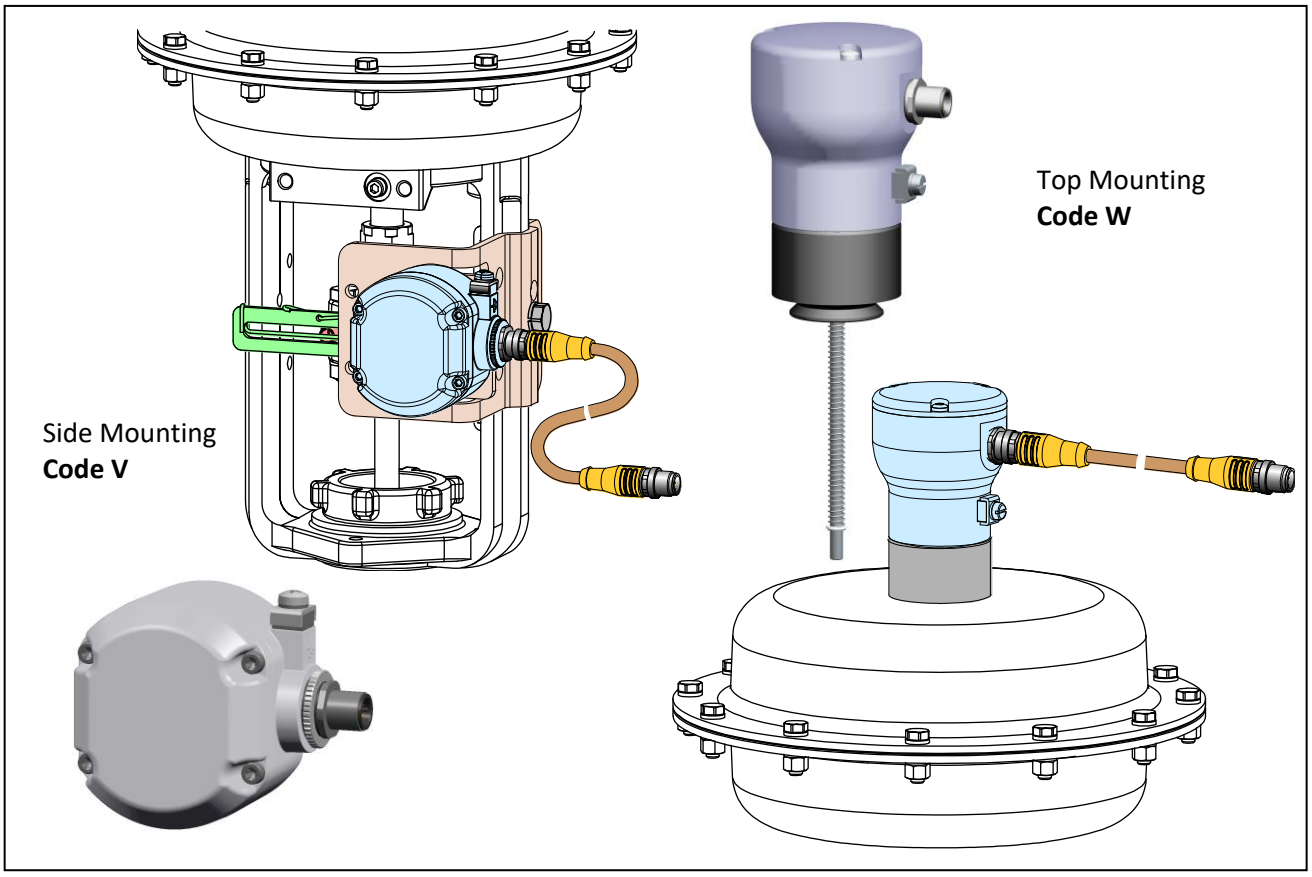
RMU998 Remote Mounting Unit for Intelligent Positioners SRD998, and SRD991 Code V for Side Mounting, Code W for Top Mounting



The RMU998 Remote Mounting Unit is the solution for valve/actuator applications in harsh environments, such as operating the valve at very low or very high temperatures and high vibration.
The position of the actuator is determined by an external potentiometer in the RMU998 and transmitted to the positioner, which is mounted in a protected environment.

FEATURES

- Robust Plastic Conductive Potentiometer
- Versions for Side or Top Mounting to actuator
- Housing in Aluminum
- Ambient Temperature –40°C to +85°C
- Electrical Certification Ex ia, Intrinsic safety
- Ingress Protection IP66

SPECIFICATIONS Code V

Principle ..... 5 kOhm, 3 wires Plastic Conductive Potentiometer

Housing material ..... Aluminum

Rotation angle ..... up to 95° (±47.5°)
up to 120° (± 60°) on request

Connector ..... M12, with 5 pins

Cable length ..... 3 m (10 m)

For use with..... SRD998, SRD991

Ambient Temperature ..... –40°C to +85°C,
other ranges see Model Code

Ingress Protection IP66

Vibration resistance..... <0.25% for 10 to 500 Hz up to 4g acc. IEC 60068-2-6 (2007)

Electrical Certification

The electrical certification of the RMU998 is linked with the certificate of the SRD998 or SRD991. If you connect the RMU998 with another positioner than SRD998 or SRD991, no certification exists. Then please order the RMU998 unit with Electrical Certification ZZ = without certification.

Electromagnetic Compatibility EMC

Operating conditions ..... industrial environment

Immunity according to
- EN 61326 ..... fulfilled
- IEC 61326..... fulfilled
- EN 61000-6-2 ..... fulfilled

Emission according to
- EN 61326
- Class A and Class B ..... fulfilled
- EN 61000-6-4 ..... fulfilled
- EN 55011 Group 1,
- Class A and Class B ..... fulfilled

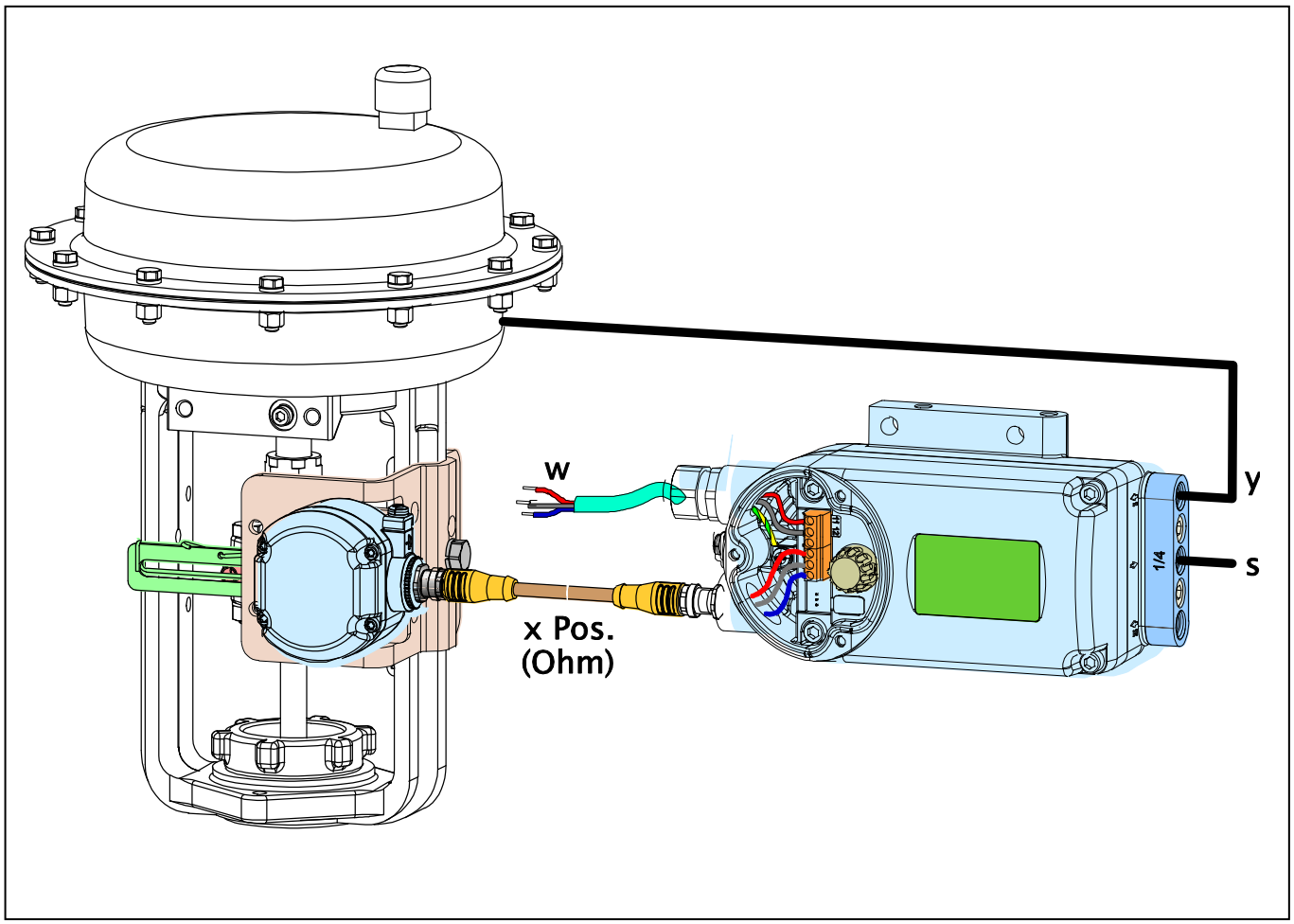
NAMUR recommendation
- EMV NE21 ..... fulfilled

