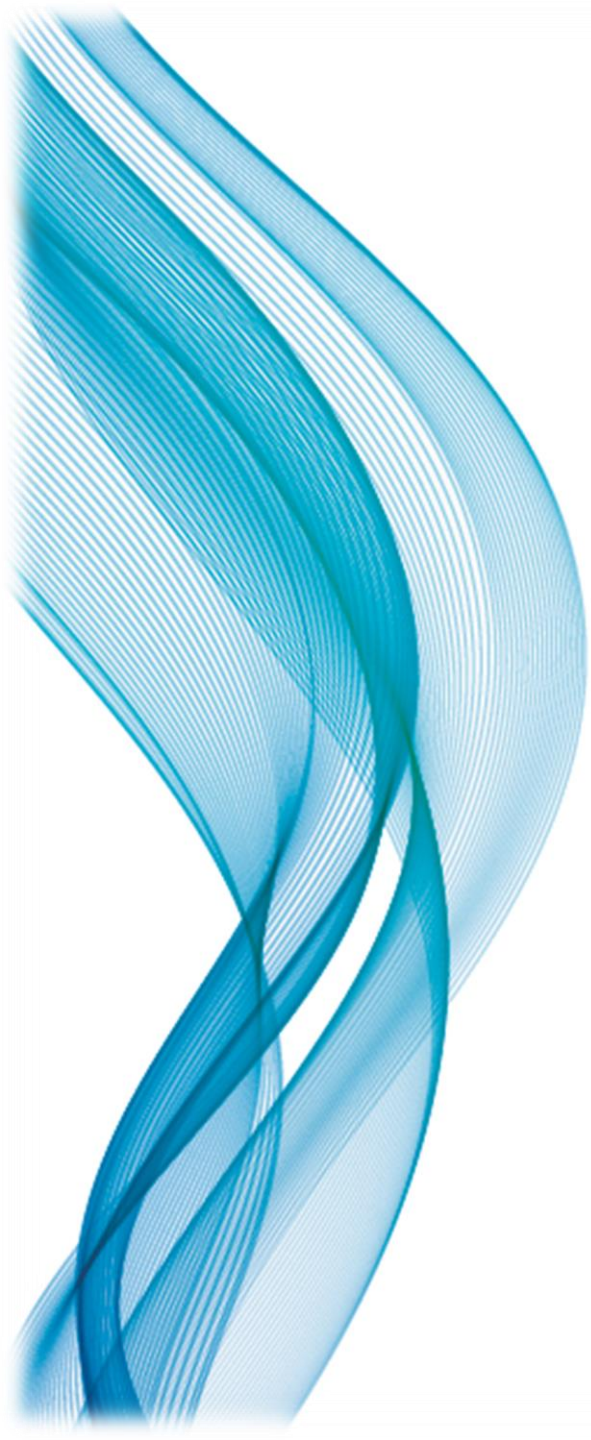
CAD

CLEAN & ASEPTIC DESIGN



CAD

CLEAN & ASEPTIC DESIGN

ONE IDEA
MANY SOLUTIONS

RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD valve maintenace

The following instructions describe the correct operating procedure of connection and disconnection of actuators and diaphragms on CAD valves.

General:

During connection and disconnection of actuators and diaphragms, take care of corners, surfaces, couplings and threadings.

Never use abrasive products or uncorrect tools.

Installation and repair work may be carried out by authorized technicians only and with appropriate tools.

DANGER:

Never open or disassemble the pneumatic actuator, spring under heavy load inside: open the actuator may result in serious injury.

WARNING:

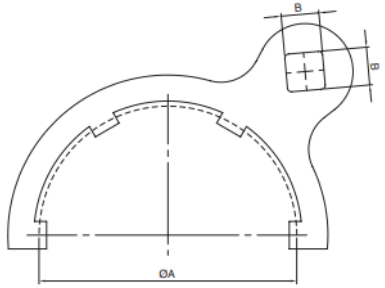
Failure to observe the warning may result in fatal or serious injury.

Before disconnect an actuator, to operate in safety condition, empty the pipeline: presence of internal pressure may result in serious injury.

Never disassemble or try to unlock the ring when the valve is under pressure, this may result in serious injuries or death.

TECHNICAL INFORMATION _ **CAT. N. YACT WRSS 0##0 0000S**

CAD WRENCH



Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

CAD Wrench, manufactured from solid stock in AISI 316L – 1.4404, engineered to achieve a perfect load on CAD Diaphragms and Actuators. Minimum torque level as indicated in the following table.

Size	A mm (inch)	B mm (inch)	PTFE min.torque Nm (lbf-ft)	EPDM min.torque Nm (lbf-ft)	SILICONE min.torque Nm (lbf-ft)	Code
A12 (1/2")	42,00 (1.65)	12,70 (1/2")	90 (66)	60 (44)	60 (44)	YACT- WRSS -0120-0000S
A19 (3/4")	60,00 (2.36)	12,70 (1/2")	130 (95)	80 (59)	80 (59)	YACT- WRSS -0190-0000S
A25 (1")	80,00 (3.15)	12,70 (1/2")	140 (103)	90 (66)	90 (66)	YACT- WRSS -0250-0000S
A38 (1.1/2")	99,00 (3.90)	12,70 (1/2")	150 (110)	100 (74)	100 (74)	YACT- WRSS -0380-0000S
A50 (2")	119,00 (4.69)	12,70 (1/2")	190 (140)	110 (81)	110 (81)	YACT- WRSS -0500-0000S
A63 (2.1/2")	143,00 (5.63)	12,70 (1/2")	200 (148)	120 (89)	120 (89)	YACT- WRSS -0630-0000S
A76 (3")	168,00 (6.61)	12,70 (1/2")	220 (162)	130 (96)	130 (96)	YACT- WRSS -0760-0000S
A00 (4")	198,00 (7.80)	12,70 (1/2")	240 (177)	NOT AVAILABLE	NOT AVAILABLE	YACT- WRSS -0000-0000S

RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

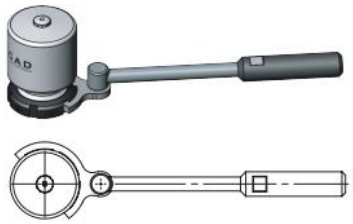
CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:

MATERIAL	AISI 316L – 1.4404

Correct use: Keep torque tool aligned with CAD Wrench as shown, to apply the correct torque.

Torque tool not included. Standard torque tool with standard 1/2" socket can be used.



Additional information: After first or second SIP cycle, please check torque level or tight again CAD Ring.

Packaging: CAD Wrench is sealed in plastic bags and packaged in a closed box.

Quality Control: Quality Assurance System guarantees the control and traceability of the product.

Orders and Information: For additional information or to place an order call your nearest Distributor or visit www.rattiinox.com

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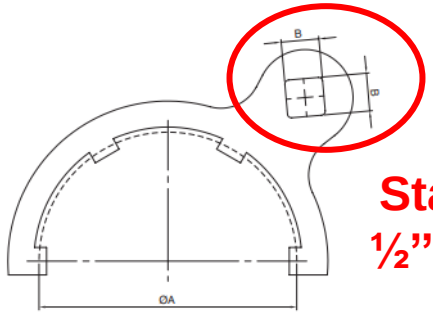
info@rattiinox.com

Version: 2018.04

TECHNICAL INFORMATION _ **CAT. N. YACT WRSS 0##0 0000S**

CAD WRENCH



Standard ½" socket

Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

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RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

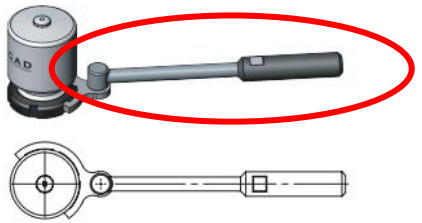
CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:	
MATERIAL	AISI 316L – 1.4404

Correct use: Keep torque tool aligned with CAD Wrench as shown, to apply the correct torque.

