

FASA

Extra fast acting actuator for high performance applications

- fast opening / fast closing < 1 sec
- full bore valve for maximum throughput

DN 25E - 300E / PN 10 - 40

NPS 1E - 12E / Class 150 - 300

Application range: $-29 < T < 230/280^{\circ}\text{C}$, vacuum
10-8 mbar

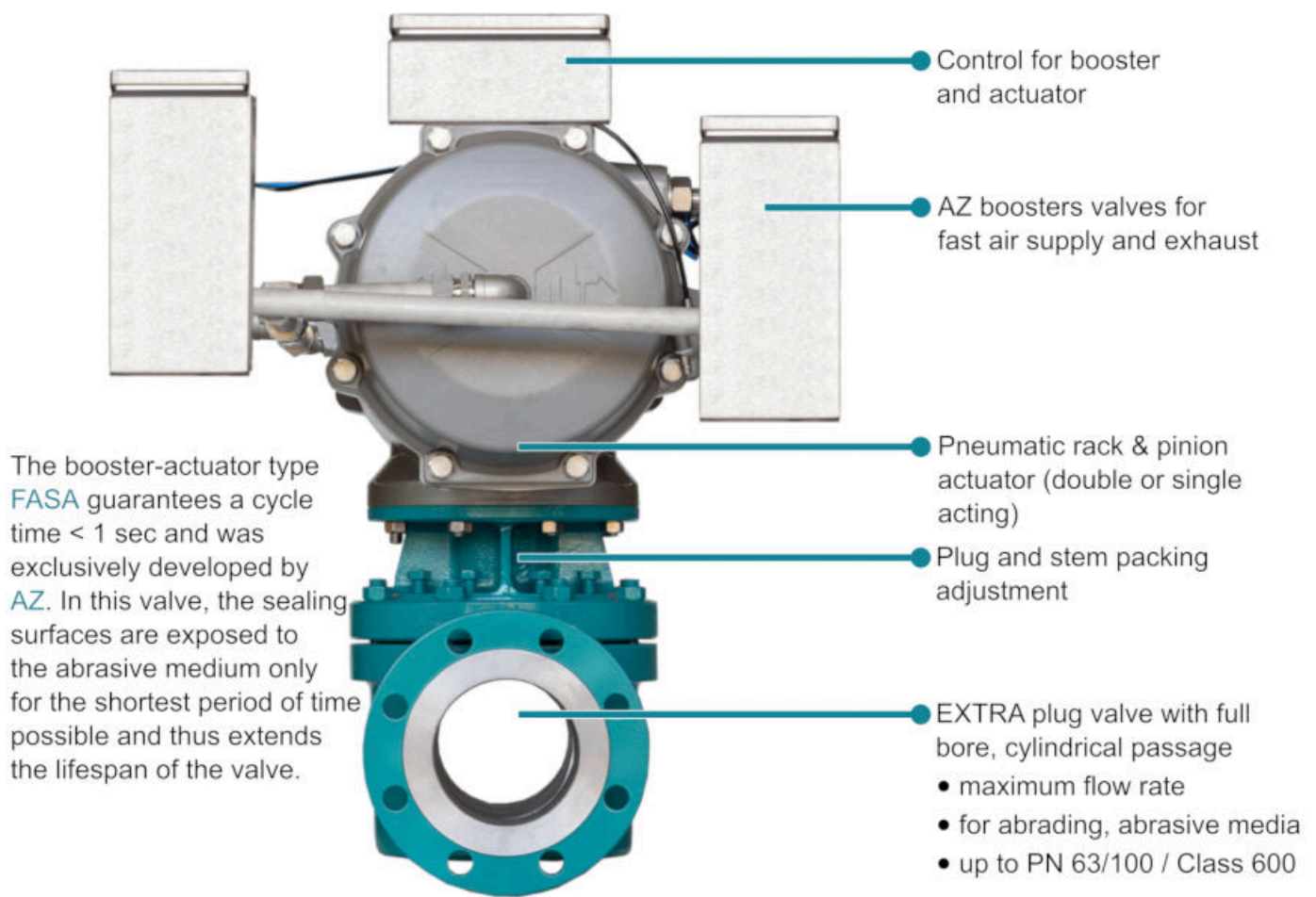


Design Features

- “fast acting” double/single acting actuator
- protected sealing areas – free of cavities
- extra long durability
- maintenance free
- double shut-off sealing
- adjustable
- FDA conformity

