



OFFICIAL LISTING

NSF certifies that the products appearing on this Listing conform to the requirements of NSF/ANSI/CAN 61 - Drinking Water System Components - Health Effects

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GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8
74653 Ingelfingen
Germany
49 7940 1230

Facility: Ingelfingen, Germany

Mechanical Devices

Trade Designation	Size	Water Contact Temp	Water Contact Material
Valves [G]			
GEMÜ 610-v-D-w-1-x-y-z [1] [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ 613-u-D-v-1-w-x-y-z [1] [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ 617-v-D-w-1-x-0 [1] [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ 630-v-D-w-1-x-1-1/N [1] [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ R647-u-D-v-1-w-x-y [1] [2]	15 mm - 50 mm	D. HOT	MLTPL
GEMÜ R649-u-D-v-1-w-x-y [1] [2]	15 mm - 65 mm	D. HOT	MLTPL
GEMÜ R677-u-D-v-1-w-x-y-z [1] [2]	15 mm - 100 mm	D. HOT	MLTPL
GEMÜ R690-u-D-v-1-w-x-y-D-z [1] [2]	15 mm - 100 mm	D. HOT	MLTPL
GEMÜ R693-u-D-v-1-w-x-y [1] [2]	15 mm - 50 mm	D. HOT	MLTPL
Victoria / GEMÜ R480 [3]	50 mm - 300 mm	D. HOT	MLTPL
Victoria / GEMÜ R481 [3]	50 mm - 300 mm	D. HOT	MLTPL
Victoria / GEMÜ R487 [3]	50 mm - 300 mm	D. HOT	MLTPL
Victoria / GEMÜ R488 [3]	50 mm - 300 mm	D. HOT	MLTPL

[1] 610-v-D-w-1-x-y-z, 617-v-D-w-1-x-0, and 630-v-D-w-1-x-1-1/N model numbers indicates:

v - Nominal Size:

12 & 15mm

D - Body Configuration, 2/2-way body (D)

w - Connection:

Threaded sockets DIN ISO 228 - 1

Solvent cement sockets DIN - 2

Union ends with DIN insert (socket) - 7

Union ends with inch insert - BS (socket) - 33

1 - Valve body material, PVC-U grey (1)

x - Diaphragm material, EPDM:

EPDM ICEM6001 - 17

EPDM ICEM7007 - 19

y - Control Function:

Normally closed (NC) - 1 (only option for 630 model)

Normally open (NO) - 2

Double acting (DA) - 3

Manually operated - 0 (only available for the 617 model)

z - Actuator size/version:

Diaphragm size 10 (control air connector at 90° to flow direction) - 1/N

Diaphragm size 10 (Control air connector in flow direction) - 1RN

Piston ø 54 - 1/N (only available for the 630 model)

(This is not an option for the 617 model)

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF.



R690-u-D-v-1-w-x-y-D-z and R647-u-D-v-1-w-x-y model numbers indicate:

- u - Nominal Size:
 - 15, 20, 25, 32, 40, 50, 65, 80, & 100mm
- D - Body Configuration, 2/2-way body (D)
- v - Connection:
 - Spigots DIN for socket solvent cementing/welding - 0
 - Flanges EN 1092 / PN10 / form B - 4
 - Union ends with DIN insert (socket) - 7
 - Union ends with Rp threaded socket inserts - 7R
 - Spigots - inch for socket solvent cementing/welding - 30
 - Union ends with inch insert - BS (socket) - 33
 - Flanges ANSI Class 125/150 RF - 39
 - Union ends with inch ASTM insert (socket) - 3M
 - Union ends with JIS insert (socket) - 3T
- l - Valve body material, PVC-U grey (l)
- w - Diaphragm material, EPDM:
 - EPDM ICEM6001 - 17
 - EPDM ICEM7007 - 19
- x - Control Function:
 - Normally closed (NC) - 1 (only available in the R690 model)
 - Normally open (NO) - 2 (only available in the R690 model)
 - Double acting (DA) - 3 (only available in the R690 model)
 - Closed by control pressure, opened by operating pressure - 5 (only available in the R647 model)
- y - Actuator size:
 - Diaphragm size 20 (DN 15, 20, 25) - E or ED
 - Diaphragm size 25 (DN 32) - F or FD
 - Diaphragm size 40 (DN 40, 50) - H or HD
 - Diaphragm size 50 (DN 65) - K (only available in the R690 model)
 - Diaphragm size 80 (DN 80) - M (only available in the R690 model)
 - Diaphragm size 100 (DN 100) - N (only available in the R690 model)
- D - Actuator version (base), for body configuration D (only available in the R690 model)
- z - Spring set (only available in the R690 model):
 - Low - L
 - Medium - M
 - Standard - N

