

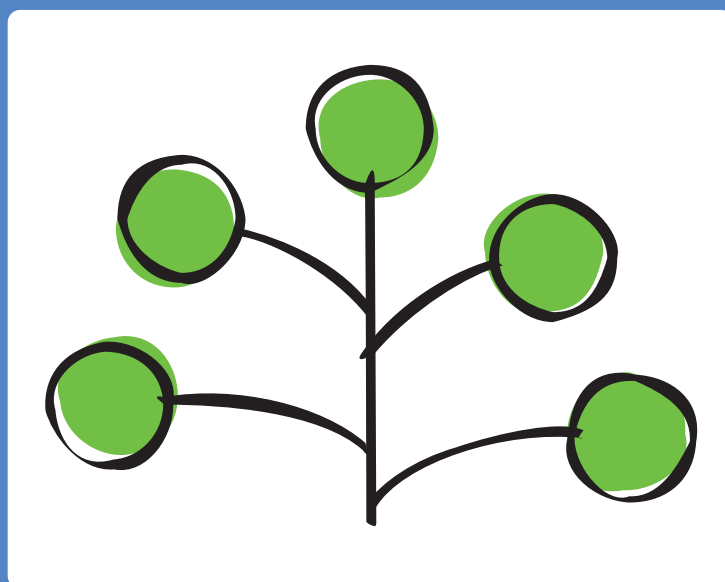
<http://www.koganei.co.jp>

ISO9001

ISO14001



Guidebook for Compliance with **RoHS** Directives, for All Koganei Brand Products



Use this guidebook alongside the Koganei General Catalogs

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Guide to Compliance with RoHS Directives for All Koganei Brand Products

RoHS directives were implemented throughout the EU area on July 1, 2006, targeting electrical and electronic equipment with restrictions on usage volumes for six toxic substances, including Pb (lead), Cd (cadmium), Hg (mercury), Chromium VI, PBB (polybrominated biphenyl), and PBDE (polybrominated diphenyl ether).

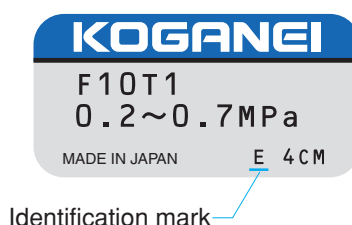
In response to this action, Koganei implemented changes in product design and purchased parts that were needed in order to come into line with the RoHS directives, and promoted the development and application of replacement technologies, such as leadless solder to avoid the use of lead. At the same time, on the procurement side, Koganei established the Green Partner Program in December 2004, securing cooperation with all companies that supply parts and materials to bring all 300000-plus Koganei brand products into compliance. As a result, Koganei has created an environment in which electrical and electronic equipment manufacturers can use Koganei products with confidence.

Products in compliance with RoHS directives display an identifying “E” mark, and all products shipped by Koganei on the implementation date of July 1, 2006 and on also display this mark.

How to order Koganei Brand Products in Compliance with RoHS Directives

Koganei products are sold via distributors and Koganei sales offices. While distribution warehoused items are normally rotated out in order, for customers who specify “RoHS directive-compliant products,” Koganei is ready to provide products that are all in compliance. After delivery, customers can check for the identifying “E” mark.

For questions about how to order or identifying mark, contact your nearest Koganei sales office or Overseas Department.



Guidelines for Compliance with RoHS Directives



コガネイグリーン調達

KOGANEI GREEN PROCUREMENT

コガネイは、お客様のグリーン調達要求にお応えすべく、環境に配慮した製品を開発し、提供致します。

コガネイは、グリーンパートナー制度を設け、環境保全活動に積極的に取り組んでいる取引先様から環境負荷の少ない製品・部品・材料などを調達し、お客様に環境に配慮した製品をお届けし、地球環境を保全し、循環形社会の構築に貢献できることを目指しております。

Customers concerned about green procurement can rest assured that KOGANEI develops and provides products where the environment has been taken into account.

KOGANEI has established a Green Partner Program with the aim of procuring less environmental load products, parts, and materials from suppliers who are actively engaged in environmental protection, and of delivering environmentally friendly products to our customers, in order to protect the environment and to help build a recycling-oriented society.

注:総合カタログVer.4掲載写真および材質について

総合カタログVer.4に掲載しております、主要部材質および外観写真は、RoHS指令対応製品への切替え前のものです。RoHS指令対応製品になりますと、材質および外観色が一部変わります。代表例は、4、5、6ページの「材質変更事例」、「外観色変更事例」に掲載しておりますが、詳細につきましては、お問合せください。

Note: Photographs and materials listed in the General Catalogs

Major parts, materials and outward photographs shown in the General Catalogs depict our product line-up prior to conversion to RoHS compliant products. RoHS compliant products may vary in materials and outward colors. Some usual examples are shown on pages 4, 5, and 6 under Material Modification Examples and Outward Color Modification Examples. For details, feel free to consult us.

