

HSSC50 Series High Speed Stretch Cylinder

- High speed stretch cylinder for rotary stretch blow moulding machines
- Max. speed up to 2.4 m/s
- 2W low power consumption
- Special grease for long service life
- Robust and compact design
- Special rear cover cushion enhance anti-impact and anti-vibration ability



Technical features

Medium:

Compressed air
(Purity class 3.4.3 acc. to ISO 8573-1:2010)
40 µm filtered, non-lubricated

Operation:

Double acting, adjustable cushioning and magnetic piston
5/2 air/spring valve, solenoid pilot actuated

Operating pressure:

4... 8 bar

Cylinder bore size
50 mm

Port size:

Port1 push-in fitting for
OD 12 mm tube

Pilot valve:

3/2 NC solenoid/spring valve

Ambient/fluid temperature:

0 ... +50°C (+32 ... +122°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

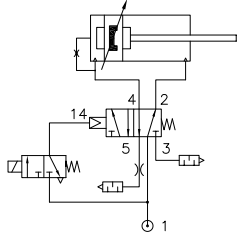
Profile barrel: Anodised aluminium
End covers: Pressure die-cast aluminium or anodised aluminium
Piston rod: Stainless steel (Martensitic)
Piston rod seals: PUR Piston Seals: PUR
Valve body: Aluminium
O-rings: NBR
Screws: Stainless steel or zinc coated steel

Electrical details for solenoid operator

Type	15 mm interface solenoid valve
Circuit function	3/2 Normally closed
Orifice	3.0 mm
Seal material	NBR
Body & coil material	PPS, POM, PA, Stainless steel
Operating voltage	24 V d.c.
Power consumption	2 W
Voltage tolerance	-5%/+15% of operating voltage

Electrical connection	2-pin industrial standard; 9.4 mm
Manual override	Without
Duty cycle	100% ED
Response time	10...15 ms
Protection class	IP65 with connector

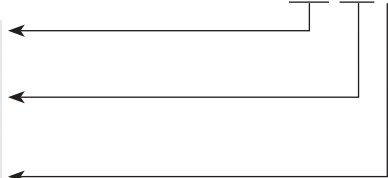
High speed stretch cylinder, standard stroke model

Symbol	Stroke (mm)	Cushion style (Rear end)	Valve mounting position	Model
	300	Standard cushion	Front end cover	HSSC50-SCF-300
	300	Long cushion	Front end cover	HSSC50-LCF-300
	300	Standard cushion	Rear end cover	HSSC50-SCR-300
	300	Long cushion	Rear end cover	HSSC50-LCR-300
	400	Standard cushion	Front end cover	HSSC50-SCF-400
	400	Long cushion	Front end cover	HSSC50-LCF-400
	400	Standard cushion	Rear end cover	HSSC50-SCR-400
	400	Long cushion	Rear end cover	HSSC50-LCR-400
	420	Standard cushion	Front end cover	HSSC50-SCF-420
	420	Long cushion	Front end cover	HSSC50-LCF-420
	420	Standard cushion	Rear end cover	HSSC50-SCR-420
	420	Long cushion	Rear end cover	HSSC50-LCR-420

For non-standard strokes between 200 mm to 500 mm, please contact Norgren.

Selector

Bore size	Substitute
50 mm	50
Rear cushion option	Substitute
Standard cushion	SC
Long cushion	LC
Valve mounting option	Substitute
Valve on rear end cover side	R
Valve on front end cover side	F



Stroke	Substitute
300 mm	300
400 mm	400
420 mm	420

Example: HSSC50-LCF-420 means long cushion for rear end cover, valve mount on front end cover and 420mm stroke.

Accessories

Connector



M/P43082

M/P43086
(LED+VDR,24 V d.c.)

