

SCBA UPGRADE

From 6 to 10 year service interval



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INTRODUCTION

DESCRIPTION

The time interval for recommended maintenance service for SCBA (Self Contained Breathing Apparatus) has been extended from 6 years to 10 years under the following conditions:

- The extended service interval applies to all SCBA that were delivered after 1 January 2008.
- The extended service interval applies to all SCBA that have been checked/updated according to these instructions.

These instructions describe which components must, alternatively should, be replaced to enable the recommended period for maintenance service to be extended to 10 years.

The improved components have been gradually implemented into our production, and are all in place since 1 January 2008.

SCBA's that were delivered before 1 January 2008 can, with certain exceptions, be upgraded at the next planned 6-year service so that they qualify for a 10-year service period.

The scope of upgrades will vary depending on the age of the apparatus.

The decision to extend the time interval for scheduled service (according to above) is described in the 'New service policy for Interspiro SCBA' product bulletin, document number 30433A.

Refer to the apparatus' service and maintenance manual for information regarding dismantling and assembling of components that are to be replaced.

1 GENERAL

SAFETY INSTRUCTIONS

■ Only holders of valid Interspiro service certificates for the equipment in question may perform service and repairs on Interspiro's breathing apparatus. Repairs that are performed by non-authorised parties can lead to faults in the equipment that can cause serious injury or death.

Every time the equipment has been dismantled and assembled, its function must be tested according to Interspiro's testing instructions. Failure to perform complete function testing can lead to functional faults in the equipment that can cause serious injury or death.

Changes to this manual may be made without advance notice.

Go to **www.interspiro.com** for the latest service bulletins, updates and information regarding products and documentation.

Post-usage cleaning and maintenance instructions are described in the user manual that accompanies each unit.

UPGRADE COMPONENTS

■ When upgrading, all of the components that are normally included in a 6-year service must be replaced according to the instructions in the service and maintenance manual for the relevant breathing apparatus.

These instructions also describe some of the parts that must be replaced or that are recommended to be replaced.

Assembly work is described in the service and maintenance manual for the relevant breathing apparatus.

FUNCTION CHECK

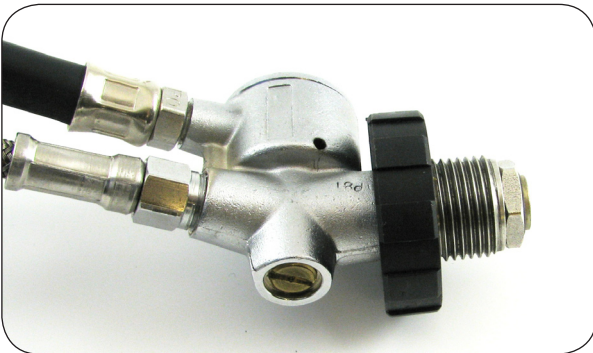
■ A complete function check of the SCBA must be performed once a year according to the service and testing schedule.

2 UPGRADE INSTRUCTIONS

SPIROMATIC REGULATOR

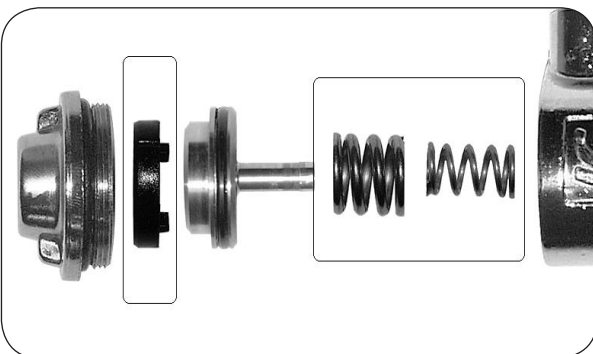
SERIES 1 REGULATORS

- Cannot be upgraded to a 10-year service interval. These regulators are characterised by the inability to mount a rubber cover onto the regulator.

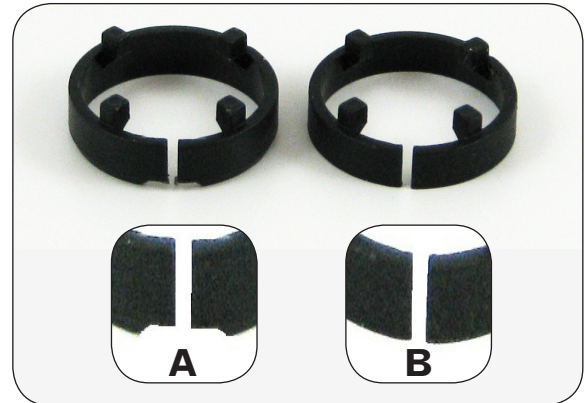


SERIES 2 REGULATORS

- These regulators must be equipped with:
 - double springs
 - and
 - the new stop ring in the cover