Torque tool not included. Standard torque tool with standard 1/2" socket can be used.

Standard torque tool wrench



Additional information: After first or second SIP cycle, please check torque level or tight again CAD Ring.

Packaging: CAD Wrench is sealed in plastic bags and packaged in a closed box.

Quality Control: Quality Assurance System guarantees the control and traceability of the product.

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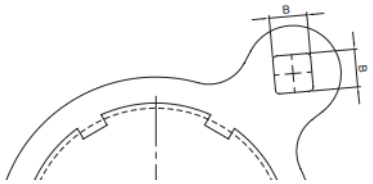
Version: 2018.04

TECHNICAL INFORMATION _ **CAT. N. YACT WRSS 0##0 0000S**

CAD WRENCH



Recommended torque

Clean and Aseptic Valves of CAD Product Line [illegible] and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast [illegible] sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production C[illegible] Processing.

CAD Wrench, manufactured from solid stock in AISI 3[illegible] 1.4404, engineered to achieve a perfect load on CAD Diaphragms and Actuators. Minimum torque level as indic[illegible]d in the following table.

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RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

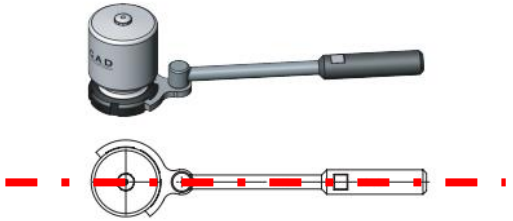
CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:	
MATERIAL	AISI 316L – 1.4404

Correct use: Keep torque tool aligned with CAD Wrench as shown, to apply the correct torque.

Torque tool not included. Standard torque tool with standard 1/2" socket can be used.

Keep correct alignment !



Additional information: After first or second SIP cycle, please check torque level or tight again CAD Ring.

Packaging: CAD Wrench is sealed in plastic bags and packaged in a closed box.

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Version: 2018.04

NOTE:

Use of genuine CAD Wrench recommended.

CAD Wrench allow the possibility to connect and use standard ½” socket torque tool to apply the proper torque on actuator's ring and achieve the proper seal.

For additional information please refer to related document:
YACT WRSS 0##0 0000S
Download link:
https://www.rattiinox.com/assets/files/PDF_Singoli/L-Tools%20and%20spare%20parts/L%20010.pdf

After first or second SIP cycle, please check torque level or tight again CAD Ring.

Internal valve inspection:

Before connect an actuator, check visually internal side of the valve: no dust, no dirty and no scratches allowed.

In case of presence of dust or dirty, remove it taking care to not scratch the internal side of the valve.

Clean and dry all internal area: take care of the closure area and sealing point.

Internal valve inspection:

Attention: in case of presence of evident scratches, contact Rattiinox or the nearest official distributor immediatly for support, scratches may compromize the correct function or cleanability of the valve also during CIP process.

Manual cleaning notes:

All cleaning products with chemical compatibility with AISI 316L stainless steel can be used for internal cleaning with soft cloths.

Do not use any tool or mechanical device or polishing compound or sand paper or abrasive.

ATTENTION

Pay the maximum attention for the presence of metal particle or dust produced during the construction of the piping, if entrapped inside the valve, may cause irreversible damage of the sealing part of the diaphragm.

CAD Diaphragm + Manual Actuator Connection

- Turn the handle clockwise up to the end of the stroke (closure stroke end)

- Take out the CAD diaphragm from the box

Attention: do not use knife during to open the box, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces

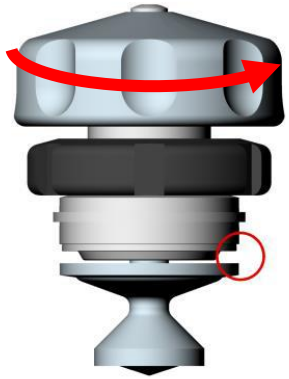
CAD Diaphragm + Manual Actuator Connection

- Connect the diaphragm to the connection on the manual actuator.

Attention: do not let it f all down, it may be damaged!

CAD Diaphragm + Manual Actuator Connection

- Turn the handle anticlockwise up to support the two ends between the stainless steel of the manual actuator and the external area of the diaphragm

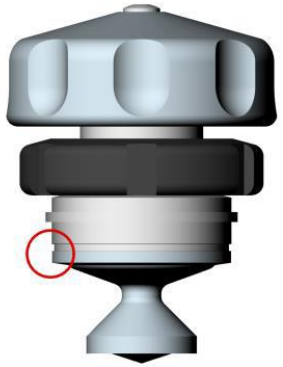


CAD Diaphragm + Manual Actuator Connection

- Insert the actuator and the diaphragm into the valve

Attention: keep the maximum attention during this operation, do not scratch or beat the actuator over the valve, may damage the diaphragm

Attention: see "Internal valve inspection" before this step!



- Rotate the ring clockwise to close the diaphragm and the actuator on the CAD valve body.

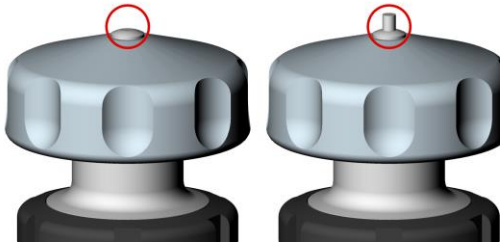
- Tighten the ring by hand, without any tool

- Turn the handle anticlockwise up to the middle of the stroke of the actuator

CAD Diaphragm + Manual Actuator Connection

- Tighten the ring using the correct wrench size according to the "Tools table".

Use of genuine CAD Wrench recommended to apply the proper sealing force



- Check the correct full opening and closing movement once, before use the valve in your process.

Attention: this step has to be done with the actuator and diaphragm connected and properly tightened.
Never do this operation with a diaphragm connected to the actuator but not connected to the valve body. This operation may result in a damage of the diaphragm.

CAD Diaphragm + NC Pneumatic Actuator Connection

NOTE:

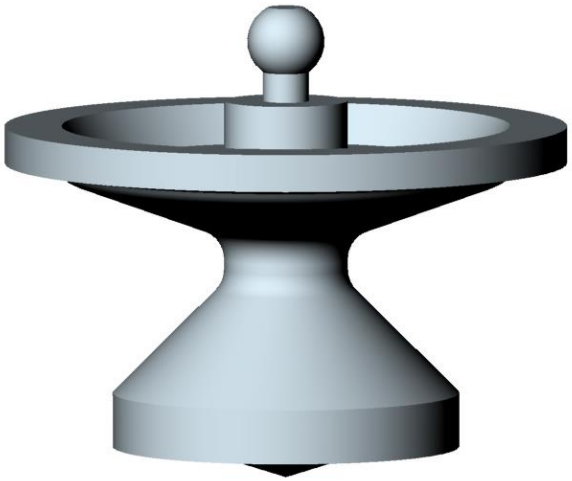
Pressurized air needed for this operation
(min 6 bar – max 7 bar)

CAD Diaphragm + NC Pneumatic Actuator Connection

- Take out the CAD diaphragm from the box

Attention: do not use knife during opening the box, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces.