RoHS指令

(電気・電子機器含有特定有害物質使用制限指令)

RoHS Directives: EU directives on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment

RoHS指令は、電気・電子機器に鉛、水銀、カドミウム、六価クロムの4重金属と臭素系難燃剤PBB、PBDEの使用を2006年7月より原則として全廃または削減することを目的としています。

Objectives of the RoHS Directives are, in principle, to ban or reduce the use of lead, mercury, cadmium, and chromium VI, as well as of brominated flame retardants such as PBB and PBDE in electrical and electronic equipment, from July 2006.

WEEE指令

(廃棄電気・電子機器指令)

WEEE Directives: EU directives on Waste Electrical and Electric Equipment

WEEE指令は、廃家電、廃電子機器を分別収集し、回収量、リサイクル率の向上を促すことにより、電気電子機器の廃棄物の予防、減量と環境負荷低減に結びつけることを目的としています。

The WEEE Directives encourage sorting and collection of discarded home electrical appliances and other electronic equipment, and improvement of recovery volumes and recycling rates, in order to prevent or reduce waste discards of electrical and electronic equipment, so as to reduce the environmental load.

物質名 Name of substance	特性 Characteristic	有害性 Toxicity	使用例 Usage example
Pb (鉛) (Lead)	・青白色の金属 Bluish-white metal	・神経毒物 Neurotoxin ・精神遅滞 Mental retardation ・学習障害 Learning disability ・中毒症状 Poisoning symptoms	・蓄電池 Batteries ・塗料 Paintings ・プラスチック安定剤 Plastic stabilizers
Hg (水銀) (Mercury)	・銀のような白い光沢をもつ Possesses a silvery white sheen ・常温で液状である唯一の金属 Only metal that is a liquid at room temperature	・神経毒物 (水俣病・水銀を含有する魚介類等の摂取に関する注意勧告) Neurotoxin (Warnings for Minamata disease and ingestion of mercury-tainted fish or shellfish) ・発癌性 Carcinogenesis	・体温計 Thermometers ・朱肉 Cinnabar ink ・蛍光灯 Fluorescent lamps
Cd (カドミウム) (Cadmium)	・灰色がかった金属 Grayish-colored metal	・慢性中毒症 (イタイタイ病) Chronic toxicosis (Itai-Itai disease) ・発癌性 Carcinogenesis	・蓄電池 Batteries ・顔料 Pigment
Cr (VI) (六価クロム) (Chromium VI)	・強い酸化剤 Strong oxidizing agent	・クロム潰瘍 Chromic ulcer ・感染性皮膚炎 Infectious dermatitis ・発癌性 Carcinogenesis	・金属めっき Metallic plating ・顔料 Pigment
PBB (ポリブロモビフェニル) (Polybrominated Biphenyl)	・焼却で臭素系ダイオキシンが発生する危険性あり。(環境ホルモン) Risk of brominated dioxins being generated by incineration. (Environmental hormone)	・神経毒物 Neurotoxin ・小児の発育不全などの原因 Cause of infant hypoplasia, etc.	・難燃剤 Flame retardants
PBDE (ポリブロモジフェニルエーテル) (Polybrominated Diphenyl Ether)	・焼却で臭素系ダイオキシンが発生する危険性あり。(環境ホルモン) Risk of brominated dioxins being generated by incineration. (Environmental hormone)	・神経毒物 Neurotoxin	・難燃剤 Flame retardants

コガネイ製品の顧客対応計画

Customer response program for Koganei products



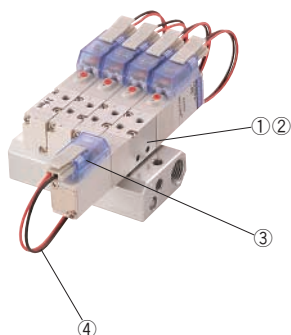
RoHS施行における 特定有害6物質の含有禁止 Six specified toxic substances to be banned under RoHS

Pb (鉛) (Lead)
Hg (水銀) (Mercury)
Cd (カドミウム) (Cadmium)
Cr (VI) (六価クロム) (Chromium VI)
PBB (特定臭素系難燃剤)
(Specified brominated flame retardant)
PBDE (特定臭素系難燃剤)
(Specified brominated flame retardant)