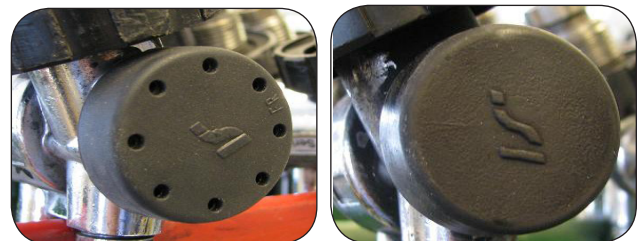


- A The new stop ring, which is slightly higher than the older ring, has sloped edges towards the opening.
- B The old stop ring lacks the sloped edges at the opening.



SERIES 3 REGULATORS

The regulator should be equipped with the new type of rubber cover with ventilation openings.

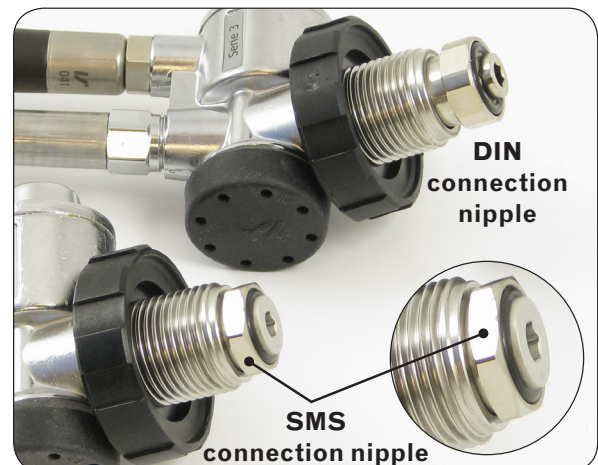


New version

Older version

OLDER SMS CONNECTION NIPPLE (SERIES 1, 2 & 3)

If the regulator is equipped with an SMS connection nipple, it must be replaced with a DIN connection nipple to meet the requirements for the 10-year service interval.



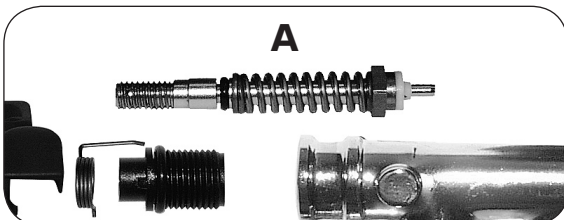
SPIROMATIC WARNING UNIT

SPIROMATIC WARNING UNIT WITH RESISTANCE WARNING

The warning unit must be equipped with the new type of handle, torsion spring and castle nut.

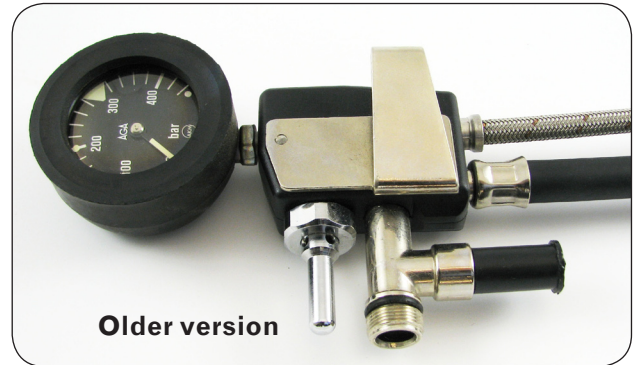


Ensure that the valve stem in the resistance warning (A in the illustration below) has an inner hexagonal wrench grip.



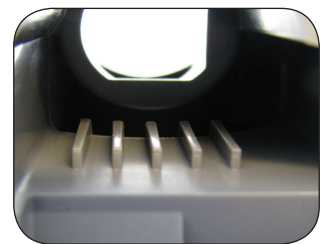
SPIROMATIC WARNING UNIT WITH WHISTLE

If the warning unit with whistle is an older type (see image), it cannot be serviced and must be replaced.



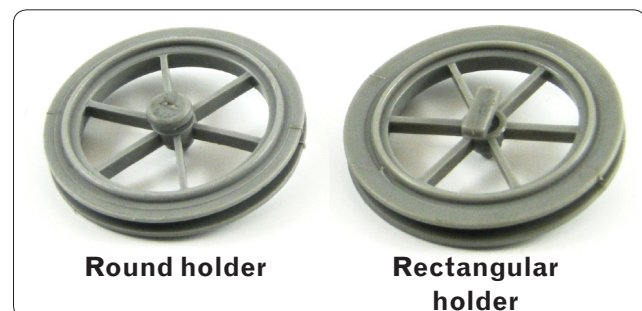
SPIROMATIC BREATHING VALVE

The valve housing must have low grooves (0.8 mm) on the inside; see image below on the left. Valve housing with high grooves is an older model and should be replaced.



