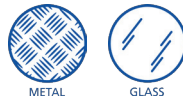


# Suction Plates for High-Temperature SPL-HT

Suction area (Ø) from 35 mm to 140 mm



## Suitability for Industry Specific Applications



Suction Plates for High-Temperature SPL-HT

### Design

- Robust stainless-steel body
- Seal clamped into the body and quickly replaceable
- Seal made of special textile material for handling hot workpieces

### Applications

- Round suction plate for handling of workpieces with smooth surfaces
- Usage in manufacturing of float glass or in tempering processes in the glass industry
- Hot forming in the metal industry

### Our Highlights...

- Stainless-steel body; seal made of special textile materials
- Withstanding temperatures of up to 600° C
- Seal quickly and easily replaceable

### Your Benefits...

- Very high temperature resistance (even for long periods)
- Safe and gentle gripping of hot workpieces with vacuum
- Seal can be replaced separately when worn or damaged



## Designation Code Suction Plates for High-Temperature SPL-HT

|               |   |           |   |           |   |                |
|---------------|---|-----------|---|-----------|---|----------------|
| <b>SPL-HT</b> | - | <b>90</b> | - | <b>ST</b> | - | <b>G1/4-IG</b> |
| <b>1</b>      |   | <b>2</b>  |   | <b>3</b>  |   | <b>4</b>       |

#### 1 – Abbreviated designation

| Code   | Version |
|--------|---------|
| SPL-HT | Flat    |

#### 2 – Suction area

| Code     | Diameter in mm |
|----------|----------------|
| 35...140 | ø 35 to 140    |

#### 3 – Material

| Code | Material                |
|------|-------------------------|
| ST   | Woven silicate material |

#### 4 – Connection

| Code    | Connection                |
|---------|---------------------------|
| G1/8-IG | G1/8-IG (IG = female (F)) |
| G1/4-IG | G1/4-IG                   |
| G3/8-IG | G3/8-IG                   |

Suction plate SPL-HT (sealing ring + mounting) is delivered assembled. The assembly consists of:

- Sealing ring of type DR-SPL-HT – available in various diameters
- Stainless-steel mounting – available with various threads

Available spare parts: sealing ring DR-SPL-HT

Schmalz – The Company  
Vacuum Suction Cups  
Special Grippers  
Gripping Systems  
Clamping Systems  
Mounting Elements  
Vacuum Generators  
Valve Technology  
Switches and Monitoring  
Filters and Connections  
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Glossary  
Index of Products



# Suction Plates for High-Temperature SPL-HT

Suction area (Ø) from 35 mm to 140 mm

## Ordering Data Suction Plates for High-Temperature SPL-HT

| Type                  | Part no.       |
|-----------------------|----------------|
| SPL-HT 35 ST G1/8-IG  | 10.01.23.00023 |
| SPL-HT 60 ST G1/4-IG  | 10.01.23.00006 |
| SPL-HT 90 ST G1/4-IG  | 10.01.23.00007 |
| SPL-HT 140 ST G3/8-IG | 10.01.23.00008 |

## Ordering Data Spare Parts Suction Plates for High-Temperature SPL-HT

| Type                  | Spare Parts                        |                  | Part no.       |
|-----------------------|------------------------------------|------------------|----------------|
| SPL-HT 35 ST G1/8-IG  | Sealing ring for SPL suction plate | DR-SPL-HT 35 ST  | 10.01.23.00022 |
| SPL-HT 60 ST G1/4-IG  | Sealing ring for SPL suction plate | DR-SPL-HT 60 ST  | 10.01.23.00001 |
| SPL-HT 90 ST G1/4-IG  | Sealing ring for SPL suction plate | DR-SPL-HT 90 ST  | 10.01.23.00016 |
| SPL-HT 140 ST G3/8-IG | Sealing ring for SPL suction plate | DR-SPL-HT 140 ST | 10.01.23.00018 |

## Technical Data Suction Plates for High-Temperature SPL-HT

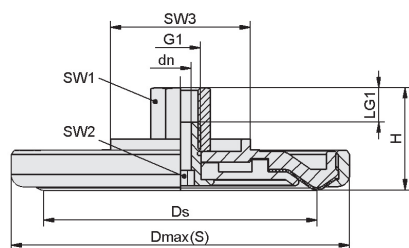
| Type*                 | Suction force [N]** | Volume [cm³] | Workpiece radius min. (convex) [mm] | Evacuation rate for pu = -0.6 bar [l/min] | Weight [g] | Hose diameter (recom.) d [mm]*** |
|-----------------------|---------------------|--------------|-------------------------------------|---|------------|----------------------------------|
| SPL-HT 35 ST G1/8-IG  | 47                  | 4            | 90                                  | 22  | 225        | 4                                |
| SPL-HT 60 ST G1/4-IG  | 130                 | 12           | 440                                 | 32  | 375        | 6                                |
| SPL-HT 90 ST G1/4-IG  | 320                 | 25           | 1,060                               | 32  | 675        | 6                                |
| SPL-HT 140 ST G3/8-IG | 740                 | 50           | 1,700                               | 47  | 1,390      | 9                                |

\*The recommended suction capacity is based on an average workpiece temperature of about 300° C. We recommend testing with original workpieces.

\*\*The suction force figures are theoretical values at a vacuum of -0.6 bar and with a smooth, flat workpiece surface. They are specified without any safety factor. For the system design the safety factors should be increased at least by the factor 3.

\*\*\*The recommended hose diameter refers to a hose length of approx. 2 m

## Design Data Suction Plates for High-Temperature SPL-HT



SPL-HT ST

| Type*                 | dn [mm] | Dmax(S) [mm]** | Ds [mm] | G1      | H [mm] | LG1 [mm] | SW1 [mm] | SW2 [mm] | SW3 [mm] |
|-----------------------|---------|----------------|---------|---------|--------|----------|----------|----------|----------|
| SPL-HT 35 ST G1/8-IG  | 5       | 53.0           | 35      | G1/8"-F | 29     | 12       | 14       | 5        | 27       |
| SPL-HT 60 ST G1/4-IG  | 7       | 79.5           | 58      | G1/4"-F | 39     | 12       | 17       | 8        | 27       |
| SPL-HT 90 ST G1/4-IG  | 7       | 111.5          | 90      | G1/4"-F | 39     | 12       | 17       | 8        | 46       |
| SPL-HT 140 ST G3/8-IG | 8       | 159.5          | 138     | G3/8"-F | 39     | 12       | 22       | 8        | 95       |

\*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 M3

\*\*External dimension of the suction cup when it is pressed against the workpiece by the vacuum