# MGZ / MBZ / MB / WA

Screwed plug valves / Instrumentation

thread size from 1/4" up to 2"



# **Design Features**

### **Design Characteristics**

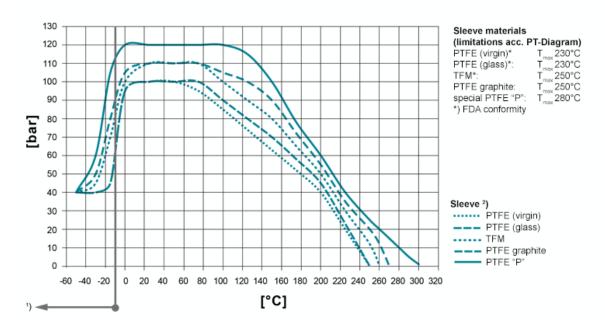
- available with female and male threads
- free of cavities
- maintenance free self lubricating
- vacuum tight
- fugitive emmission resp. clean air act certified (TA Luft 2002 approval)
- Directive 2014/68/EU
- FDA conformity

### Standard connections:

- tapered Whitworth pipe thread DIN 2999
- Whitworth pipe thread DIN ISO 228
- NPT pipe thread ANSI B 1.20.1
- BSP British standard pipe thread
- Ermeto EO progressive ring screwing
- Swagelok and Gyrolok tube fitting

### **PT-Diagram**

#### General Pressure-Temperature-Diagram



Operating temperatures < -30°C and > 220 °C have to be checked and approved by AZ according to the operating conditions.

Besides the P/T value of the sleeve the limitations of the valve bodies also have to be considered. Please refer to the EN 12516-1 resp. ASME B16.34 in order to choose a proper pressure rating (PN/class). The shown values refer to austenitic stainless steel 1.4408 (A351 Gr. CF8M).

- 1) For operating temperatures below -10°C low temperature / austenitic steels are required.
- 2) Sleeve: There are different sleeve materials / compounds available.

### **Materials**

# **Materials Type MGZ**

- Stainless Steel 1.4408, ASTM A351 CF8M
- other materials on request

### Materials Type MBZ/MB

• Special Materials Titan, Nickel, Monel, Tantal, Alloy...

### **Materials Type WA**

• Stainless Steel 1.4408, ASTM A351 CF8M

# **Sealing Systems**

Standard sealing for all major applications; Tmax 230°C

### **Type STD**

read more [...]

Firesafe sealing (API 607) with graphite packing for additional stem sealing; Tmax 230°C

### Type FS

read more [...]

Chemical sealing to prevent fugitive emission of aggressive and toxic media with PTFE packing for additional stem sealing;  $T_{\text{max}}$  230°C

# **Type CA**

read more [...]

Firesafe safety sealing (API 607) for fluctuating temperatures

with 3x graphite packing (adjustable) for additional stem sealing; Tmax 280°C

# **Type FSN**

read more [...]

Firesafe safety sealing (API 607) for fluctuating temperatures with 3x graphite packing (live loaded disc springs) for additional

stem sealing; Tmax 280°C

# **Type FSN-SL**

read more [...]

Chemical safety sealing for fluctuating temperatures with 3x PTFE packing (adjustment) for additional stem sealing;

Tmax 230°C

### **Type CASN**

read more [...]

Chemical safety sealing for fluctuation temperatures with 3x PTFE packing (live loaded disc springs) for additional stem sealing; Tmax 230°C