材質変更事例

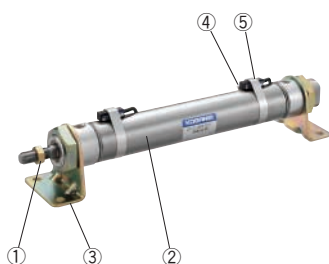
Material Modification Examples

●ソレノイドバルブ Solenoid Valve



No.	部品名称 Part	環境負荷物質 Substance with environmental load	対応内容 Action
①	本体 Body	材料中の基準を超える鉛 Lead in material exceeded the standard	鉛フリーの材料に変更 Change to lead-free materials
②	主軸 Stem	材料中の基準を超える鉛 Lead in material exceeded the standard	鉛フリーの材料に変更 Change to lead-free materials
③	基板 Circuit board	部品・はんだの鉛 Lead in parts and solder	鉛フリーの部品・はんだに変更 Change to lead-free parts and solder
④	配線 (リード線) Wiring (lead wire)	被覆材の鉛 Lead in sheathing material	鉛フリーの材料に変更 Change to lead-free materials
—	小ねじ類 Screws	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
—	ブロックプレート、ブラケット類 Block-off plate, brackets	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI

●エアシリンダ Air Cylinder



No.	部品名称 Part	環境負荷物質 Substance with environmental load	対応内容 Action
①	六角ナット Hexagon nut	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
②	座金 (ピストン部) Washer (piston portion)	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
③	フット金具 Foot bracket	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
④	センサスイッチ Sensor switch	部品・はんだの鉛 Lead in parts and solder	鉛フリーの部品・はんだに変更 Change to lead-free parts and solder
⑤	取付ビス Mounting screw	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI

●F.R.L. コンビネーション F.R.L. Combination



No.	部品名称 Part	環境負荷物質 Substance with environmental load	対応内容 Action
①	Dモジュール用接続金具 Connecting bracket for Module D	塗装下地処理に含まれる六価クロム Chromium VI in paint surface preparation	六価クロムフリーの下地処理に変更 Change to surface preparation without Chromium VI
②	フィルタ・レギュレータ・lubricatorの各ボディ Bodies for filter, regulator, and lubricator	塗装下地処理に含まれる六価クロム Chromium VI in paint surface preparation	六価クロムフリーの下地処理に変更 Change to surface preparation without Chromium VI
③	圧力計 Pressure gauge	ブルボン管接続用はんだに含まれる鉛 Lead in solder for connecting bourdon tube	鉛フリーのはんだに変更 Change to lead-free solder
		部品表面処理に含まれる六価クロム Chromium VI in parts surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
④	調圧スプリング Pressure regulating spring	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
⑤	スプリングシート Spring seat	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
⑥	ダイヤフラム用金具 Bracket for the diaphragm	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
⑦	ダンパアセンブリ用タップタイトネジ Tapping-tite screw for damper ass'y	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI
⑧	ダンパアセンブリ用バルブケースワッシャー Valve case washer for damper ass'y	表面処理に含まれる六価クロム Chromium VI in surface treatment	六価クロムフリーの表面処理に変更 Change to surface treatment without Chromium VI

外観色変更事例

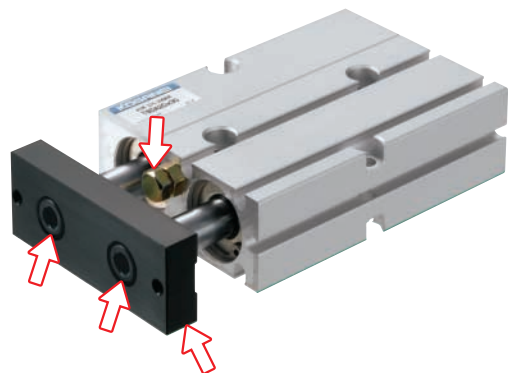
Outward Color Modification Examples

RoHS指令非対応製品が対応製品に切替りますと、部品の色が下の写真の様に変わります。(矢印部分)

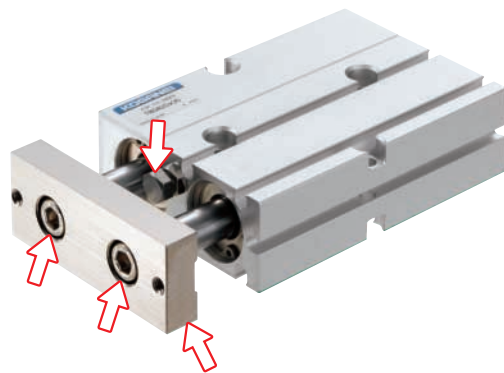
When a RoHS non-compliant product is replaced by a compliant one, the colors of the parts will change as shown in the photographs below (locations shown by arrows).

●エアシリンダ Air Cylinder

RoHS指令非対応製品 RoHS non-compliant products



RoHS指令対応製品 RoHS compliant products



外観色変更事例

Outward Color Modification Examples

RoHS指令非対応製品が対応製品に切替りますと、部品の色が下の写真の様に変わります。(矢印部分)

When a RoHS non-compliant product is replaced by a compliant one, the colors of the parts will change as shown in the photographs below (locations shown by arrows).