SPIROMATIC FULL-FACE MASK

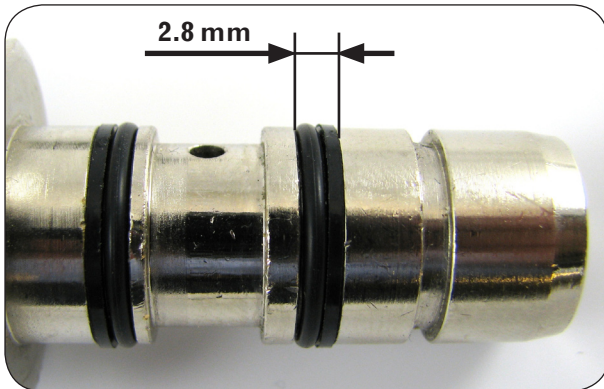
Ensure at the same time that the non-return valve holder is the larger type with a rectangular holder in the middle (image below).



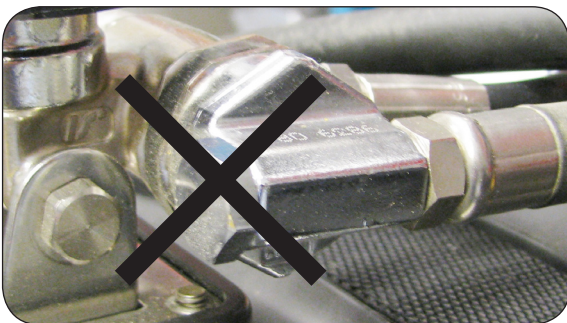
QS PLUG-IN REGULATOR/WHISTLE

The QS apparatus' regulator and whistle warning are of plug-in type. They both have the same type of high-pressure seal against the manifold.

- O-ring and back-up ring grooves must be 2.8 millimetres wide.
- The seal must consist of a combination of a black, wide back-up ring and a black, wide O-ring on each side of the high-pressure connection.



- The regulator must have a safety valve; plugged holes are not permitted.

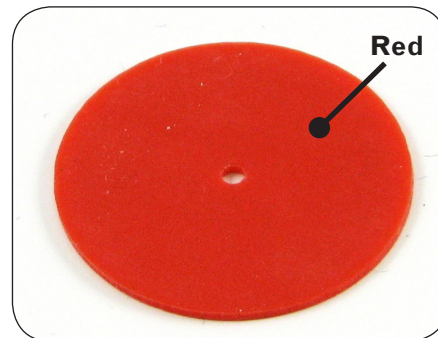


OLDER TYPES OF PLUG-IN UNITS

Older types of plug-in units with narrow O-ring grooves (approx. 2.0 mm) must be replaced with the most recent version. This is because the older parts are no longer kept in stock or maintained.

S-MASK

Must have red silicone non-return valve discs.



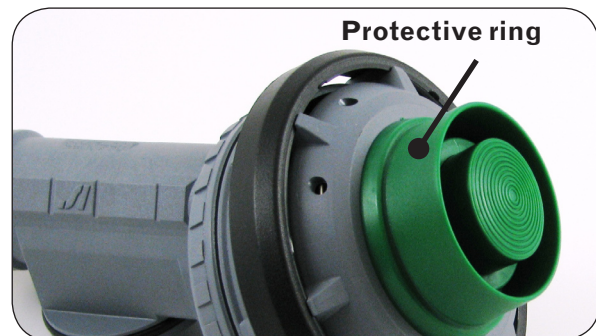
PRESSURE GAUGE

Pressure gauges with plastic housing should be replaced with pressure gauges with metal housing.



REVITOX BREATHING VALVE

The valve should have a protective ring around the green button.



MEDIUM-PRESSURE HOSES

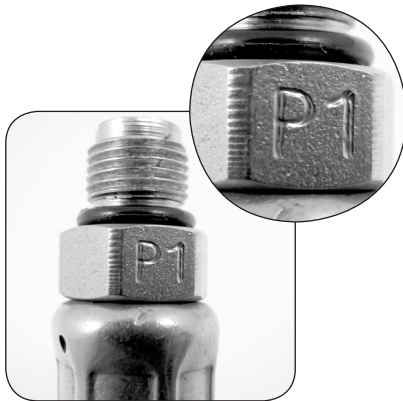
Medium-pressure hoses that are over 15 years old (from the date of manufacture) must not be used.

