

## vacuum area gripper

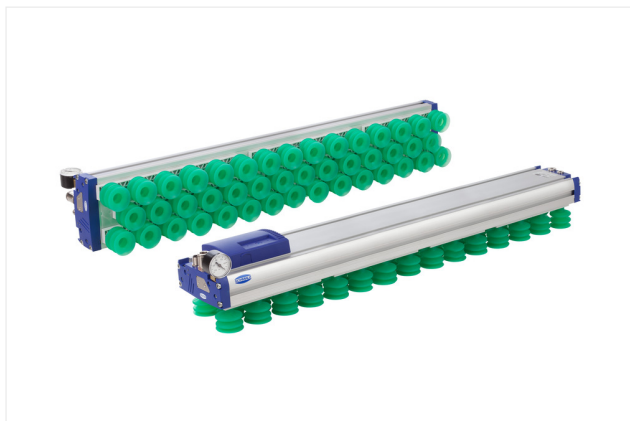
FXP-SW140 838 3R54 SPB2-40P

Part no.:10.01.38.00727

<https://www.schmalz.com/10.01.38.00727>

Home > Vacuum Technology for Automation > Vacuum Components > Area Gripping Systems and End Effectors > Vacuum Area Gripping System  
FXP/FMP > Area Gripping Systems FXP > FXP-SW140 838 3R54 SPB2-40P

### Vacuum area gripping system with integrated pneumatic vacuum generator and flow resistors



Length L: 838 mm

Width B: 130 mm

Arrangement: 3R54

Number of suction cells: 44

Design: Multi-stage ejector SEMP

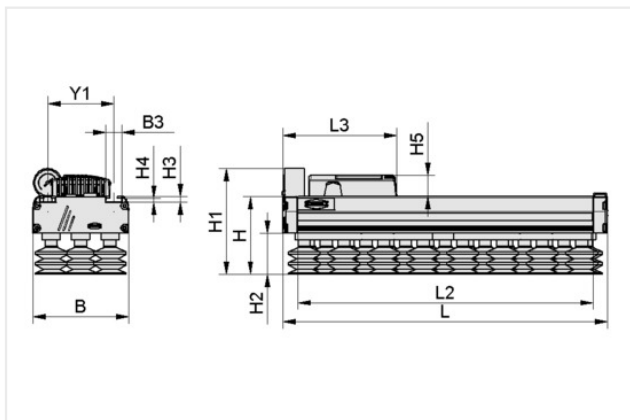
Nozzle diameter: 1.4 mm

Air consumption: 500 l/min

Weight: 5.2 kg

Product family: FXP

### Design Data



| Attribute  | Value    |
|------------|----------|
| B          | 130 mm   |
| B3         | 21.60 mm |
| H          | 105 mm   |
| H1         | 144 mm   |
| H2         | 55 mm    |
| H3         | 7.70 mm  |
| H4         | 5.50 mm  |
| H5         | 28 mm    |
| L          | 838 mm   |
| L2         | 798 mm   |
| L3         | 154 mm   |
| Y1         | 90 mm    |
| Valve type | SW       |

Permissible dimensional tolerances for elastomer parts according to DIN ISO 3302-1 M3 Note: Two ejectors/silencer box covers are used for the 1,234 mm and 1,432 mm lengths. Type FXP requires compressed air hose 12/9 mm

### Technical Data

| Attribute               | Value |
|-------------------------|-------|
| Arrangement             | 3R54  |
| Number of suction cells | 44    |

### Contact Schmalz

J. Schmalz GmbH | Johannes-Schmalz-Str.1, 72293 Glatten, Germany | +49 7443 2403-102 | [customercenter@schmalz.de](mailto:customercenter@schmalz.de)

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|                            |              |
|----------------------------|--------------|
| Suction force at -250 mbar | 390 N        |
| Suction rate (max.)        | 1600 l/min   |
| Air consumption            | 500 l/min    |
| Sealing element            | Suction Cups |
| Weight                     | 5.20 kg      |
| Product family             | FXP          |

Sound level: 74 dB(A) Max. degree of evacuation 55%

### Accessories



#### VENT-EINH 8/6 NC 24V-DC

Part no...:10.01.21.02405

Construction use: Vacuum area gripping system FXP-FMP

Connection: Hose 8/6

Control valve: Normally closed



#### VENT-EINH NO 24V-DC 1

Part no...:10.01.38.01101

Construction use: Vacuum area gripping system FXP

Control valve: Normally open

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### FLAN-PL 120x85x10 ST FLGR

