

# MELFA Technical News

**July 2021**
**Subject: RoHS directive compliance schedule**
**Applicable to:** RV-FR Series, RV-CR Series, RV-F Series, RH-FR Series, RH-CH Series RH-F Series, RH-FRHR Series, RH-FHR Series, ASSISTA

Thank you for your continued support of Mitsubishi industrial robot "MELFA".

Mitsubishi Industrial Robot's compliance with substances regulated by the RoHS Directive (\* 1) is announced.

\*1: RoHS Directive means "Directive 2011/65/EU of the European Parliament and of the Council of June 8, 2011 on restrictions on the use of certain hazardous substances in electrical and electronic equipment".

We announced at "MELFA Technical News BFP-A6079-0285 RoHS directive compliance schedule and change of packing label indication", we will inform you that all of the applicable products have been supported.

## **1. Products to be compliant with Substances Regulated by the RoHS Directive**

### **1.1 Compatible models and schedule of implementation**

The models and schedule that comply with substances regulated by the RoHS Directive are as follows.

Type	Series Name (Include catalog listing options)	Schedule of compliance of standard machines with RoHS Directive (10 substances) (* 2)	Remarks
Vertical articulated type	RV-FR series	Shipped in January 2021	Of the covered options, Please refer to section 1.2 for the schedule of solenoid valve.
	RV-CR series	Shipped in January 2021	
	RV-F series	RV-2/4/7/13/20F Series Not supported	
Horizontal articulated type	RH-FR series	Shipped in January 2021	
	RH-CH series	Not supported	
	RH-F series	Not supported	
	RH-FRHR series	Shipped in January 2021	
	RH-FHR series	Not supported	
Collaborative robot	ASSISTA	Shipped in January 2021	

Please refer to the "Declaration of Conformity" for the correspondence of special machines including CE specification machines.

Please contact your sales representative for details.

\*2: The European Commission Delegated Directive (EU) 2015/863 added 4 substances, including lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, bis (2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), and diisobutyl phthalate (DIBP). The inclusion of 10 substances below the threshold regulated by the RoHS Directive (\* 4) indicates compliance with the RoHS Directive (10 substances). However, this does not include applications that are exempt from the RoHS Directive.

\*3: The regulation values are as follows: Concentration of homogeneous material (material that is no longer mechanically separable)

(1)Cadmium: 0.01 wt% or less(2)Lead, mercury, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP, DIBP: 0.1 wt% or less

## 1.2 Schedule of compliance of solenoid valves with the RoHS Directive

The product will be supported sequentially from January 2021, and all products are finished to be supported. The applicable products are as follows.

Table 1.2.1 Sink types

Type	Specifications
1S-VD01-05	1 valves with solenoid valve cable
1S-VD02-05	2 valves with solenoid valve cable
1S-VD03-05	3 valves with solenoid valve cable
1S-VD04-05	4 valves with solenoid valve cable
1S-VD01-01	1 valves with solenoid valve cable
1S-VD02-01	2 valves with solenoid valve cable
1S-VD03-01	3 valves with solenoid valve cable
1S-VD04-01	4 valves with solenoid valve cable
1F-VD01-01	1 valves with solenoid valve cable
1F-VD02-01	2 valves with solenoid valve cable
1F-VD03-01	3 valves with solenoid valve cable
1F-VD04-01	4 valves with solenoid valve cable
1F-VD01-02	1 valves with solenoid valve cable
1F-VD02-02	2 valves with solenoid valve cable
1F-VD03-02	3 valves with solenoid valve cable
1F-VD04-02	4 valves with solenoid valve cable
1F-VD01-03	1 valves with solenoid valve cable
1F-VD02-03	2 valves with solenoid valve cable
1F-VD03-03	3 valves with solenoid valve cable
1F-VD04-03	4 valves with solenoid valve cable
1F-VD01-04	1 valves with solenoid valve cable <SE01>
1F-VD02-04	2 valves with solenoid valve cable <SE01>
1F-VD03-04	3 valves with solenoid valve cable <SE01>
1F-VD04-04	4 valves with solenoid valve cable <SE01>
1F-VD01-05	1 valves with solenoid valve cable <SE01>
1F-VD02-05	2 valves with solenoid valve cable <SE01>
1F-VD03-05	3 valves with solenoid valve cable <SE01>
1F-VD04-05	4 valves with solenoid valve cable <SE01>