- Thus, the manufacturing date for hoses in the system needs to be checked. In order for the breathing apparatus to qualify for a 10-year service period, its hoses may not be older than a maximum of 5 years at the time of service.

Date of manufacture may be marked differently depending on the type of hose and manufacturing period.

Marking is sometimes found at both ends of the hose and sometimes only at one end. The most common types of marking are explained below.

'P1' MARKING



Example:

'P1' = P + YEAR in the 1980s = 1981

(This type of marking only occurred in the 1980s.

'P2' = 1982, 'P3' = 1983, 'P4' = 1984, etc.)

'P87' MARKING



Example:

'P87' = P + YEAR (two digits) = 19 87

'IS 086' MARKING



Example:

'IS 086' = IS + YEAR (two digits) + BATCH NO. (one digit) = 2008 batch 6

'0948' MARKING

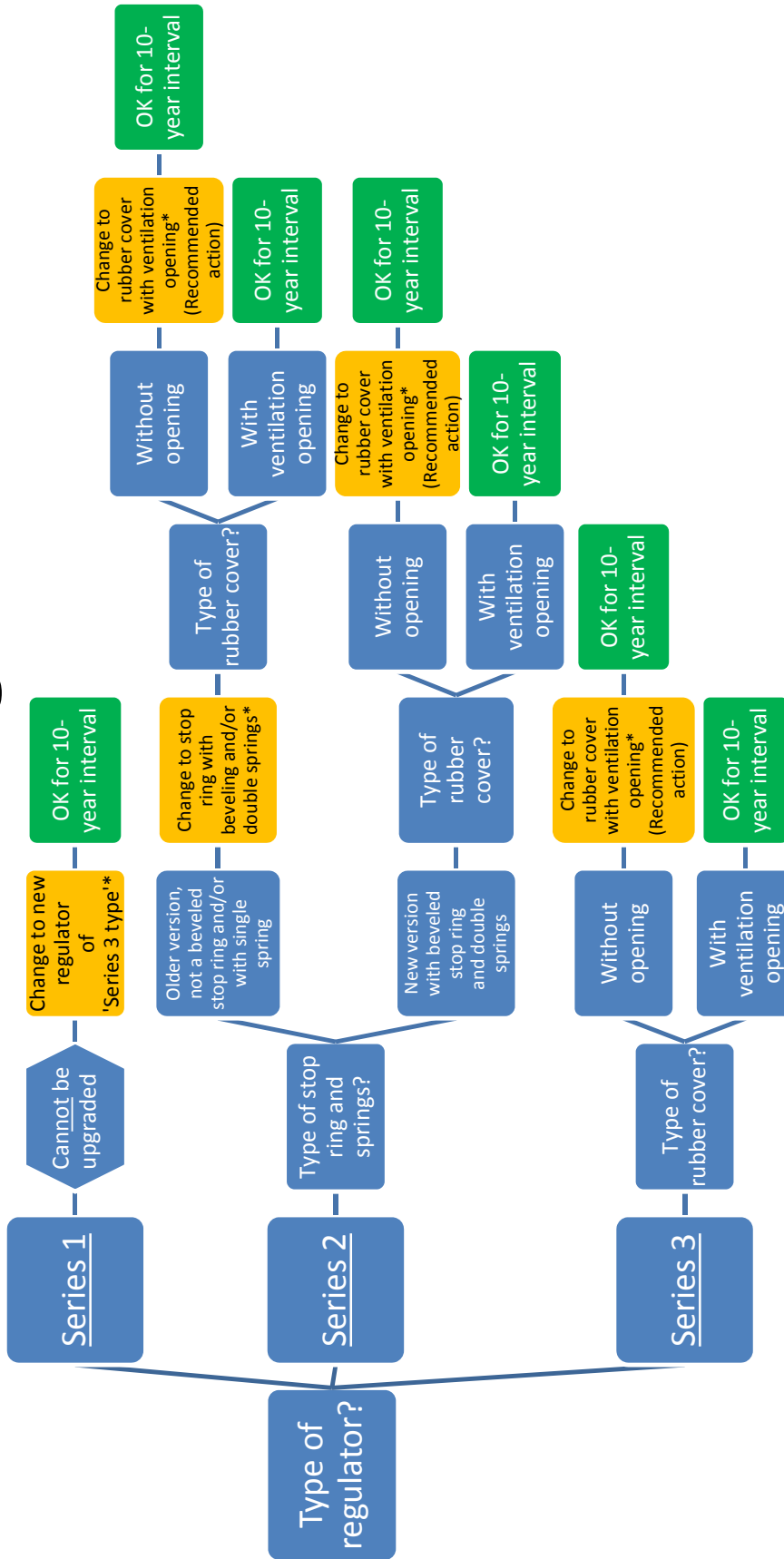


Example:

'0948' = YEAR (two digits) + WEEK NO. (two digits) = 2009 week 48

3 FLOW CHARTS

SPIROMATIC regulator unit



* All of the exchanged parts must be replaced with parts that were delivered after 1 January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice

Action

BLUE BOX = Question or choice

YELLOW BOX = Action
(If the choice is made not to implement the relevant action, the 6-year interval remains in place.)

