
**Koganei Brand**
**All products**
**RoHS-compliant**

# Redesigned Solenoid Valves F10 and F15 Series!

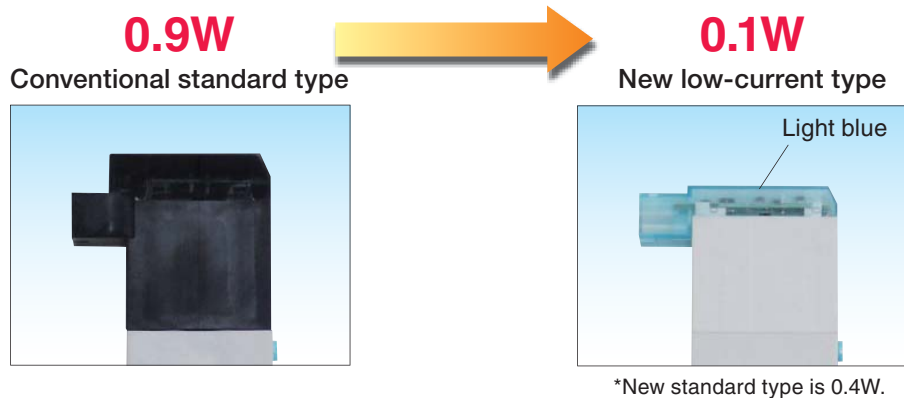
Now even  
easier to use  
**SIX** features



## 1 Achieves power consumption of just 0.1W!

(For low-current type)

- Large reduction in power consumption and 6 mm [0.236 in.] shorter total length.



## 2 Tandem 3-port valve has newly been added!

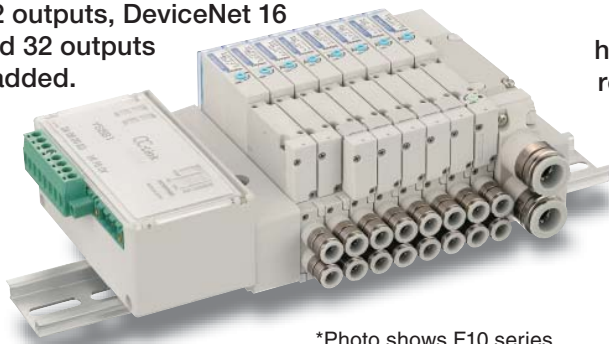
- Two 3-port valve functions in one valve body.
- The same 3-port valve operation with half the number of the conventional valves.

Model	4(A) side	2(B) side	Symbol
F10□TA F15□TA	Normally closed (NC)	Normally closed (NC)	
F10□TB F15□TB	Normally open (NO)	Normally open (NO)	
F10□TC F15□TC	Normally closed (NC)	Normally open (NO)	

### 3 Slim and compact!

#### ■ Serial transmission type

- Transmission portion and manifold combined in a single-piece construction.  
\*Excluding some models.
- CC-Link 32 outputs, DeviceNet 16 outputs and 32 outputs types are added.



\*Photo shows F10 series.

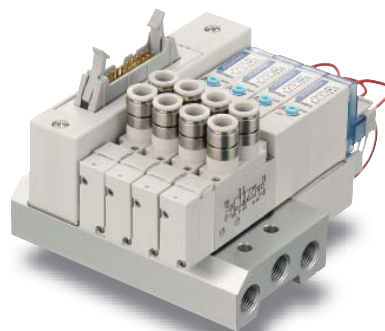
#### ■ Monoblock manifold F type



\*Photo shows F10 series.

### 4 Wire-saving type has been added to monoblock manifold!

- Wire-saving type added to monoblock manifold A and F types.
- Wiring specifications for flat cable connector and D-sub connector are available.

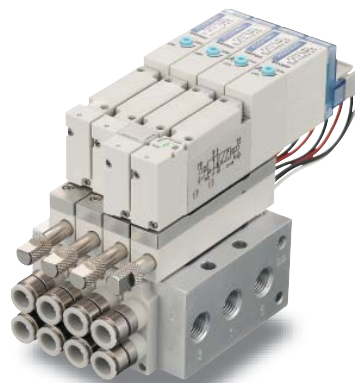


\*Photo shows F10 series monoblock manifold wire-saving F type.