●レギュレータ Regulator

RoHS指令非対応製品 RoHS non-compliant product

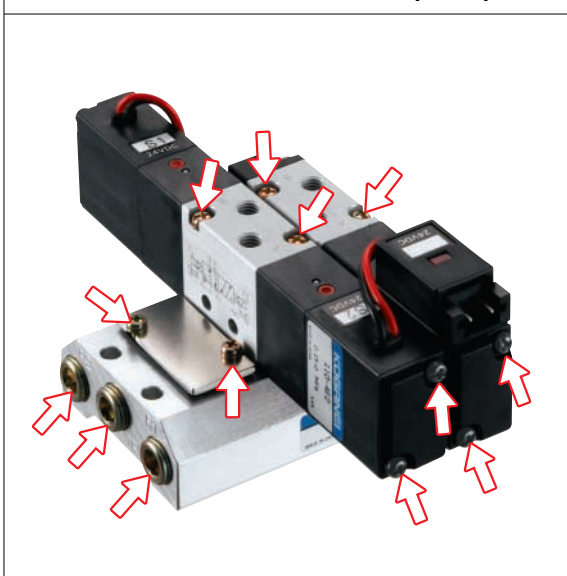


RoHS指令対応製品 RoHS compliant product

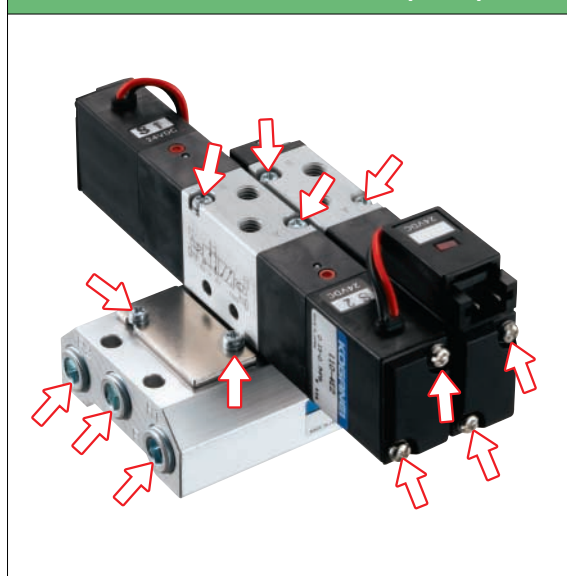


●ソレノイドバルブ Solenoid Valve

RoHS指令非対応製品 RoHS non-compliant product



RoHS指令対応製品 RoHS compliant product



	RoHS指令対応製品 RoHS Compliant Products
形式 Model	標準形式 Standard model
製品識別 Product identification	製品ラベルの製番横にEを追記 "E" added next to manufacturing date code on a product label
製品ラベルサンプル Product label example	 識別記号 Identification mark 製番 Manufacturing date code

Changes in the Contents of the Koganei General Catalogs

With the switch to RoHS-compliant products, the contents in the catalogs are being changed, mainly in materials and surface treatment, etc. For details, see pp.8-13.

Remarks: 1. Brass, free-cutting steel, etc., low cadmium and low lead materials are used in all.
2. Zinc plating is entirely subjected to chromium III chromating.

VALVES GENERAL CATALOG (Catalog No. BKUV002)

Locations in the catalog where changes have been made to switch over to RoHS-compliant products.
※ For changes in the outward colors, see p.6 “Outward Color Modification Examples.”

■ Solenoid Valves 200 Series

Listed page	Content	Before change	After change
171	Surface treatment changed for pressure regulating spring in Major Parts and Materials	Piano wire (chromating)	Piano wire (zinc plated)

■ Solenoid Valves 240 Series

Listed page	Content	Before change	After change
640	Surface treatment changed for body in Major Parts and Materials	Aluminum alloy (treated with chromic acid)	Aluminum alloy (anodized)

■ Solenoid Valves 430 Series

Listed page	Content	Before change	After change
763	Cable clamp model changed in component parts for multi connector assembly	206138-1	206838-1
	Socket model changed in component parts for multi connector assembly	66101-2	1-66101-9

■ PC Wiring System

Listed page	Content	Before change	After change
995, 996	In circuit diagram and specifications table, installed connector (40 pins) model changed	FCN-364J040	FCN-364J040AU
	In circuit diagram and specifications table, installed connector (20 pins, half pitch) model changed	JM1P-0202[Made by IDEC Izumi]	8830-020-170SF[Made by KEL Corporation]
997~1004	In circuit diagram and specifications table, installed connector (40 pins) model changed	FCN-364P040	FCN-364P040AUHN
1006, 1008, 1010, 1012	In the specifications table under Materials of box/surface treatment, the surface treatment changed.	SPCC/ black zinc plated (MFZnD)	SPCC/chromium III chromating
1030	Model changed for terminal A (controller side) 20-pin half pitch connector in PCW-H200	JM1S-0203[Made by IDEC Izumi]	8822-020-171[Made by KEL Corporation]

ACTUATORS GENERAL CATALOG (Catalog No. BKUC002)

Locations in the catalog where changes have been made to switch over to RoHS-compliant products.
 ※ For changes in the outward colors, see p.5 “Outward Color Modification Examples.”