FUNCTION

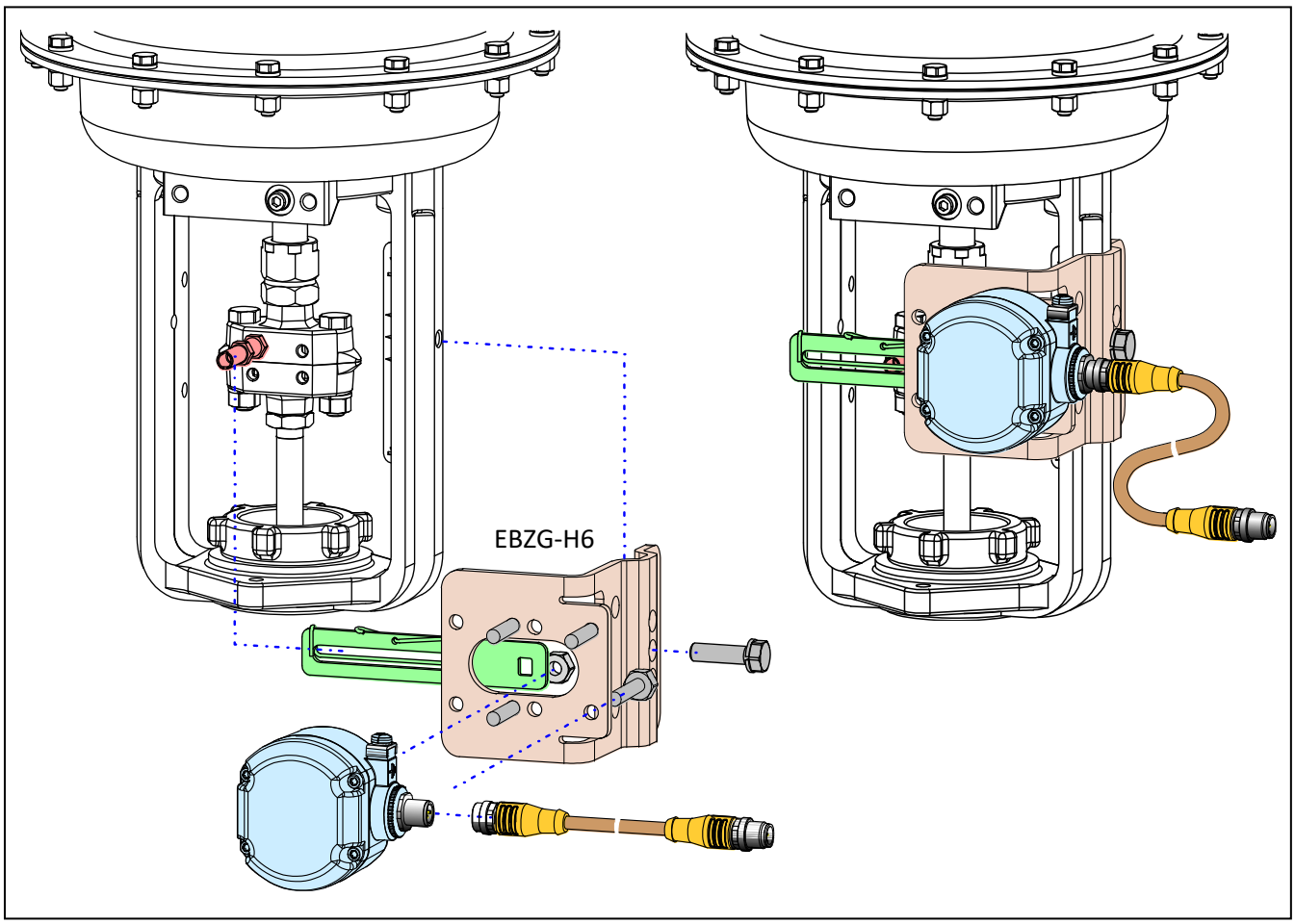
The external Potentiometer RMU998 is side mounted to the actuator and electrical connected to the positioner.

So, the positioner can be mounted in a less stressed environment (recommended at very high or low temperature and vibration influence).