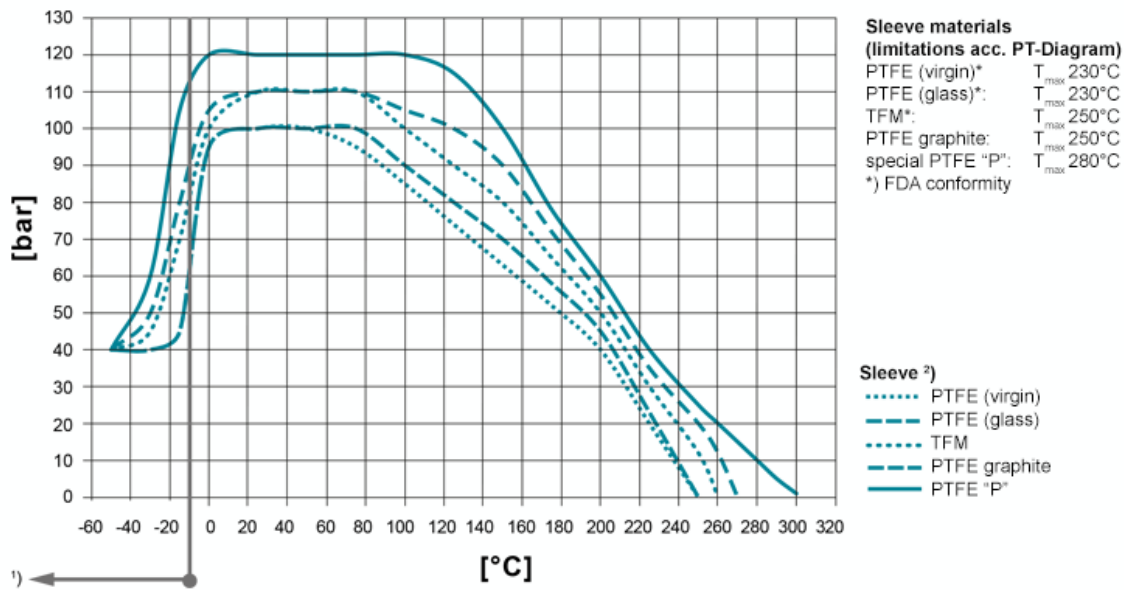
Optionen

- painted
- flushing device
- heating jacket
- oil- and grease-free assembling
- piggable



PT-Diagram

General Pressure-Temperature-Diagram



Operating temperatures $< -30^{\circ}\text{C}$ and $> 220^{\circ}\text{C}$ 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

Standard body materials

- Carbon Steel 1.0619, ASTM A216 WCB
- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8
- Unalloyed stainless steel casting (low Temp.) 1.1138, LCC/LCB/A352

Standard plug materials

- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8

Special materials

- Alloy
- Monel
- Nickel

- Zirconium
- Titan
- Tantal
- other materials on request

Sealing Systems

Standard sealing for all major applications;
Tmax 230°C

Type STD

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

Type FS

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

Type CA

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

Type FSN

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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

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Chemical safety sealing for fluctuating temperatures
with 3x PTFE packing (adjustment) for additional stem
sealing;
Tmax 230°C