■ Knock Cylinders

Listed page	Content	Before change	After change
69	Material changed for piston in Major Parts and Materials, non-ion specification	Special steel	Aluminum
	Material changed for magnet support in Major Parts and Materials, non-ion specification	Special steel	Aluminum

■ Multi Mount Cylinders

Listed page	Content	Before change	After change
86, 102	Material changed for piston in Major Parts and Materials, non-ion specification	Special steel	Aluminum
	Material changed for spring holder in Major Parts and Materials, non-ion specification	Special steel	Aluminum
	Material changed for collar in Major Parts and Materials, non-ion specification	Special steel	Aluminum
	Material changed for support in Major Parts and Materials, non-ion specification	Special steel	Aluminum

■ Jig Cylinders C Series

Listed page	Content	Before change	After change
137	Surface treatment changed for washer in Major Parts and Materials	Steel (green plated)	Steel (nickel plated)

■ Pen Cylinders

Listed page	Content	Before change	After change
247, 258, 263 267, 269, 273 275, 277, 281 288	Material changed for bumper in Major Parts and Materials	Urethane rubber	Synthetic rubber (NBR)
256	Surface treatment changed for cylinder tube in Major Parts and Materials	Brass (BN plated)	Brass (nickel plated)
258	Surface treatment changed for rod cover in Major Parts and Materials	Aluminum alloy (BN plated)	Aluminum alloy (nickel plated)
288	Material changed for mounting nut in Major Parts and Materials	Mild steel (nickel plated)	Brass (nickel plated)

■ Slim Cylinders

Listed page	Content	Before change	After change
342	Surface treatment changed for piston rod A in Major Parts and Materials	Steel (chrome plated)	Steel (hard chrome plated)
342, 368	Surface treatment changed for piston rod B in Major Parts and Materials, ϕ 20 to 63	Steel	Steel (zinc plated)
348	Surface treatment changed for spring in Major Parts and Materials	Piano wire (chromated)	Piano wire (zinc plated)
	Surface treatment changed for brake release screw in Major Parts and Materials	Mild steel (chromated)	Mild steel (zinc plated)

■ Twinport Cylinders

Listed page	Content	Before change	After change
414	Surface treatment changed for I type, Y type knuckle in Major Parts and Materials	Mild steel (chrome plated; nickel plated for ϕ 16)	Mild steel (zinc plated; nickel plated for ϕ 16)

■ Jig Cylinders with Guides

Listed page	Content	Before change	After change
606, 614, 620	Surface treatment changed for bolt in Major Parts and Materials	Steel (zinc plated)	Steel (nickel plated)

ACTUATORS GENERAL CATALOG (Catalog No. BKUC002)

Locations in the catalog where changes have been made to switch over to RoHS-compliant products.
※ For changes in the outward colors, see p.5 “Outward Color Modification Examples.”

■ Cylinders with Guides GA Series

Listed page	Content	Before change	After change
638	Surface treatment changed for bolt in Major Parts and Materials	Zinc plated	Nickel plated
	Surface treatment changed for guide plate in Major Parts and Materials	Zinc plated	Nickel plated
	Surface treatment changed for plate F in Major Parts and Materials	Zinc plated	Nickel plated
	Surface treatment changed for end plate in Major Parts and Materials	Zinc plated	Nickel plated
	Surface treatment changed for stroke adjusting screw in Major Parts and Materials	Zinc plated	Black oxide

■ Twin Rod Cylinders ϕ 6

Listed page	Content	Before change	After change
646	Surface treatment changed for washer in Major Parts and Materials	Steel (black zinc plated)	Steel (nickel plated)
	Surface treatment changed for square plate in Major Parts and Materials	Mild steel (black zinc plated)	Mild steel (special surface treatment)

■ Twin Rod Cylinders B Series

Listed page	Content	Before change	After change
658, 663, 668	Surface treatment changed for washer in Major Parts and Materials	Steel (black zinc plated)	Steel (nickel plated)
658, 663	Surface treatment changed for square plate in Major Parts and Materials	Mild steel (fluorine coating, black zinc plated for only ϕ 32)	Mild steel (nickel plated)
668	Surface treatment changed for square plate in Major Parts and Materials	Mild steel (fluorine coating)	Mild steel (nickel plated)

