

MGZ / MBZ / MB / WA

Screwed plug valves / Instrumentation thread size from $\frac{1}{4}$ 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

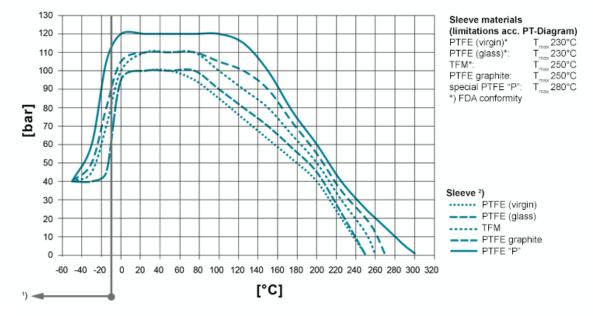
Standard connections:

- 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 safety sealing (API 607) for fluctuating temperatures with 3x graphite packing (adjustable) for additional stem sealing; Tmax 280°C **Type FSN**

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_{max} 230°C

Type CA 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 positon indicator is securely welded to the plug to prevent it from working loose.

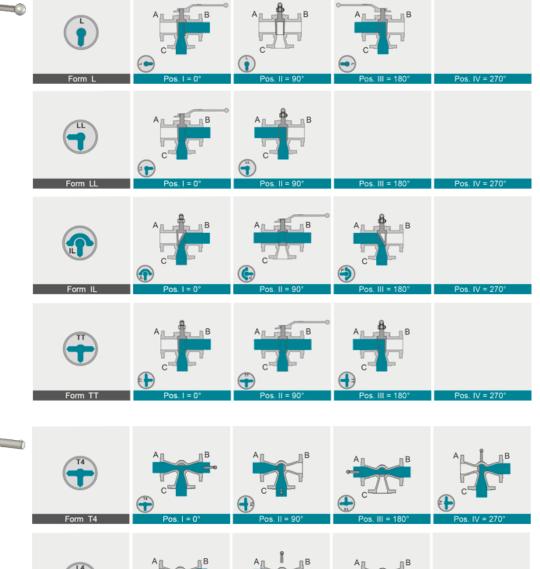


Form D	Pos. I = 0°	Pos. II = 90°	Pos. III = 180°	Pos. IV = 270°
1 4				
Form T4	Pos. I = 0°	Pos. II = 90°	Pos. III = 180°	Pos. IV = 270°



