Suction area (Ø) from 35 mm to 140 mm





Suction Plates for High-Temperature SPL-HT

### Design

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

### Suitability for industry specific applications

#### Application

- 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

#### **Product highlights**

- Permanent temperature resistance due to stainless steel main body with seal made of special mesh
- Temperature resistant up to 600 °C for safe and gentle gripping of hot workpieces
- Seal can be quickly and easily replaced separately in case of wear or damage

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

SPL-HT	-	90	-	ST	-	G1/4-IG
1		2		3		4

1	– Ab	breviated	l designation

Code	Version
SPL-HT	Flat

#### 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 area

Z - Jucit	in area
Code	Diameter in mm
35140	ø 35 to 140

### 3 – Material

Code	Material
ST	Woven silicate material

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



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

Туре	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

### C Ordering data Spare parts Suction Plates for High-Temperature SPL-HT

Туре	Spare parts	pare parts			
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

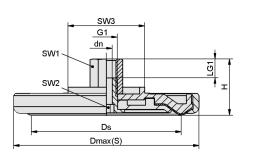
Туре*	Suction force (-600 mbar) [N]**	Volume [cm³]	, , , , , , , , , , , , , , , , , , ,	Required suction capacity for pu = -0.6 bar [l/min]	Weight [g]	Hose inner diameter (recom.) d [mm]***
SPL-HT 35 ST G1/8-IG	47	4	90	22	225	4
SPL-HT 60 ST G1/4-IG	130	12	440	32	375	6
SPL-HT 90 ST G1/4-IG	320	25	1,060	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 is based on a hose length of approx. 2 m



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### **(A)** Design data Suction Plates for High-Temperature SPL-HT



SPL-HT ST



Suction area (Ø) from 35 mm to 140 mm

### Obsign data Suction Plates for High-Temperature SPL-HT

Туре*	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 E3 \*\*External dimension of the suction cup when it is pressed against the workpiece by the vacuum