■ Alpha Series Twin Rod Cylinders B Series

Listed page	Content	Before change	After change
728, 733	Surface treatment changed for hexagon socket head bolt in Major Parts and Materials	Steel (black zinc plated)	Steel (ϕ 10, 20, 25 nickel plated; 16, 32 black oxide)
	Surface treatment changed for square plate in Major Parts and Materials	Mild steel (black zinc plated)	Mild steel (nickel plated)
	Surface treatment changed for washer in Major Parts and Materials	Steel (black zinc plated)	Steel (nickel plated)

■ Axis Cylinders

Listed page	Content	Before change	After change
747	Surface treatment changed for stopper and hexagonal socket head bolt in Major Parts and Materials	Steel (zinc plated)	Steel (nickel plated)
	Surface treatment changed for retainer washer in Major Parts and Materials	Mild steel (zinc plated)	Stainless steel

■ Slide Units

Listed page	Content	Before change	After change
769	Surface treatment changed for end plate in Major Parts and Materials	Steel (black chromating)	Steel (zinc plated)
	Surface treatment changed for lock nut and stroke adjusting bolt in Major Parts and Materials	Steel (black chromating)	Steel (nickel plated)
	Surface treatment changed for ϕ 25 plugs in Major Parts and Materials	Steel (chromating)	Steel (zinc plated)
	Surface treatment changed for ϕ 10 striker in Major Parts and Materials	Steel (black chromating)	Steel
	Surface treatment changed for ϕ 16 and ϕ 25 strikers in Major Parts and Materials	Steel (black chromating)	Steel (zinc plated)
	Surface treatment changed for ϕ 10 plug (No.20) in Major Parts and Materials	Steel (black chromating)	Steel (nickel plated)

■ WT Slide Tables

Listed page	Content	Before change	After change
947	Surface treatment changed for piston rod in Major Parts and Materials	Chrome plated	Hard chrome plated

■ Slit Type Rodless Cylinders ORV Series

Listed page	Content	Before change	After change
984	Surface treatment changed for hexagon socket button head screw in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for magnet in Major Parts and Materials	Aluminum chromate treated	Aluminum coating
	Surface treatment changed for inner band guide in Major Parts and Materials	Polyvinyl chloride	Hard polyvinyl chloride

■ Slit Type Rodless Cylinders ϕ 10

Listed page	Content	Before change	After change
992	Surface treatment changed for inner seal band lock in Major Parts and Materials	Zinc chromated	Nickel plated
	Surface treatment changed for piston yoke in Major Parts and Materials	—	Chromating
	Surface treatment changed for thread insert (No.23) in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for end cap screw in Major Parts and Materials	Zinc chromated	Zinc plated

■ Slit Type Rodless Cylinders ORCA Series

Listed page	Content	Before change	After change
1001, 1002	Surface treatment changed for inner seal band lock in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for outer seal band lock in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for end cover screw in Major Parts and Materials	—	Zinc plated
1002	Surface treatment changed for end plate mounting screw in Major Parts and Materials	—	Zinc plated

■ Slit Type Rodless Cylinders ORGA Series

Listed page	Content	Before change	After change
1013, 1014	Surface treatment changed for inner seal band lock in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for outer seal band lock in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for carrier pin in Major Parts and Materials	—	Black oxide
	Surface treatment changed for end cap mounting bolt in Major Parts and Materials	—	Zinc plated

■ Slit Type Rodless Cylinders ORK Series

Listed page	Content	Before change	After change
1030	Surface treatment changed for inner seal band lock in Major Parts and Materials	Zinc chromated	Nickel plated
	Surface treatment changed for outer seal band lock in Major Parts and Materials	Zinc chromated	Nickel plated
	Surface treatment changed for end plate in Major Parts and Materials	Black Zinc chromated	Phosphate coating
	Surface treatment changed for carrier pin in Major Parts and Materials	Alkali coloring	Black oxide
	Surface treatment changed for end cap mounting bolt in Major Parts and Materials	Zinc chromated	Zinc plated

■ Magnet Type Rodless Cylinders MRC Series

Listed page	Content	Before change	After change
1059	Surface treatment changed for inner yoke B in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Surface treatment changed for inner yoke A in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Material changed in ϕ 6 piston in Major Parts and Materials	Aluminum alloy	Brass
	Surface treatment changed for outer yoke B in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Surface treatment changed for outer yoke A in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)

■ Magnet Type Rodless Cylinders MRG Series

Listed page	Content	Before change	After change
1065	Surface treatment changed for outer yoke B in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Surface treatment changed for outer yoke A in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Material and surface treatment changed for cylinder tube in Major Parts and Materials	Stainless steel (hard chrome plated)	Aluminum alloy (anodized)
	Changed in remarks for cylinder tube in Major Parts and Materials	—	Stainless steel for ϕ 6, 10, and 16
	Material changed in ϕ 6 piston in remarks of Major Parts and Materials	Steel	Brass
	Surface treatment changed for scraper plate in Major Parts and Materials	Steel (black zinc plated)	Steel (phosphate coating)
	Surface treatment changed for inner yoke B in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Surface treatment changed for inner yoke A in Major Parts and Materials	Steel (electroless nickel plated)	Steel (nickel plated)
	Material changed for snap ring in Major Parts and Materials	Polyacetal	Steel

ACTUATORS GENERAL CATALOG (Catalog No. BKUC002)

Locations in the catalog where changes have been made to switch over to RoHS-compliant products.
 ※ For changes in the outward colors, see p.5 “Outward Color Modification Examples.”