Part no...:10.01.10.05701

Length L: 120 mm

Width B: 85 mm

Height H: 10 mm

Material: Steel

Construction use: Vacuum area gripping system



### FLK G1/2-IG G1/2-AG

Part no...:10.01.03.00175

Thread G1: G1/2"-F

Thread G2: G1/2"-M

Operating temperature: 0 ... 70 °C



### FST-FLEX 25 HD1 G1/2-AG G3/8-IG

Part no...:10.01.10.05697

Spring stroke Z: 25 mm

Shape mounting elements: Heavy Duty 1 spring plunger

Construction use: Mounting section

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### FST-FLEX 25 HD2 G1/2-AG G3/8-IG

Part no...:10.01.10.05695

Spring stroke Z: 25 mm

Shape mounting elements: Heavy Duty 2 spring plunger

Construction use: Mounting section



### FST-FLEX 50 HD1 G1/2-AG G3/8-IG

Part no...:10.01.10.05687

Spring stroke Z: 50 mm

Shape mounting elements: Heavy Duty 1 spring plunger

Construction use: Mounting section



### FST-FLEX 50 HD2 G1/2-AG G3/8-IG

Part no...:10.01.10.05168

Spring stroke Z: 50 mm

Shape mounting elements: Heavy Duty 2 spring plunger

Construction use: Mounting section

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### FST-FLEX 75 HD1 G1/2-AG G3/8-IG

Part no...:10.01.10.05698

Spring stroke Z: 75 mm

Shape mounting elements: Heavy Duty 1 spring plunger

Construction use: Mounting section



### FST-FLEX 75 HD2 G1/2-AG G3/8-IG

Part no...:10.01.10.05696

Spring stroke Z: 75 mm

Shape mounting elements: Heavy Duty 2 spring plunger

Construction use: Mounting section



### FST-STARR 25 HD1 G1/2-AG G3/8-IG

Part no...:10.01.10.05810

Spring stroke Z: 25 mm

Shape mounting elements: Heavy Duty 1 spring plunger

Construction use: Mounting section

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### FST-STARR 25 HD2 G1/2-AG G3/8-IG

Part no...:10.01.10.05806

Spring stroke Z: 25 mm

Shape mounting elements: Heavy Duty 2 spring plunger

Construction use: Mounting section



### FST-STARR 50 HD1 G1/2-AG G3/8-IG

Part no...:10.01.10.05809

Spring stroke Z: 50 mm

Shape mounting elements: Heavy Duty 1 spring plunger

Construction use: Mounting section



### FST-STARR 50 HD2 G1/2-AG G3/8-IG

Part no...:10.01.10.05805

Spring stroke Z: 50 mm

Shape mounting elements: Heavy Duty 2 spring plunger

Construction use: Mounting section

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### FST-STARR 75 HD1 G1/2-AG G3/8-IG