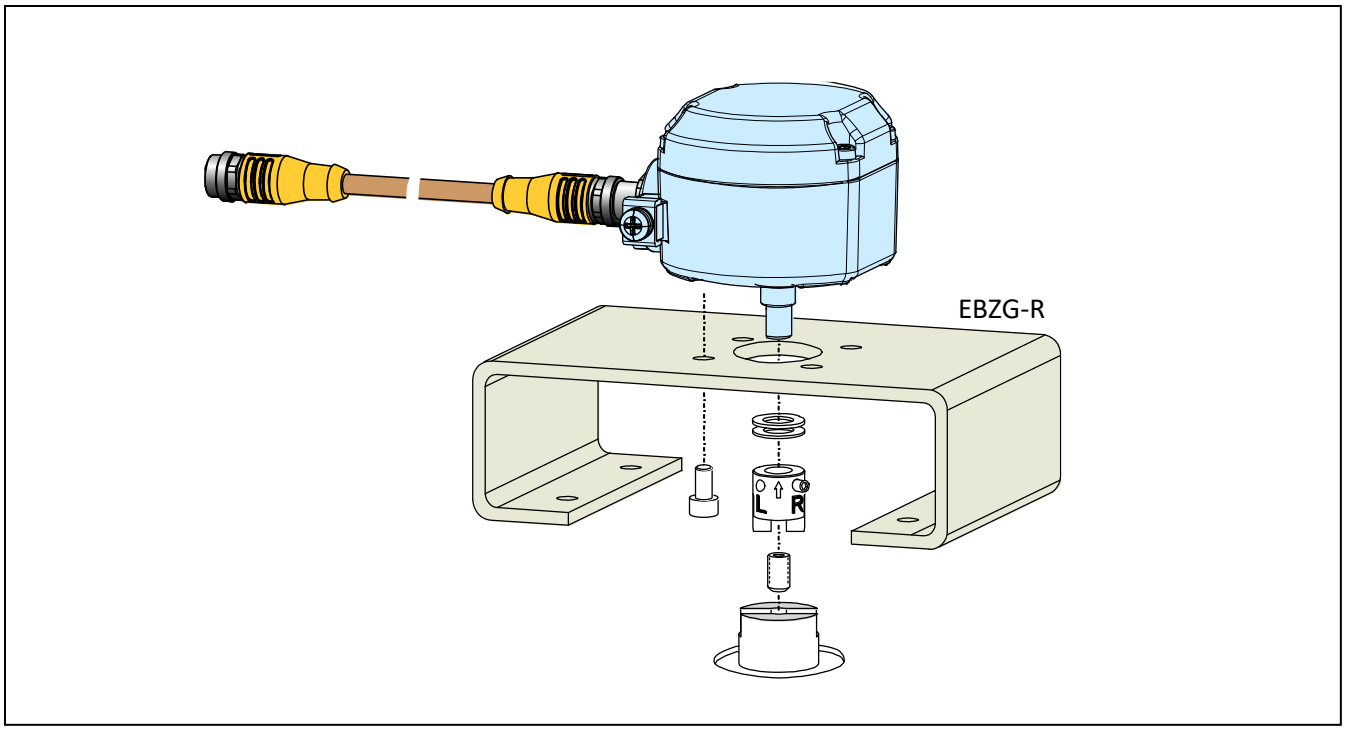
DESIGN, CODE V



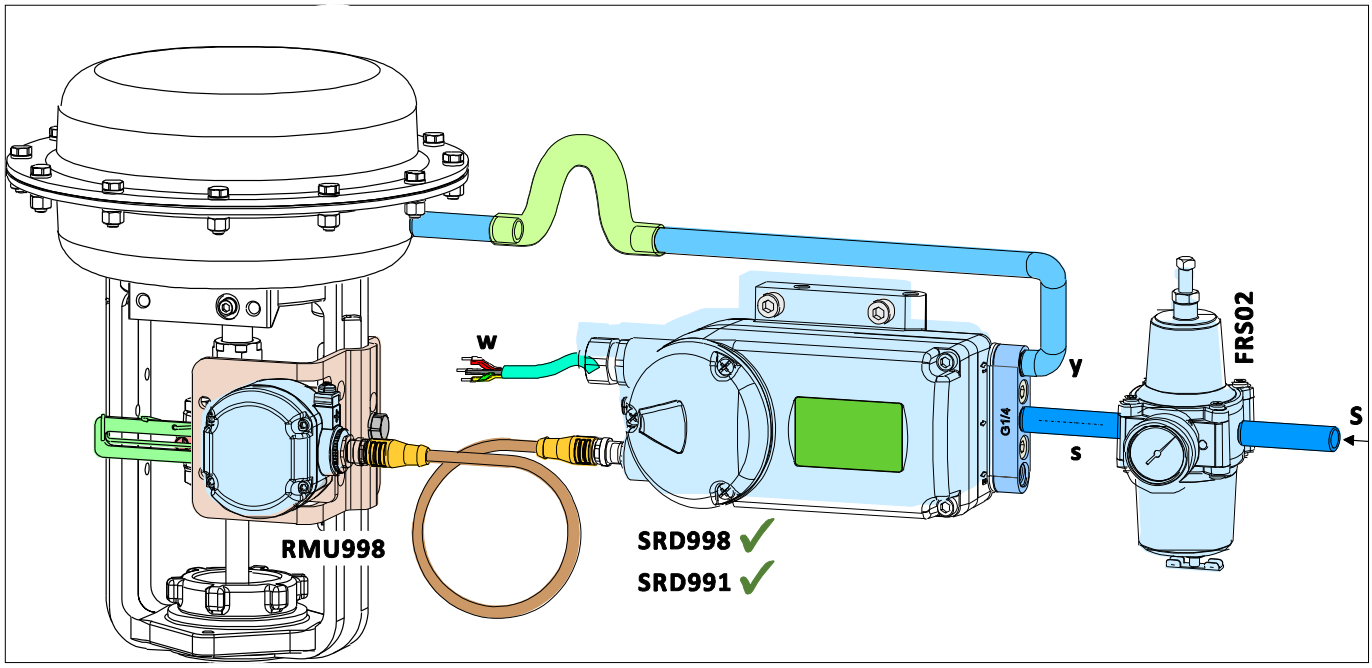
MOUNTING TO LINEAR ACTUATORS



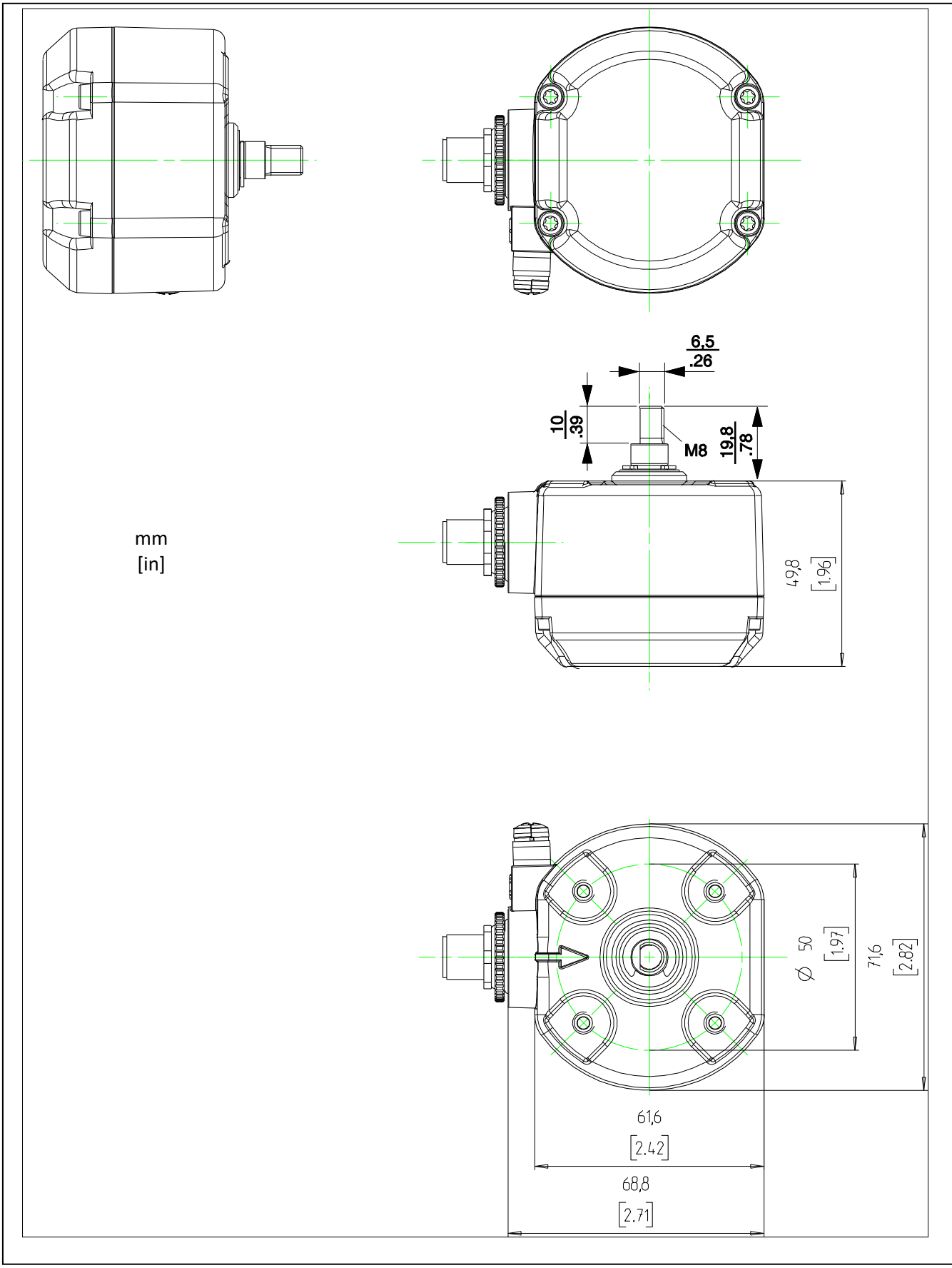
MOUNTING TO ROTARY ACTUATORS



TYPICAL APPLICATION, CODE V



DIMENSIONS FOR SIDE MOUNTING, CODE V



SPECIFICATIONS Code W

Principle .....5 kOhm, 3 wires Plastic Conductive Potentiometer

Housing material .....Aluminum

Stroke .....up to 50 mm (2 inch)[1]