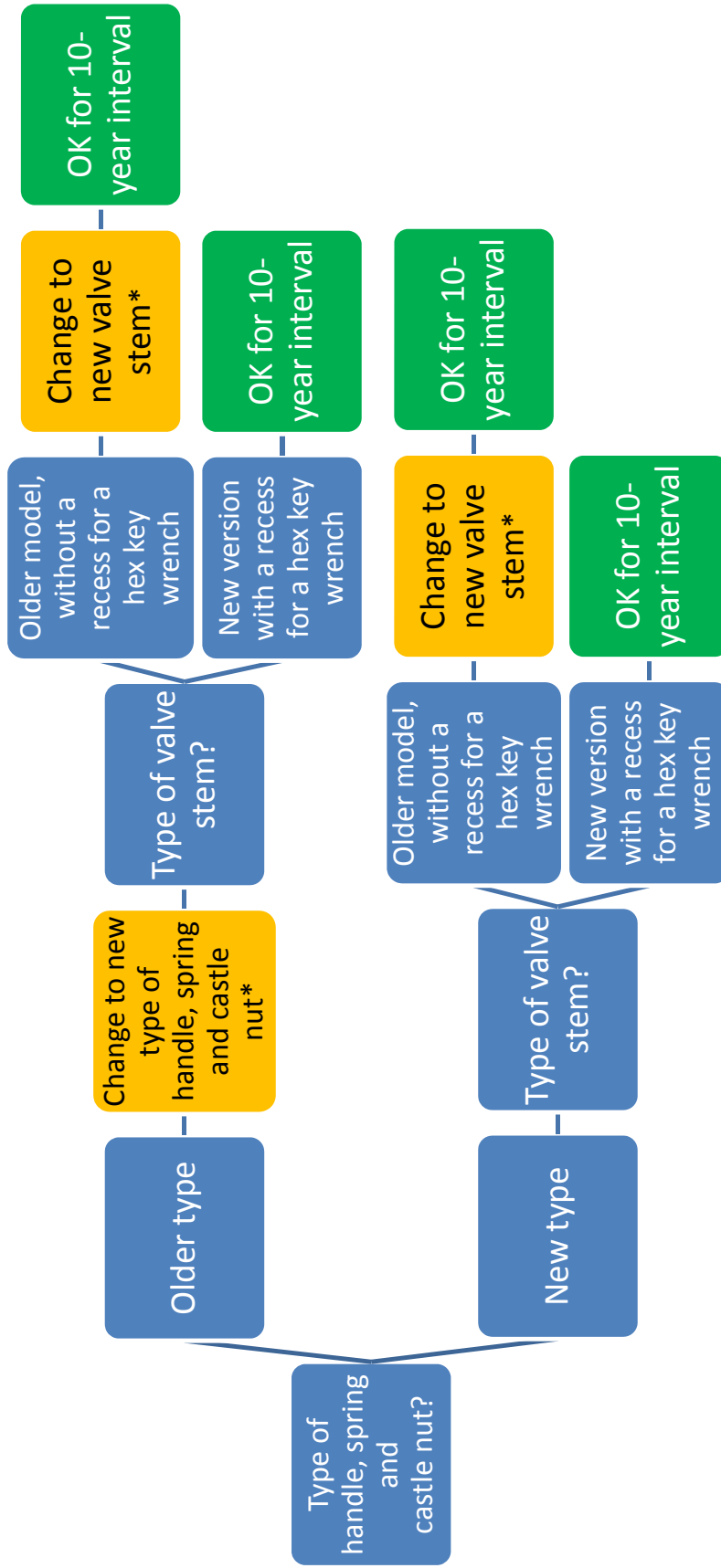
Mandatory action

OK

RED BOX = Mandatory action
Must be performed no matter the choice of service interval.

GREEN BOX = OK for 10-year interval

SPIROMATIC warning unit with resistance warning



* All of the exchanged parts must be replaced with parts that were delivered after 1. January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice

Action

BLUE BOX = Question or choice

YELLOW BOX = Action
(If the choice is made not to implement the relevant action, the 6-year interval remains in place.)

