

Type FASA

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
 Range of application:
 -60 < T < 230/280°C
 vacuum-capable

Design characteristics

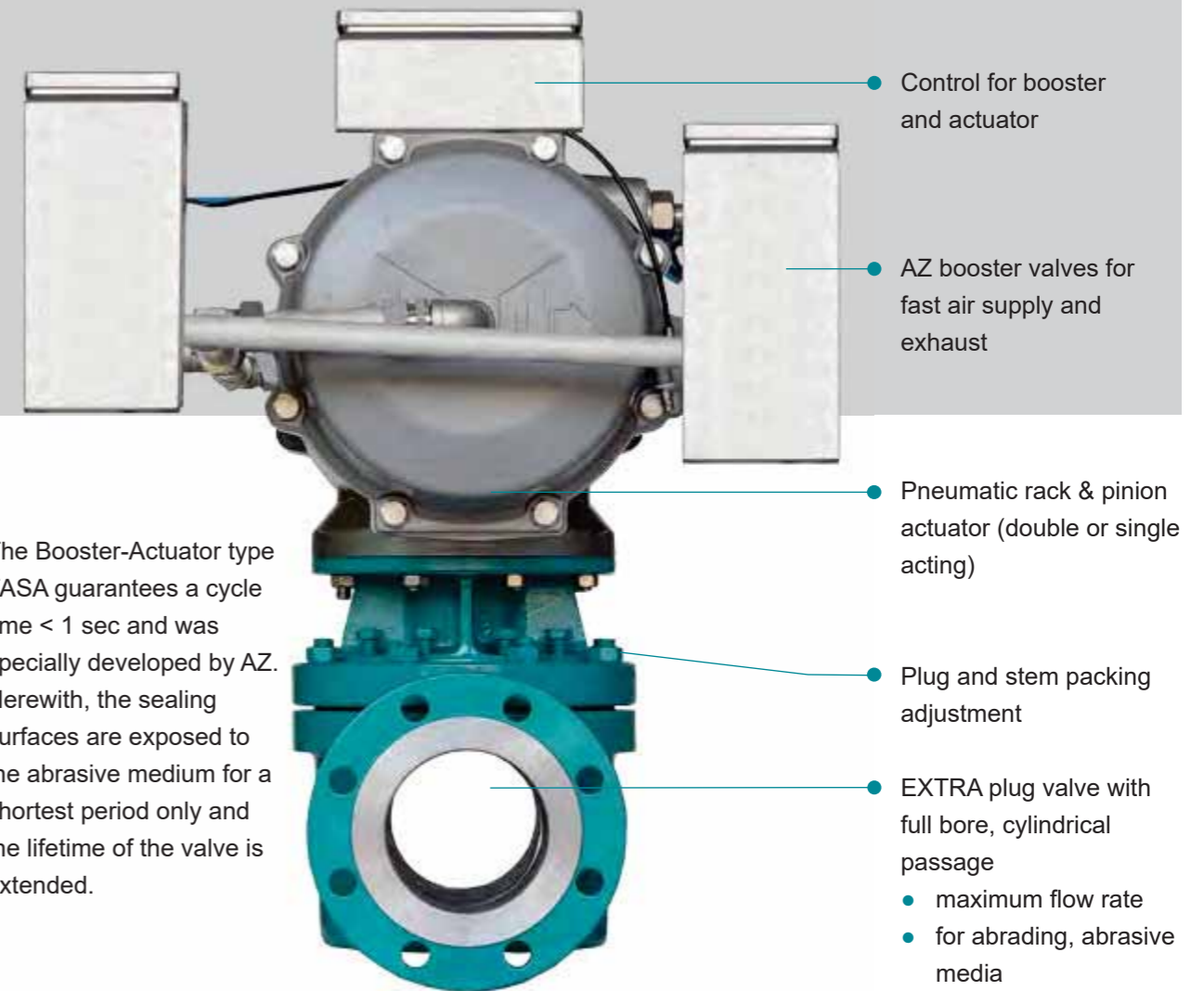
- "fast acting" double/single acting actuator
- protected sealing areas – free of cavities
- extra long durability
- maintenance-free
- double shut-off sealing
- adjustable
- FDA conformity

Options

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



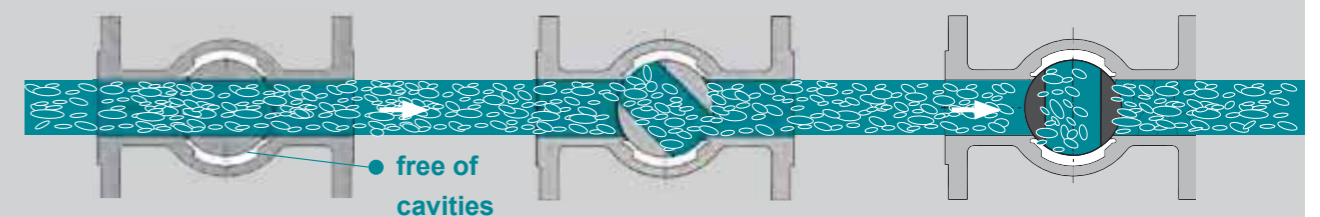
Time of closing / opening < 1 sec.
 e.g. for full bore plug valve for steam peeling processes



The Booster-Actuator type FASA guarantees a cycle time < 1 sec and was specially developed by AZ. Herewith, the sealing surfaces are exposed to the abrasive medium for a shortest period only and the lifetime of the valve is extended.