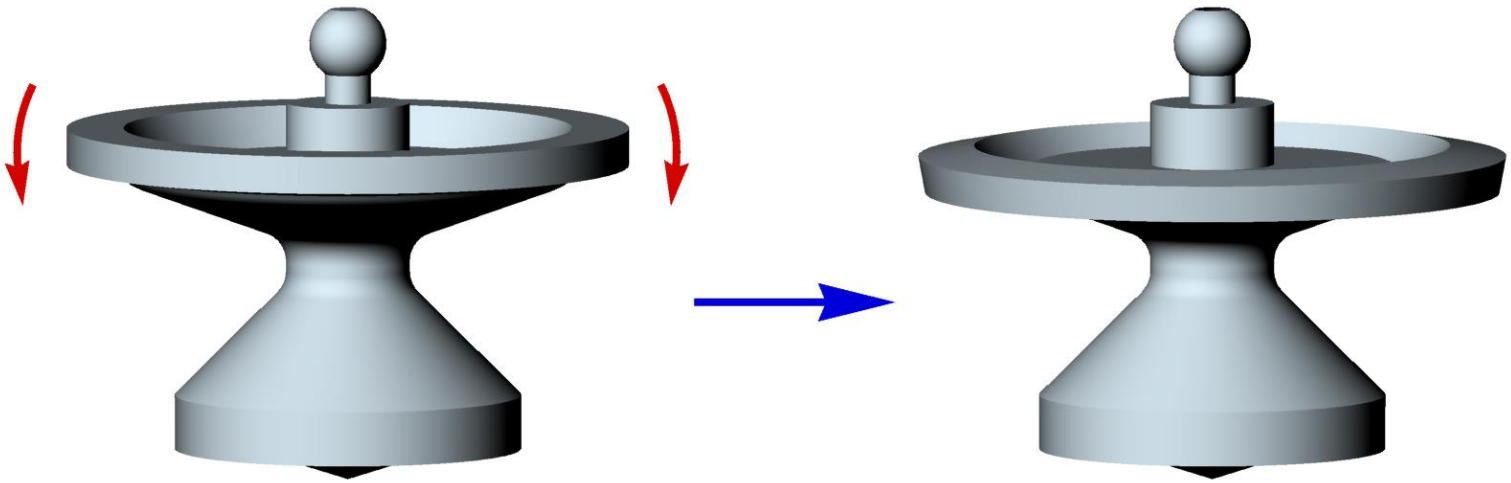


CAD Diaphragm + NC Pneumatic Actuator Connection

- Fold down the external area of the diaphragm gently

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces.

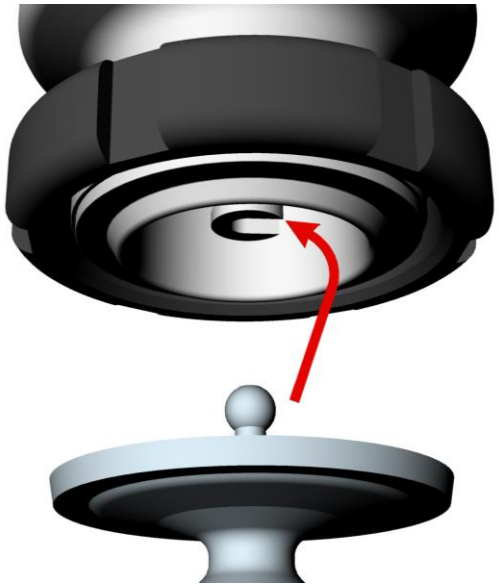


CAD Diaphragm + NC Pneumatic Actuator Connection

- Connect the diaphragm to the connection of the actuator.

Attention: do not let it fall down, it may be damaged!

Do not use any tools during this operation, it may damage the diaphragm.



CAD Diaphragm + NC Pneumatic Actuator Connection

- Fold up the external area of the diaphragm gently

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces

CAD Diaphragm + NC Pneumatic Actuator Connection

- Fold up the external area of the diaphragm gently

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces

CAD Diaphragm + NC Pneumatic Actuator Connection

- Insert the actuator and the diaphragm on the CAD valve body
Attention: keep the maximum attention during this operation, do not scratch or beat the actuator over the valve, may damage the diaphragm
Attention: see "Internal valve inspection" before this step!

-Rotate the ring clockwise to close the diaphragm and the actuator on the CAD valve body.

-Tighten the ring by hand, without any tool

CAD Diaphragm + NC Pneumatic Actuator Connection

- Connect the air supply to the actuator (6-7bar of air pressure required)

- Feed in pressurized air into NC actuator (this will move the pneumatic actuator to open position and pull diaphragm in correct position)

- Tighten the ring using the correct wrench size according to the "Tools table“

Use of genuine CAD Wrench recommended to apply the proper sealing force.

Attention: do not do this operation with actuator in closed position.

CAD Diaphragm + NC Pneumatic Actuator Connection

- Check the correct full opening and closing movement once, before use the valve in your process

Attention: this step has to be done with the actuator and diaphragm connected and tightened properly.

Never do this operation with a diaphragm connected to the actuator but not connected to the valve body.

This operation may result in a damage of the diaphragm.

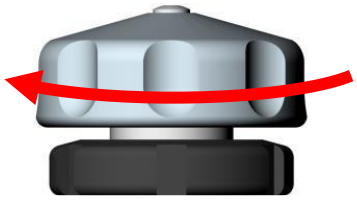
Failure to observe this warning may result in fatal or serious injury.

- Deactivate the CAD NC Pneumatic Actuator, removing pressurized air supply (valve will reach closed position)

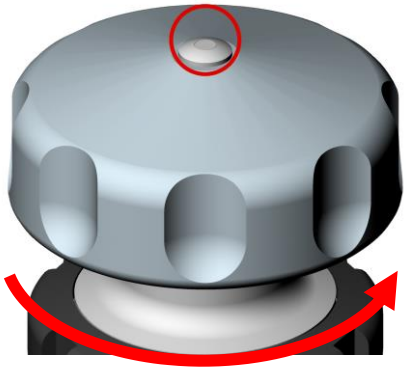
CAD Diaphragm + Manual Actuator Disconnection

- Rotate the handle clockwise, up to the valve closure point, gently

Attention: do not tighten, just move near to the closure point



- Unlock the ring (turn anticlockwise using the correct wrench size according to the "Tools table") and turn until it will be completely unscrewed



- Pull out the acuator and the diaphragm carefully

Attention: the diaphragm is connected to the actuator by a quick change system, do not let it fall down, it may be damaged!

CAD Diaphragm + Manual Actuator Disconnection

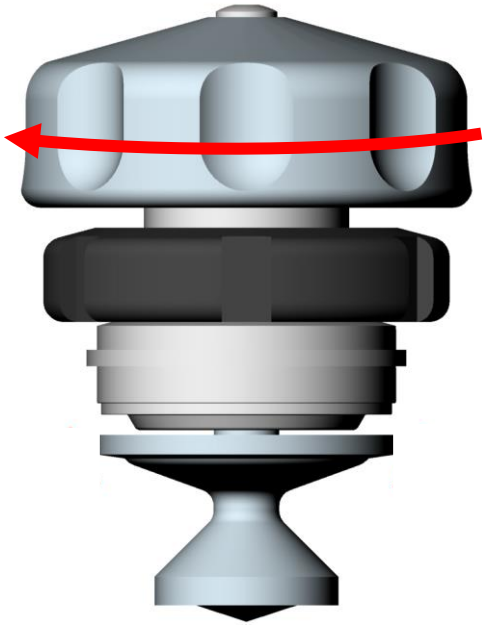
-Rotate again the handle gently clockwise up to the end of the lower stroke (fully closed position)

- Fold down the ends of the diaphragm gently

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces.

Attention: the diaphragm is connected to the actuator by a quick change system, do not let it fall down, it may be damaged!