### **Type CASN-SL**

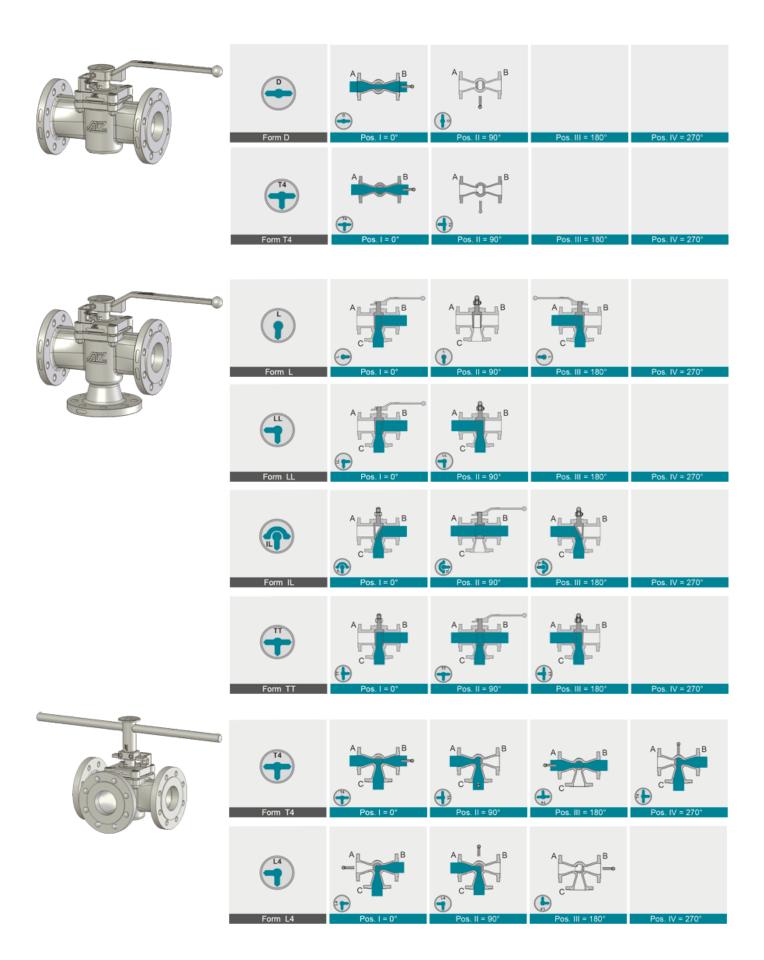
read more [...]

#### **Port Forms**

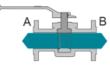


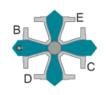
AZ plug valves are fitted with cast, rust proof position indicators.

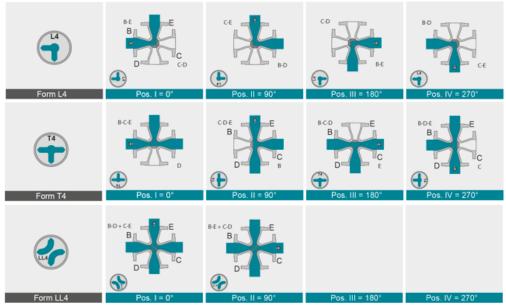
The position indicator is securely welded to the lever to prevent it from working loose.