Part no...:10.01.10.05808

Spring stroke Z: 75 mm

Shape mounting elements: Heavy Duty 1 spring plunger

Construction use: Mounting section



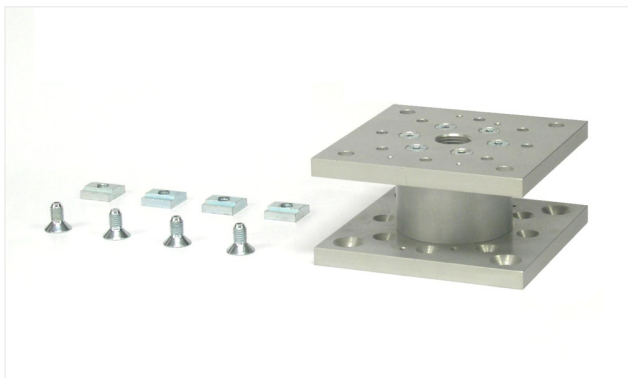
### FST-STARR 75 HD2 G1/2-AG G3/8-IG

Part no...:10.01.10.05803

Spring stroke Z: 75 mm

Shape mounting elements: Heavy Duty 2 spring plunger

Construction use: Mounting section



### MOD-FLAN 120x120 FXP-FMP

Part no...:10.01.21.00244

Length L: 120 mm

Width B: 120 mm

Height H: 60 mm

Weight: 1.1 kg

Measuring range: bar

Construction use: Vacuum area gripping system FXP-FMP

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### MOD-FLAN 176.6x118 FXP

Part no...:10.01.38.01722

Length L: 176.6 mm

Width B: 118 mm

Height H: 40 mm

Construction use: Vacuum area gripping system FXP



### VS-MONT 84x21x34.5 VSi-V FXP

Part no...:10.01.38.02691

Length L: 84 mm

Width B: 21 mm

Height H: 34.5 mm

Construction use: Vacuum area gripping system FXP

with: vacuum switch VSi



### SET fuer-Sensor(FXP/FMP)

Part no...:10.01.38.01194

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### SET FXC-FMC

Part no...:10.01.21.01291

Length L: 119 mm

Width B: 119 mm

Height H: 9.6 mm

Measuring range: bar

Construction use: Vacuum area gripping system FXC-FMC



### SET FXP-FMP

Part no...:10.01.21.02407

Length L: 232 mm

Width B: 119 mm

Height H: 119 mm

Measuring range: bar

Construction use: Vacuum area gripping system FXP-FMP



### SET FXP-FMP 4NUTSTEIN

Part no...:10.01.21.00243

contains: 4 slot nuts

Measuring range: bar

Construction use: Vacuum area gripping system FXP-FMP

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Part no.:10.01.38.00727

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### VAM 40 V U BAR

Part no.:10.07.02.00046

External diameter D: 40 mm

Measuring range: -1,00 ... 0,00 bar



### VSL 12-9 PU MI-TR

Part no.:10.07.09.00037

External diameter D: 12 mm

Internal diameter d: 9 mm

Length max.: 50 m

Material hose: PU

Bending radius min.: 70 mm

Pressure range (operating pressure): -0.95 ... 10.00 bar

Operating temperature: -20 ... 90 °C



### NUT-STEI 20x20 M8-IG 10

Part no.:25.09.06.00012

Width B: 20 mm

Height H: 4.9 mm

Material: Steel

Length L: 20 mm

Thread G1: M8-F

Shape mounting elements: With step

Surface: galvanised

Weight: 15.9 g

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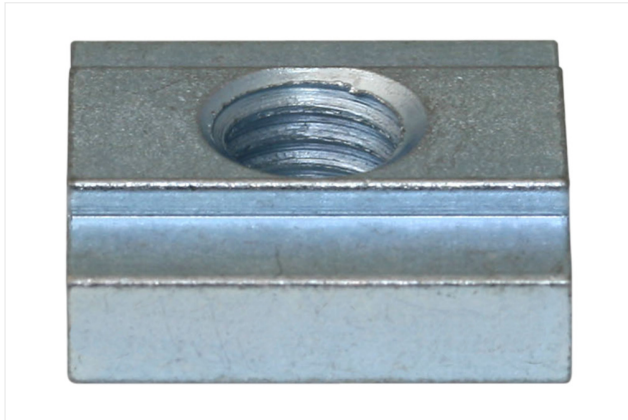
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### NUT-STEI 20x20 M6-IG 10

Part no...:25.09.06.00036

Width B: 20 mm

Height H: 5 mm

Material: Steel

Length L: 20 mm

Thread G1: M6-F

Shape mounting elements: With step

Surface: galvanised



### ABDK-PROF-10x7x1450-KU-SW-FXP-FMP

Part no...:26.07.03.00002

Length L: 1,450 mm

Width B: 10 mm

Height H: 7 mm

Material: Plastics

Measuring range: bar

Construction use: Vacuum area gripping system FXP-FMP



### FLAN-PL 120x120x10 FXC-FMC

Part no...:10.01.21.00313

Length L: 120 mm

Width B: 120 mm

Height H: 10 mm

Measuring range: bar

Construction use: Vacuum area gripping system FXC-FMC

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### FLK G1/2-IG G1/2-AG V

Part no...:10.01.03.00207

Thread G1: G1/2"-F

Thread G2: G1/2"-M

Operating temperature: 0 ... 70 °C

Shape mounting elements: Reinforced



### VS-MONT 76.5x19 VSi FXP-FMP

Part no...:10.01.38.02485

Length L: 76.5 mm

Width B: 19 mm

Add. function: Vacuum and pressure switch VSi

Measuring range: bar

Add. function: Vacuum and pressure switch

Construction use: Vacuum area gripping system FXP-FMP

## Spare parts



### ERS FXP-SEMP-100 DECKEL

Part no...:10.01.38.02188

Measuring range: bar

Size: SEMP-100

contains: Cover

Construction use: Vacuum area gripping system FXP

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### MASK-FOL SW140 798 3R54 FXP-FMP

Part no...:10.01.38.00540

Length L: 798 mm

Width B: 109.8 mm

Height H: 0.4 mm

Arrangement suction cells: 3 rows, 54 mm

Measuring range: bar

Nozzle diameter: 1.4 mm

Construction use: Vacuum area gripping system FXP-FMP



### SD 120x79x29 FXP

Part no...:10.01.38.01607

Length L: 120 mm

Width B: 79 mm

Height H: 29 mm

Construction use: Vacuum area gripping system FXP



### SPB2 40 SI-55 P

Part no...:10.01.06.03126

Size: 40

Suction cup material: Silicone SI

Material hardness [Shore A]: 55 Shore A

Number of folds: 2.5

Shape: Push In

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