

2 Cutting and vibrating elements

2.1 Pneumatic striking cylinders

2.1.1 Striking cylinder Piston diameters 32 mm and 50 mm

Technical description

Piston diameter	32 mm and 50 mm
Function	Double-action Optionally with guide unit acting as locking piston (anti-twist).
Stroke lengths	80 mm
Temperature range	-20°C to +80°C
Materials	Piston rod: stainless steel; cylinder: aluminium section; front, intermediate and end pieces: aluminium Seals: Perbunan
Medium	Filtered compressed air, oil-bearing, or not oil-bearing
Operating pressure	5 bar to 8 bar

Functional description

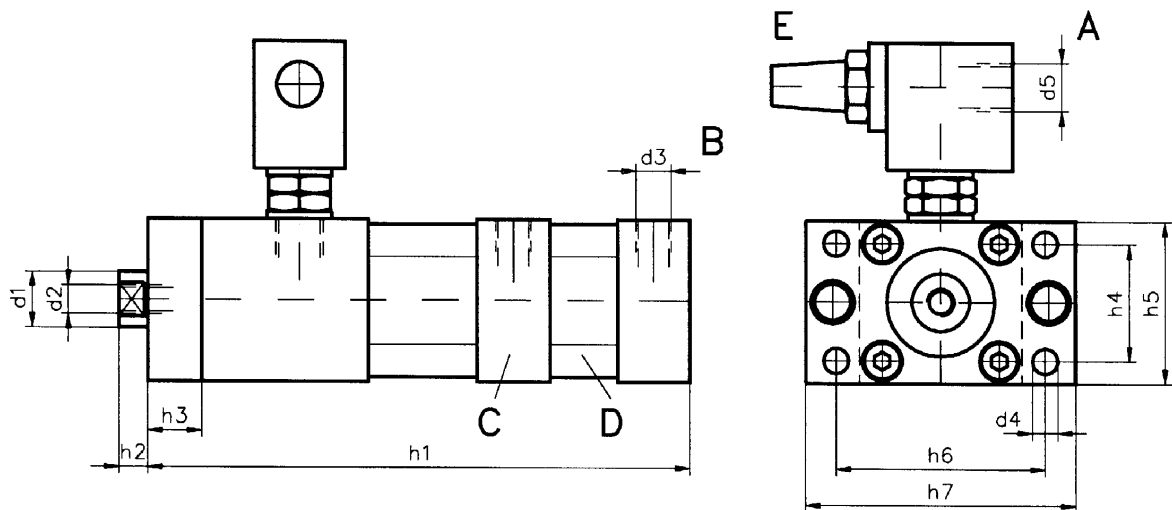
When switching compressed air from A to B, a vacuum is created in C.

Delay time is set on the vacuum one-way restrictor.

The striking action is caused by the piston accelerating with such force that the compressed air in D expands like an explosion and vents rapidly in E.

Applications

Punching, cutting and shearing of film, plastic, felt, etc.



PistonØ	Stroke	d ₁ Ø	d ₂	d ₃	d ₄ Ø	d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇
32	80	16	M8	G1/8	7	G1/4	256	8	15	32.5	45	58	75
50	80	20	M12	G1/4	11	G3/8	296	10	20	45	60	80	100

2.1.2 Striking cylinder Piston diameters 50 mm and 80 mm

Technical description

Piston diameter	50 mm and 80 mm
Function	Double-action, locked by 3 piston rods to prevent rotating, air tank for variable mounting
Stroke lengths	130 mm
Temperature range	-20°C to +80°C
Materials	Piston rods: stainless steel; cylinder: aluminium section, front, intermediate and end pieces: aluminium Seals: Perbunan
Medium	Filtered compressed air, oil-bearing, or not oil-bearing
Operating pressure	5 bar to 8 bar