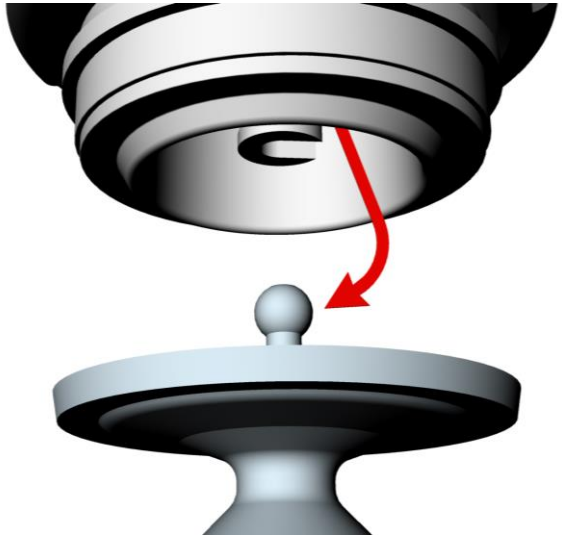
CAD Diaphragm + Manual Actuator Disconnection

- Disconnect the diaphragm

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces.

Attention: the diaphragm is connected to the actuator by a quick change system, do not let it fall down, it may be damaged!



CAD Diaphragm + NC Pneumatic Actuator Disconnection

NOTE:

Pressurized air NOT needed for this operation

CAD Diaphragm + NC Pneumatic Actuator Disconnection

- Switch off the air supply

- Pull out / disconnect the air supply
Attention: be sure the air supply is off

- Unlock the ring (turn anticlockwise using the correct wrench size according to the "Tools table") and turn until it will be completely unscrewed

- Pull out the actuator carefully
Attention: the diaphragm is connected by a quick change system, do not let it fall down, it may be damaged!

CAD Diaphragm + NC Pneumatic Actuator Disconnection

- Fold down the ends of the diaphragm gently

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces.

Attention: the diaphragm is connected by a quick change system, do not let it fall down, it may be damaged!

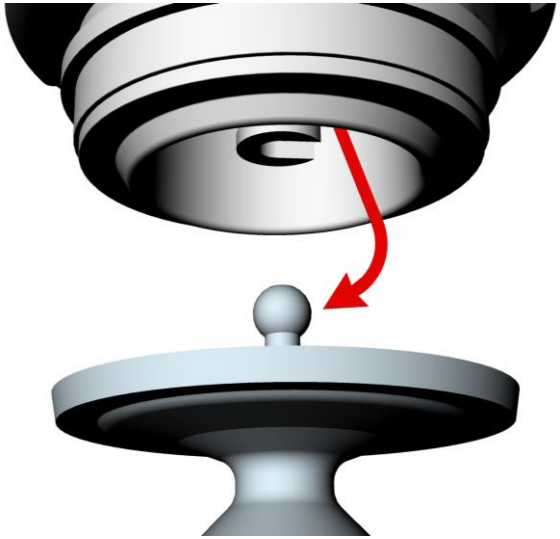
CAD Diaphragm + NC Pneumatic Actuator Disconnection

- Disconnect the diaphragm

Attention: do not use any tools during this operation, it may damage the diaphragm.

Take care of the diaphragm, do not scratch the corners and surfaces.

Attention: the diaphragm is connected by a quick change system, do not let it fall down, it may be damaged!



CAD Double Position Sensor

Protection against inrush current:

The sensor’s power supply must be protected with the fast fuses of 100 or 160 mA, depending on the current absorbed by the input circuit (BX signals). That is to say that the fuse will have to take into account the absorption of the PLC input

CAD Double Position Sensor

Technical data:

Power supply	10 ÷ 30VDC
Maximum current consumption without load (@Vin= 30V)	40 mA
Transistor output signaling on opening and closing position (POS1 e POS2)	Tipo: Open collector PNP Imax: 80mA Vmax: 40V
Operating temperature limits	-10°C + 80°C
Temperature limits Storage	-10°C + 80°C
Protection level	IP67
EMC Conformity	EN 61326-1:2006, EN61000-6-2:2006, EN61000-6-3:2007, EN 61326-2-3:2006

	OPERATION		
LED	PROGRAMMING	NORMAL	MALFUNCTION
Red	Flashes 2 times when it is recorded the closed valve position	Steady in the case of closed valve	Flash alternately with the GREEN LED in the case in which is recorded before the valve open position compared to that of valve closed
Blue	Stay on for 10 sec.	Off	Flashes when the valve is locked in an intermediate position.
Green	Flashes 2 times when it is recorded the valve open position	Steady when the valve is open	Flash alternately with the RED LED in the case in which is recorded before the valve open position compared to that of valve closed

CAD Double Position Sensor

Status:

Blue = Program start or waiting for signal
Red = Valve closed
Green = Valve open

CAD Double Position Sensor

Programming:

Via PLC or with CAD Programmer

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Pull out CAD Double Position Sensor from its own box

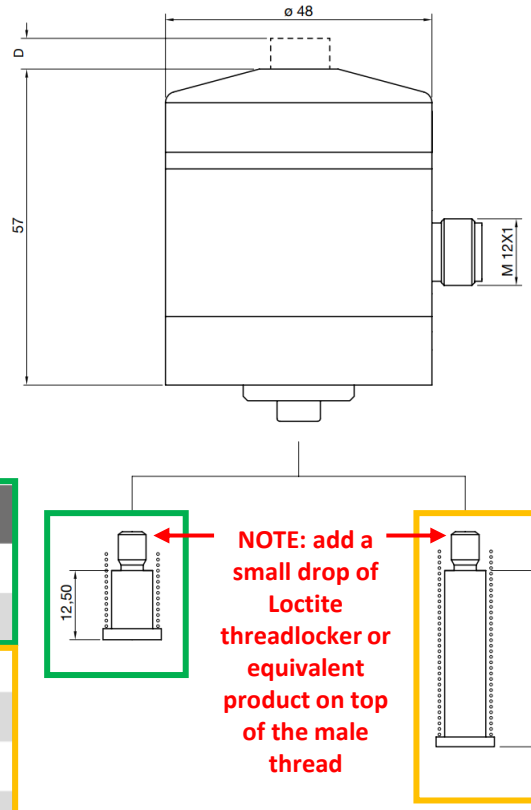
Attention: do not let it fall down, it may be damaged!

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Pull out CAD Double Position Sensor from its own box

Attention: do not let it fall down, it may be damaged!

- Install the correct needle + spring on sensor shaft according the following table



