

Keeping the World Flowing for Future Generations

Remote Hand Station Pro

Remote field operation for IQ3 Pro actuators

Safe use and installation manual



CE CA

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Note:

The Remote Hand Station Pro (RHS Pro) is suitable for use with the following Rotork actuators:

IQ3 Pro range (IQ3 Pro multi-turn, IQT3 Pro part-turn)

Identifying Remote Hand Station Pro:



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1. Introduction

Actuators used in many industries sometimes have to be mounted in places where it is hazardous, inconvenient or just unpleasant for a human to operate. In these cases it is useful to be able to see the status and locally operate an actuator from a safe distance.

Typically, in this situation you would be faced with a simplistic interface for basic operation and indication, however Rotork's enhanced Remote Hand Station Pro solution allows the user to have an exact replication of the actuator interface.

This manual is for Remote Hand Station Pro (RHS Pro)

The RHS Pro works with IQ3 Pro and IQT3 Pro actuators. Note, this version does not work with IQ3, IQT3, SI3 or SI4 actuators.

Using the same display and controls interface from Rotork IQ3 Pro actuators, users can remotely operate, interrogate and configure an IQ3 Pro actuator from up to 100 m distance.

Actuator setup can be performed using the Rotork Bluetooth[®] Setting Tool *Pro* (BTST), manual set-up via the RHS Pro local control knobs or by using the Rotork app for smartphones.

Retaining the full functionality of the connected IQ3 Pro range actuator, dataloggers can be viewed and downloaded locally at the RHS Pro instead of having to gain access to the actuator. Power is supplied by the actuator, removing the need for supplementary power supplies. The following instructions must be followed and integrated with your safety programme when installing and using Rotork products:

- Read and save all instructions prior to installing, operating and servicing this product
- If you don't understand any of the instructions, contact Rotork for clarification
- Follow all warnings, cautions and instructions marked on, and supplied with, the product
- Inform and educate personnel in the proper installation, operation and maintenance of the product
- Install equipment as specified in Rotork installation instructions and per applicable local and national codes. Connect all products to the proper electrical sources
- To ensure proper performance, use qualified personnel to install, operate, update and maintain the unit
- When replacement parts are required, ensure that the qualified service technician uses replacement parts specified by Rotork. Substitutions may result in fire, electrical shock, other hazards, or improper equipment operation
- Keep all product protective covers in place (except when installing, or when maintenance is being performed by qualified personnel), to prevent electrical shock, personal injury or damage to the product
- Operation of product in an inappropriate fashion may cause harm or damage to unit or other equipment surroundings

1. Introduction continued

1.1 The Rotork App

The Rotork App provides a user-friendly interface that allows configuration of IQ3 Pro actuators from a smartphone running Android (version 10 or higher) or iOS (version 15 or higher). This configuration can be carried out via connection to the RHS Pro.

For ease of setup, Rotork recommends that you use the Configuration Wizard in the app to configure actuators.

The Rotork App also provides a set of configuration screens and a virtual setting tool functionality.

1.2 Smartphone connection via Bluetooth wireless

As default from the factory, to connect a smartphone to the IQ3 Pro actuator or RHS Pro, first make it discoverable via Bluetooth wireless:

\triangle Place the LOCAL/STOP/REMOTE control knob into STOP before proceeding.



clockwise

position

Rotate anti-clockwise

Fig 1.2.1 OPEN/CLOSE local control knob

Move the OPEN/CLOSE control knob ¹/₈ turn clockwise **or** anti-clockwise, aligning one white dot with the notch on the casting. Hold it in this position for 2 seconds until the blue LED starts to flash, then release the knob.

The actuator will remain discoverable via Bluetooth wireless for approximately 2 minutes, during this time you can connect your smartphone following your phone's Bluetooth pairing instructions and start using the app.

If the actuator reverts to non-discoverable mode, repeat the instructions above.