■ Slit Type Rodless Cylinders ORS Series

Listed page	Content	Before change	After change
1081	Surface treatment changed for hexagon socket head bolt in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for hexagon socket setscrew in Major Parts and Materials	Alkali coloring	Black oxide
	Surface treatment changed for band lock in Major Parts and Materials	Zinc chromated	Nickel plated
	Surface treatment changed for stopper in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for holder nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for square nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for low head cap screw in Major Parts and Materials	Alkali coloring	Black oxide

■ Magnet Type Rodless Cylinders MRS Series

Listed page	Content	Before change	After change
1087	Surface treatment changed for outer yoke B in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for outer yoke A in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for inner yoke A in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for inner yoke B in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for hexagon socket head bolt in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for stopper in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for holder nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for square nut in Major Parts and Materials	Zinc chromated	Zinc plated

■ Slit Type Rodless Cylinders ORW Series

Listed page	Content	Before change	After change
1107	Surface treatment changed for square nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for hexagon socket head bolt in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for stopper in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for low head cap screw in Major Parts and Materials	Alkali coloring	Black oxide
	Surface treatment changed for cross recessed tapping screw in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for holder nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for thread insert B in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for thread insert A in Major Parts and Materials	—	Nickel plated
	Surface treatment changed for cylinder nut in Major Parts and Materials	Zinc chromated	Zinc plated

■ Magnet Type Rodless Cylinders MRW Series

Listed page	Content	Before change	After change
1113	Surface treatment changed for square nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for hexagon socket head bolt in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for stopper in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for low head cap screw in Major Parts and Materials	Alkali coloring	Black oxide
	Surface treatment changed for cross recessed tapping screw in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for holder nut in Major Parts and Materials	Zinc chromated	Zinc plated
	Surface treatment changed for outer yoke A in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for inner yoke A in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for outer yoke B in Major Parts and Materials	Electroless nickel plated	Nickel plated
	Surface treatment changed for inner yoke B in Major Parts and Materials	Electroless nickel plated	Nickel plated

■ Twist Cylinders

Listed page	Content	Before change	After change
1238	Surface treatment changed for adjusting plate in Major Parts and Materials	Steel (black zinc plated)	Steel (nickel plated)
	Surface treatment changed for ϕ 16 piston rod in Major Parts and Materials	Stainless steel	Stainless steel (hard chrome plated)
	Surface treatment changed for ϕ 25 and ϕ 40 piston rods in Major Parts and Materials	Steel (nitriding process)	Steel (hard chrome plated)

■ Cylinder Joints

Listed page	Content	Before change	After change
1426	Surface treatment changed for nut in Major Parts and Materials	Chrome plated	Zinc plated

GENERAL CATALOG OF AIR TREATMENT, AUXILIARY, VACUUM (Catalog No. BKUA001)

Locations in the catalog where changes have been made to switch over to RoHS-compliant products.
※ For changes in the outward colors, see p.6 “Outward Color Modification Examples.”

■ Stainless Regulators

Listed page	Content	Before change	After change
187	Surface treatment changed for pressure regulating spring in Major Parts and Materials	Piano wire (color chromating)	Piano wire (zinc plated)

■ Precision Stainless Regulators

Listed page	Content	Before change	After change
193	Surface treatment changed for pressure regulating spring in Major Parts and Materials	Piano wire (color chromating)	Piano wire (zinc plated)

■ Non-contact Transfer Components

Listed page	Content	Before change	After change
675	Changed in KEYENCE model for photoelectric sensor amp NCT-OPA1 in Handling Instructions and Precautions	KEYENCE: FS-V11	KEYENCE: FS-V31
677	Changed in KEYENCE model for photoelectric sensor amp NCT-OPA1 in Order Code	KEYENCE: FS-V11	KEYENCE: FS-V31

Guide to Models Discontinued from Production and Sales

With the switch to RoHS-compliant products, production and sales of some products and options listed in the **Koganei General Catalogs** have been discontinued since July 1, 2006. Koganei recognizes the inconvenience to customers, and asks that customers show understanding for the reason behind these actions.

For details, see pp.14-16. For questions about this change, inquire at the nearest Koganei sales office.

