

## FC35P



### FLAT, CONCAVE SUCTION CUP WITH CLEATS

- ▶ Suitable for slightly domed and 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

Material	Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm <sup>3</sup>	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
	20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
PU50°	11.0	36	51	27	51	62	5.0	32	5.5	6
PU60°	11.0	34	49	27	41	51	5.0	32	5.5	6

### MATERIAL SPECIFICATIONS

Material	Colour	Hardness °Shore A	Temperature range °C
Polyurethane, PU50	Blue transparent	50	10–50
Polyurethane, PU60	Green transparent	60	10–50

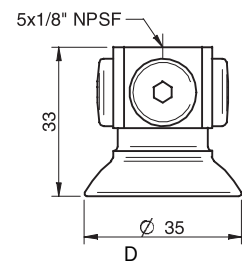
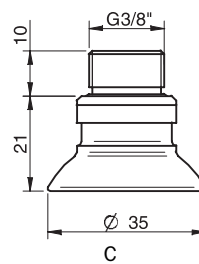
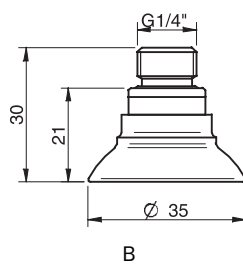
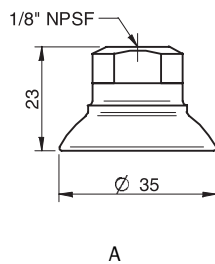
### MATERIAL RESISTANCE

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

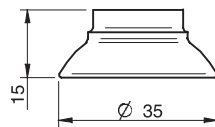
\*\*Please contact PIAB.

## ORDERING INFORMATION

Complete suction cups		Art. No.
A	Suction cup FC35P Polyurethane 50, 1/8" NPSF female, with mesh filter	0103705
A	Suction cup FC35P Polyurethane 50, 1/8" NPSF female, with dual flow control valve	0103709
B	Suction cup FC35P Polyurethane 50, G1/4" male, with mesh filter	0103711
B	Suction cup FC35P Polyurethane 50, G1/4" male, with mesh filter and dual flow control valve	0103713
C	Suction cup FC35P Polyurethane 50, G3/8" male, with mesh filter	0103719
C	Suction cup FC35P Polyurethane 50, G3/8" male, with mesh filter and dual flow control valve	0103721
D	Suction cup FC35P Polyurethane 50, 5x1/8" NPSF female	0103727
D	Suction cup FC35P Polyurethane 50, 5x1/8" NPSF female, with dual flow control valve	0103729
A	Suction cup FC35P Polyurethane 60, 1/8" NPSF female, with mesh filter	0103706
A	Suction cup FC35P Polyurethane 60, 1/8" NPSF female, with dual flow control valve	0103710
B	Suction cup FC35P Polyurethane 60, G1/4" male, with mesh filter	0103712
B	Suction cup FC35P Polyurethane 60, G1/4" male, with mesh filter and dual flow control valve	0103714
C	Suction cup FC35P Polyurethane 60, G3/8" male, with mesh filter	0103720
C	Suction cup FC35P Polyurethane 60, G3/8" male, with mesh filter and dual flow control valve	0103722
D	Suction cup FC35P Polyurethane 60, 5x1/8" NPSF female	0103728
D	Suction cup FC35P Polyurethane 60, 5x1/8" NPSF female, with dual flow control valve	0103730



Rubber parts		Art. No.
Suction cup FC35P Polyurethane 50		0103290
Suction cup FC35P Polyurethane 60		0103291



Fittings		Art. No.
Fitting 1/8" NPSF female, 30–40, with mesh filter		0101153
Fitting 1/8" NPSF female, 30–40, with dual flow control valve		3251006
Fitting G1/4" male, 30–40, with mesh filter		3250091
Fitting G1/4" male, 30–40, with mesh filter and dual flow control valve		3251007
Fitting G3/8" male, 30–40, with mesh filter		3250086
Fitting G3/8" male, 30–40, with mesh and dual flow control valve		3251009
Fitting 5x1/8" NPSF female, 30–40		0100261
Fitting 5x1/8" NPSF female, 30–40, with dual flow control valve		3251011

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