1.3 Rotork App security

Communication between the smartphone and actuator is by Bluetooth wireless.

Access is granted using "PIN Pairing". When connection is made between the app and actuator, a PIN appears on the actuator screen which must be entered on the app to access the actuator configuration.

The Rotork App and manual setup can also be enabled/disabled separately.

▲ IQ3 Pro actuators can be set to different levels of security. For explanations of the available security levels and instructions to implement them, see PUB002-040 IQ3 Pro Range full configuration, status and monitoring user manual.

2. Health and safety

This manual has been produced to enable a competent user to install, operate, adjust and inspect the RHS Pro.

The electrical installation, maintenance and use of the RHS Pro should be carried out in accordance with the National Legislation and Statutory Provisions relating to the safe use of this equipment applicable to the site of installation.

For the USA: NFPA70, National Electrical Code[®] is applicable.

For Canada: CEC, Canadian Electrical Code is applicable.

Any equipment connected to the RHS Pro should be of an equivalent (or better) hazardous area certification. The installation, maintenance and use of the RHS Pro installed in a hazardous area must be carried out by a competent person and in accordance with all relevant codes of practice for the particular hazardous area certification.

Any inspection or repair of a hazardous area approved RHS Pro should not be undertaken unless it conforms to National Legislation and Statutory Provisions relating to the specific hazardous area.

Only Rotork approved replacement parts should be used. Under no circumstances should any modification or alteration be carried out on the unit, as this could invalidate the conditions under which its certification was granted.

Access to live electrical conductors is forbidden in a hazardous area unless it is done under a special permit to work, otherwise all power should be isolated and the RHS Pro moved to a non-hazardous area for repair or attention.

Only persons competent by virtue of their training or experience should be allowed to install, maintain and repair Rotork equipment. Work undertaken must be carried out in accordance with instructions in the manual. The user and those persons working on this equipment should be familiar with their responsibilities under any statutory provisions relating to the health and safety of their workplace.

A WARNING: Enclosure materials

The RHS Pro is manufactured from aluminium alloy with stainless steel fasteners and terminal enclosure fasteners using 12.9 grade high tensile carbon steel.

The cover window is toughened glass which is retained with a 2-part silicone cement.

The user must ensure that the operating environment and any materials surrounding the RHS Pro cannot lead to a reduction in the safe use of, or the protection afforded by, the RHS Pro. Where appropriate the user must ensure the RHS Pro is suitably protected against its operating environment.



3. Remote Hand Station mounting

The RHS Pro can be mounted either directly on a wall or onto a pole using suitable 'C' brackets. Space should be left around the housing to allow for the fitting of cable glands or conduit. Positioning of the RHS Pro display should be such that easy viewing and operation can be carried out at eye level. Removal of the main display cover is not necessary in order to mount the unit. The only cover that needs to be removed is the terminal housing when cabling to the actuator.

The back housing may be mounted in any position (90° increments) to accommodate different cable / conduit entry requirements. In order to maintain the correct viewing angle of the display, rotate the display cover to suit.

NOTE: Maximum unit weight = 9 kg

- **3.1** Locate a suitable place (flat vertical wall or structure) to mount the RHS Pro unit. The display and controls should be accessible and easily viewable.
- **3.2** Mark up a template using the diagrams above. Use a template to mark the wall or structure.
- **3.3** Ensure any work permits are obtained before starting work. Prepare the mounting holes using suitable tools.
- **3.4** Select suitable fixings by referring to the weight above for details of the RHS Pro assembly.
- **3.5** Install the RHS Pro unit to the structure. Tighten the fixings to ensure a secure hold.



The RHS Pro unit is powered by a CAN Bus system installed within Rotork actuators as an option, so does not require any supplementary power supply or protection device. The single cable entry is located at the bottom of the terminal housing and is supplied M25 as standard. A thread adaptor can be supplied for other thread sizes including imperial threads.