M/P43066
(With 1 m flying leads)

Service kits

Front cover kits



A1902-S01

Rear cover kit -Standard cushion



A1902-S02

Rear cover kit – Long cushion



A1902-S03

Piston kit – Standard cushion



A1902-S04

Piston kit – Long cushion



A1902-S05

5/2-way valve
(without pilot valve)



A1902-S06

Pilot valve



A1902-S07

Throttle orifice



A1902-S08

Special grease



A1902-S09

5/2 solenoid valve set



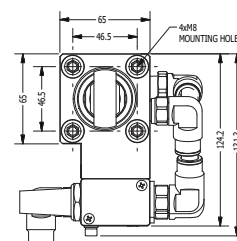
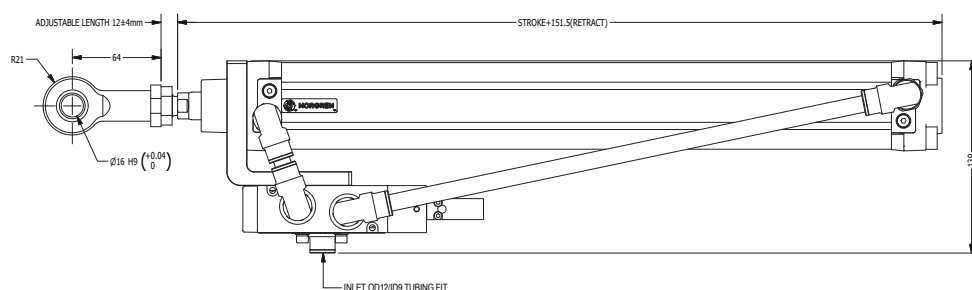
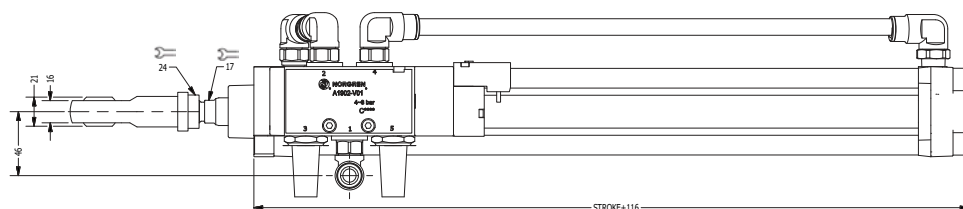
A1902-V01

Dimensions

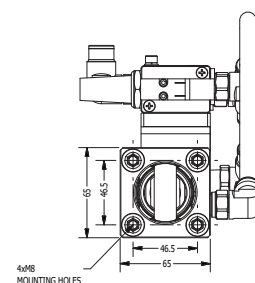
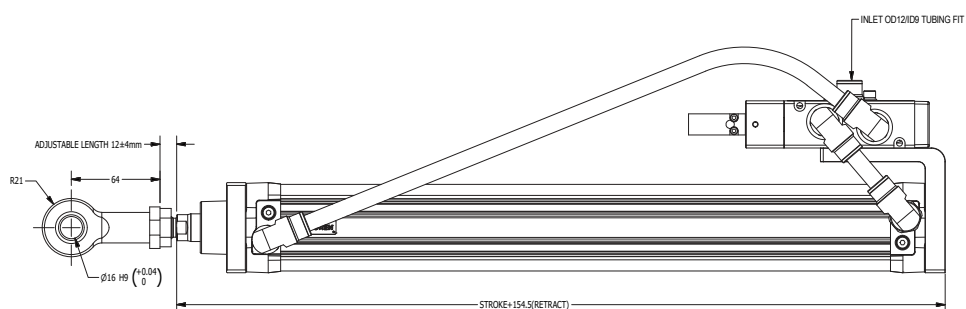
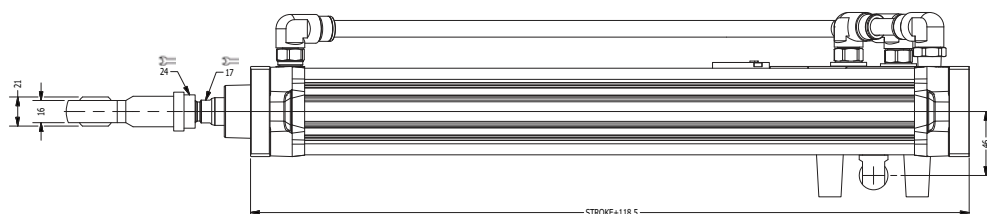
Dimensions in mm
Projection/First angle