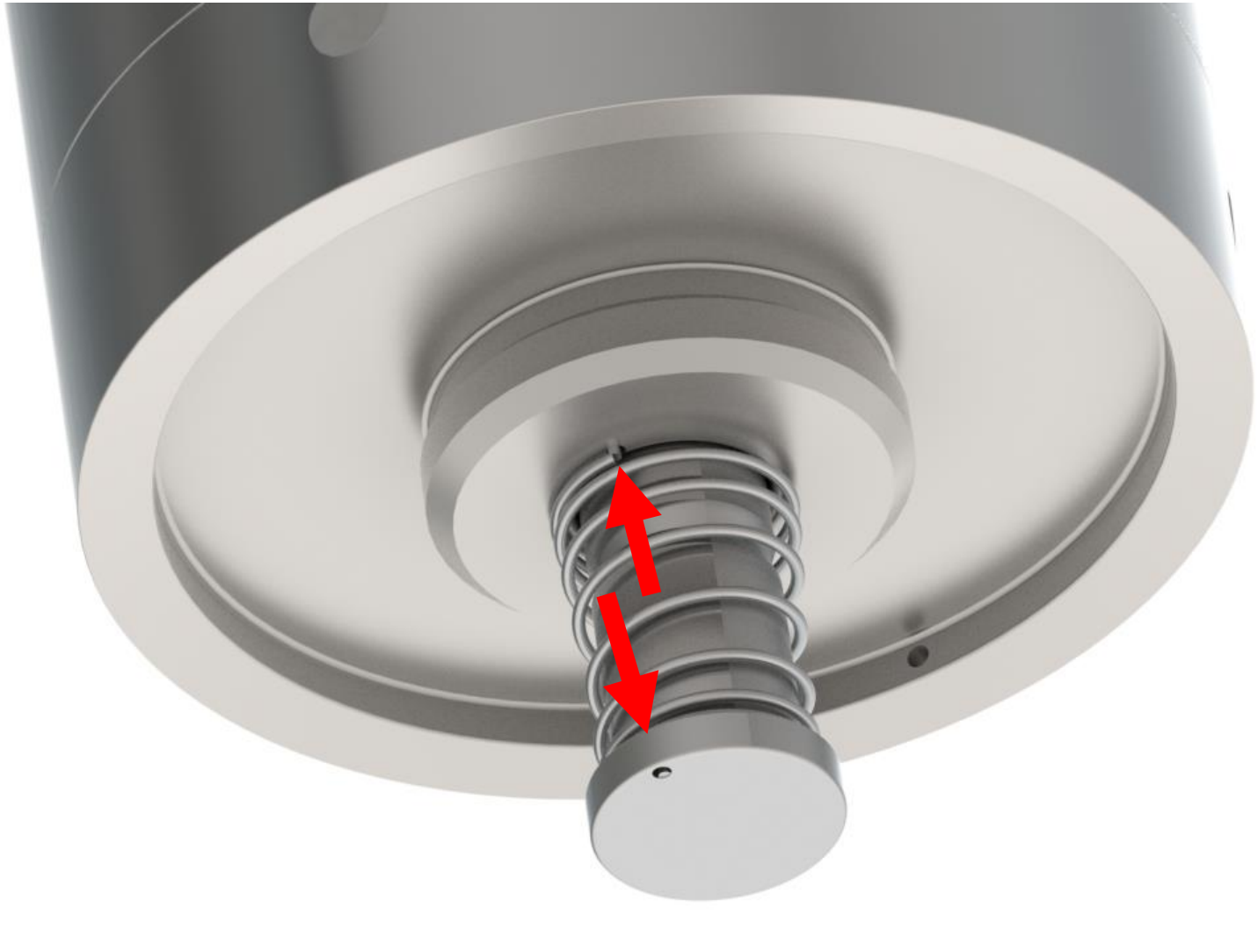
SIZE	ADAPTOR LENGHT mm (inch)	D mm (inch)
A12	12,50 (0,49)	2,50 (0,10)
A19	12,50 (0,49)	4,50 (0,18)
A25	31,80 (1,25)	5,50 (0,22)
A38	31,80 (1,25)	8,50 (0,34)
A50	31,80 (1,25)	11,00 (0,43)
A63	31,80 (1,25)	14,00 (0,55)
A76	31,80 (1,25)	17,00 (0,67)
A00	31,80 (1,25)	22,00 (0,87)

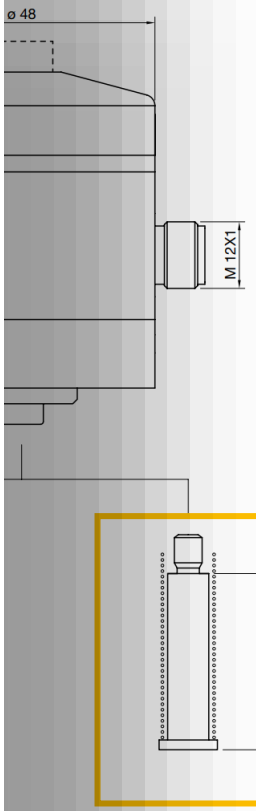
Insta

- F

- Insta

A





A00	31,80 (1,25)	22,00 (0,87)

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Unscrew and remove the upper cap
(turn anticlockwise with 24mm size wrench) from top of CAD NC Pneumatic Actuator

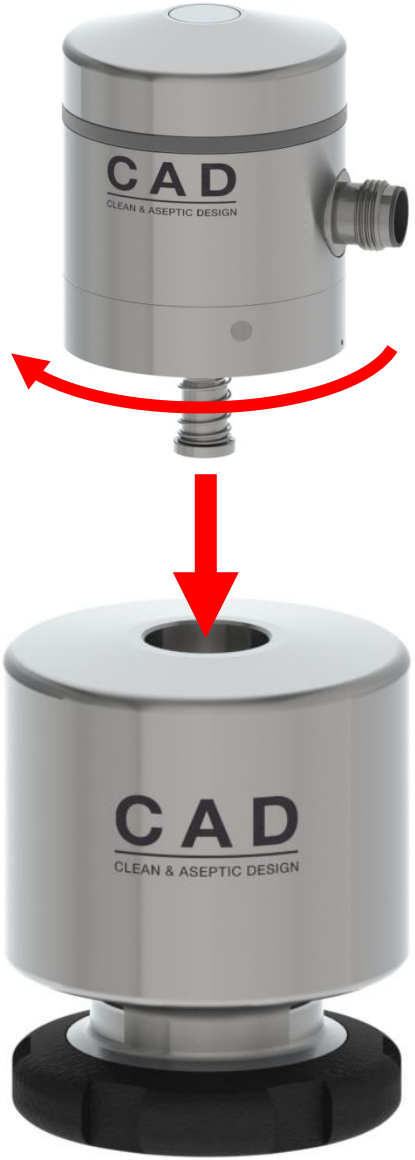
Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Unscrew and remove the upper cap (turn anticlockwise with 24mm size wrench) from top of CAD NC Pneumatic Actuator

- Remove the visual indicator and its own spring

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Screw on the CAD Double Position sensor (do not use any tool) and tight by hand.



Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Unlock the 3 M4 grub screw and rotate the sensor's head reaching the preferred position of cable connection.

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Unlock the 3 M4 grub screw and rotate the sensor's head reaching the preferred position of cable connection.

- Tight the 3 M4 grub screw

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Connect to PLC or to CAD Programmer

Attention: use of genuine CAD Cable recommended to achieve a sealed connection

Installation of CAD Double Position Sensor over CAD NC Pneumatic Actuator

- Connect to PLC or to CAD Programmer

Attention: use of genuine CAD Cable recommended to achieve a sealed connection

- Proceed with programming via PLC or using the CAD Programmer

Programming of CAD Double Position Sensor

NOTE:

Programming (via PLC or with CAD Programmer)
has to be done in less than 12 seconds
otherwise
CAD sensor will abort the procedure
and reload the old program

Programming of CAD Double Position Sensor with CAD Programmer

Pushing sequences over CAD Programmer

1- Keep the valve closed, reset and change status

Programming of CAD Double Position Sensor with CAD Programmer

Pushing sequences over CAD Programmer

1- Keep the valve closed, reset and change status
2- Keep the valve closed, detect and save closed position