Connector .....M12, with 5 pins

Cable length .....3 m (10 m)

For use with.....SRD998, SRD991

Ambient Temperature .....–40°C to +85°C, other ranges see Model Code

Ingress Protection IP66

Vibration resistance.....<0.25% for 10 to 440 Hz up to 4g acc. IEC 60068-2-6 (2007)

Electrical Certification

The electrical certification of the RMU998 is linked with the certificate of the SRD998 or SRD991. If you connect the RMU998 with another positioner than SRD998 or SRD991, no certification exists. Then please order the RMU998 unit with Electrical Certification ZZ = without certification.

Electromagnetic Compatibility EMC

Operating conditions .....industrial environment

Immunity according to
- EN 61326 ..... fulfilled
- IEC 61326..... fulfilled
- EN 61000-6-2 ..... fulfilled

Emission according to
- EN 61326
- Class A and Class B ..... fulfilled
- EN 61000-6-4 ..... fulfilled
- EN 55011 Group 1,
- Class A and Class B ..... fulfilled

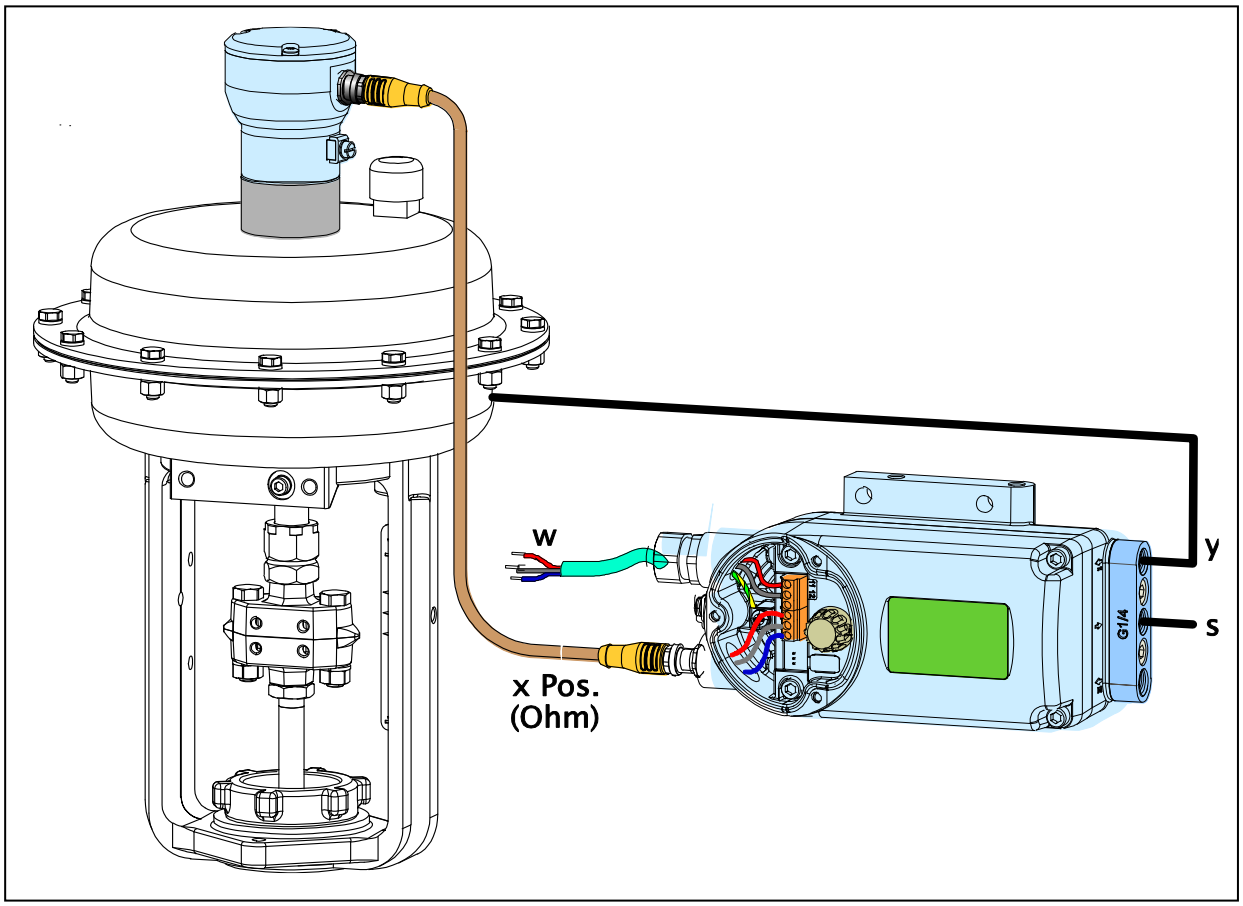
NAMUR recommendation
- EMV NE21 ..... fulfilled

FUNCTION

The external Potentiometer RMU998 is top mounted to the actuator and electrical connected to the positioner.

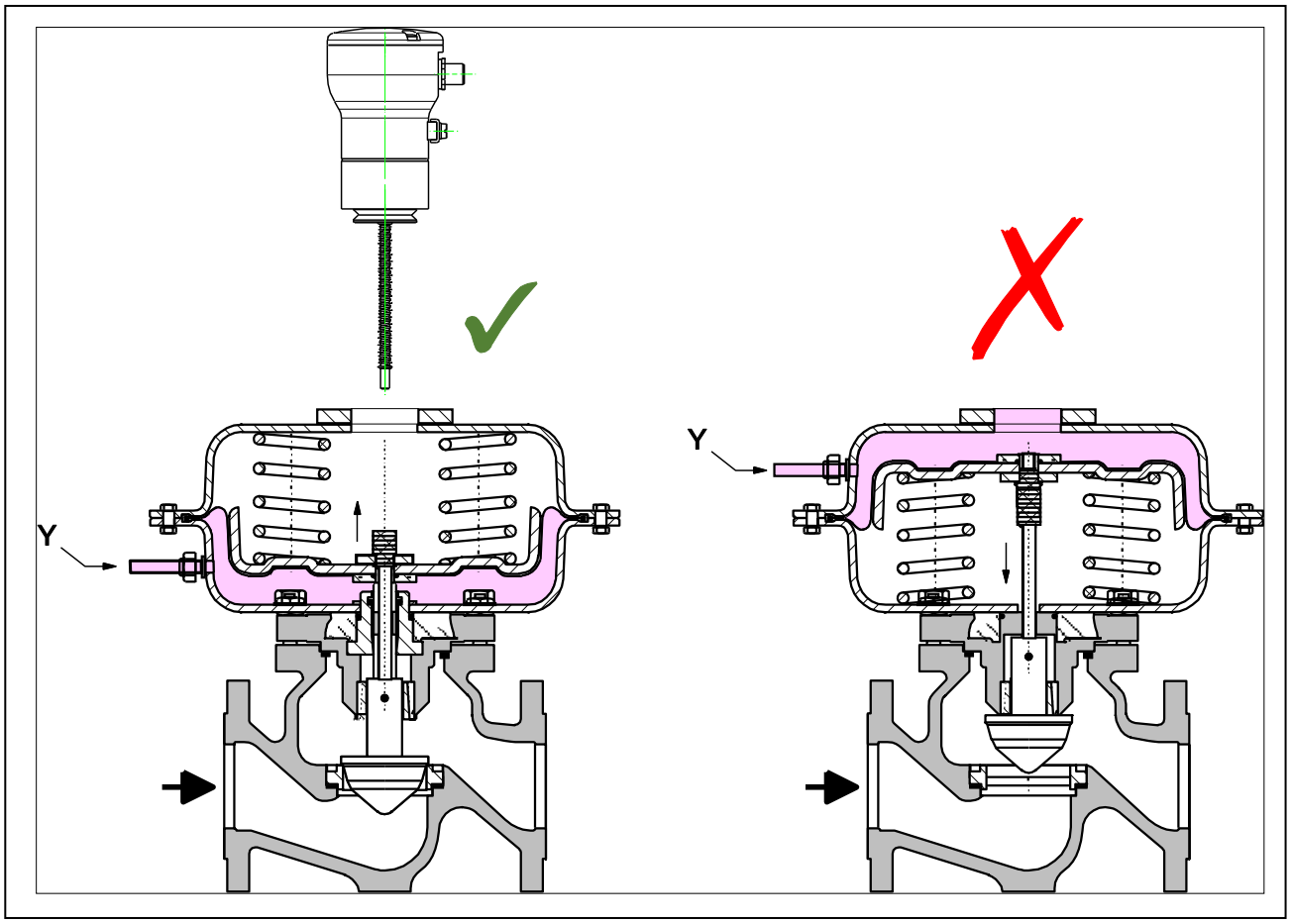
So, the positioner can be mounted in a less stressed environment (recommended at very high or low temperature and vibration influence).