Type CASN

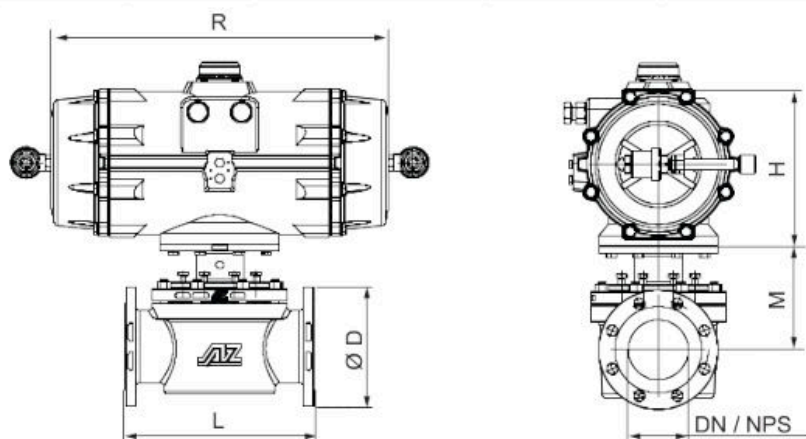
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Chemical safety sealing for fluctuation temperatures
with 3x PTFE packing (live loaded disc springs) for additional
stem sealing; Tmax 230°C