Programming of CAD Double Position Sensor with CAD Programmer

Pushing sequences over CAD Programmer

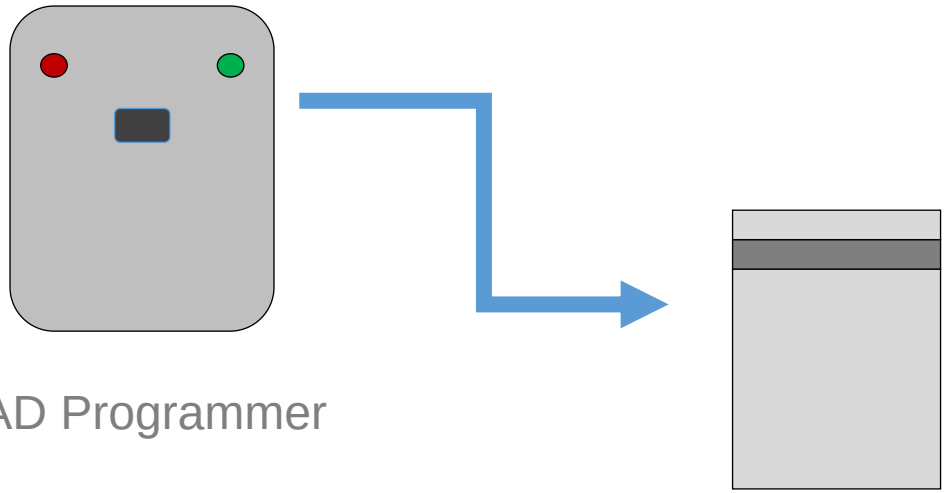
1- Keep the valve closed, reset and change status
2- Keep the valve closed, detect and save closed position
3- Open the valve, then detect and save open position

Programming of CAD Double Position Sensor with CAD Programmer

Pushing sequences over CAD Programmer

1- Keep the valve closed, reset and change status
2- Keep the valve closed, detect and save closed position
3- Open the valve, then detect and save open position
4- Wait for few seconds = Auto END Programing

