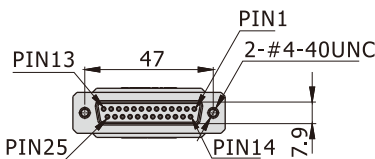
F-DSUB25 [Unit: mm]



Male joint



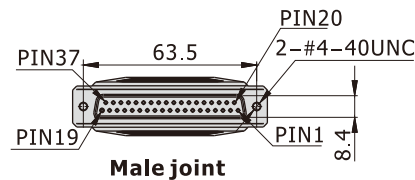
Female joint



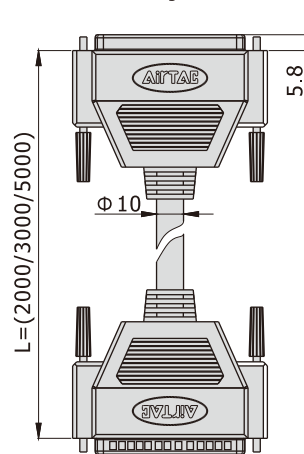
Wire's assignment

PIN	Color
1	Red+Black
2	Gray+Black
3	Brown+Black
4	Orange+Black
5	Yellow+Black
6	Green+Black
7	Blue+Black
8	White+Black
9	Violet+Red
10	Silt green+Black
11	Pink blue+Black
12	Pink+Black
13	Black
14	Red
15	Gray
16	Brown
17	Orange
18	Yellow
19	Green
20	Blue
21	White
22	Violet
23	Silt green
24	Pink blue
25	Pink

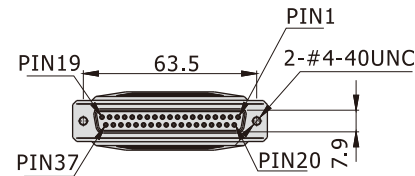
F-DSUB37 [Unit: mm]



Male joint



Female joint



Wire's assignment

PIN	Color
1	Red+Black
2	Gray+Black
3	Brown+Black
4	Orange+Black
5	Yellow+Black
6	Green+Black
7	Blue+Black
8	White+Black
9	Violet+Red
10	Silt green+Black
11	Pink blue+Black
12	Pink+Black
13	Red
14	Gray
15	Brown
16	Orange
17	Yellow
18	Green
19	Black
20	Blue
21	White
22	Violet
23	Silt green
24	Pink blue
25	Pink
26	Red+White
27	Gray+White
28	Brown+White
29	Orange+White
30	Yellow+White
31	Green+White
32	Blue+White
33	Violet+White
34	Silt green+White
35	Pink blue+White
36	Pink+White
37	Red+Green