DESIGN, CODE W

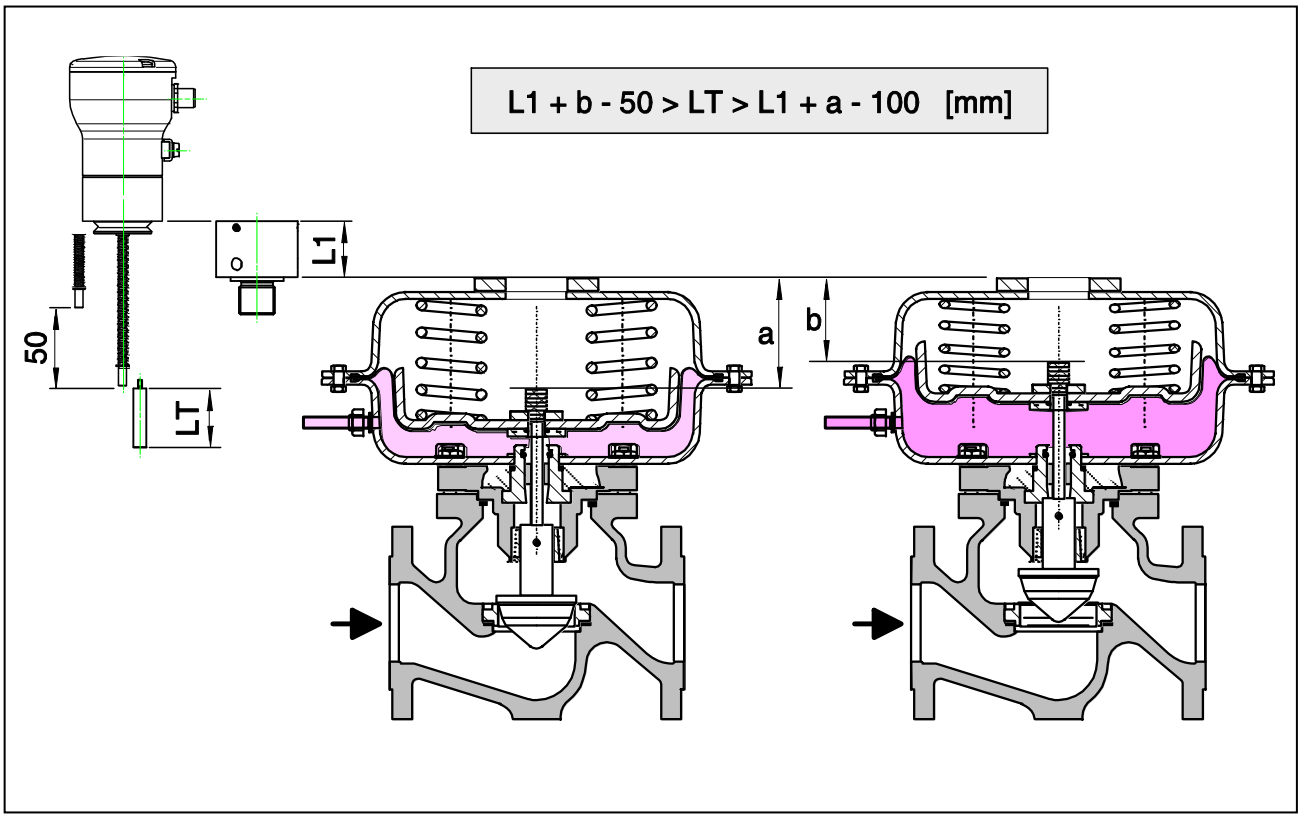


[1] The physical stroke of the sensor is ~53mm. For proper functioning we recommend using only the inner 50mm.

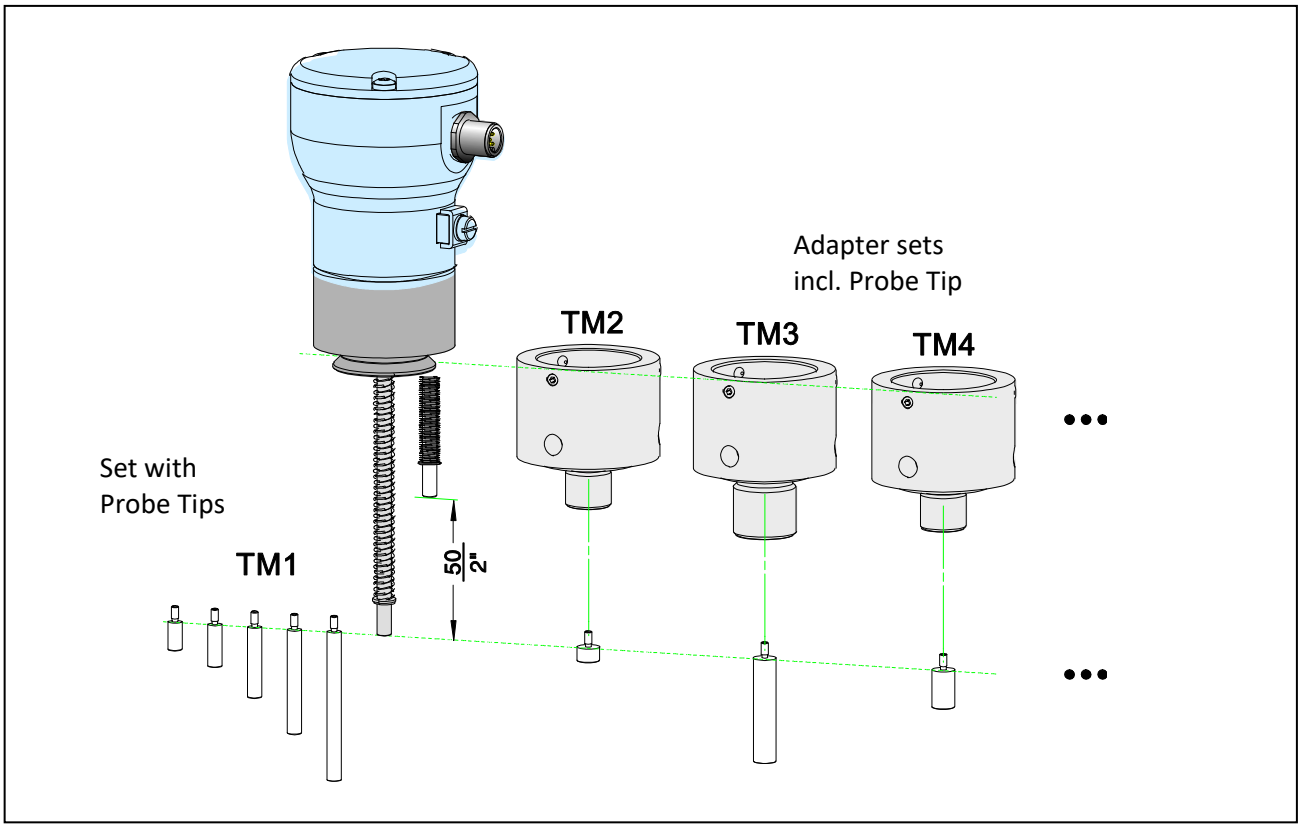
USABILITY The upper chamber must be depressurized.



