

MGZ / MBZ / MB / WA

Screwed plug valves / Instrumentation thread size from ½" 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

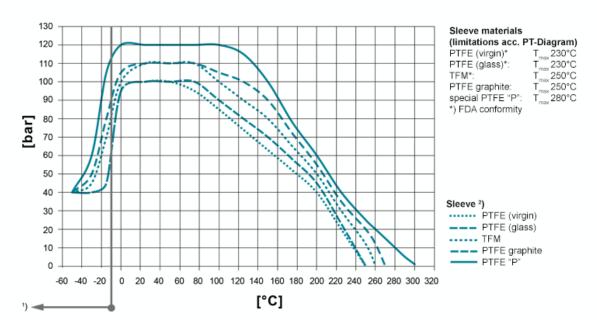
Standard connections:

- 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 [...]

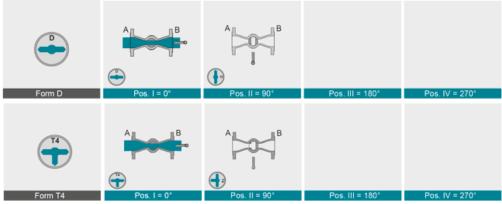
Port Forms



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

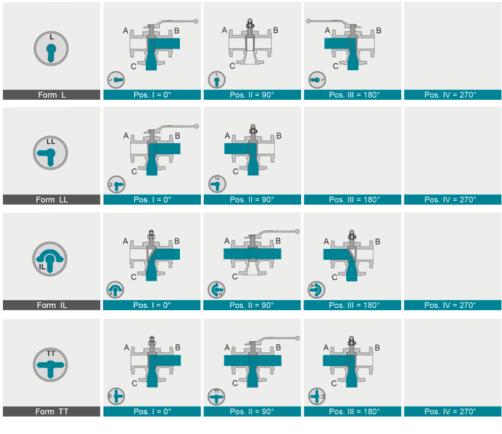
The position indicator is securely welded to the lever to prevent it from working loose.



