

## FC20P



### FLAT, CONCAVE SUCTION CUP WITH CLEATS

- ▶ Suitable for lifting small objects and narrow parts, also slightly domed, flat and oily surfaces, e.g., such as those encountered when handling steel sheets in press processes.
- ▶ Thanks to the high friction of the rubber material, the suction cups can withstand high forces at rapid accelerations in horizontal directions, even on oily surfaces.
- ▶ The suction cups have cleats that prevent thin objects from being disfigured.
- ▶ DURAFLEX® suction cups manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane. The material does not leave any marks on the objects handled.

### LIFTING FORCES & TECHNICAL DATA

| Lifting force vertical to the surface, N, at vacuum level |         |         | Lifting force parallel to the surface, N, at vacuum level |         |         | Volume<br>cm <sup>3</sup> | Min. curve radius<br>mm | Max. vertical movement<br>mm | Weight rubber part<br>g |
|-----------------------------------------------------------|---------|---------|-----------------------------------------------------------|---------|---------|---------------------------|-------------------------|------------------------------|-------------------------|
| 20 -kPa                                                   | 60 -kPa | 90 -kPa | 20 -kPa                                                   | 60 -kPa | 90 -kPa |                           |                         |                              |                         |
| 4.5                                                       | 12.0    | 16.0    | 4.5                                                       | 9.0     | 12.0    | 1.0                       | 25                      | 1.9                          | 1.3                     |

### MATERIAL SPECIFICATIONS

| Material           | Colour           | Hardness<br>°Shore A | Temperature range<br>°C |
|--------------------|------------------|----------------------|-------------------------|
| Polyurethane, PU50 | Blue transparent | 50                   | 10–50                   |

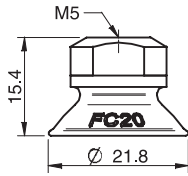
### MATERIAL RESISTANCE

| Wear resistance | Oil       | Weather & ozone | Hydrolysis | Petrol | Concentrated acids | Ethanol | Methanol | Oxidation |
|-----------------|-----------|-----------------|------------|--------|--------------------|---------|----------|-----------|
| Excellent       | Excellent | Excellent       | Fair**     | Fair   | Fair**             | Fair    | Poor     | Poor      |

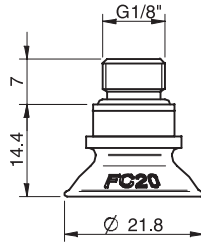
\*\*Please contact PIAB.

## ORDERING INFORMATION

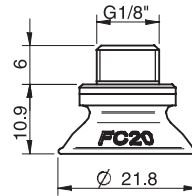
| Complete suction cups |                                                                             | Art. No. |
|-----------------------|-----------------------------------------------------------------------------|----------|
| A                     | Suction cup FC20P Polyurethane 50, M5 female                                | 0106717  |
| B                     | Suction cup FC20P Polyurethane 50, G1/8" male, with mesh filter             | 0106722  |
| C                     | Suction cup FC20P Polyurethane 50, G1/8" male / M5 female, with mesh filter | 0106718  |



A



B



C

| Rubber part                       |  | Art. No. |
|-----------------------------------|--|----------|
| Suction cup FC20P Polyurethane 50 |  | 0106016  |



| Fittings                                       |  | Art. No. |
|------------------------------------------------|--|----------|
| Fitting M5 female                              |  | 3250003  |
| Fitting G1/8" male, with mesh filter           |  | 3250085  |
| Fitting G1/8" male/M5 female, with mesh filter |  | 0101152  |

For further information and dimensioned drawings, see *SUCTION CUPS FITTINGS* chapter.

Suction cups  
FC-P