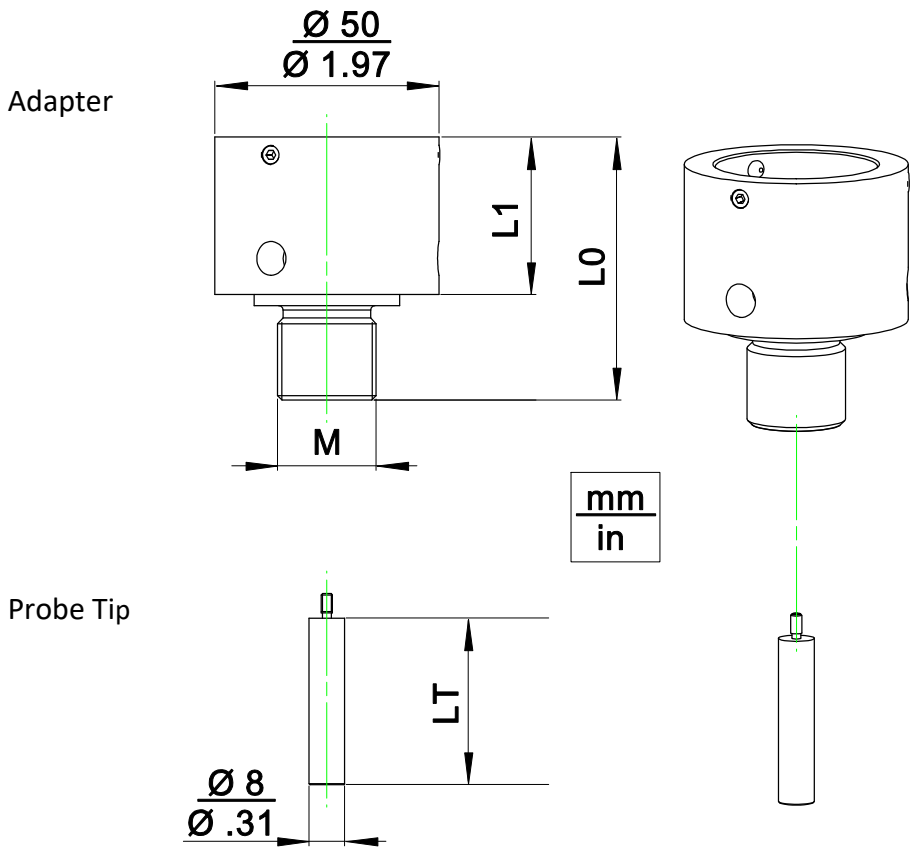
SELECTING ADAPTERS AND PROBE TIPS



MOUNTING COMBINATIONS



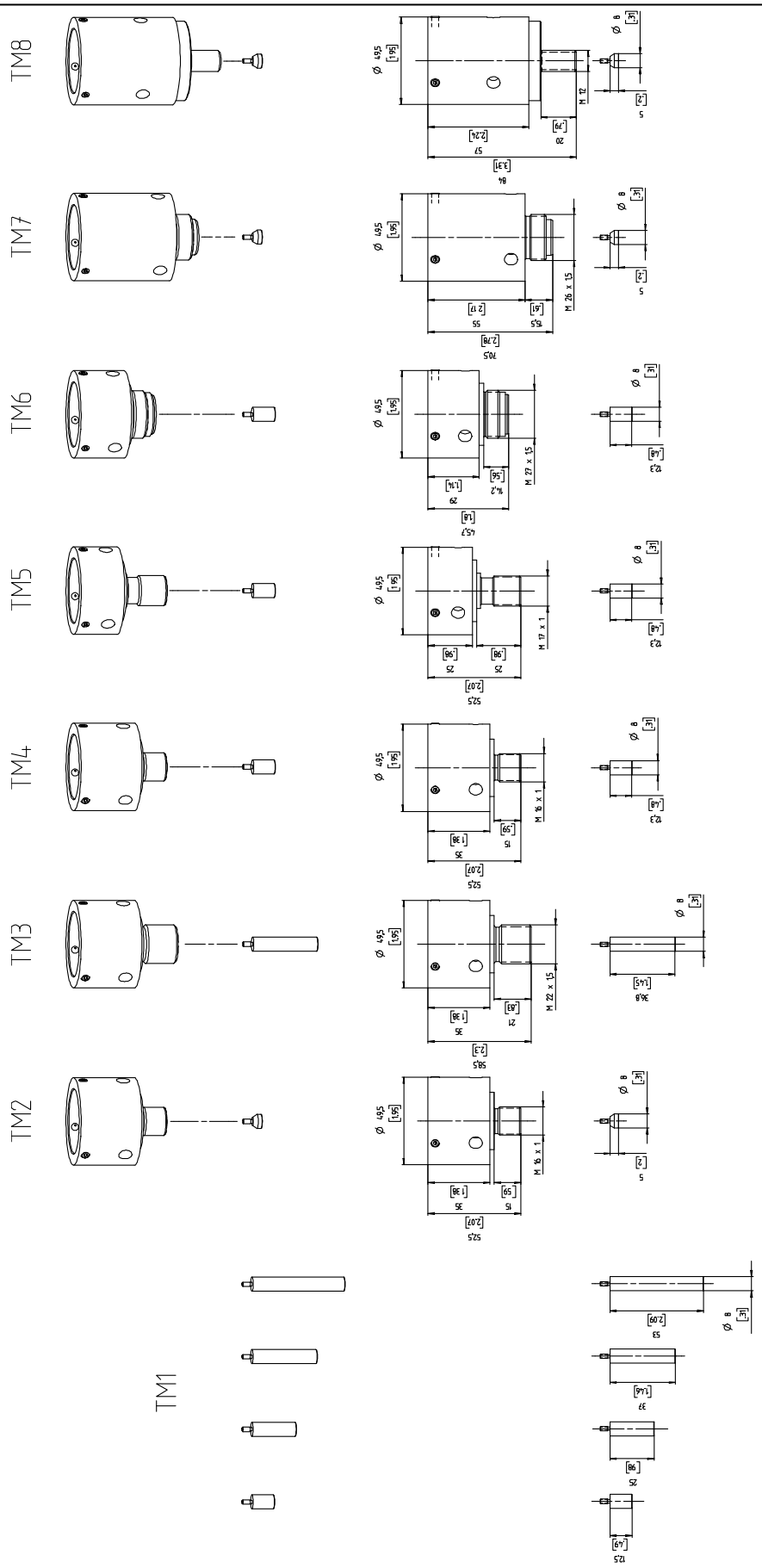
MAIN DIMENSIONS AND APPLICATIONS Adapters and Probe Tips