The interconnecting cable is not supplied. Below is a table of the minimum cable specification for remote mounting up to 50 m and up to 100 m.

No.	PARAMETER	BELDEN CABLE 3084A T5U500 (OR EQUIVALENT) UP TO 100M	MINIMUM SPECIFICATION FOR UP TO 50 M	
1	Type of cable	Twisted pair shielded	Twisted pair shielded	
2	No. of cores	4 (data pair + power pair)	4 (data pair + power pair)	
3	Conductor material	Tinned copper	Tinned copper	
4	Core insulation material	PVC (power) FPE (data)	PVC	
5	Shield type	Foil + braid	Braid	
	Chield coverage	Braid ≥65%		
6	Shield coverage	Foil = 100%	- Braid ≥65%	
7	Outer sheath	PVC	PVC	
8	Data pair capacitance	≤40 pF/m	≤70 pF/m	
9	Conductor resistance	≤175 Ohm/km (power) ≤280 Ohm/km (data)	≤175 Ohm/km ≤280 Ohm/km (data)	
10	Current rating	≥1 A	≥1 A	

Note: For installation in hazardous areas suitable equivalent cables must be used in accordance with local regulations.

Cable entry

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Only appropriately certified flameproof cable glands or conduit may be used in hazardous locations. The cable entry is tapped M25 x 1.5p. In hazardous locations, only one certified flameproof thread adaptor can be used.

For installation in USA and Canada

Conduit seals must be installed at the enclosure. M25 x 1.5p to either 1/2", 3/4", 1", $1^{1}/4$ " or $1^{1}/2$ " NPT thread adaptors are factory fitted.

CAUTION: Wiring may exceed 70 °C in a 70 °C ambient.



Please follow the instructions in Section 3 for mounting the RHS Pro before attempting to cable up the unit.

- **4.1** Once the cable specification has been selected, cut to the appropriate length (leaving approx. 200 mm at each end for final termination).
- **4.2** Feed the cable to both the actuator and RHS Pro terminal compartments and secure the glands to ensure watertight integrity is maintained.
- **4.3** Strip back the insulation and braiding so that the inner twisted pair cores are exposed and fit AMP type ring terminal crimps to each wire and shield braid. Insulate the braid to prevent short circuits.
- **4.4** Connect the terminals in each compartment to the correct terminal number by following the wiring diagram supplied.

Earth ground connection

A dedicated external earth point is provided for the attachment of a protective earth cable.



5. Enabling Remote Hand Station mode on an IQ3 Pro range actuator

NOTE: The following settings are to be carried out at the actuator display only. Settings in Section 6 can be carried out at the RHS Pro display.

Please refer to PUB002-040 (IQ3 Pro range full configuration manual) for the setting menu structure and PUB095-001 (Rotork Bluetooth[®] Setting Tool *Pro* manual) for instructions on using the Rotork Bluetooth[®] Setting Tool *Pro*.

5.1 Navigate to the Settings menu



5.2 From the main list, select Control

Settings
Limits
Indication
Control
ESD
Security
Defaults

5.3 Next select Local

Control
Remote
Interrupter Timer

5.4 From the Local control menu, navigate to the Remote Hand Station section and highlight 'Enabled'.

Stopped					
	Local Control				
Vandal	Disabled		•		
Setting Tool	[] Yes	X	No		
Maintained	🔀 Yes		No		
Delay Control	🚺 Yes	\mathbb{X}	No		
Loss Of HMI	🔀 Stayput		Remote		
Remote Hand Station					
Enabled	🔀 On				
▲▼ ←			6/6		

Press 🕞 (enter ROTORK as the password).

Use \bigodot or \bigodot to enable or disable the Remote Hand Station mode.

Once the required mode is checked, press \bigcirc to confirm. The selected mode will be saved and shown as checked on the setting entry.

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NOTE: The following settings can be carried out either at the actuator or at the RHS Pro display.