- Control for booster and actuator
- AZ booster valves for fast air supply and exhaust
- Pneumatic rack & pinion actuator (double or single acting)
- Plug and stem packing adjustment
- EXTRA plug valve with full bore, cylindrical passage
 - maximum flow rate
 - for abrading, abrasive media
 - up to PN 100 / Class 600

Example of use: solid / abrasive media



No residues in cavities

- plug wipes off solids on metal ribs and PTFE sleeve
- long lifetime
- polished sealing surface of the plug is completely covered by the PTFE sleeve and thus protected from abrasive media

Solid materials in the media

- sealing surfaces are exposed to the abrasive medium for a shortest period only
- sealing sleeve encloses and protects the whole plug

PTFE sleeve

- double shut-off sealing
- free of cavities
- FDA conformity
- reliable and tight for years

For all processes with fast opening/closing cycle, high pressure and abrasive media

Mining	Petrochemistry / Refineries	Other industries
Mineral transport	Emergency Shutdown	various examples
<ul style="list-style-type: none"> abrasive media (media water, water-gravel-mixture, slurry, sand) 	<ul style="list-style-type: none"> Media acid, oil, gas, etc. up to 100 bar high or low temperatures SIL 3 certified 	<p>Chemical industry</p> <ul style="list-style-type: none"> Transport of granules with \varnothing 0,1 up to 10 mm <p>Industries with hydro-thermal processes</p> <ul style="list-style-type: none"> all steam peeling processes for converting biomass into solid, liquid or gaseous carbon carriers (steam explosion)

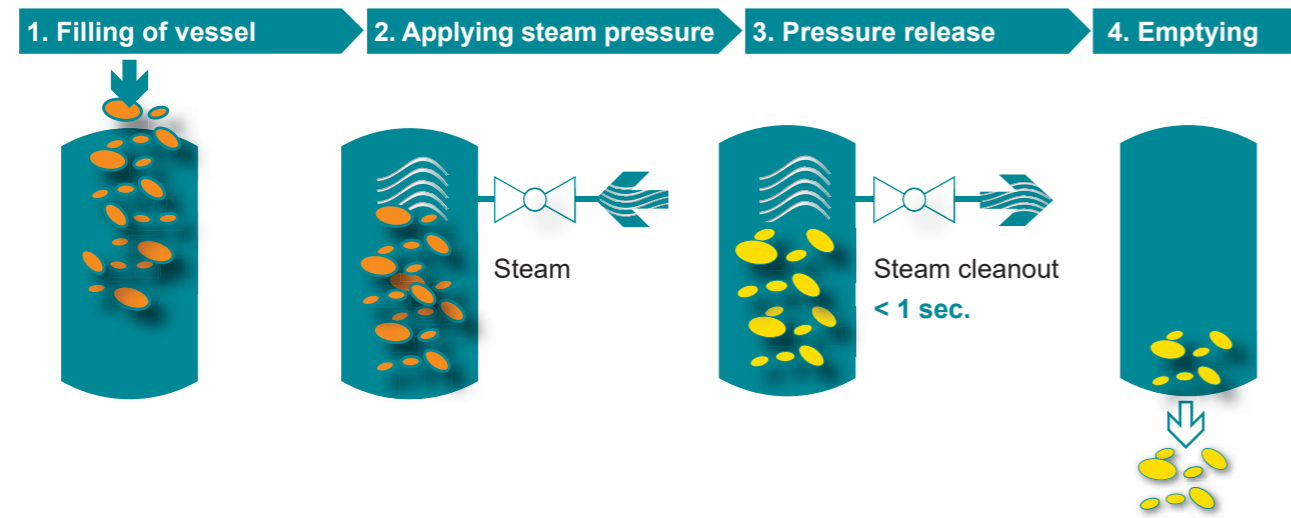
Example-application: Steam peeling for potatoes - fast opening plug valve

for example

- Potatoes
- Tomatos
- Fruit
- etc.

Media

- steam with sand
- pressure approx. 18 bar
- pressure release



Type FASA
Technical information

	DN	L [mm]	Ø D [mm]	M [mm]	H [mm]	R [mm]	actuator	torque [Nm]	compressed air* [ltr./90° cycle]
EN 558 PN40	25E	160	115	131	**	**	**	**	**
	40E	200	150	148	**	**	**	**	**
	50E	230	165	160	177	395	FASA-450	175	30
	65E	260	185	170	196	422	FASA-600	250	80
	80E	310	200	178	196	422	FASA-600	300	80
	100E	350	235	215	299	605	FASA-2000	1000	180
	150E	480	300	267	410	855	FASA-5000	2000	500
	200E	600	375	291	410	855	FASA-5000	3200	500
	250E	730	450	319	**	**	**	**	**
	300E	850	515	372	**	**	**	**	**
ASME B 16.10 Class 300	NPS	L [mm]	Ø D [mm]	M [mm]	H [mm]	R [mm]	actuator	torque [Nm]	compressed air* [ltr./90° cycle]
	1E	230	125	131	**	**	**	**	**
	1½E	260	155	148	**	**	**	**	**
	2E	300	165	160	177	395	FASA-450	175	30
	2½E	290	190	170	196	422	FASA-600	250	80
	3E	310	210	178	196	422	FASA-600	300	80
	4E	430	255	215	299	605	FASA-2000	1000	180
	6E	550	320	267	410	855	FASA-5000	2000	500
	8E	650	380	291	410	855	FASA-5000	3200	500
	10E	775	445	319	**	**	**	**	**
12E	850	520	372	**	**	**	**	**	

*) required air consumption at 6 bar, 90°
**) on request

Oder example: FASA-EXTRA-DN150E-Class300-<1
FASA = type, EXTRA = plug valve with full bore design, DN150E = nominal size, Class300 = nominal pressure, <1 = desired time for 90° acting process