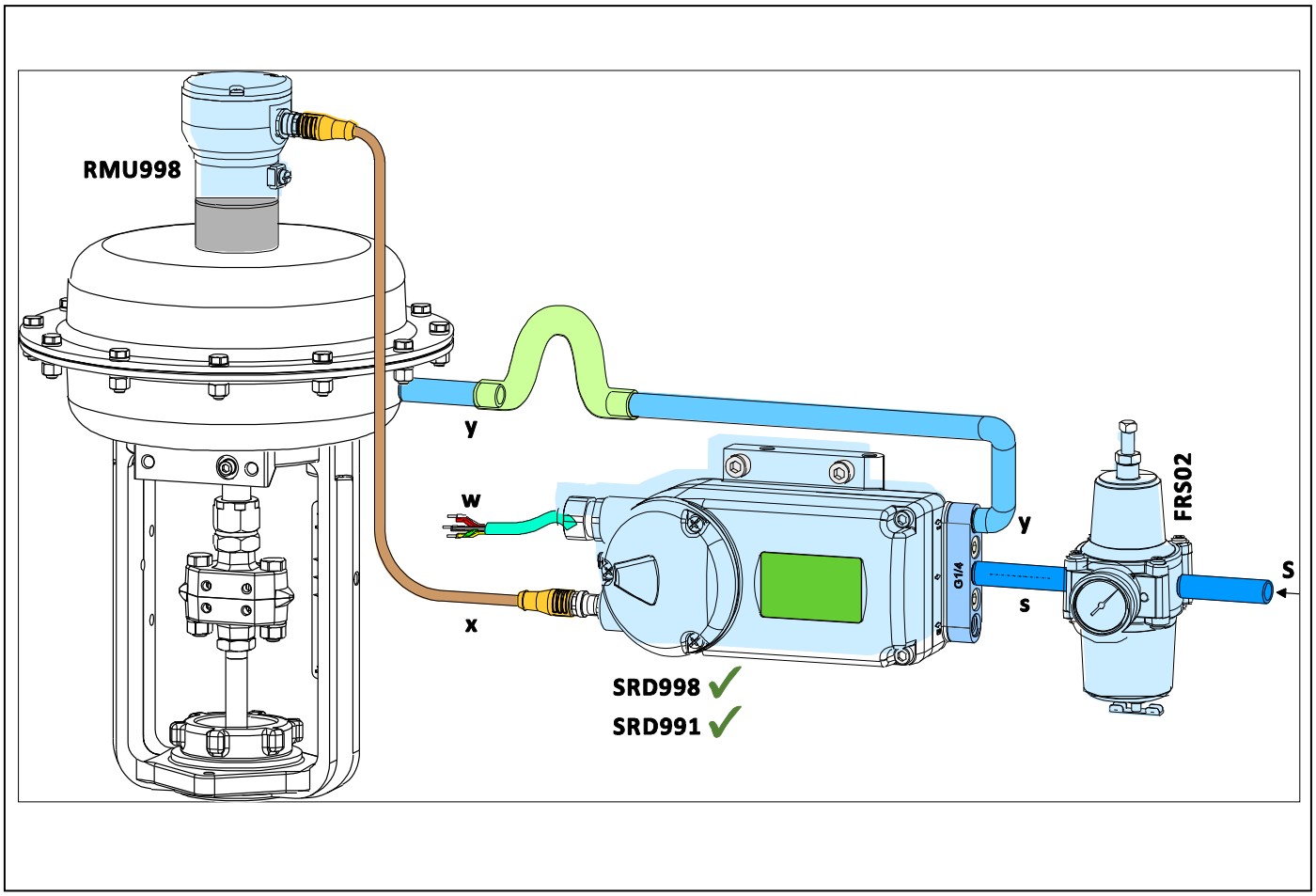
Assembly Name EBZG-... designed for ...	Adapter			Probe Tips
	Thread M	L0 mm / inch	L1 mm / inch	LT mm / inch
TM1 GFischer	(TM1 includes a set of Probe Tips but no Adapter)			12.5 / 0.49 25 / 0.98 37 / 1.46 53 / 2.09
TM2 GEMÜ-1	M16x1	52.5 / 2.07	35 / 1.38	5 / 0.2
TM3 GEMÜ-2	M22x1.5	58.5 / 2.3	35 / 1.38	37 / 1.46
TM4 FIP	M16x1	52.5 / 2.07	35 / 1.38	12.5 / 0.49
TM5 ASCO	M17x1	52.5 / 2.07	25 / 0.98	12.5 / 0.49
TM6 OMAL	M27x1.5	45.7 / 1.8	29 / 1.14	12.5 / 0.49
TM7 Bürkert	M26x1.5	70.5 / 2.77	55 / 2.16	5 / 0.2
TM8 Asahi	M12	84 / 3.3	64.5 / 2.54	5 / 0.2