HSSC50-SCF-***

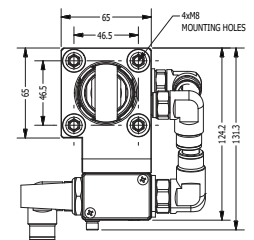
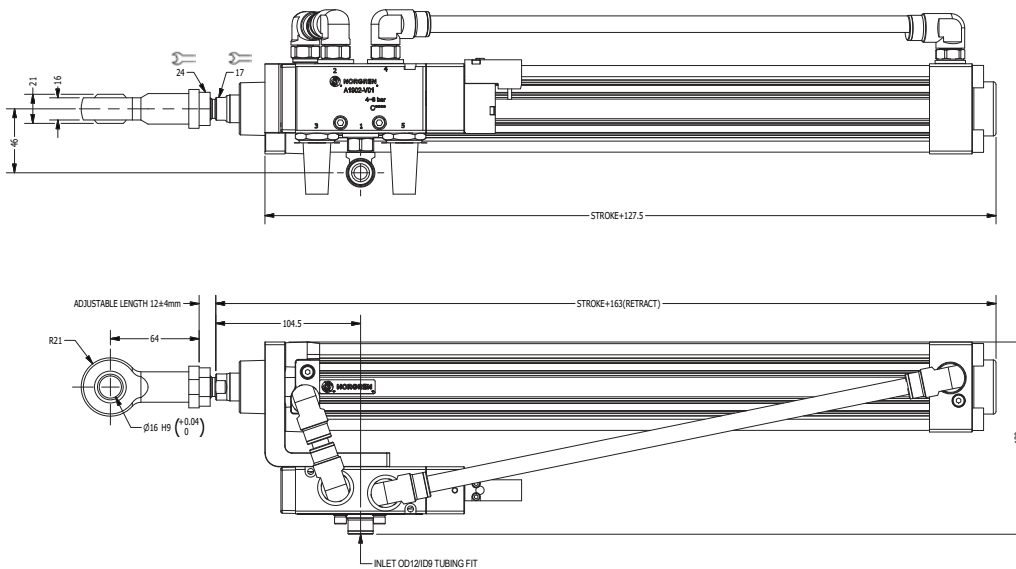


HSSC50-SCR-***

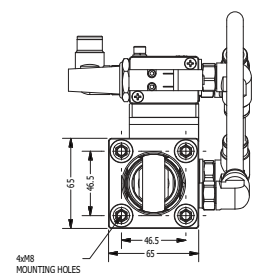
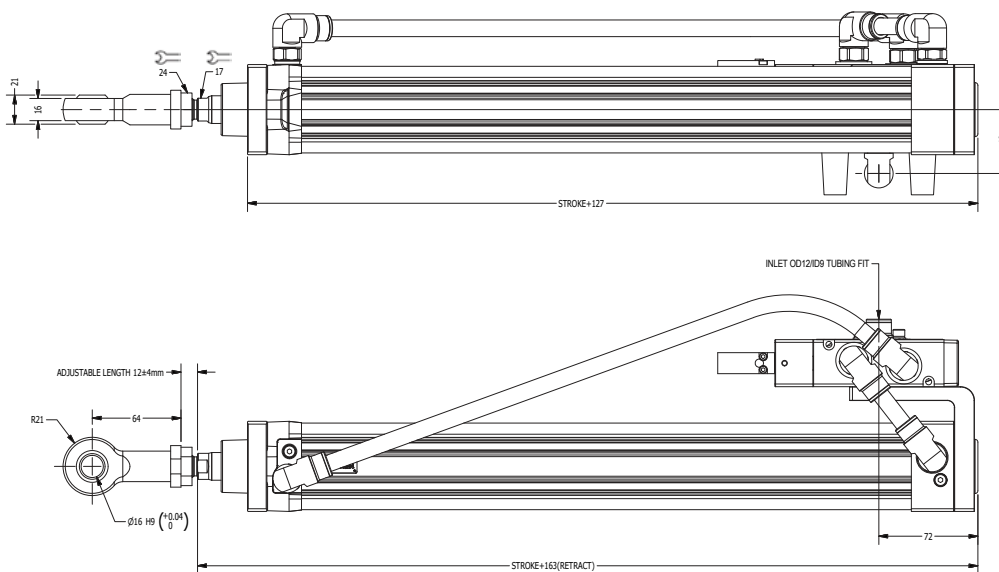


HSSC50-LCF-***

Dimensions in mm
Projection/First angle



HSSC50-LCR-***



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 Precision Engineering. 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 may contact local sales team for more information or visit www.norgren.com.