Table 1.2.2 Source types

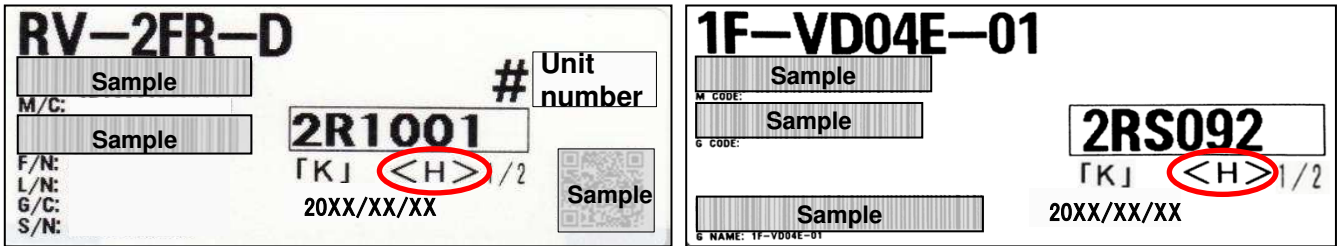
Type	Specifications
1S-VD01E-05	1 valves with solenoid valve cable
1S-VD02E-05	2 valves with solenoid valve cable
1S-VD03E-05	3 valves with solenoid valve cable
1S-VD04E-05	4 valves with solenoid valve cable
1S-VD01E-01	1 valves with solenoid valve cable
1S-VD02E-01	2 valves with solenoid valve cable
1S-VD03E-01	3 valves with solenoid valve cable
1S-VD04E-01	4 valves with solenoid valve cable
1F-VD01E-01	1 valves with solenoid valve cable
1F-VD02E-01	2 valves with solenoid valve cable
1F-VD03E-01	3 valves with solenoid valve cable
1F-VD04E-01	4 valves with solenoid valve cable
1F-VD01E-02	1 valves with solenoid valve cable
1F-VD02E-02	2 valves with solenoid valve cable
1F-VD03E-02	3 valves with solenoid valve cable
1F-VD04E-02	4 valves with solenoid valve cable
1F-VD01E-03	1 valves with solenoid valve cable
1F-VD02E-03	2 valves with solenoid valve cable
1F-VD03E-03	3 valves with solenoid valve cable
1F-VD04E-03	4 valves with solenoid valve cable
1F-VD01E-04	1 valves with solenoid valve cable <SE01>
1F-VD02E-04	2 valves with solenoid valve cable <SE01>
1F-VD03E-04	3 valves with solenoid valve cable <SE01>
1F-VD04E-04	4 valves with solenoid valve cable <SE01>
1F-VD01E-05	1 valves with solenoid valve cable <SE01>
1F-VD02E-05	2 valves with solenoid valve cable <SE01>
1F-VD03E-05	3 valves with solenoid valve cable <SE01>
1F-VD04E-05	4 valves with solenoid valve cable <SE01>

**2. Addition of the packing box label seal (This section is same as BFP-A6079-0285)**

**2.1 Contents**

The < H > mark is indicated in the label placed on the packaging box of RoHS Directive compliant products (10 substances). (\* 4)

Example of display)



\*4 The <H> mark does not assure the product is compliant with RoHS directive. It is an indication, used for Mitsubishi Electric products only, just indicating that the concentrations of 10 restricted substances are less than the values specified by the RoHS II Directive.

**2.2 Schedule**

<H> marks will be indicated for the products sequentially from January 2021.

However, display date may change during the distribution process.

Additionally, when this changes are reflected will depend on the product. Thank you for your understanding.

Therefore, some products that comply with the RoHS Directive (10 substances) do not have the < H > mark. Please refer to section 1 for the schedule of compliance with the RoHS Directive (10 substances).

End