Further applications on request

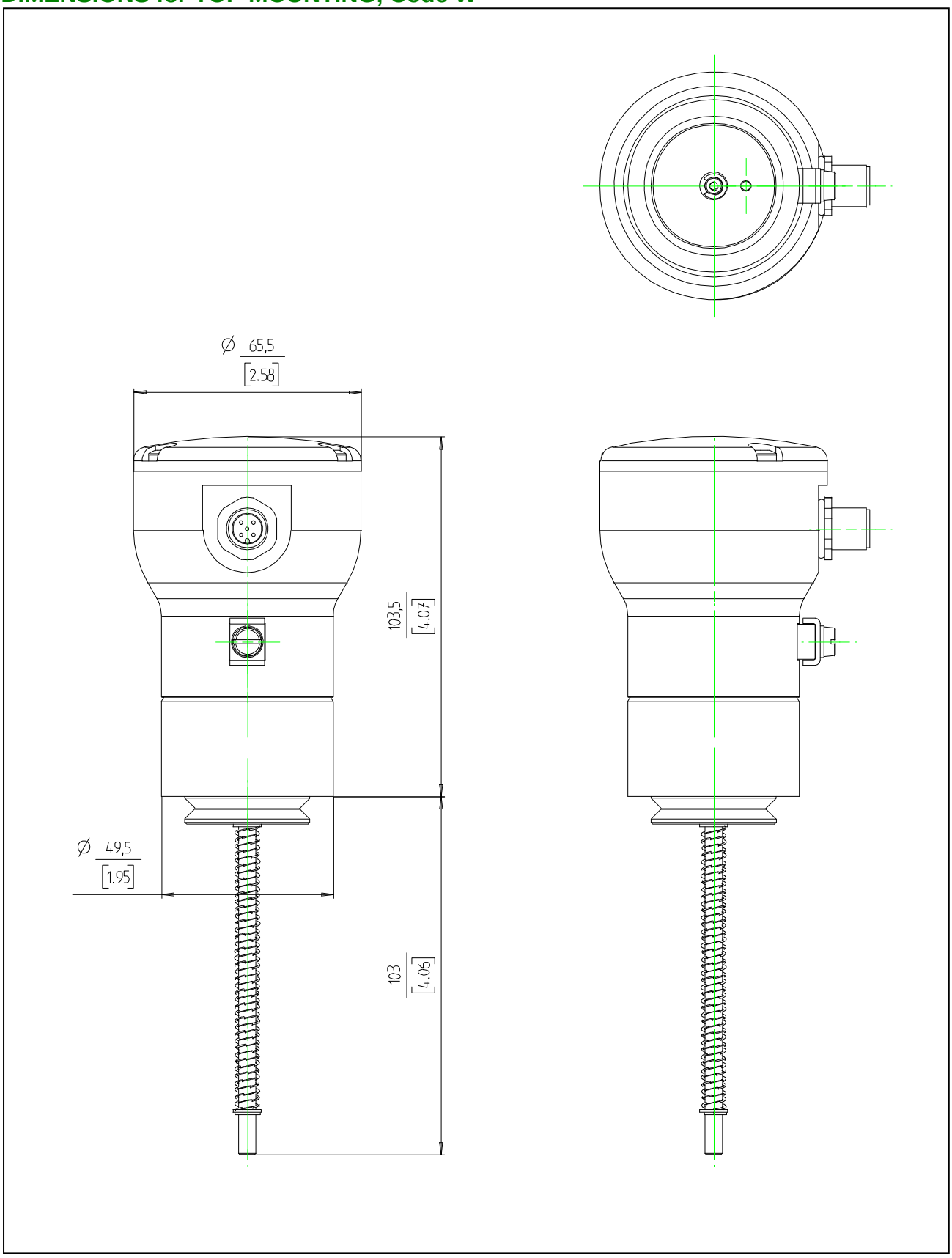
DIMENSIONS Adapters and Probe Tips



TYPICAL APPLICATION, CODE W



DIMENSIONS for TOP MOUNTING, Code W



MODEL CODES RMU998

160419

Remote Mounting Unit for Intelligent Positioner SRD99x RMU998								
Remote Unit Type								
Side mounting remote potentiometer unit	(a)	- V						
Top mounting remote potentiometer unit	(a)	- W						
Housing								
Aluminum housing	(a)		A					
Cable Length								
with 3 m cable length	(a)			1				
with 10 m cable length	(a)			2				
Temperature range								
for –55 to +80°C ambient Temperature	(a)				L			
for –40 to +85°C ambient Temperature	(a)				S			
for –20 to +120°C ambient Temperature	(a)				H			
Electrical connection								
Fixed wiring with M20 plastic cable gland	(a)					7		
with M12 cable gland connector	(a)					8		
Electrical certification								
without certification as simple component (not paired)	(a)						ZZ	
without certification, paired with SRD998	(a)						Z1	
without certification, paired with SRD991	(a)						Z2	
ATEX/IECEx Linked with SRD998 Certificate	(a)						A1	
ATEX/IECEx Linked with SRD991 Certificate	(a)						A2	
NEPSI Linked with SRD998 Certificate	(a)						N1	
NEPSI Linked with SRD991 Certificate	(a)						N2	
INMETRO Linked with SRD998 Certificate	(a)						B1	
INMETRO Linked with SRD991 Certificate	(a)						B2	
FM Linked with SRD998 Certificate	(a)						F1	
FM Linked with SRD991 Certificate	(a)						F2	
CSA Linked with SRD998 Certificate	(a)						C1	
CSA Linked with SRD991 Certificate	(a)						C2	
EAC Linked with SRD998 Certificate	(a)						G1	
EAC Linked with SRD991 Certificate	(a)						G2	
KOSHA Linked with SRD998 Certificate	(a)						K1	
KOSHA Linked with SRD991 Certificate	(a)						K2	
TIIS Linked with SRD998 Certificate	(a)						J1	
TIIS Linked with SRD991 Certificate	(a)						J2	
CNS Linked with SRD998 Certificate	(a)						T1	
CNS Linked with SRD991 Certificate	(a)						T2	
Options								
Approved for SIL2 / SIL3 application	(a)							-Q
Stainless Steel Label fixed with Wire	(a)							-L
Remote Unit with ECEP	(a)							-X

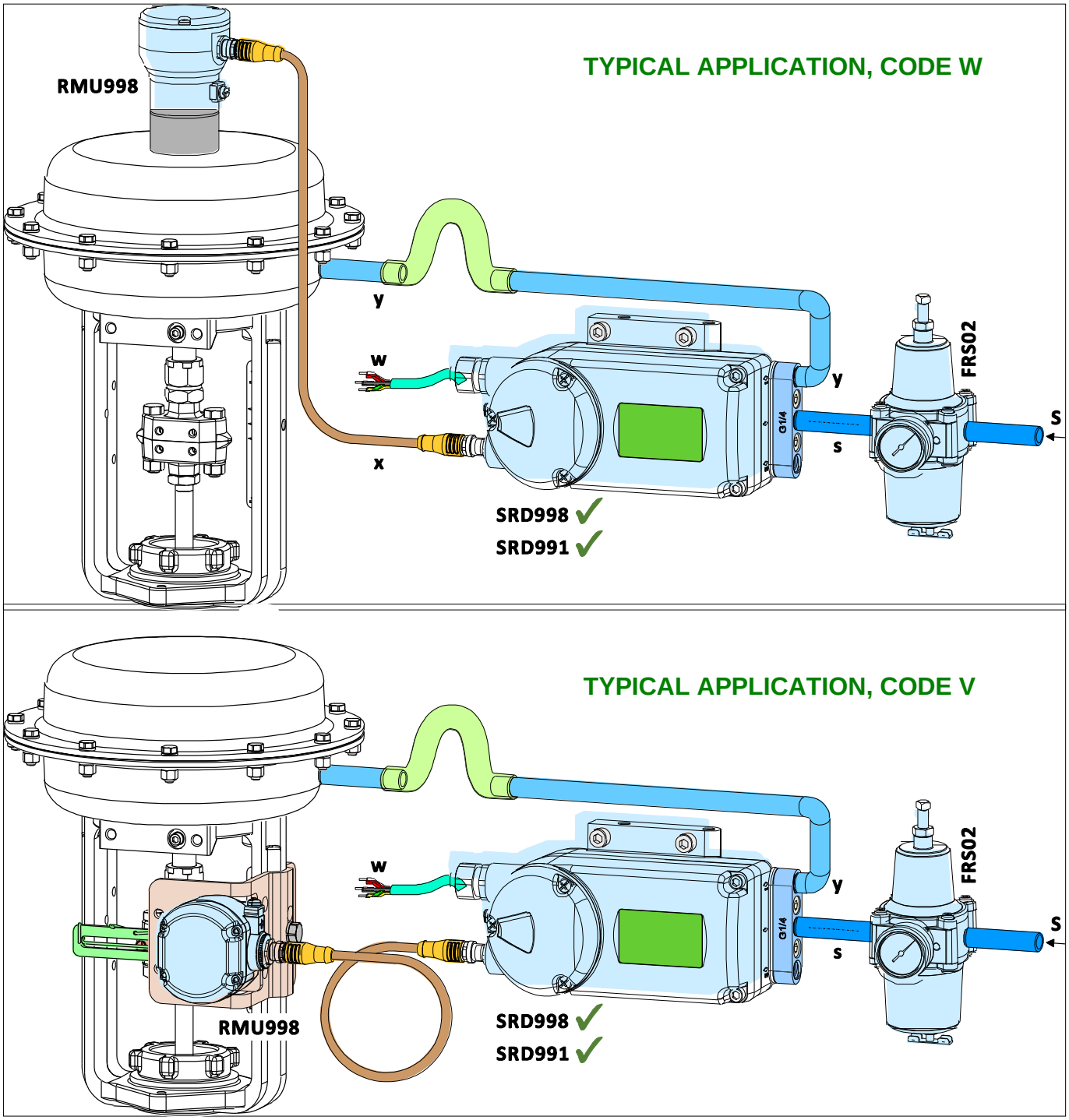
a) Not released

Ordering information

It is recommended to buy an SRD998 or SRD991 with the corresponding RMU998 linked together.

If the RMU998 is ordered with an SRD998 or SRD991 together, the RMU and SRD are calibrated (paired) in the factory to allow optimal performance.

In other cases, when the units are ordered separately, the combination has not the highest possible performance.


TYPICAL APPLICATION, CODE W
RMU998
y
w
x
y
s
G1/4
FRS02
S
SRD998
SRD991
TYPICAL APPLICATION, CODE V
w
y
s
G1/4
FRS02
S
RMU998
SRD998
SRD991

Schneider Electric Systems USA, Inc.
38 Neponset Avenue
Foxboro, MA 02035
United States of America
http://www.schneider-electric.com

Global Customer Support
Inside U.S.: 1-866-746-6477
Outside U.S.:1-508-549-2424
https://pasupport.schneider-electric.com

DOKT 559 110 022
FD-PSS-PO-19-EN
0819