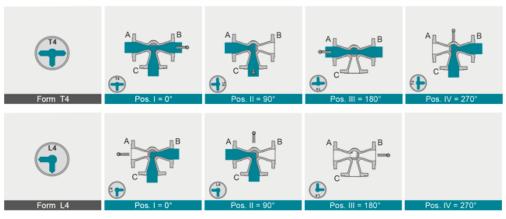






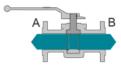


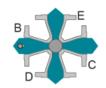


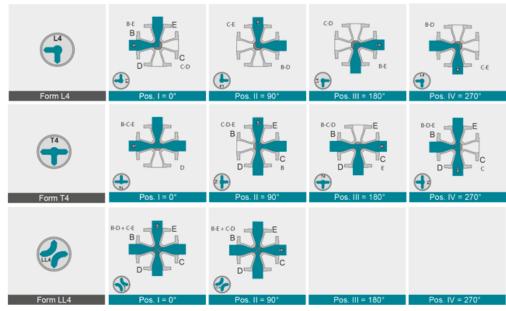




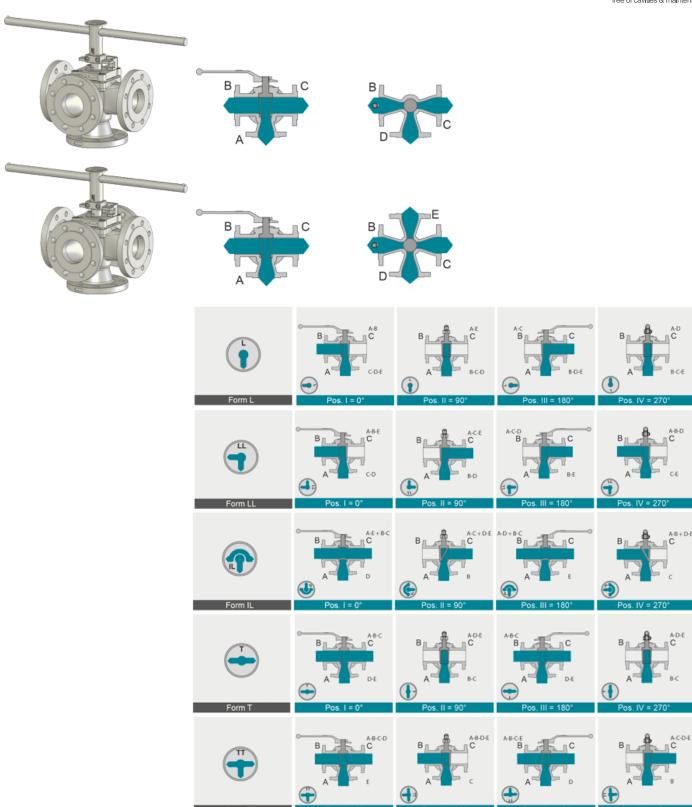










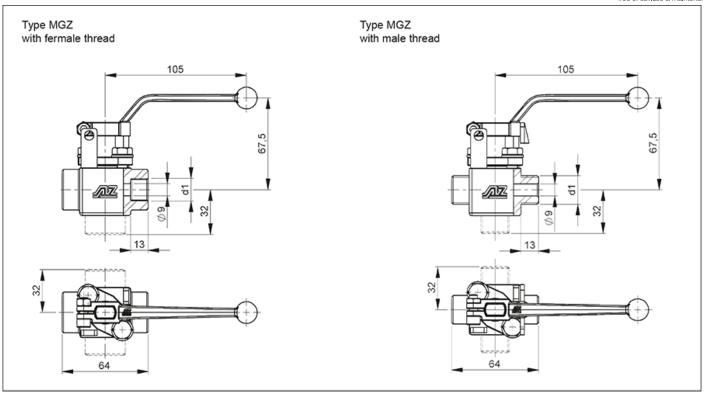


Dimensions

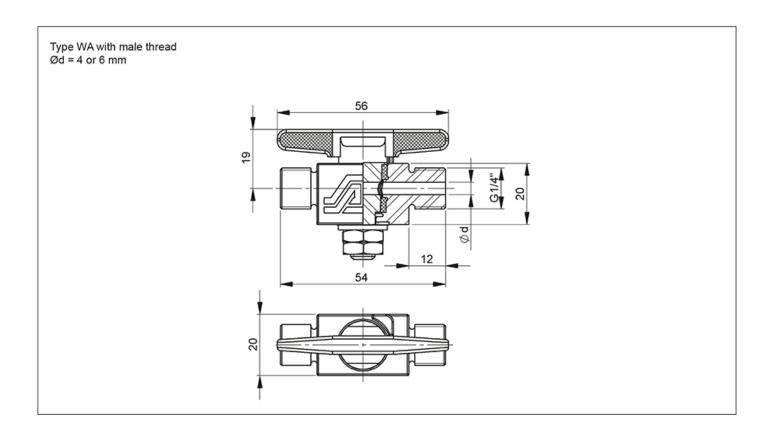


					ince of cavides a maintenance
	Connection		MGZ	MBZ/MB	WA
MG / MGZ / MBZ / MB	NPT Pipe thread ANSI B 1.20.1	female male	1/4" - 3/4" 1/4" - 3/4"	1⁄4" - 1" 1⁄4" - 1"	
	Tapered Whitworth Pipe Thread	female	Rp ¼" - Rp ¾"	Rp 1/4" - Rp 1"	
	rapered willtworth i pe i illead	male	R ¼" - R¾"	R ¼" - R¾"	
	Witworth Pipe Thread DIN ISO 228	female	G 1/4" - G 3/4"	G1/4" - G 1"	
		male	G ¼" - G ¾"	G¼" - G 1"	G1⁄4"
	BSP Britisch Standard Pipe Thread	female	R ¼" - R ¾"	R¼" - R 1"	
		male	R ¼" - R ¾"	R¼" - R 1"	
	ERMETO EO Progressive Pipe Thread	light **	10-15 mm M16x1,5-M22x1,5)	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 **	pipe AD 10-14 mm	pipe AD 3-25 mm	
		ANSI pipe **	pipe AD 3/8" -1/2"	pipe AD 1/15"-1"	
	SWAGELOK Tube Fitting	metric pipe **	pipe AD 10-14 mm	pipe AD 3-25 mm	
		ANSI pipe **	pipe AD 3/8" -1/2"	pipe AD 1/15"-1"	

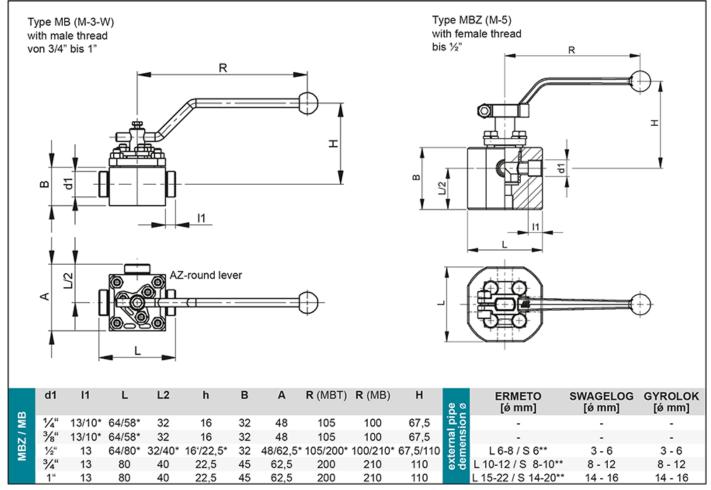




All sizes same dimensions (R1/4" - R 1/2")

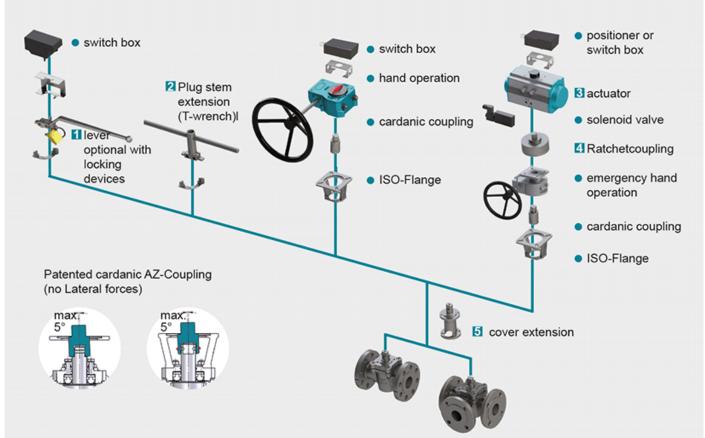






Actuation





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 ≥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 [...]