

# Documentation

***Globe -, Gate - and Needle valves  
- Type MUAS ... , MUAS ... ES -***



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## 1. Direction

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## 2. Corresponding use

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Gate valves will be used to cut off medium flow.

It should only be used clean liquids and gases, on which the material of the valves and the material of the sealings will be resistant. Pollution or using outside the nominal pressure range and/or the nominal temperature range should cause damages on the valves especially on the seals.

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## 3. Operation

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Gate valves should be actuated by turning a handwheel. By non totally opening / closing of the valve you will be able to control the media flow.

During the operation of the valve take care that there won't be insert any objects or limbs into the armature. Heavy injuries or damages will be the consequence. If it is necessary you have to install a protective device.

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## 4. Mounting / Disassembly

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- Observe the flow direction which is specified on the valve body.
- Remove all transport safety devices (e.g. plugs or caps). Observe that there won't be any parts of the package or other pollution in the armature.
- Before mounting the solenoid valve clean up the pipes. Pollution will reduce the safety and the duration of life of the valve. If necessary mount a Y-strainer in front of the valve.
- Avoid strains on the body by non align pipes.

### 4.1. Mounting of the valve with threaded connection

- Before lay on sealing compounds, check the hardly screwing of the pipes into the valve body.
  - Lay on the correct sealing compounds on the pipes end. By using PTFE-ribbon or hemp sealings observe the screw direction. Don't use sealing compounds which are not prescribed for your employment.
  - Screw the pipes into the connection ends of valve. Don't use the handwheel as a lever.
  - Strike up the pipes with pressure after that time the manufacturer of the sealing compounds pretends for harden it.
  - Check the tightness of all connections.
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## 5. Maintenance

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In periodical turns the controlling of the function and the tightness should happen:

- Check the tightness of the gland packing
- resp. readjusting of the gland packing

In case of a defect of the valve make a contact to the supplier.

If you determinate that there is a damage to the valve switch off the device/machine/plant!

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# Documentation **Globe -, Gate - and Needle valves**

## 6. Physical and chemical properties

### 6.1. Brass gate valve - Type MUAS ...

Female/female threads

Handle in steel

Body in brass

Minimum and maximum working temperatures: 0°C, 120°C in absence of steam.

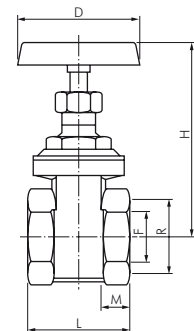
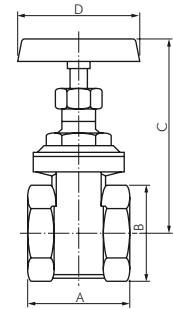
Threads: ISO228 (equivalent to DIN259 and BS2779).

#### 6.1.1. MUAS 38 - MUAS 40

Type	A	B	C	D	working pressure	
					Kg/cm <sup>3</sup> bar	psi
MUAS 38	33	25	67	45	10	145
MUAS 12	43	30	68	45	20	290
MUAS 34	46	36	78	45	20	290
MUAS 10	52	44	93	50	20	290
MUAS 114	58	54	108	55	20	290
MUAS 112	52	59	104	60	20	290
MUAS 20	57	74	128	70	20	290
MUAS 212	65	91	175	100	20	290
MUAS 30	75	104	200	100	20	290
MUAS 40	84	137	235	120	20	290

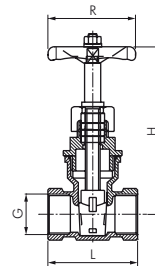
#### 6.1.2. MUAS 50 und MUAS 60

Type	R	L	H	D	F	M
MUAS 50	G 5"	107	300	140	117	20
MUAS 60	G 6"	113	360	170	143	21



Typ	G	DN	L	H	R	PN
MUAS 38	G 3/8"	13	33	67	45	10 bar
MUAS 12	G 1/2"	15	43	68	45	20 bar
MUAS 34	G 3/4"	19	46	78	45	20 bar
MUAS 10	G 1"	24	52	93	50	20 bar
MUAS 114	G 1 1/4"	32	58	108	55	20 bar
MUAS 112	G 1 1/2"	37,5	59	125	60	20 bar
MUAS 20	G 2"	48	67	143	70	20 bar
MUAS 212*	G 2 1/2"	58	73	175	100	20 bar
MUAS 30*	G 3"	72	84	205	100	20 bar
MUAS 40*	G 4"	91	98	235	120	20 bar
MUAS 50*	G 5"	117	107	300	140	10 bar
MUAS 60*	G 6"	143	113	360	170	10 bar

\* nur für Flüssigkeiten



# Documentation Globe -, Gate - and Needle valves

## 6.2. Type MUAS ... ES

**Port Bore:** Full Bore

**End:** BSPT, ISO-228 Thread

**Material:** S/S; EN10213-4:1.4408; ASTM A351-CF8M

**Pressure:** See Below

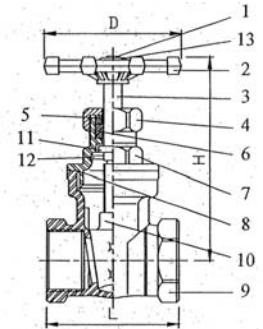
**Testing:** According to API-598 (EN12266-1,2)

**Temp.:** -20°C to 200°C (-4°F to 392°F)

NO.	Part	Material
1	Stem Nut	S/S 304
2	Handwheel	Ductile Iron
3	Stem	S/S 316
4	Gland Nut	CF8M/1.4408
5	Gland	S/S 304
6	Packing	PTFE
7	Bonnet	CF8M/1.4408
8	Gasket	PTFE
9	Body	CF8M/1.4408
10	Disc	CF8M/1.4408
11	Washer	S/S 304
12	Snap Ring	S/S 304
13	Spin Washer	S/S 304

Size	L	H	D	WT (KG)
G 1/2"	57	98	70	0,52
G 3/4"	61	104	70	0,63
G 1"	67	115	76,5	0,81
G 1 1/4"	76	127,5	76,5	1,18
G 1 1/2"	87	172	103,5	2,00
G 2"	95	189	121	2,82
G 2 1/2"	116	260	121	4,60
G 3"	131	295	121	7,00

6.2.2. Bezeichnungen und Abmaße



Typ	G	DN	L	H	R	PN
MUAS 12 ES	G 1/2"	16	57	101,0	62,0	16 bar
MUAS 34 ES	G 3/4"	20	61	108,0	62,0	16 bar
MUAS 10 ES	G 1"	25	67	118,0	74,0	16 bar
MUAS 114 ES	G 1 1/4"	32	76	129,0	74,0	16 bar
MUAS 112 ES	G 1 1/2"	40	87	172,0	103,5	16 bar
MUAS 20 ES	G 2"	50	95	189,0	121,0	16 bar
MUAS 212 ES	G 2 1/2"	62	116	260,0	121,0	16 bar
MUAS 30 ES*	G 3"	76	131	295,0	121,0	16 bar

\* nur für Flüssigkeiten

Ersatzhandrad
MUAS 12 ES RAD
MUAS 34 ES RAD
MUAS 10 ES RAD
MUAS 114 ES RAD
MUAS 112 ES RAD
MUAS 20 ES RAD
MUAS 212 ES RAD
MUAS 30 ES RAD