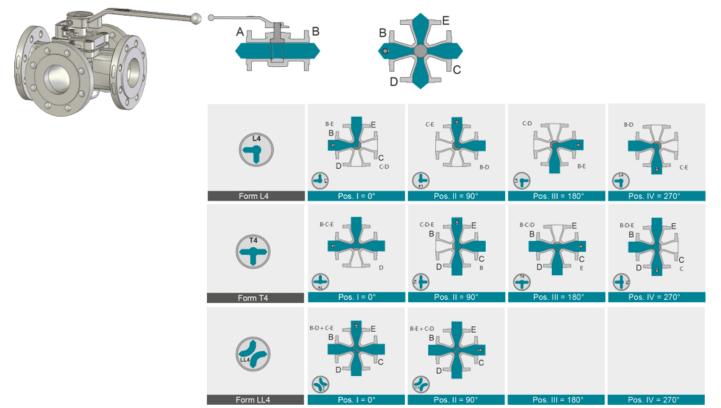
= 270



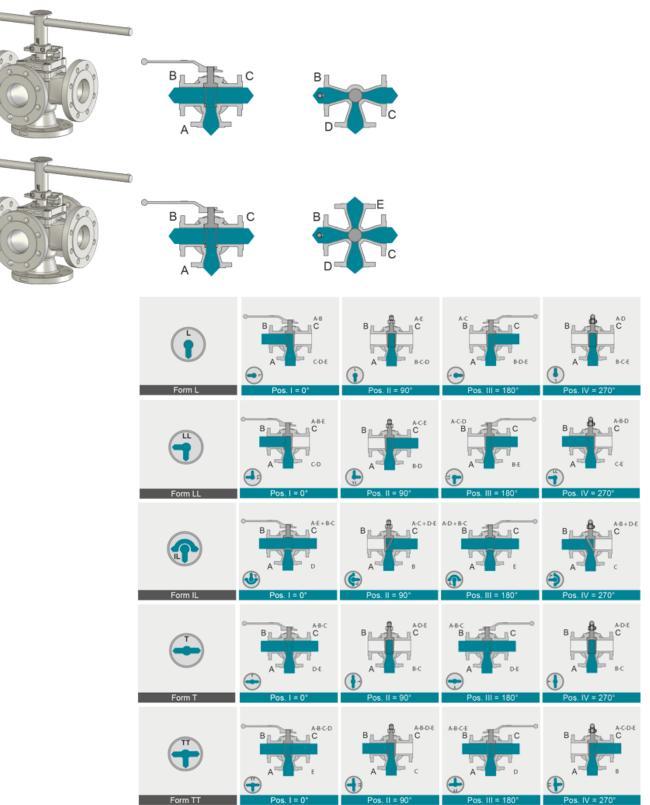


Form L4







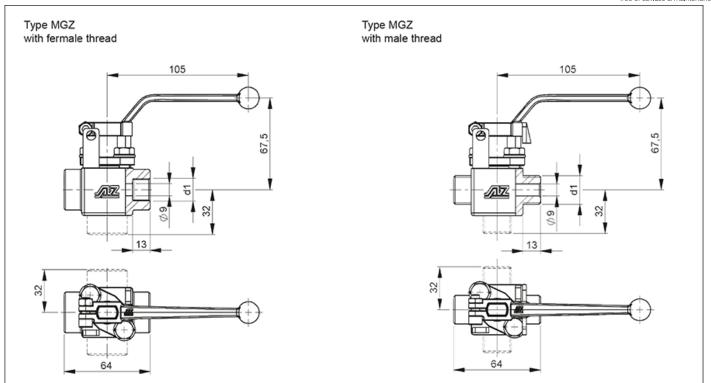


Dimensions

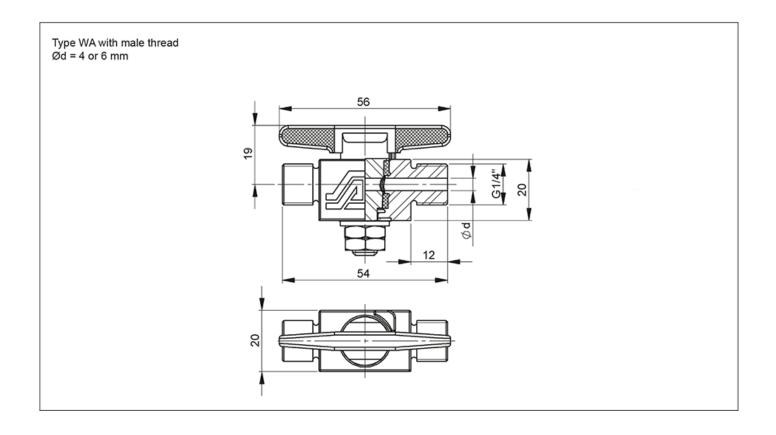


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	Connection		MGZ	MBZ/MB	WA
MG / MGZ / MBZ / MB	NPT Pipe thread ANSI B 1.20.1	female male	1/4" - 3/4" 1/4" - 3/4"	1⁄4" - 1" 1⁄4" - 1"	
	Tapered Whitworth Pipe Thread	female	Rp ¼" - Rp ¾" R ¼" - R¾"	Rp ¼" - Rp 1" R ¼" - R¾"	
	Witworth Pipe Thread DIN ISO 228	female	G ¼" - G ¾" G ¼" - G ¾"	G¼" - G 1" G¼" - G 1"	G¼"
	BSP Britisch Standard Pipe Thread	female	R ¼" - R ¾"	R¼" - R 1"	674
	ERMETO EO Progressive Pipe Thread	male light **	R ¼" - R ¾" 10-15 mm M16x1,5–M22x1,5)	R¼" - R 1" 6-22 mm (M12x1,5–M30x1,5)	
		heavy **	10-14 mm (M18x1,5–M22x1,5)	6-14 mm (M14x1,5–M22x1,5)	
	GYROLOG Tube Fitting	metric pipe ** ANSI pipe **	pipe AD 10–14 mm pipe AD 3/8" –1/2"	pipe AD 3-25 mm pipe AD 1/15"-1"	
	SWAGELOK Tube Fitting	MNSI pipe ** ANSI pipe **	pipe AD 78 -72 pipe AD 10-14 mm pipe AD 3/6" -1/2"	pipe AD 3–25 mm pipe AD 1/15"–1"	
		Anoi pipe	pipe AD /8 =/2	hhe vo 1/12 -1	

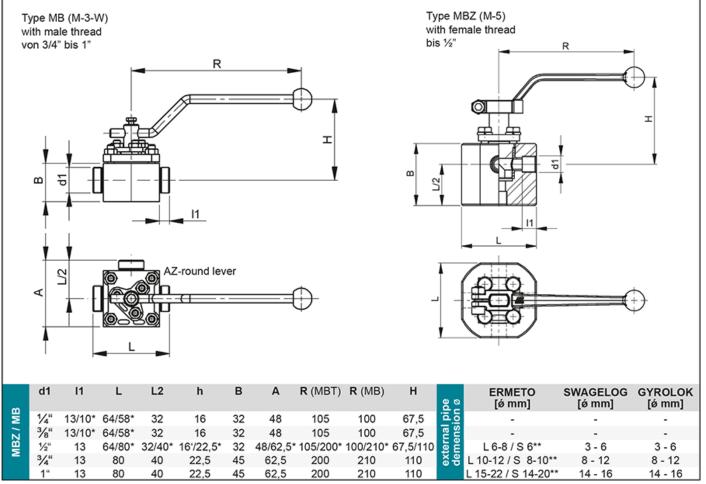




All sizes same dimensions (R1/4" - R 1/2")

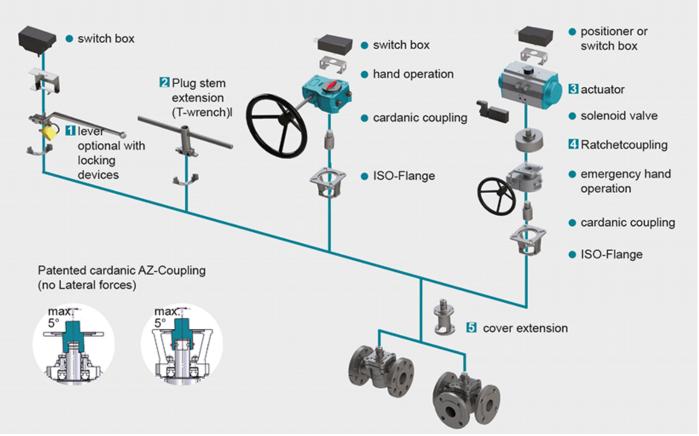






Actuation





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 ≥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

read more [...]