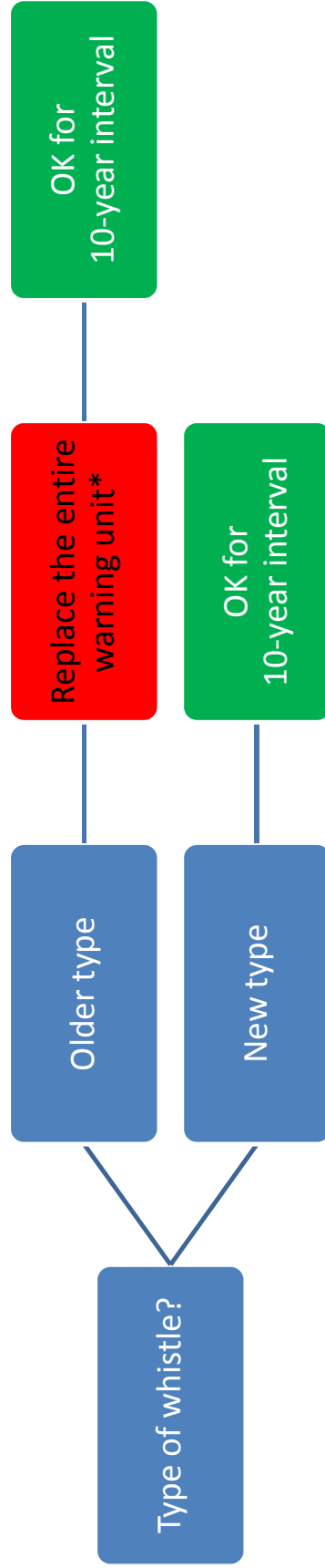
Mandatory action

OK

RED BOX = Mandatory action
Must be performed no matter the choice of service interval.

GREEN BOX = OK for 10-year interval

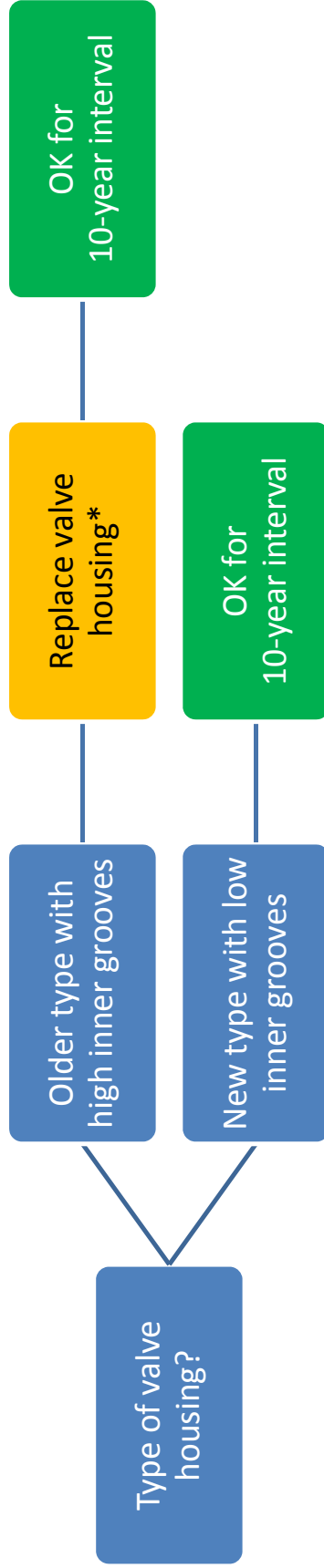
SPIROMATIC warning unit with whistle



* All of the exchanged parts must be replaced with parts that were delivered after 1. January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice	BLUE BOX = Question or choice	Mandatory action	RED BOX = Mandatory action <small>Must be performed no matter the choice of service interval.</small>
Action	YELLOW BOX = Action <small>(if the choice is made not to implement the relevant action, the 6-year interval remains in place.)</small>	OK	GREEN BOX = OK for 10-year interval

