



## 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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### Mechanical Devices

Trade Designation	Size	Water Contact Temp	Water Contact Material
<b>Valves</b> <sup>[G]</sup>			
GEMÜ 610-v-D-w-1-x-y-z <sup>[1]</sup> [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ 613-u-D-v-1-w-x-y-z <sup>[1]</sup> [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ 617-v-D-w-1-x-0 <sup>[1]</sup> [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ 630-v-D-w-1-x-1-1/N <sup>[1]</sup> [2]	12 mm - 15 mm	D. HOT	MLTPL
GEMÜ R647-u-D-v-1-w-x-y <sup>[1]</sup> [2]	15 mm - 50 mm	D. HOT	MLTPL
GEMÜ R649-u-D-v-1-w-x-y <sup>[1]</sup> [2]	15 mm - 65 mm	D. HOT	MLTPL
GEMÜ R677-u-D-v-1-w-x-y-z <sup>[1]</sup> [2]	15 mm - 100 mm	D. HOT	MLTPL
GEMÜ R690-u-D-v-1-w-x-y-D-z <sup>[1]</sup> [2]	15 mm - 100 mm	D. HOT	MLTPL
GEMÜ R693-u-D-v-1-w-x-y <sup>[1]</sup> [2]	15 mm - 50 mm	D. HOT	MLTPL
Victoria / GEMÜ R480 <sup>[3]</sup>	25 mm - 600 mm	D. HOT	MLTPL
Victoria / GEMÜ R481 <sup>[3]</sup>	25 mm - 600 mm	D. HOT	MLTPL
Victoria / GEMÜ R487 <sup>[3]</sup>	25 mm - 600 mm	D. HOT	MLTPL
Victoria / GEMÜ R488 <sup>[3]</sup>	25 mm - 600 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, 0/4 - 20 mA - E3
- z - Actuator version:
  - Operating time 17 sec. - A0
  - Operating time 45 sec. - A1

[2] R677-u-D-v-1-w-x-y-z model number indicates:

- u - Nominal Size:
  - 15, 20, 25, 32, 40, 50, 65, 80, & 100mm

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- 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 IECM6001 - 17
  - EPDM IECM7007 - 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 IECM6001 - 17
  - EPDM IECM7007 - 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.

[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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