Programming of CAD Double Position Sensor with CAD Programmer



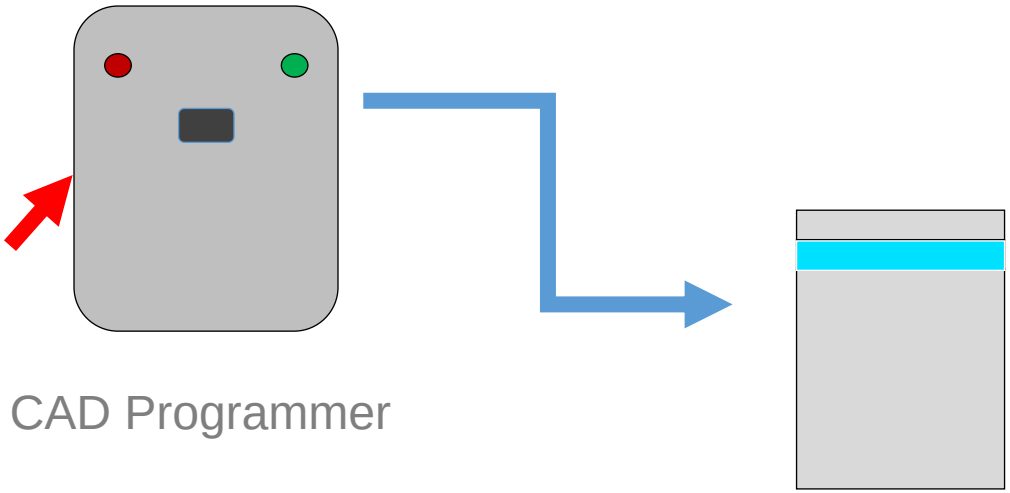
CAD Programmer

CAD

Double Position Sensor

Connect the
CAD Programmer
to the CAD Sensor

Programming of CAD Double Position Sensor with CAD Programmer



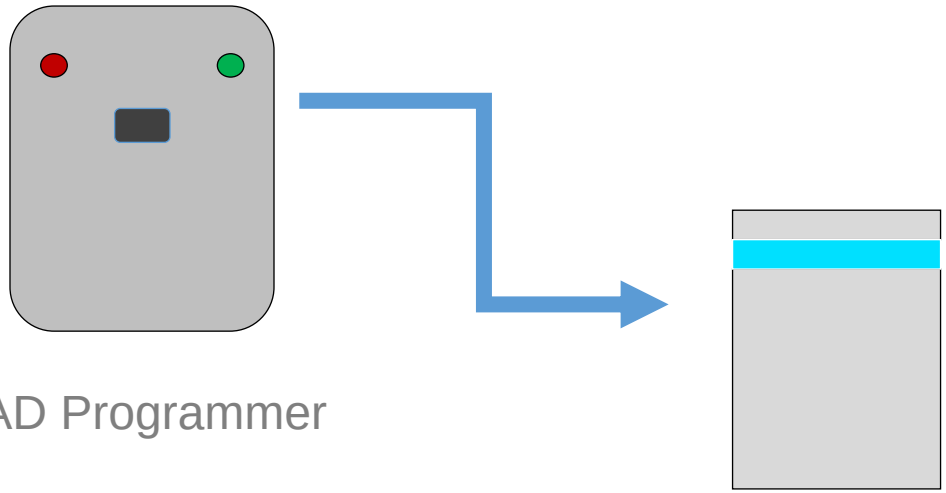
CAD Programmer

CAD

Double Position Sensor

Switch ON
CAD Programmer

Programming of CAD Double Position Sensor with CAD Programmer

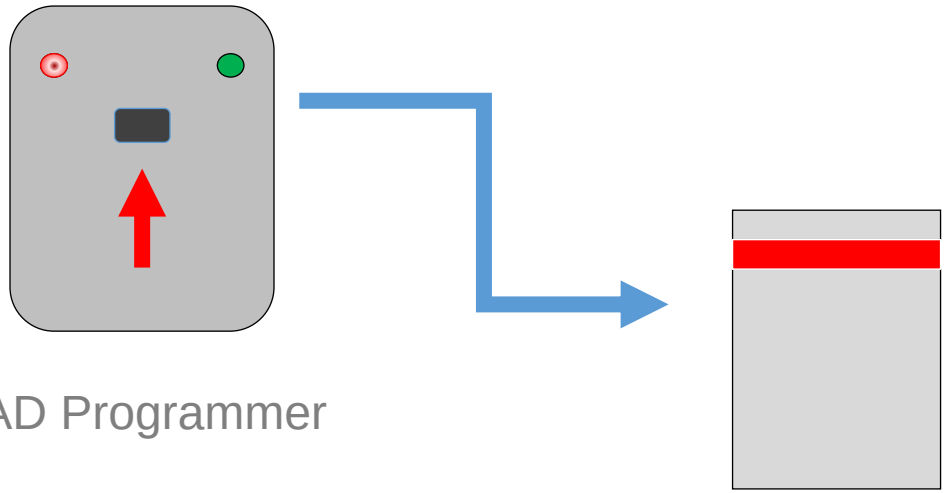


CAD Programmer

CAD

Double Position Sensor

Programming of CAD Double Position Sensor with CAD Programmer



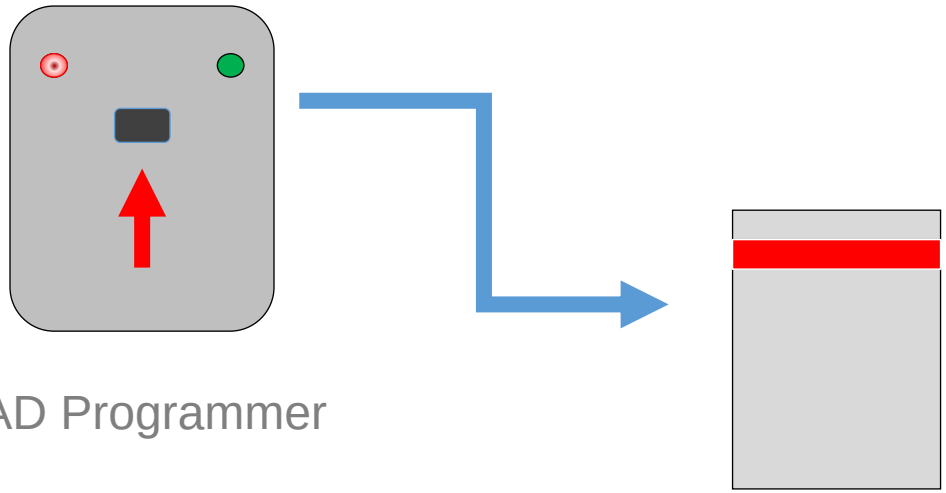
CAD Programmer

CAD

Double Position Sensor

Push button to save the close position

Programming of CAD Double Position Sensor with CAD Programmer



CAD Programmer

CAD

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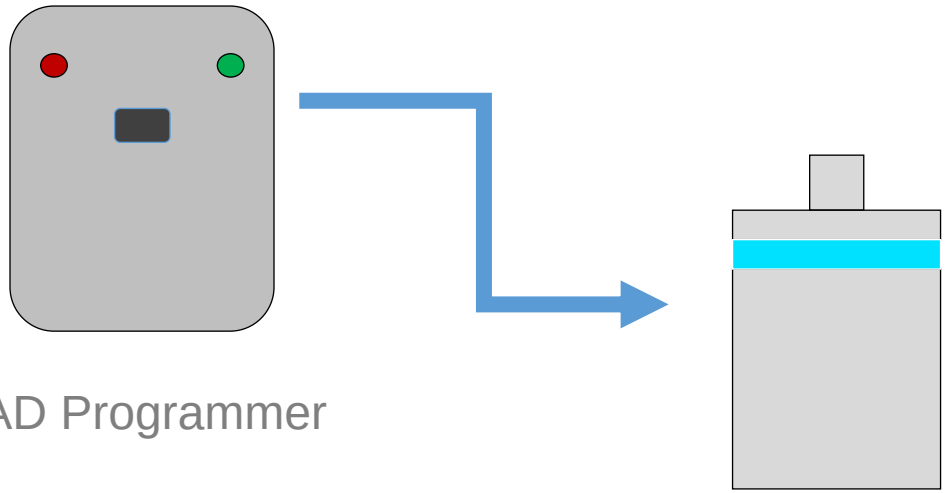
Push button to save the close position