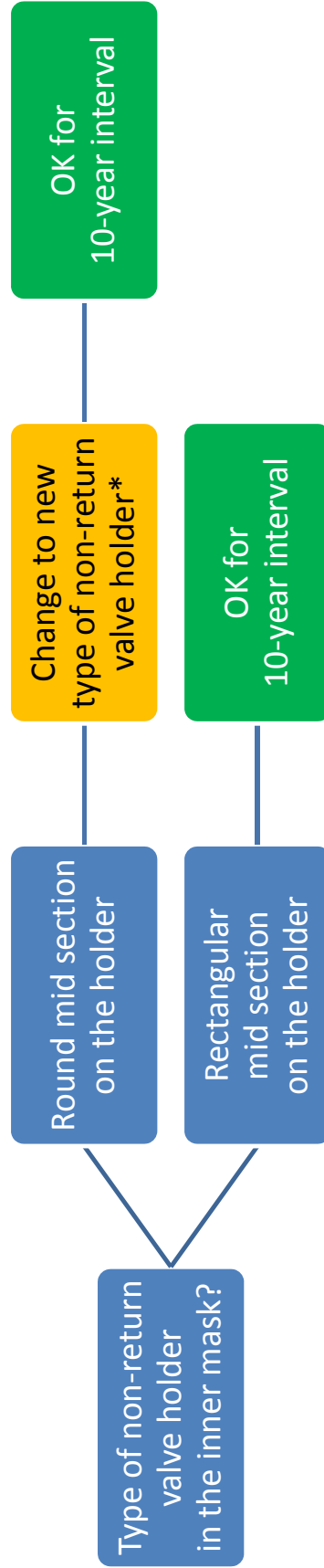
SPIROMATIC breathing valve



* All of the exchanged parts must be replaced with parts that were delivered after 1 January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice	Mandatory action	RED BOX = Mandatory action <small>Must be performed no matter the choice of service interval.</small>
Action	OK	GREEN BOX = OK for 10-year interval
BLUE BOX = Question or choice		
YELLOW BOX = Action <small>(if the choice is made not to implement the relevant action, the 6-year interval remains in place.)</small>		

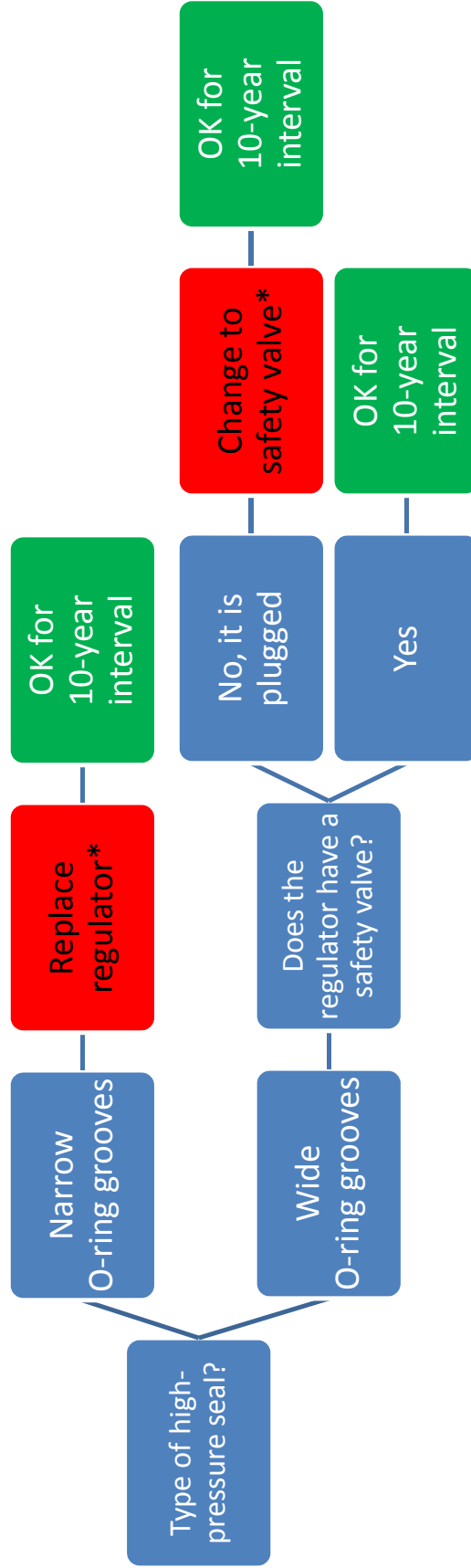
SPIROMATIC mask



* All of the exchanged parts must be replaced with parts that were delivered after 1. January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice	BLUE BOX = Question or choice	Mandatory action	RED BOX = Mandatory action <small>Must be performed no matter the choice of service interval.</small>
Action	YELLOW BOX = Action <small>(if the choice is made not to implement the relevant action, the 6-year interval remains in place.)</small>	OK	GREEN BOX = OK for 10-year interval