Setting the Bluetooth security

The RHS Pro and actuator Bluetooth security can be configured independently.

6.1 Navigate to SETTINGS > SECURITY and under the Bluetooth section, choose the level of Bluetooth access required for the actuator.

Press 🗑 (enter ROTORK as the password).

Use **O** or **O** to select the actuator Bluetooth mode.

Once the required mode is highlighted, press o to confirm. The selected mode will be saved and shown as checked on the setting entry.

	Open Limit				
	Bluetooth				
Low: Discover Always 🗸 🔻					
	Password				
Change	Default				
Lost Code	L81L18				
Re-Enter	<i>ل</i> ـــــ				
	Remote Hand Station				
Low:	Discover Always				
▲▼ ←		5/5			

6.2 Navigate to SETTINGS > SECURITY and under the Remote Hand Station section, choose the level of Bluetooth access required for the RHS Pro.

Press 🐻 (enter the password if applicable).

Use \bigodot or \bigodot to select the Remote Hand Station Bluetooth mode.

Once the required mode is highlighted, press o to confirm. The selected mode will be saved and shown as checked on the setting entry.

Setting the Action on Loss of RHS Pro control

The actuator action can be configured to a particular mode if the RHS Pro were to fail or lose communication with the actuator.

6.3 Navigate to SETTINGS > CONTROL > REMOTE HAND STATION and under the Remote Hand Station section select the mode on Loss of HMI.

Press 🕝 (enter the password if applicable).

Use **()** or **()** to select the Loss of HMI mode.

Once the required mode is highlighted, press a to confirm. The selected mode will be saved and shown as checked on the setting entry.

	Open Limit			
Rer	mote Hand Sta	tion		
Loss of HMI	Stayput			
Local	[] On	\mathbb{N}	Off	
				1/2

Setting the Local mode

The RHS Pro is intended to work when the actuator is set to Remote Control only, however you can configure the RHS Pro to work when the actuator is set to Local Control. In this case both the RHS Pro and actuator will allow local control, with the last issued command taking preference.

6.4 Navigate to SETTINGS > CONTROL > REMOTE HAND STATION and under the Remote Hand Station section select the Local mode.

Press 🐻 (enter the password if applicable).

Use **O** or **O** to select the Local mode on or off.

Once the required mode is checked, press (a) to confirm. The selected mode will be saved and shown as checked on the setting entry.

Setting the Home Screen display

The RHS Pro and actuator home screens can be independently configured to show different information.

NOTE: The following setting has to be carried out at the device you are configuring, e.g. at the actuator for the actuator home screen, and at the RHS Pro for the RHS Pro home screen.

6.5 Navigate to SETTINGS > INDICATION > LOCAL DISPLAY and under the LCD section select the Home Screen mode from the following four options:

Position only

- Torque (analogue) + Position
- Torque (digital) + Position

Positioner

Press 🕞 (enter the password if applicable).

Use **O** or **O** to select the Local mode on or off.

Once the required mode is highlighted, press \bigcirc to confirm. The selected mode will be saved and shown as checked on the setting entry.

Open Limit			
LCD			
	Position		
Power Save	Torque (A) + POS		
	Torque (D) + POS		
Close LED	Positioner		
Mid Travel LED	On 🔻		
Alarm LED	Disabled 🛛 🗸 🗸		
LCD / LED Test	←		
▲▼ ←	1/7		

The RHS Pro provides a remote mountable display which allows the operator to monitor and control an actuator mounted in an inaccessible location. All operations which could be performed at the actuator will be duplicated at the RHS Pro, including configuration setup, data log download and local control operation.

In order to use the RHS Pro for control, the selectors on both the actuator and RHS Pro have to be set according to the table below:

Functional operation and setup of the actuator via the RHS Pro mimics the actuator's standard operation, refer to publications:

PUB002-039 (IQ3 Pro range safe use and installation), PUB002-040 (IQ3 Pro range full configuration).

