



# Vacuum gripping systems | Area gripper FSG

Area gripper with plug-in vacuum cups diameter 20 mm

## Area gripper with plug-in vacuum cups diameter 20 mm



### Product notes

- > For automated handling of individual products or product layers without changing grippers
- > Low noise emissions for a pleasant working environment
- > With built-in ejectors or with connection to central vacuum supply
- > With check valves or flow reduction
- > Plug-in cups can be changed easily and quickly
- > Area grippers with check valves are suitable for swivel/tilt movements up to less than 90°
- > Equipped with vacuum gauge 91.005 as standard

### Technical data

Item no.	Valve type	Vacuum generation	Number of vacuum cups	Working pressure [bar (psi)]	Air consumption at 6 bar (87 psi) [Nl/min]	Suction power at 6 bar (87 psi) [Nl/min]	Nominal flow rate [Nl/min]	Suction force at nominal power [N]	Vacuum level [mbar (-inHg)]	Weight [kg]	Dimensions		
											A [mm]	Ø G [mm]	H [mm]
<b>FSG.VG130.295.5C02C2</b>	Check valve	with integrated ejectors	53	4 - 6 (58 - 87)	200	700	--	253	-550 (-16.2)	3	295	--	--
<b>FSG.VG130.434.5C02C2</b>	Check valve	with integrated ejectors	83	4 - 6 (58 - 87)	200	700	--	396	-550 (-16.2)	3.8	434	--	--
<b>FSG.VG130.572.5C02C3</b>	Check valve	with integrated ejectors	113	4 - 6 (58 - 87)	300	1,050	--	539	-550 (-16.2)	4.5	572	--	--
<b>FSG.VG130.711.5C02C4</b>	Check valve	with integrated ejectors	143	4 - 6 (58 - 87)	400	1,400	--	682	-550 (-16.2)	5.3	711	--	--
<b>FSG.VG130.849.5C02C4</b>	Check valve	with integrated ejectors	173	4 - 6 (58 - 87)	400	1,400	--	825	-550 (-16.2)	6.2	849	--	--
<b>FSG.VG130.988.5C02C5</b>	Check valve	with integrated ejectors	203	4 - 6 (58 - 87)	500	1,750	--	968	-550 (-16.2)	7.2	988	--	--
<b>FSG.VG130.1126.5C02C6</b>	Check valve	with integrated ejectors	233	4 - 6 (58 - 87)	600	2,100	--	1,111	-550 (-16.2)	8.1	1,126	--	--
<b>FSG.VG130.1265.5C02C6</b>	Check valve	with integrated ejectors	263	4 - 6 (58 - 87)	600	2,100	--	1,254	-550 (-16.2)	8.9	1,265	--	--
<b>FSG.PG130.295.5C02C2</b>	Flow reduction	with integrated ejectors	53	4 - 6 (58 - 87)	200	700	--	253	-550 (-16.2)	3	295	--	--
<b>FSG.PG130.434.5C02C2</b>	Flow reduction	with integrated ejectors	83	4 - 6 (58 - 87)	200	700	--	396	-550 (-16.2)	3.8	434	--	--
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<b>FSG.PG130.988.5C02C5</b>	Flow reduction	with integrated ejectors	203	4 - 6 (58 - 87)	500	1,750	--	968	-550 (-16.2)	7.2	988	--	--
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FSG.PG130.1265.5C02C6	Flow reduction	with integrated ejectors	263	4 - 6 (58 - 87)	600	2,100	--	1,254	-550 (-16.2)	8.9	1,265	--	--
FSG.VG130.295.5C02T	Check valve	central vacuum supply	53	--	--	--	150	138	-300 (-8.9)	2.8	295	32.5	54
FSG.VG130.434.5C02T	Check valve	central vacuum supply	83	--	--	--	300	216	-300 (-8.9)	3.8	434	32.5	54
FSG.VG130.572.5C02T	Check valve	central vacuum supply	113	--	--	--	400	294	-300 (-8.9)	4.3	572	32.5	54
FSG.VG130.711.5C02T	Check valve	central vacuum supply	143	--	--	--	510	372	-300 (-8.9)	5.1	711	60	49
FSG.VG130.849.5C02T	Check valve	central vacuum supply	173	--	--	--	600	450	-300 (-8.9)	6	849	60	49
FSG.VG130.988.5C02T	Check valve	central vacuum supply	203	--	--	--	750	528	-300 (-8.9)	7	988	60	49
FSG.VG130.1126.5C02T	Check valve	central vacuum supply	233	--	--	--	850	606	-300 (-8.9)	7.7	1,126	60	49
FSG.VG130.1265.5C02T	Check valve	central vacuum supply	263	--	--	--	950	684	-300 (-8.9)	8.5	1,265	60	49
FSG.PG130.295.5C02T	Flow reduction	central vacuum supply	53	--	--	--	150	138	-300 (-8.9)	2.8	295	32.5	54
FSG.PG130.434.5C02T	Flow reduction	central vacuum supply	83	--	--	--	300	216	-300 (-8.9)	3.8	434	32.5	54
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FSG.PG130.1265.5C02T	Flow reduction	central vacuum supply	263	--	--	--	950	684	-300 (-8.9)	8.5	1,265	60	49