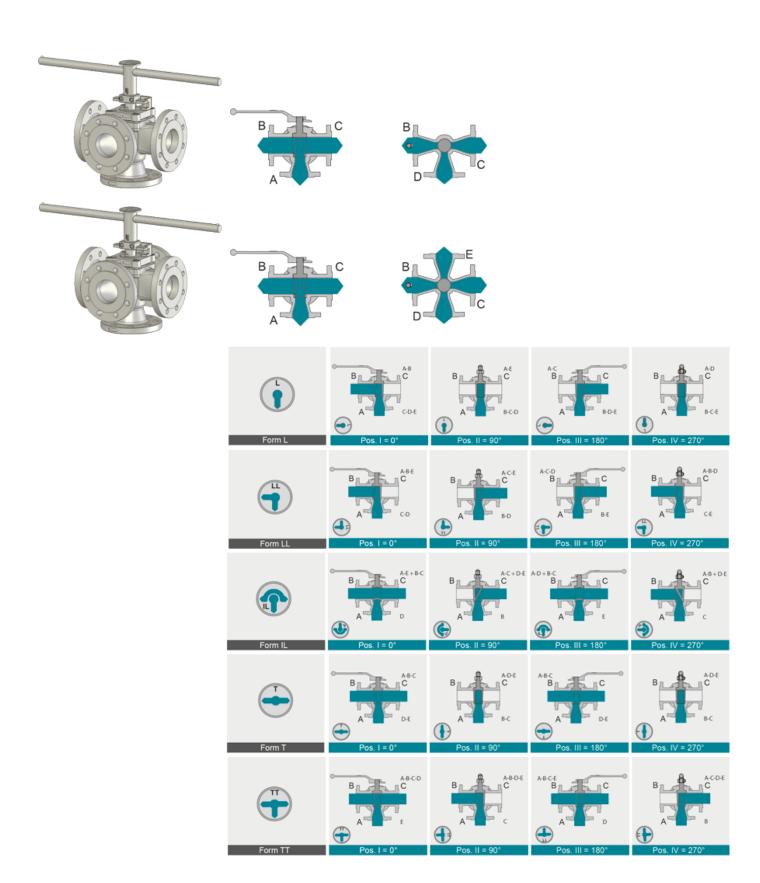






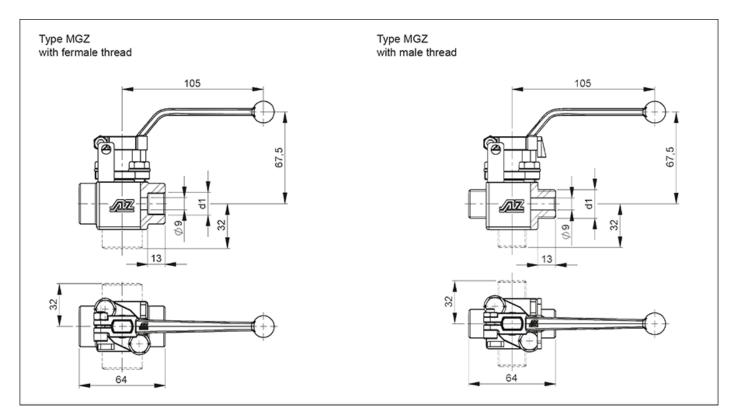




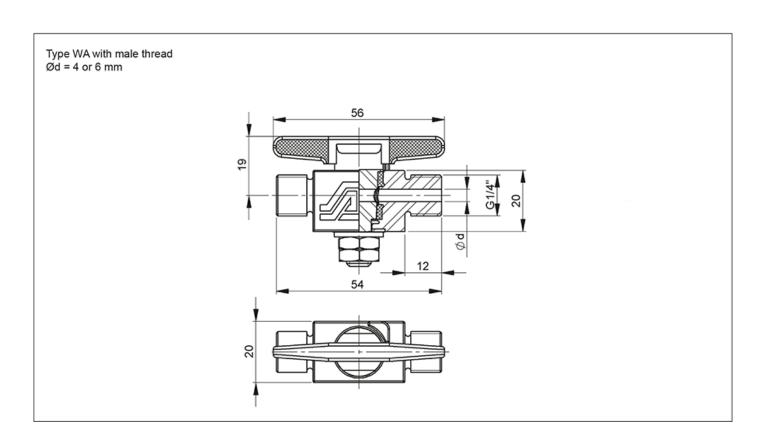


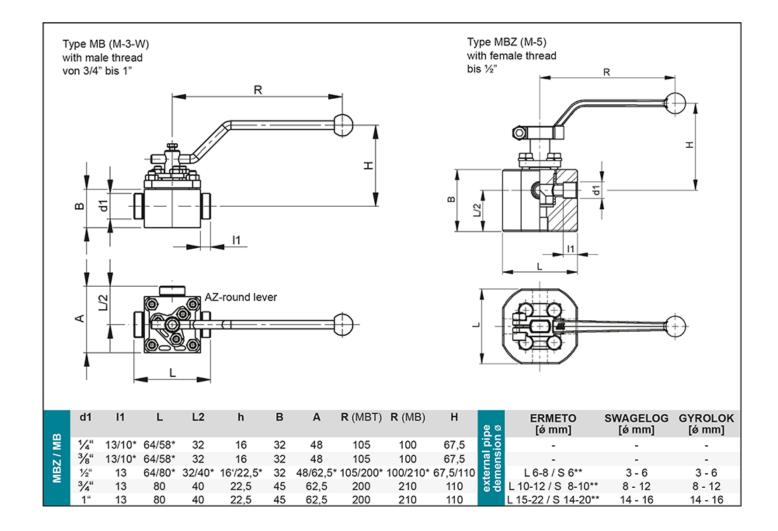
# **Dimensions**

MG/MGZ/MBZ/MB	Connection		MGZ	MBZ/MB	WA
	NPT Pipe thread ANSI B 1.20.1	female male	1/4" - 3/4" 1/4" - 3/4"	1⁄4" - 1" 1⁄4" - 1"	
	Tapered Whitworth Pipe Thread	female	Rp 1/4" - Rp 3/4"	Rp 1/4" - Rp 1"	
	,	male female	R 1/4" - R3/4" G 1/4" - G 3/4"	R ¼" - R¾" G¼" - G 1"	
	Witworth Pipe Thread DIN ISO 228	male	G 1/4" - G 3/4"	G¼" - G 1"	G1⁄4"
	BSP Britisch Standard Pipe Thread	female	R 1/4" - R 3/4"	R¼" - R 1"	
	· ·	male	R ¼" - R ¾" 10-15 mm	R¼" - R 1" 6-22 mm	
	ERMETO EO Progressive Pipe Thread	light **	M16x1,5-M22x1,5)	(M12x1,5-M30x1,5)	
		heavy **	10-14 mm (M18x1,5-M22x1,5)	6-14 mm (M14x1,5–M22x1,5)	
	GYROLOG Tube Fitting	metric pipe **	pipe AD 10-14 mm	pipe AD 3-25 mm	
		ANSI pipe **	pipe AD ¾" –½"	pipe AD 1/15"–1"	
	SWAGELOK Tube Fitting	metric pipe ** ANSI pipe **	pipe AD 10–14 mm pipe AD ¾" –½"	pipe AD 3–25 mm pipe AD 1/15"–1"	