The connected actuator's datalogger can be viewed and extracted via the RHS Pro. For datalogger extraction, please refer to PUB095-001 (Rotork Bluetooth® Setting Tool *Pro* manual).

ACTUATOR SELECTORS (HIGH PRIORITY)	REMOTE HAND STATION SELECTORS	ACTUATOR CONTROL	
Local	Local	Actuator*	
Local	Remote	Actuator*	
Remote	Local	Remote Station	
Remote	Remote	Remote control through option cards or hardwired control via terminal block.	
* Actuator remains in control unless the Local mode is enabled			

* Actuator remains in control unless the Local mode is enabled.

When Local mode enabled, the RHS Pro shares control despite the actuator set for Local Control. Refer to Section 6.4

Refer to RHS Pro nameplate for unit specific approval details.

EU & UK – Hazardous Area

ATEX (2014/34/EU), UKEX (2016 No. 1107) II 2 G D Ex db IIB T4 Gb

Ex tb IIIC T120 °C Db T4, IP66 & IP68

Temperature -20 °C to +70 °C (-4 °F to +158 °F) *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

Ex db IIC T4 Gb T4

Ex tb IIIC T120 °C Db T4, IP66 & IP68

Temperature -20 °C to +70 °C (-4 °F to +158 °F) *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

International – Hazardous Area

IEC 60079-0, IEC 60079-1 & IEC 60079-31 Ex db IIB T4 Gb

Ex tb IIIC T120 °C Db T4, IP66 & IP68

Temperature -20 °C to +70 °C (-4 °F to +158 °F) *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (- 58 °F to +104 °F)

Ex db IIC T4 Gb T4 Ex tb IIIC T120 °C Db T4, IP66 & IP68

Temperature -20 °C to +70 °C (-4 °F to +158 °F) *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +70 °C (-58 °F to +158 °F)

China – Hazardous Area (CCC Ex)

2020322307001142 & 2020322307001124

GB 3836.1 – 2021, GB 3836.2 – 2021 GB 3836.3 – 2021, GB 3836.31 – 2021

Ex db IIB T4 Gb, Ex tb IIIC T120C Db IP66/IP68 Ex db IIC T4 Gb, Ex tb IIIC T120C Db IP66/IP68 Ex dbeb IIB T4 Gb, Ex tb IIIC T120C Db IP66/IP68 Ex dbeb IIC T4 Gb, Ex tb IIIC T120C Db IP66/IP68

Temperature -20 °C to +70 °C (-4 °F to +158 °F) *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (- 58 °F to +104 °F)

2020322307000647 & 2020322307000648

GB 3836.1 – 2021, GB 3836.2 – 2021 GB 3836.31 – 2021

Ex db IIB T4 Gb, Ex tb IIIC T120°C Db Ex db IIC T4 Gb, Ex tb IIIC T120°C Db

Temperature -20 °C to +70 °C (-4 °F to +158 °F) *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (- 58 °F to +104 °F)

USA – Hazardous Area

CSAus - Explosionproof to NEC Article 500 (FM3600, FM3615 & FM3616) Class I, Division 1, Groups C & D Class II, Division 1, Groups E, F & G FM Explosionproof to NEC Article 500 FM3600, FM3615 & FM3616

Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

Class I, Division 1, Groups B, C & D Class II, Division 1, Groups E, F & G Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F)

*Option -50 °C to +40 °C (-58 °F to +104 °F)

Rotork can supply RHS Pro product to national standards not listed above. For details please contact Rotork.

Refer to RHS Pro nameplate for unit specific approval details.

