

- > 0 ... 120 Joule
- > Robust and compact design
- > Patented, adjustable impact force
- > External monitoring of striking pin
- > Optional function indicator
- > Ideally suited for the removal of slag

- in waste to energy conversion facilities
- > Patented, integrated force compensation for undamped oscillation knocked components
- > Efficient and optimized use of pneumatic power



Technical features

Medium:

Compressed air, filtered (40 µm), lubricated or non-lubricated

Operation:

Single-acting impact cylinder

Operating pressure:

3 ... 7,5 bar (43 ... 108 psi)

Port size:

Tube O/D Ø 10 mm

Impact energy:

120 Joule max.

Weight:

10,8 kg

Fluid temperature:

-20 ... +50°C (-4 ... +122°F) max.

Ambient temperature:

-20 ... +80°C (-4 ... +176°F) max.

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Barrel and end covers:

Anodized aluminum

Piston & striking pin: 1.4021

Piston seals: PUR

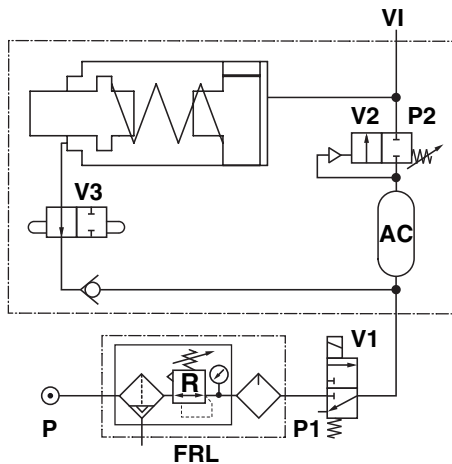
Striking pin seals: FPM

Other seals: NBR

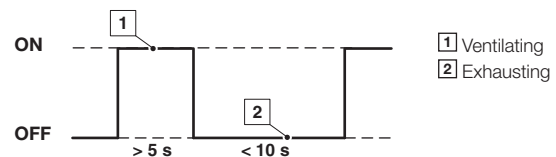
Technical data

Operating pressure (bar)	3,5	4,5	5,5	6,5	7,5
Release pressure (bar)	3,0	4,0	5,0	6,0	7,0
Impact energy (Joule)	40	50	70	100	120
Air consumption (l/cycle)	7,5	9,5	11,5	13,6	15,7
Sound level at 1m distance [dB (A)]	94	96	98	99	100

Symbol



Frequency of operating cycles:






- AC Air reservoir
- FRL Maintenance unit, not included
- P Line pressure
- P1 Operating pressure
- P2 Release pressure
- R Pressure regulator, setting for P1 and P2
- V1 Control valve, not included
- V2 Pressure valve
- V3 Valve is actuated by the striker
- VI Optional connection for visual displays

Option selector

SPCH/080003/X

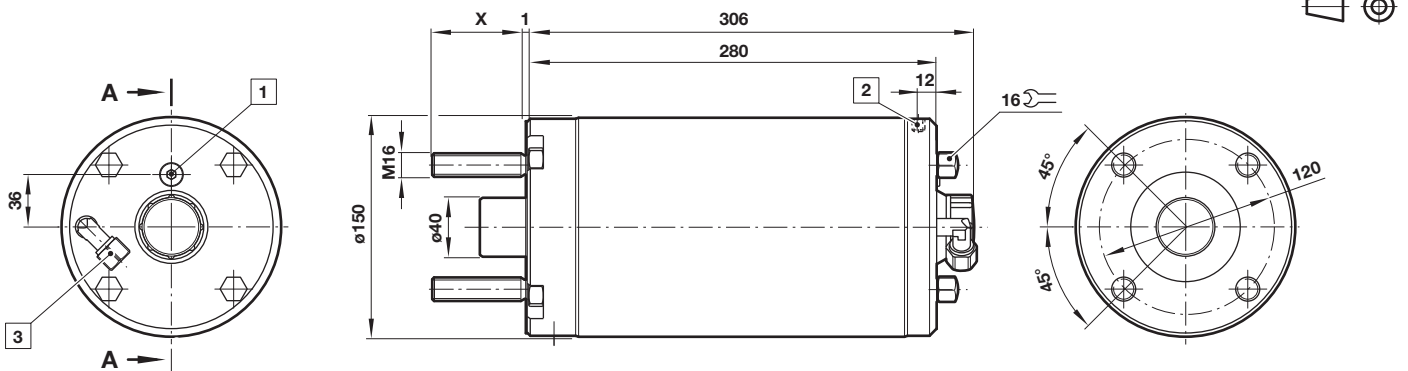
Length of screw bolts	Substitute
65 mm (Standard)	None
Option for customer to specify (e.g. 85mm)	/85