Programming of CAD Double Position Sensor with CAD Programmer



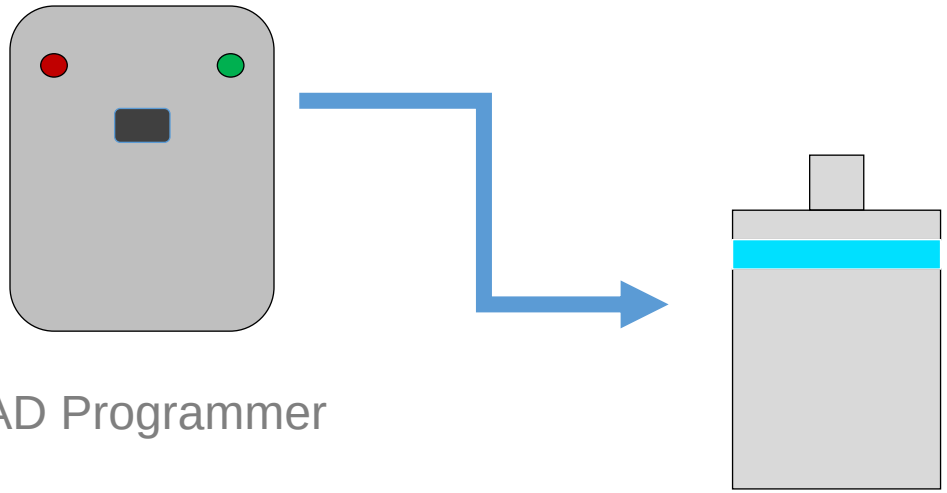
CAD Programmer

Open the valve

CAD

Double Position Sensor

Programming of CAD Double Position Sensor with CAD Programmer



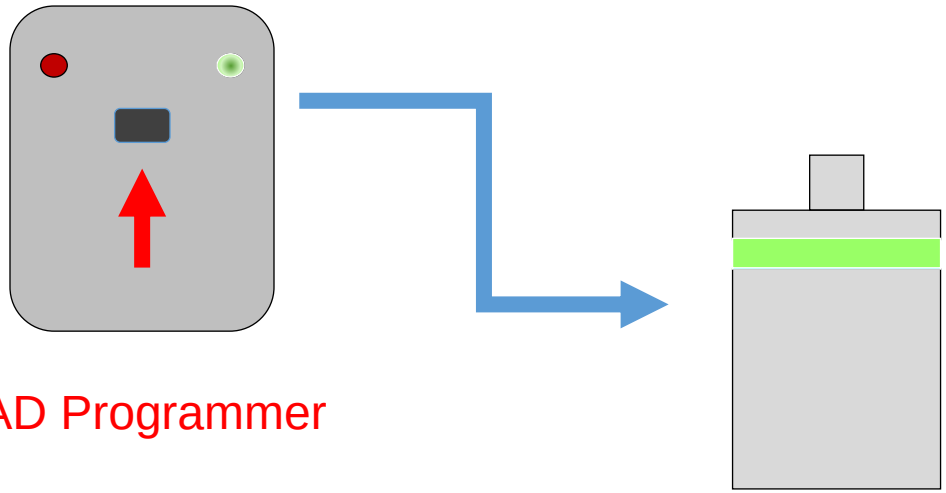
CAD Programmer

Open the valve

CAD

Double Position Sensor

Programming of CAD Double Position Sensor with CAD Programmer



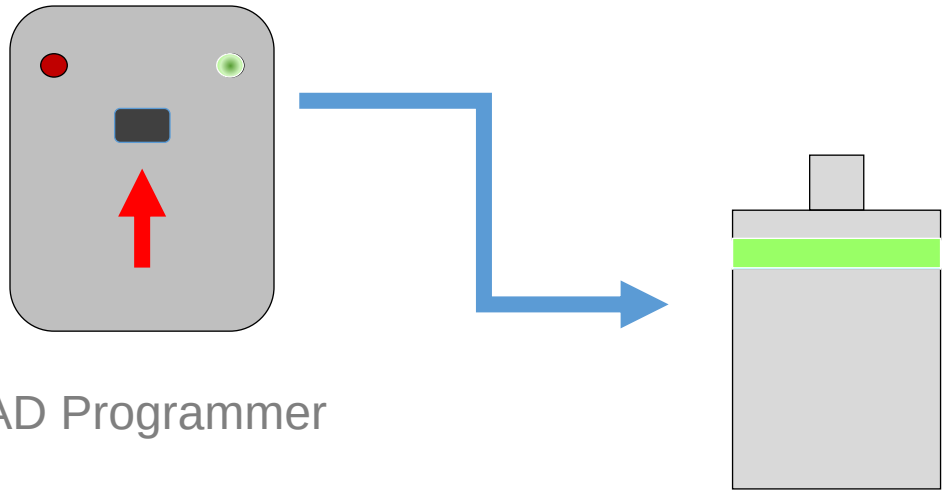
CAD Programmer

Push button to save the open position

CAD

Double Position Sensor

Programming of CAD Double Position Sensor with CAD Programmer



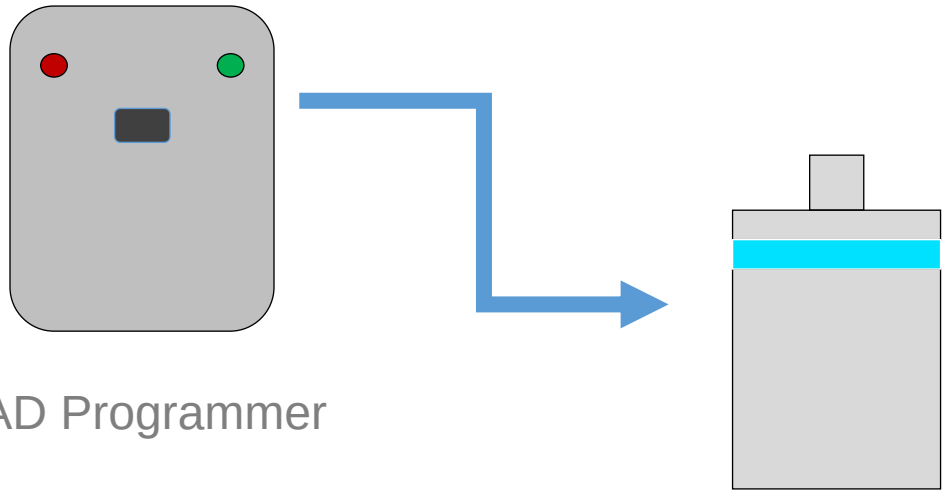
CAD Programmer

CAD

Double Position Sensor

Push button to save the open position

Programming of CAD Double Position Sensor with CAD Programmer



CAD Programmer

Close the valve

CAD

Double Position Sensor

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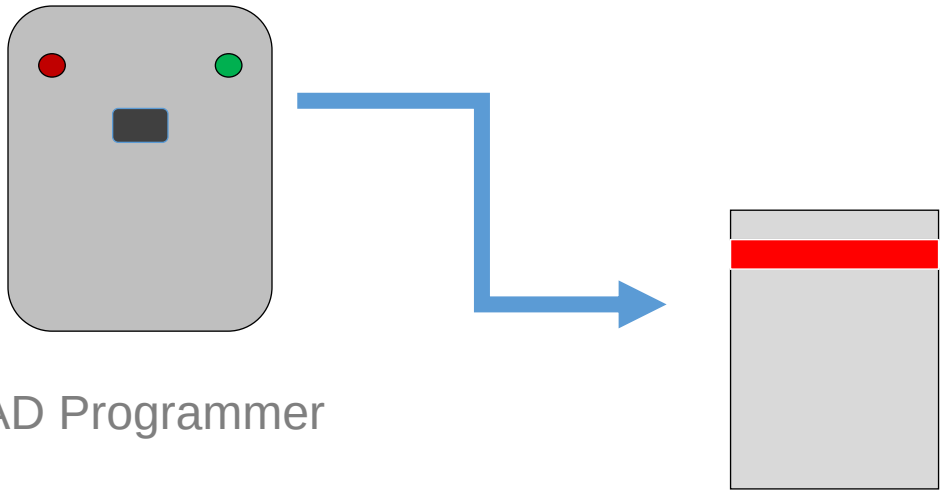


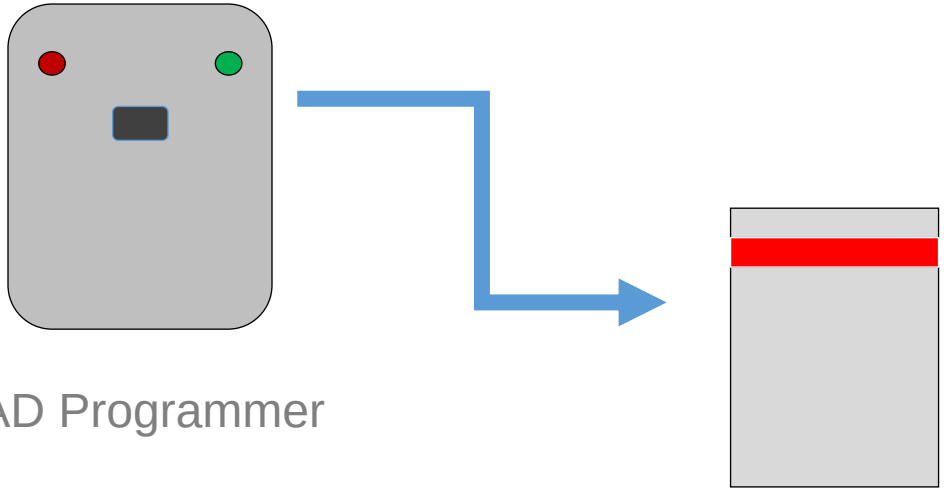
CAD Programmer

CAD

Double Position Sensor

Programming done…
Sensor ready to work !

Programming of CAD Double Position Sensor with CAD Programmer



CAD Programmer

CAD

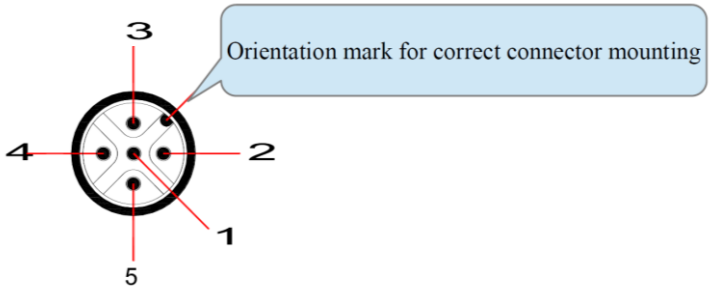
Double Position Sensor

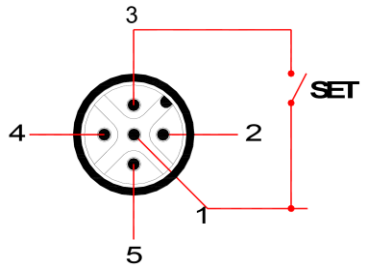
Programming done…
Sensor ready to work !

Programming of CAD Double Position Sensor via PLC

Programming of detecting points of the sensor without the CAD programmer, can be done connecting a Normally Open button on contacts between the SET and Vin via PLC.

CONNECTIONS					
Number	**Name**	**Type**	**Operation**	**V DC [V]**	**Max I [mA]**
1	Vin	supply	positive Power	10 ÷ 30	40
2	GND	supply	negative Power		
3	SET	input	Limits setting		28
4	POS1	Output	Output signal: valve closed	40	80
5	POS2	output	Output signal: valve open	40	80





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Same procedure has to be followed

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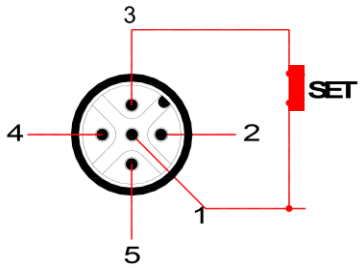

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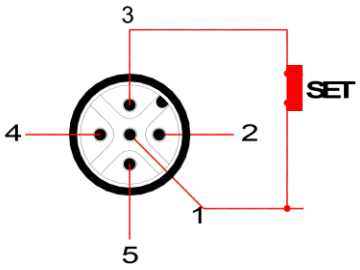

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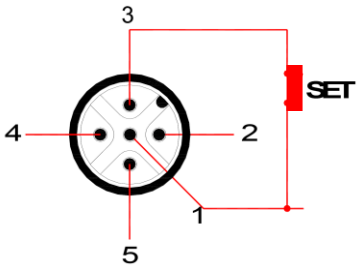

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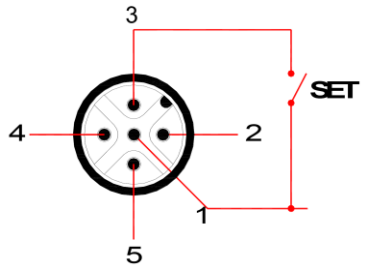


PTFE hand knob
Stainless steel manual actuator
Anti-seizing coated stainless steel
Stainless steel programmable double position sensor
Stainless steel pneumatic actuator
Anti-seizing coated stainless steel
CAD
CLEAN & ASEPTIC DESIGN

CAD

CLEAN & ASEPTIC DESIGN

ONE IDEA
MANY SOLUTIONS