### 5 Stop valve (optional) has been added!

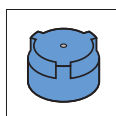
**Excludes split manifold plug-in type and serial transmission type.**

- Stop valve enables the opening and closing of each unit's flow path without shutting off the main supply air.



### 6 Back pressure prevention valve (optional) has been added!

- Prevents back pressure problems caused when operating single acting cylinders, etc.



#### Back pressure prevention valve

Two back pressure prevention valves are mounted on the manifold side. This prevents cylinder malfunctions caused by the exhaust air from other valves.



#### Caution:

For details of changes in specifications due to this product redesign, see "Notification of Changes to the Solenoid Valves F10 and F15 Series Specifications," starting on p.2.

# Notification of Changes to the Solenoid Valves F10 and F15 Series Specifications

Thank you for using our products.

Now we have undertaken to introduce some changes to the specifications of the popular Solenoid Valves F10 and F15 Series (no specification changes have been made to the Solenoid Valves F18 Series).

This pamphlet presents the details of these changes for your confirmation and acceptance.

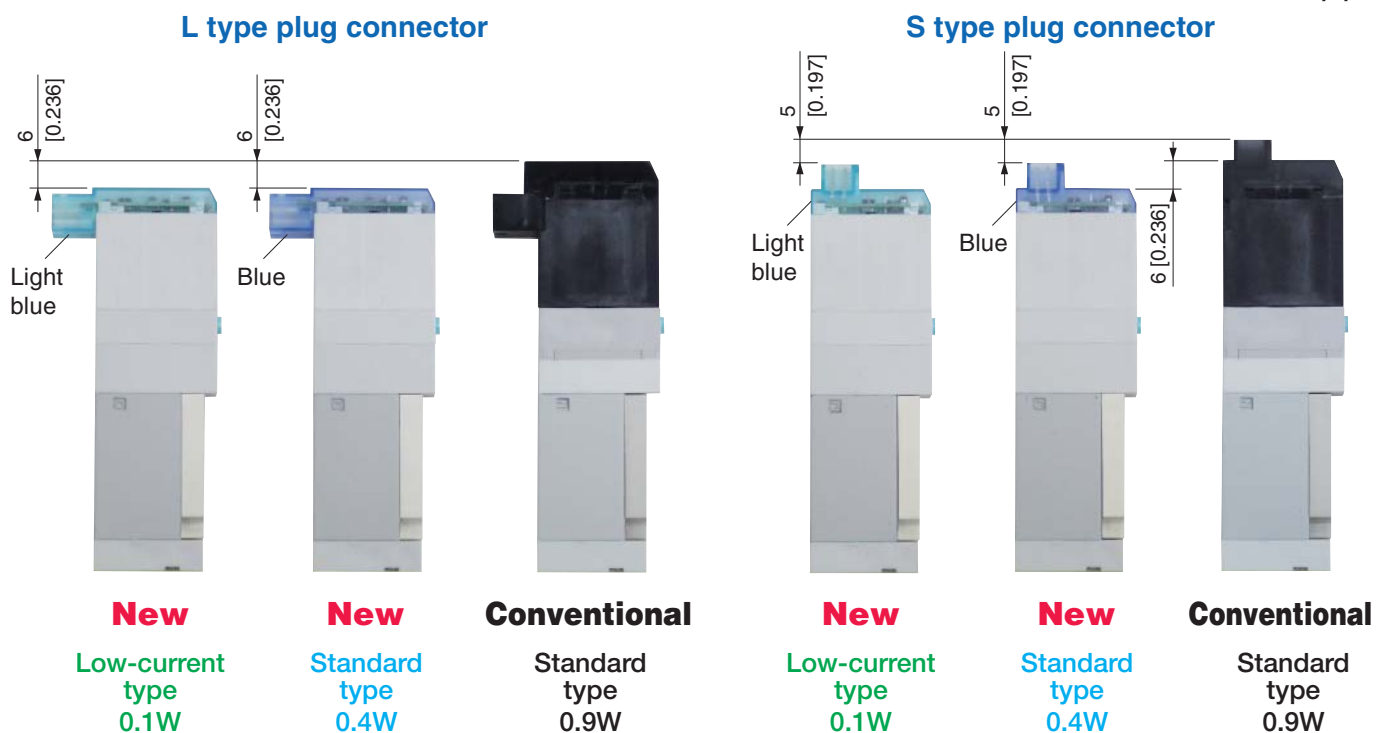
We hope for your understanding of these changes and for your continued use in the future.