Accessories

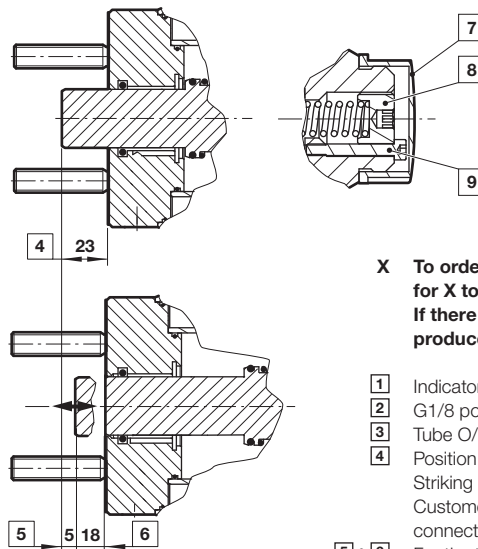
Visual indicators & nipple adaptor	Welding flange	Tool for wear monitoring (striking pin)	Service kit
			
Page 3	Page 3	Page 3	
5VS-421-800 150201818 (nipple adaptor)	SPCH/090036/120	SPCH/080014	SPCH/080003/00

Dimensions

Dimensions in mm
Projection/First angle



A-A

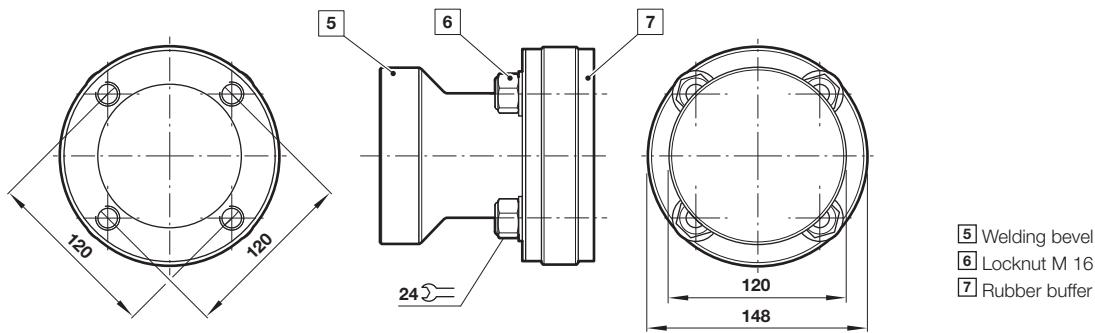
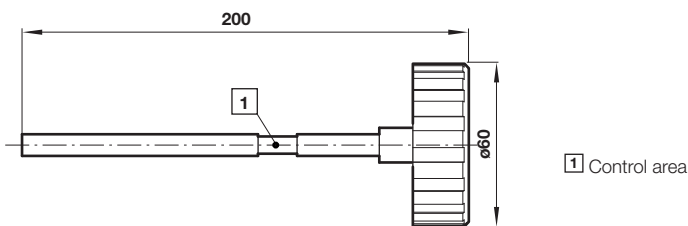
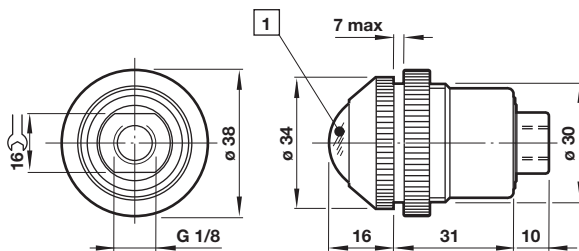


X To order the impact cylinder, fill in the desired dimension in mm for X to the last position of the article code, SPCH/080003/X ! If there is no dimension provided, the impact cylinder will be produced with a standard-length of 65 mm for X.

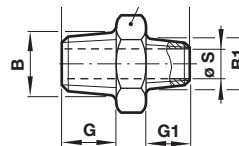
- 1 Indicator from the striking pin when installed
- 2 G1/8 port size for visual indicator
- 3 Tube O/D ø 10 mm
- 4 Position of striking pin at end of operation
Striking pins must strike a structure
Customer must ensure transfer of striking energy by means of connecting structure.
- 5 & 6 For the transmission of the impact energy, the striking pin must travel a minimum of 5 mm and a maximum of 23 mm
- 7 Protection cap
- 8 Fixing screw
- 9 Adjustment screw

The striking pin will travel 23 mm, if the impact cylinder is mounted flush.

Welding flange

 Dimensions in mm
 Projection/First angle

Tool for wear monitoring (striking pin)

Rotowink


- 1 Visual indicators
 Red (pressure present)
 Green (no pressure present)

Nipple adaptor

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.