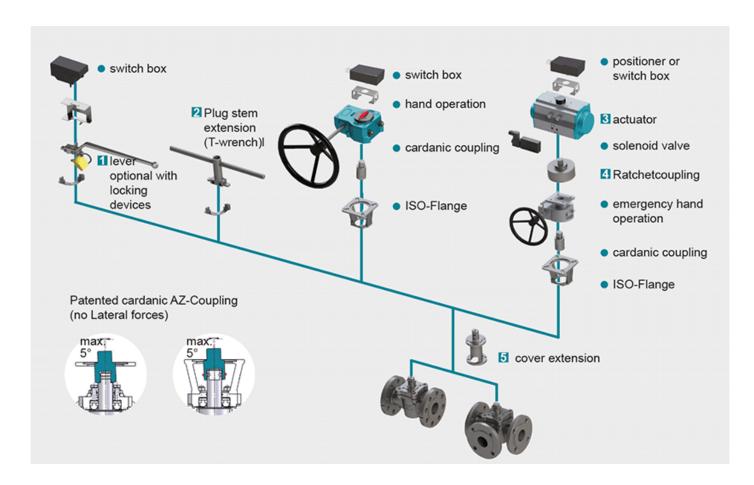


All sizes same dimensions (R1/4" - R 1/2")





### **Actuation**



### 1 Locking Devices

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor. read more [...]

#### 2 Plug stem extension

Solid construction in stainless steel with T-wrench, Standard extension 100 mm or 150 mm, non standard lengths are available on request

read more [...]

#### 3 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211 read more [...]

NEW: Pneumatic actuator AIR GEAR for plug valves with high torque  $\geq$ 150.000 Nm read more [...]

#### 4 Ratched coupling

To usw on multiport valves with standard 90° actuator for bigger switchpositions than 90° read more [...]

#### 5 Cover extension

Solid construction in stainless steel, Standard extension 100 mm or 150 mm high, non standard lengths are available on request . Hexagonal bolts on adjustment ring freely accessible. Note: Don't use with sealing FSN/FSN-SL and CASN/CASN-SL

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