## ■ Descriptions of changes

### ● Single valve unit

- Large reduction in power consumption and 6 mm [0.236 in.] shorter in total length while maintaining 100% mounting and wiring interchangeability with the conventional model.

Unit: mm [in.]



\*Photo shows F10 series. (F15 series is similar.)

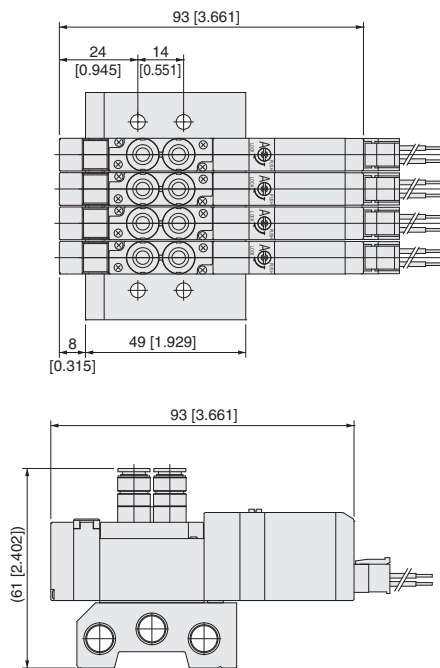
- High-speed circuit employed on coil circuit board to achieve faster OFF response.
- Newly designed A and B independent coils allow for optional tandem 3-port valve.

## ● Monoblock manifold

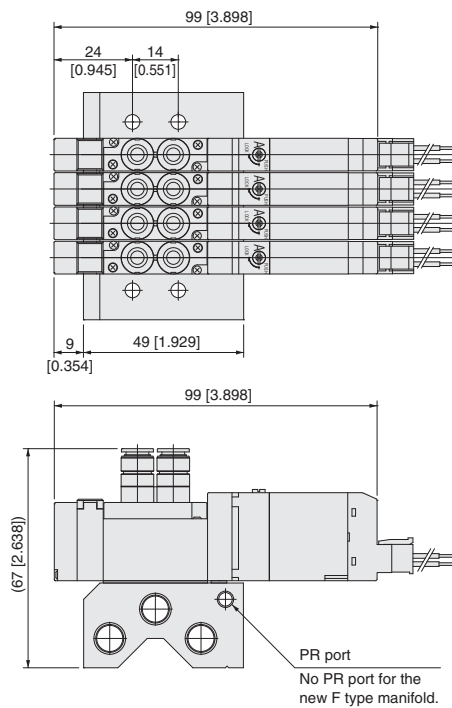
- More compact F type manifold that eliminates PR port (collected in 5 (R1) port).