613-u-D-v-1-w-x-y-z model number indicates:

- u - Nominal Size:
 - 12 & 15mm
- D - Body Configuration, 2/2-way body (D)
- v - Connection:
 - Threaded sockets DIN ISO 228 - 1
 - Solvent cement sockets DIN - 2
 - Union ends with DIN insert (socket) - 7
 - Union ends with inch insert - BS (socket) - 33
- l - Valve body material, PVC-U grey (l)
- w - Diaphragm material, EPDM:
 - EPDM ICEM6001 - 17
 - EPDM ICEM7007 - 19
- x - Supply voltage/mains frequency:
 - 24 V 50/60 Hz - C4
 - 120 V 50/60 Hz - G4
 - 230 V 50/60 Hz - L4
- y - Functional module:
 - OPEN / CLOSE control with additional end position feedback (signal voltage - supply voltage) - AE
 - OPEN / CLOSE control with potentiometer output - AP
 - Control of valve position, actual value detection internal, set value external, 0 - 10 V - E1
 - Control of valve position, actual value detection internal, set value external, 0/4 - 20 mA - E2
 - Control of process variables, actual value external, 0/4 - 20 mA, set value external,

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- 0/4 - 20 mA - E3
- z - Actuator version:
Operating time 17 sec. - A0
Operating time 45 sec. - A1
- [2] R677-u-D-v-l-w-x-y-z model number indicates:
- u - Nominal Size:
15, 20, 25, 32, 40, 50, 65, 80, & 100mm
 - D - Body Configuration, 2/2-way body (D)
 - v - Connection:
Spigots DIN for socket solvent cementing/welding - 0
Flanges EN 1092 / PN10 / form B - 4
Union ends with DIN insert (socket) - 7
Union ends with Rp threaded socket inserts - 7R
Spigots - inch for socket solvent cementing/welding - 30
Union ends with inch insert - BS (socket) - 33
Flanges ANSI Class 125/150 RF - 39
Union ends with inch ASTM insert (socket) - 3M
Union ends with JIS insert (socket) - 3T
 - l - Valve body material, PVC-U grey (l)
 - w - Diaphragm material, EPDM:
EPDM ICEM6001 - 17
EPDM ICEM7007 - 19
 - x - Control Function:
Manually operated - 0
Manually operated (lockable handwheel) - L
 - y - Bonnet Size:
Diaphragm size 20 (DN 15, 20, 25) - ED
Diaphragm size 25 (DN 32) - FD
Diaphragm size 40 (DN 40, 50) - HD
Diaphragm size 50 (DN 65) - KD
Diaphragm size 80 (DN 80) - MD*
Diaphragm size 100 (DN 100) - ND*
* Code Z is standard
 - z - Options:
Threaded connection for position indicator - Z
- R693-u-D-v-l-w-x-y and R649-u-D-v-l-w-x-y model number indicates:
- u - Nominal Size:
15, 20, 25, 32, 40, 50, 65, 80, & 100mm
 - D - Body Configuration, 2/2-way body (D)
 - v - Connection:
Spigots DIN for socket solvent cementing/welding - 0
Flanges EN 1092 / PN10 / form B - 4
Union ends with DIN insert (socket) - 7
Union ends with Rp threaded socket inserts - 7R
Spigots - inch for socket solvent cementing/welding - 30
Union ends with inch insert - BS (socket) - 33
Flanges ANSI Class 125/150 RF - 39
Union ends with inch ASTM insert (socket) - 3M
Union ends with JIS insert (socket) - 3T
 - l - Valve body material, PVC-U grey (l)
 - w - Diaphragm material, EPDM:
EPDM ICEM6001 - 17
EPDM ICEM7007 - 19
 - x - Voltage/Frequency:
24V 50/60 Hz \pm 10% - C4 (only available for the R693 model)
120V 50/60 Hz \pm 10% - G4 (only available for the R693 model)
230V 50/60 Hz \pm 10% - L4 (only available for the R693 model)
24 V DC - C1 (only available for the R649 model)
 - y - Functional module:
OPEN / CLOSE control with additional end position feedback - AE (only available for the R693 model)
OPEN / CLOSE control with potentiometer output - AP (only available for the R693 model)
OPEN / CLOSE, process and positioner - L0 (only available for the R649 model)

[3] Certification is for the EPDM liner only and 1.4408 and 1.4469 disc only.

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[G] Product is Certified to NSF/ANSI 372 and conforms with the lead content requirements for "lead free" plumbing as defined by California, Vermont, Maryland, and Louisiana state laws and the U.S. Safe Drinking Water Act.

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