Functional description

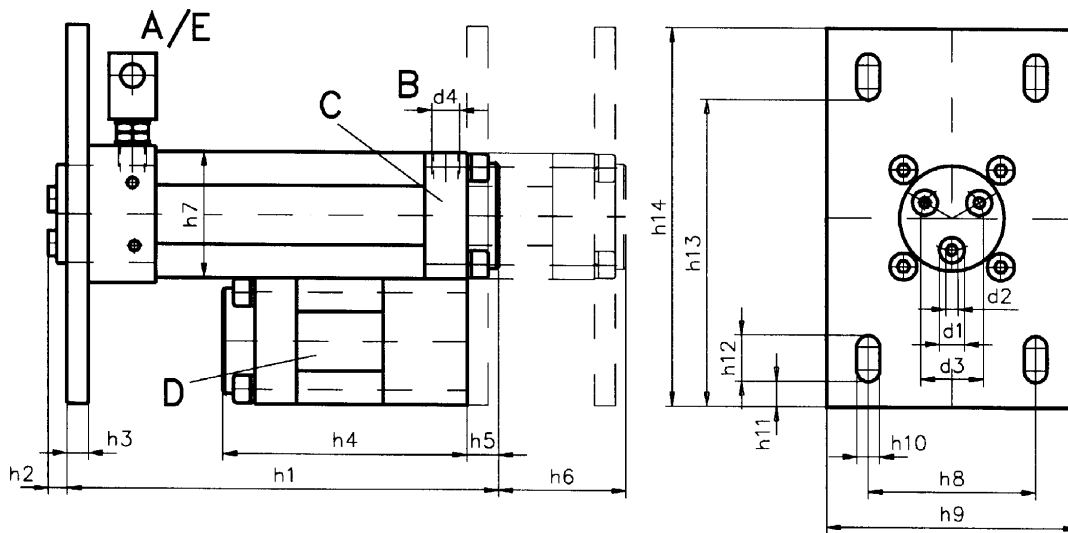
When switching compressed air from A to B, a vacuum is created in C.

Delay time is set on the vacuum one-way restrictor.

The striking action is caused by the piston accelerating with such force that the compressed air in D expands like an explosion and vents rapidly in E.

Applications

Punching, cutting and shearing of film, plastic, felt, etc.



Piston∅	Stroke	d1 ∅	d2	d3 ∅	d4	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11	h12	h13	h14
50	130	12	M6	28	G1/4	255	9	10	116	15	61	60	80	120	11	12	22	146	180
80	130	16	M10	50	G1/4	298	14	10	176	20	96	90	80	120	11	12	22	146	180

2.2 Pneumatic short stroke striking cylinder

Technical description

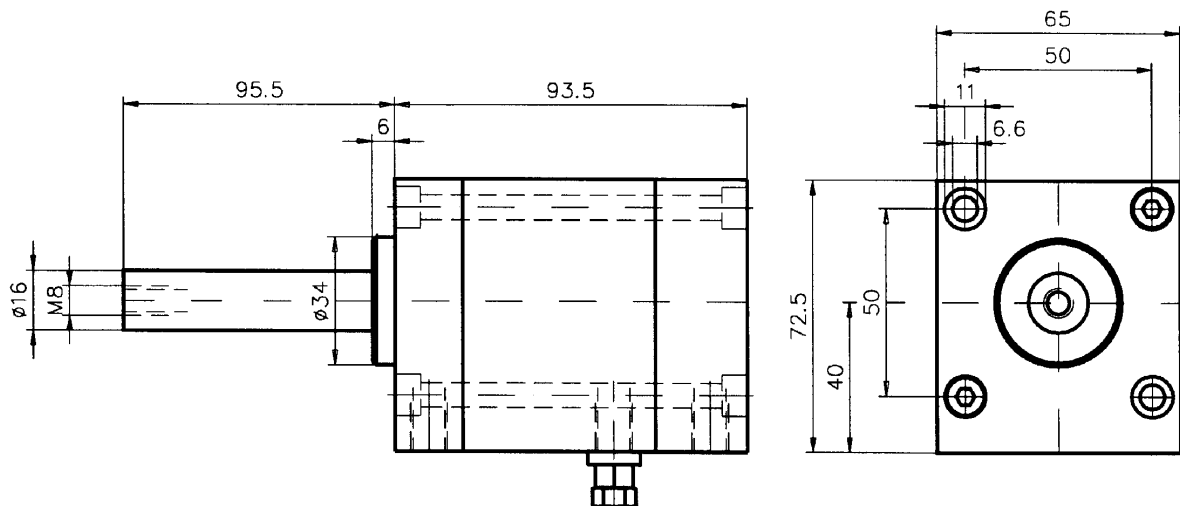
Piston diameter	50 mm
Function	Double-action
Stroke lengths	25 mm
Temperature range	-20°C to +80°C
Materials	Piston rod: stainless steel; cylinder housing: aluminium; Seals: Perbunan
Medium	Filtered compressed air, oil-bearing, or not oil-bearing
Operating pressure	5 bar to 8 bar

Functional description:

The striking action is caused by the piston accelerating with such force that the compressed air in the integrated air tank expands like an explosion.

Applications:

Punching, cutting and shearing of film, plastic, felt, etc.



2.3 Pneumatic striking cylinder

Technical description

Piston diameter	32 mm
Function	Double-action, integrated air tank, integrated quick-action ventilating valve on extension
Stroke lengths	30 mm (dependent on application)
Temperature range	-20°C to +80°C
Medium	Filtered compressed air, oil-bearing, or not oil-bearing
Operating pressure	5 bar to 8 bar