VALVES GENERAL CATALOG (Catalog No. BKUV002)

■ Sale of the solenoid valve with built-in interface unit (made to order) discontinued

Built-in interface unit



Listed series

● Solenoid Valves 030 Series

Made to order **-FA** sales discontinued (see pp.92 and 98)

● Square Type Solenoid Vacuum Valves V030 Series

Made to order **-FA** sales discontinued (see p.856)

● Solenoid Valves 110 Series

Made to order **-FA** sales discontinued (see pp.302 and 316)

● Solenoid Valves 180 Series

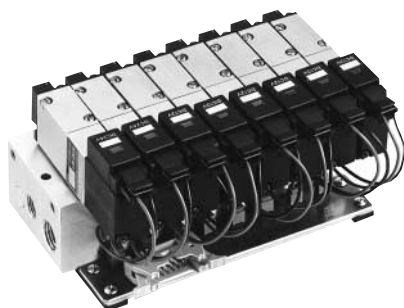
Made to order **-FA** sales discontinued (see pp.340 and 354)

● Solenoid Valves 112, 182 Series

Made to order **-FA** sales discontinued (see pp.368 and 379)

■ PC Board Manifold 110 Series sales discontinued

(see pp.323-328)



■ Solenoid Valves 630, 830 Series sales discontinued

(see p.724)

■ PC-Valve Unit sales discontinued

(see p.790)

■ Sales discontinued for some serial transmission compatible manifold models

● For Mitsubishi Electric MELSECNET/MINI-S3 Sales discontinued for serial transmission compatible manifolds

Listed series

● Solenoid Valves F Series

For Mitsubishi Electric MELSECNET/MINI-S3

Sales terminated for serial transmission compatible manifolds and serial transmission blocks (YS211□) (see pp. 519, 545, and 547)

● Solenoid Vales PB Series

For Mitsubishi Electric MELSECNET/MINI-S3

Sales terminated for serial transmission compatible manifolds and serial transmission blocks (YS411□) (see pp.689, 692, and 695)

● For OMRON CompoBus/D Sales discontinued for serial transmission compatible manifolds

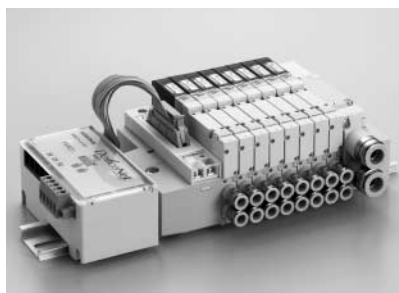
Listed series

● Solenoid Valves F Series

For OMRON CompoBus/D

Sales discontinued for serial transmission compatible manifolds and serial transmission blocks (YS391) (see pp.520, 549, and 551)

※Regarding a alternative model for the solenoid valve F series CompoBus/D, special specification (-108W and -109W) products mounting the serial transmission block (single unit) **YS5D1U**, shown below, is available.
For detailed specifications, dimensions, and delivery dates, inquire at Koganei Overseas Department.



Mounted on solenoid valve F series
Special specification (-108W and -109W)



Transmission block (single unit) **YS5D1U**
(General-use type with F201-compatible flat cable)

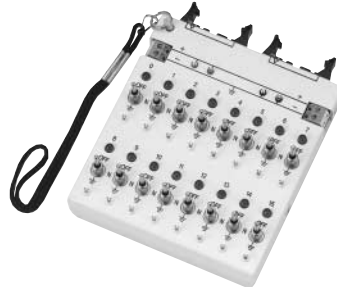
Guide to Models Discontinued from Production and Sales

■ Sales discontinued for check unit and crimping tool

Listed series

● PC wiring system

Check unit sales discontinued
(see pp.988, 1023-1024, and 1026)



Model: FMA-RCU16F

Crimping tool sales discontinued
(see pp.988, 1022, and 1026)



Model: FMA-HT151

GENERAL CATALOG OF AIR TREATMENT, AUXILIARY, VACUUM (Catalog No. BKUA001)

■ Micro Mist Filters KMF-200 sales discontinued

(see p.139)

■ Differential Pressure Gauges sales discontinued

(see p.141)

■ Precision Regulators KR Series sales discontinued

(see p.196)

■ Electro-Pneumatic Transducing Regulators KTR Series sales discontinued (see p.218)

■ Shock Absorbers KSHG Series sales discontinued

(see p.538)

■ Vacuum Regulators VR200 sales discontinued

(see p.668)



For overseas networks, access the URL below.

Koganei Internet web page address (Japanese and English versions available)

URL <http://www.koganei.co.jp>

Please feel free to contact us !

Koganei keeps close relationship with all our overseas distributors. We, Koganei and our distributors are always in a position to respond to any inquiry. If a customer needs the products which will be used in overseas or information of overseas sales office and their services, please feel free to contact us.

JUST ASK US

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