Canada – Hazardous Area

CSA Explosionproof to C22.2 No. 30 CSA Dust explosionproof to C22.2 No. 25 Class I, Division 1, Groups C & D Class II, Division 1, Groups E, F & G

Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

Class I, Division 1, Groups B, C & D

Class II, Division 1, Groups E, F & G

Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

Brazil - Hazardous Area (INMETRO)

ABNT NBR IEC 60079-0 ABNT NBR IEC 60079-1 ABNT NBR IEC 60079-31

Ex db IIB T4 Gb Ex tb IIIC T120 °C Db, IP6X

Temperature -20 °C to +70 °C (-4 °F to +158 °F)* *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +70 °C (-58 °F to +158 °F)

Ex db IIC T4 Gb Ex tb IIIC T120 °C Db, IP6X

Temperature -20 °C to +70 °C (-4 °F to +158 °F)* *Option -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +70 °C (-58 °F to +158 °F)

US – Non-Hazardous

UL50 Enclosure Type 4x & 6

Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

International Non-Hazardous

Ingress Protection, BS EN60529 IP66 & IP68, (7 metres for 72 hours) Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

Canada – Non-Hazardous

Enclosure Type 4x & 6 CSA C22.2 No. 94

Temperature -30 °C to +70 °C (-22 °F to +158 °F) *Option -40 °C to +70 °C (-40 °F to +158 °F) *Option -50 °C to +40 °C (-58 °F to +104 °F)

Rotork can supply RHS Pro product to national standards not listed above. For details please contact Rotork.

9. Approvals continued

Maximum constructional flamepath gaps

Flamepath	Max. gap (mm)	Min. length (mm)	Equipment type
Electrical cover / back housing	0.15	26.00	All types and sizes
Terminal cover / back housing ATEX, IECEx & UKEX	0.15	12.50	RHS Pro
Terminal cover / back housing for FM & CSA	0.115	12.50	RHS Pro
Transfer loom bush for FM & CSA	0.115	25.00	RHS Pro
Transfer loom bush flamepath	0.15	25.00	RHS Pro

IECEx, ATEX, UKEX and CSA certified RHS Pro

\triangle SPECIAL CONDITIONS

This Remote Hand Station Pro must only be located in areas where the risk of impact to the viewing window is low. This equipment includes some exterior non-metallic paints including the protective coating. To avoid the possibility of static build up, cleaning must only be carried out with a water dampened cloth.

For CAN / CSA C22.2 No. 61010-1-12 compliance the RHS Pro must be connected to a Rotork actuator.

⚠️ THREAD DETAILS FOR ATEX, UKEX AND IECEX APPROVAL

Threaded	Thread	Thread	Equipment type
flamepath	size	length	
Cable entry	M25x1.5	20.00	All types and sizes

⚠ EXTERNAL ENCLOSURE FASTENERS

Enclosure fasteners are stainless steel grade A4-80 M8 for the main display cover and 12.9 M5 for the terminal cover.

Vibration, shock and noise

Standard Remote Hand Station Pro is suitable for applications where vibration and shock severity does not exceed the following:

Туре	Level
Plant induced vibration	1g rms total for all vibration within the frequency range of 10 to 1000 Hz
Shock	5g peak acceleration
Seismic	2g acceleration over a frequency range of 1 to 50 Hz if it is to operate during and after the event
Emitted noise	Independent tests have shown that at 1m generated noise does not exceed 65 db(A)

9. Environmental

Subject	Definition	Remarks / examples	Hazardous	Recyclable	EU waste code	Disposal
Electrical & electronic equipment	Printed circuit boards Wire	All products All products	Yes Yes	Yes Yes	20 01 35 17 04 10	Use specialist recyclers
Glass	Lens/window	RHS Pro	No	Yes	16 01 20	Use specialist recyclers
Metals	Aluminium copper/brass	Covers Wire	No No	Yes Yes	17 04 02 17 04 01	Use licensed recyclers
Rubber	Seals & O-rings	Cover	Yes	No	16 01 99	May require special treatment before disposal, use specialist waste disposal companies

End user advice on disposal at end of life of the product

In all cases check local authority regulation before disposal.



Contact us now

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