## Notes

The suction force depends on the workpiece to be suctioned and the vacuum generation.  
 For types with integrated ejectors, the specified vacuum level can only be achieved with non-suctioning workpieces.  
 For types with external vacuum supply, the vacuum source and the distance to the vacuum source are decisive for the vacuum level and thus the suction force. The specified vacuum level and the specified suction force serve here only as an exemplary orientation.  
 By using different vacuum generators, both higher and lower vacuum levels/suction forces are possible.



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## Optional accessories and spare parts

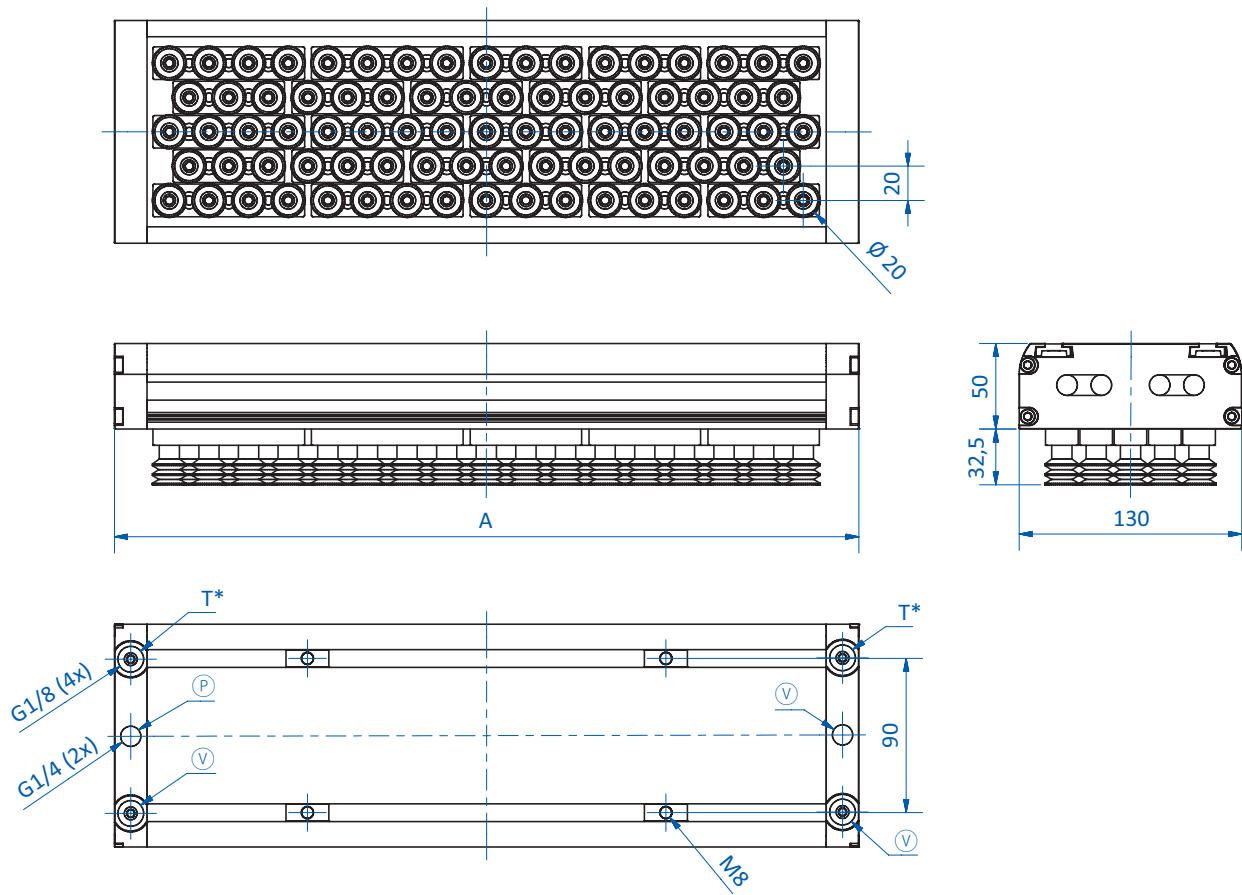
Optional accessories:

- > Electronic vacuum switch with display GS02.001
- > Electronic vacuum switch GS02.003
- > Electronic vacuum and pressure switch 20.026
- > Flange module for area gripper FSG.ACC130.0001
- > Slot nut 1x M8 for area gripper FSG.ACC130.0002
- > Optical sensor with sensor holder FSG.ACC130.000

Spare parts:

- > Replacement plug-in cup in silicone 55° Shore A 21.020.185.2
- > Ejector for area gripper FSG.ACC130.0003

## Dimensions

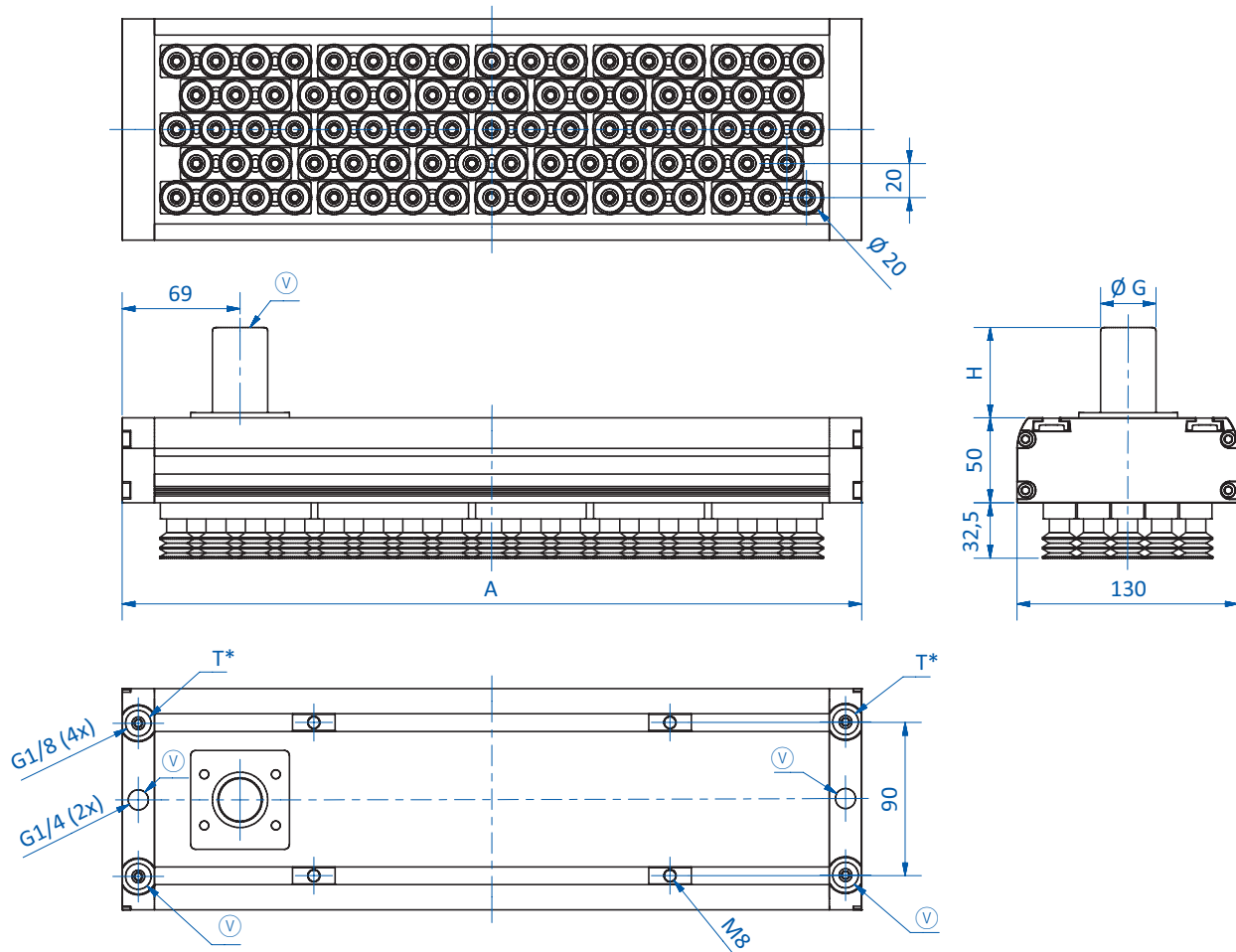


Vacuum generation with integrated ejectors

Ⓟ = Compressed air connection   Ⓥ = Vacuum connection   \* = Transfer line



## Dimensions



Vacuum generation via central vacuum supply

Ⓟ = Compressed air connection    Ⓥ = Vacuum connection    \* = Transfer line