### ■ F10 Series (reference) mm [in.]

#### New F type manifold

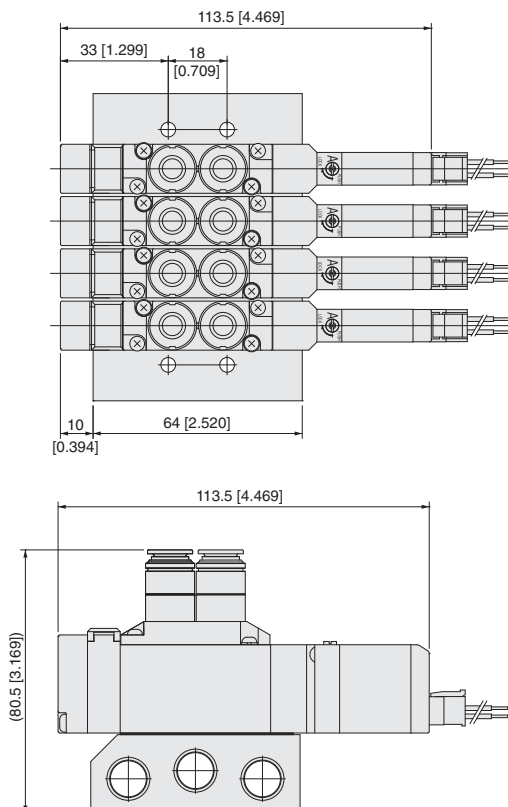


#### Conventional F type manifold

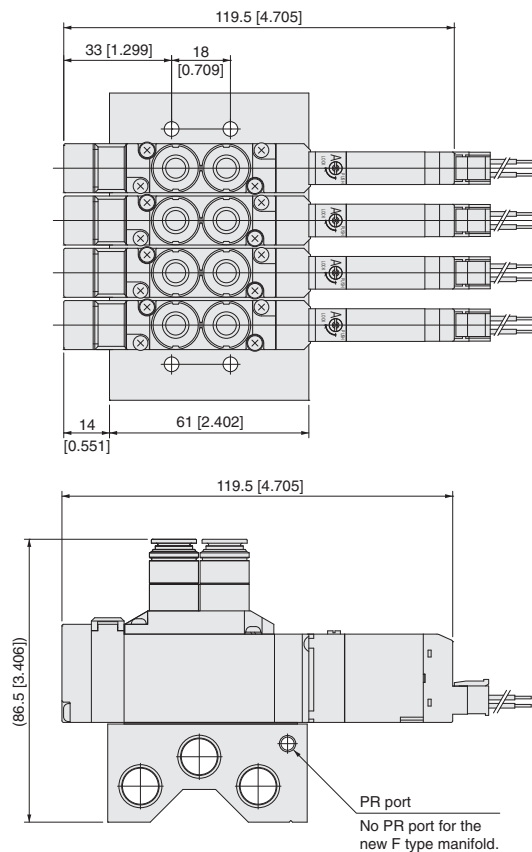


### ■ F15 Series (reference) mm [in.]

#### New F type manifold



#### Conventional F type manifold

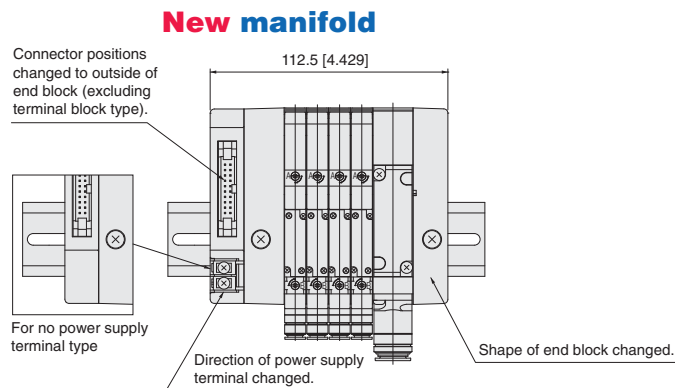


- Optional back pressure prevention valve for both the A type and F type manifolds now available.
- Optional sandwich-type stop valve now available.

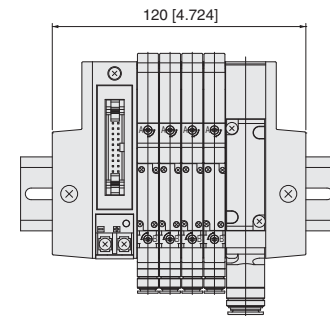
## ● Split type manifold/serial transmission compatible manifold

- Coil portion flattened by minimizing the valve size.
- Enables selection and switching between upward-facing and side-facing for flat cable and D-sub connector installation.
- Optional no power supply terminal type (standard type comes with power supply terminal) now available.
- More compact serial transmission device and manifold combined in single-piece construction (some models connected with flat cable).
- Optional back pressure prevention valve now available.
- Changed color of valve base assembly cover from light blue to ivory in order to enable identification between the conventional type and new type.

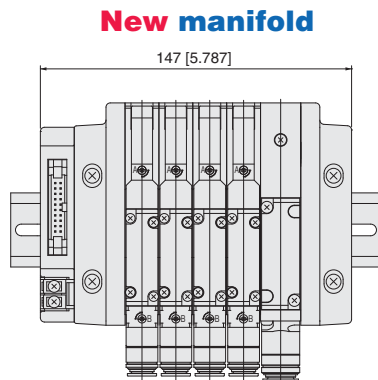
### ■ F10 Series split manifold plug-in type (reference) mm [in.]