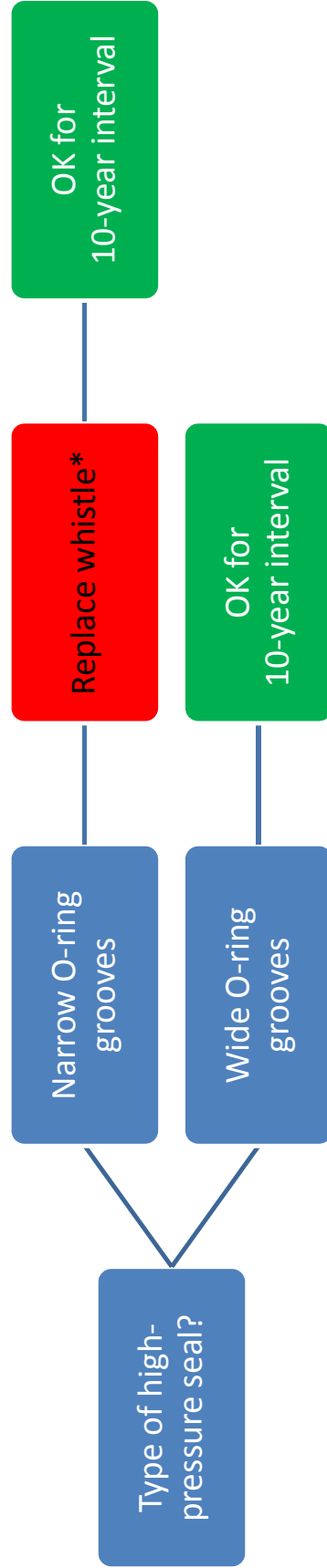
QS plug-in regulator



* All of the exchanged parts must be replaced with parts that were delivered after 1 January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice	BLU E BOX = Question or choice	Mandatory action	RED BOX = Mandatory action <small><u>M</u>ust be performed no matter the choice of service interval.</small>
Action	YELLOW BOX = Action <small>(if the choice is made not to implement the relevant action, the 6-year interval remains in place.)</small>	OK	GREEN BOX = OK for 10-year interval

QS whistle warning



* All of the exchanged parts must be replaced with parts that were delivered after 1 January 2008 to fulfill the requirements for the switchover to a 10-year interval.

Question or choice

Action

BLUE BOX = Question or choice

YELLOW BOX = Action
(If the choice is made not to implement the relevant action, the 6-year interval remains in place.)

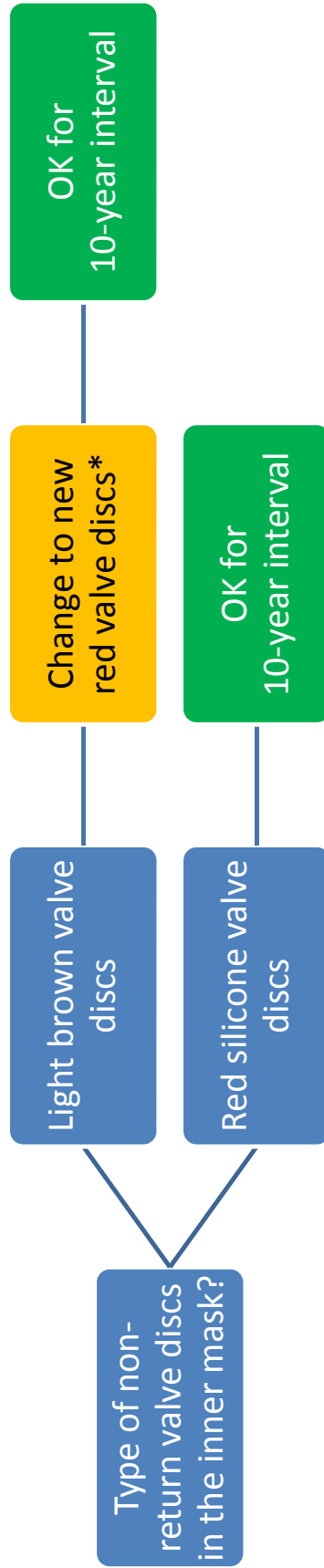
Mandatory action

OK

RED BOX = Mandatory action
Must be performed no matter the choice of service interval.

GREEN BOX = OK for 10-year interval

S-mask



* All of the exchanged parts must be replaced with parts that were delivered after 1 January 2008 to fulfil the requirements for the switchover to a 10-year interval.

Question or choice	BLUE BOX = Question or choice	Mandatory action	RED BOX = Mandatory action <small><u>Must</u> be performed no matter the choice of service interval.</small>
Action	YELLOW BOX = Action <small>(if the choice is made not to implement the relevant action, the 6-year interval remains in place.)</small>	OK	GREEN BOX = OK for 10-year interval

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