Type CASN-SL

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Dimensions

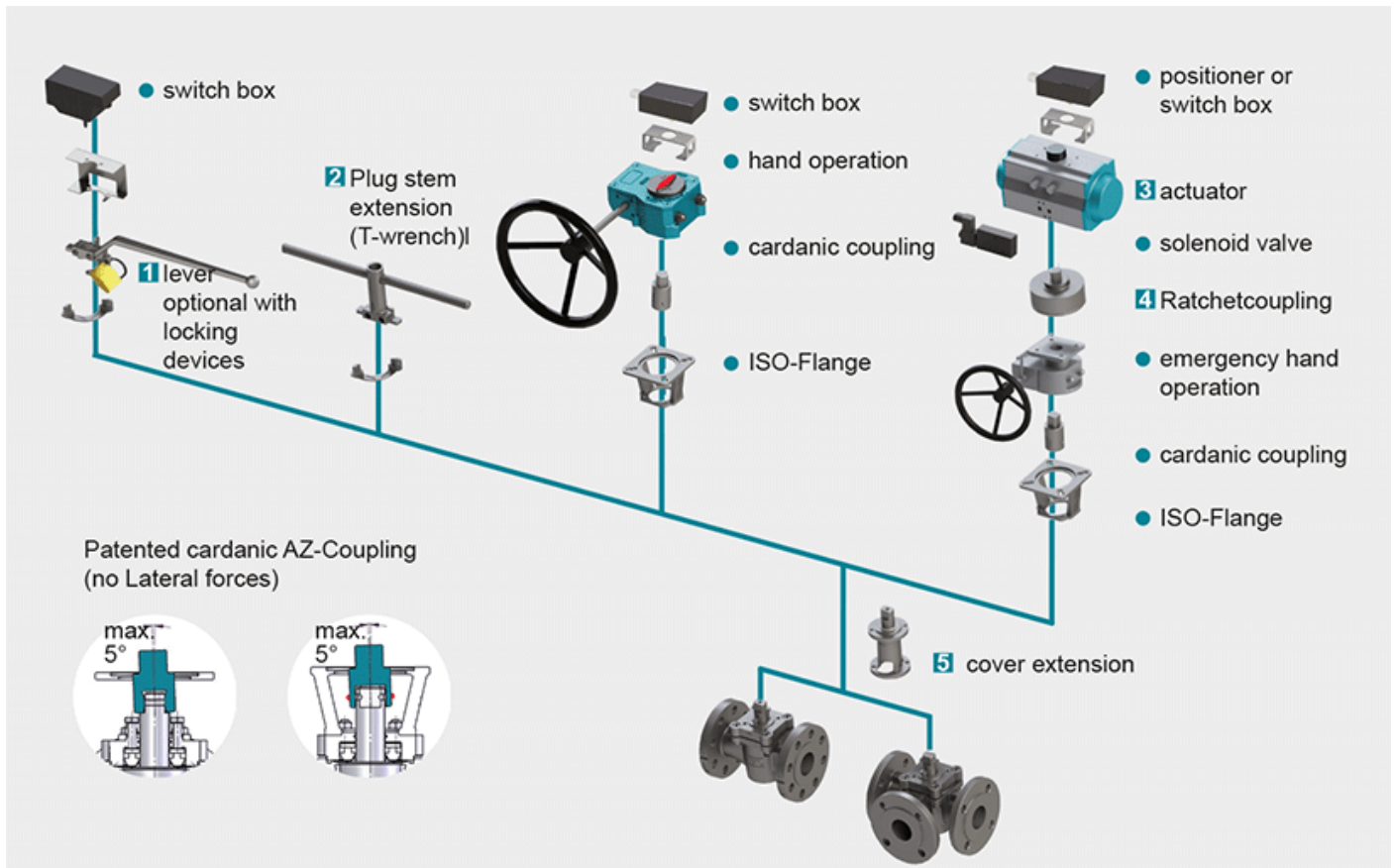


| EN 1092/1 / 558-1, PN40 | DN | L [mm] | Ø D [mm] | M [mm] | H [mm] | R [mm] | Antrieb | Drehmoment [Nm] | Luftmenge* [ltr./90°Betätigung] |
|------------------------------|------|-----------|-------------|-----------|-----------|-----------|-----------|--------------------|------------------------------------|
| | 25E | 160 | 115 | | ** | ** | ** | ** | ** |
| | 40E | 200 | 150 | | ** | ** | ** | ** | ** |
| | 50E | 230 | 165 | | 177 | 395 | FASA-450 | 175 | 30 |
| | 65E | 260 | 185 | | 196 | 422 | FASA-600 | 250 | 80 |
| | 80E | 310 | 200 | | 196 | 422 | FASA-600 | 300 | 80 |
| | 100E | 350 | 235 | | 299 | 605 | FASA-2000 | 1000 | 180 |
| | 150E | 480 | 300 | | 410 | 855 | FASA-5000 | 2000 | 500 |
| | 200E | 600 | 375 | | 410 | 855 | FASA-5000 | 3200 | 500 |
| | 250E | 730 | 450 | | ** | ** | ** | ** | ** |
| | 300E | 850 | 515 | | ** | ** | ** | ** | ** |
| ASME B16.5 / 16.10 Class 300 | NPS | L [mm] | Ø D [mm] | M [mm] | H [mm] | R [mm] | Antrieb | Drehmoment [Nm] | Luftmenge* [ltr./90°Betätigung] |
| | 1E | 230 | 125 | | ** | ** | ** | ** | ** |
| | 1½E | 260 | 155 | | ** | ** | ** | ** | ** |
| | 2E | 300 | 165 | | 177 | 395 | FASA-450 | 175 | 30 |
| | 2½E | 290 | 190 | | 196 | 422 | FASA-600 | 250 | 80 |
| | 3E | 310 | 210 | | 196 | 422 | FASA-600 | 300 | 80 |
| | 4E | 430 | 255 | | 299 | 605 | FASA-2000 | 1000 | 180 |
| | 6E | 550 | 320 | | 410 | 855 | FASA-5000 | 2000 | 500 |
| | 8E | 650 | 380 | | 410 | 855 | FASA-5000 | 3200 | 500 |
| | 10E | 775 | 445 | | ** | ** | ** | ** | ** |
| | 12E | 850 | 520 | | ** | ** | ** | ** | ** |

*) required air consumption at 6 bar, 90°

**) on request

Actuation



1 Locking Devices

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor.
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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
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3 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211
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NEW: Pneumatic actuator AIR GEAR for plug valves with high torque =150.000 Nm
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4 Ratched coupling

To usw on multiport valves with standard 90° actuator for bigger switchpositions than 90°
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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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