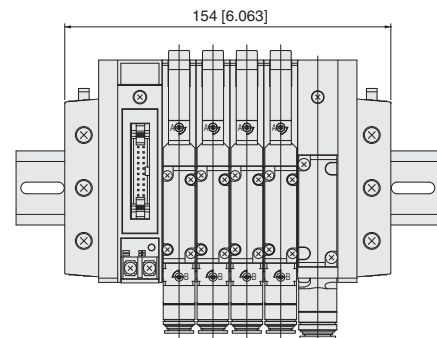
### Conventional manifold



### ■ F15 Series split manifold plug-in type (reference) mm [in.]



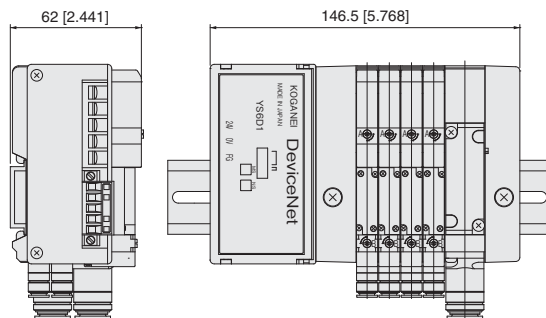
### Conventional manifold



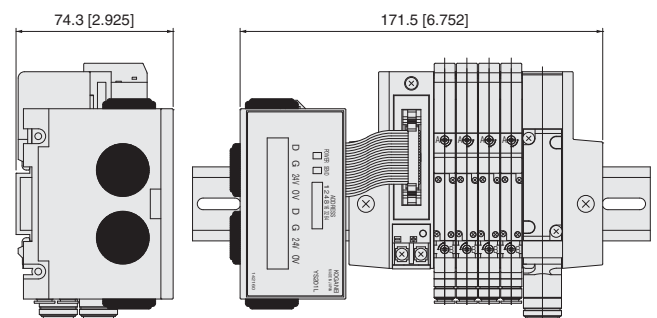
### ■ F10 Series serial transmission compatible manifold (reference) mm [in.]

**New manifold**

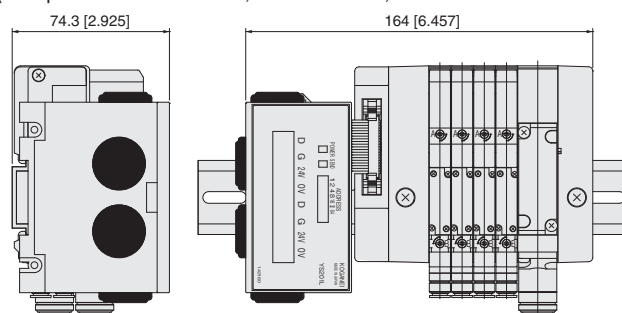
Monoblock type  
(Compatible with CC-Link, DeviceNet, CompoNet, and CompoBus/S)



### Conventional manifold



Flat cable connection type  
(Compatible with Uni-Wire®, SUNX S-LINK, and OMRON B7A link terminal)



\*While dimensions show F10 Series, the F15 Series is similar.

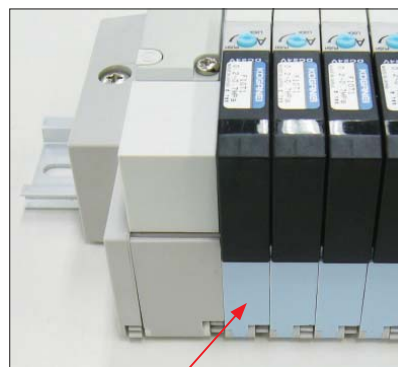
■ Reference photo: Valve base assembly (Photo shows F10 Series.)

### New manifold



Color of cover: Ivory

### Conventional manifold



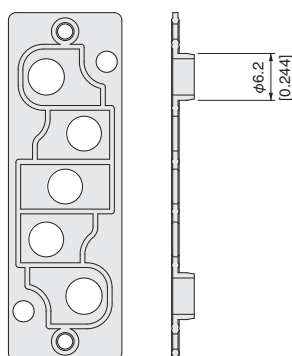
Color of cover: Light blue

## ● Gasket for monoblock manifold

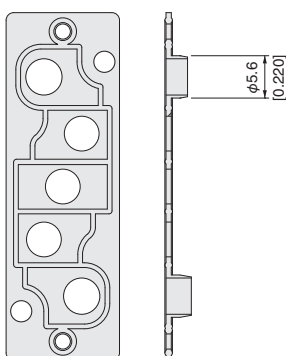
With addition of the back pressure prevention valve as an option, some of the gasket dimensions have changed.

Please be aware that there is no interchangeability between the conventional type and new type.

### For new manifold



### For conventional manifold



ISO9001  
ISO14001



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- ISO 14001 certified offices are Main Office, Tokyo Plant, and Komagane Plant.

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