FCF35P, FCF50P, FCF75P, FCF100P, FCF125P





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Features

- Special designed friction cups for oily surfaces, such as sheets in metal forming processes.
- Normal wear on friction cup will not affect the long term shear force performance.
- Best choice if > 0.1g/m2 press oil is used on the sheet.
- Thanks to the strong grip on oily surfaces, the suction cups can withstand high shear forces, typically 2–4 times more than corresponding conventional suction cups.
- The "FCF" design is suitable for slightly domed and flat surfaces, e.g., such as those encountered when handling metal sheets in press lines.
- The suction cups have support 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 1	forces &	Technical	data
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Model	Material to be handled	Lifting forces vertical to the surface, lbf, at vacuum level		Friction/Shear to the surface, lbf, at vacuum	•	Volume	Min. curve radius	Weight	
		18-inHg	27-inHg	18-inHg	27-inHg	in^3	in	oz	
FCF25P	Oily steel plate	4.27 (4.27*)	6.52 (6.29*)	1.12 (1.57*)	1.62 (2.25*)	0.34	1.06	0.36	
FCF35P	Oily steel plate	7.64 (9.44*)	11.2 (13.0*)	5.85 (6.74*)	7.19 (9.44*)	0.31	1.57	0.67-1.48	
FCF50P	Oily steel plate	16.2 (17.5*)	22.7 (23.8*)	11.7 (17.3*)	15.7 (23.6*)	0.61	1.97	1.09-2.36	
FCF75P	Oily steel plate	36.6 (38.4*)	51.3 (53.1*)	23.4 (37.3*)	31.2 (47.4*)	1.83	3.94	2.12-3.21	
FCF100P	Oily steel plate	53.0 (78.0*)	67.0 (110*)	31.2 (75.8*)	46.1 (109*)	4.27	5.91	3.25-6.03	
FCF125P	Oily steel plate	91.0 (107*)	99.4 (146*)	43.6 (100*)	53.1 (135*)	6.10	5.91	5.33-9.88	
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Values valid for steel sheet with surface finish R_a 1 and 2-3g/m² of press oil. *) Dry metal sheet

Material specifications			
Material	Color	Hardness, °Shore A	Temperature range, °F
Polyurethane, PU55	Orange	55	50–122
Polyurethane, PU60	Green transparent	60	50–122

Material resis	stance							
Wear resistance	Oil	Weather & ozone	Hydrolysis	Gasoline	Concentrated acids	Ethanol	Methanol	Oxidation
Excellent	Excellent	Excellent	Fair	Fair	Fair	Fair	Poor	Poor

Measurements suction cups with fitting [in]									
	FCF25P	FCF35P				FCF50P			
	A	В С		D	Е	В	С	D	Е

1	0.98	1.38	1.38	1.38	1.38	1.97	1.97	1.97	1.97
2	_	0.75	_	_	_	0.94	_	_	_
3	1.10	1.14	1.14	1.38	1.88	1.34	1.22	1.44	1.96
Max. vertical movement	0.08	0.08	0.08	0.08	0.08	0.12	0.12	0.12	0.12
Max. expanding lip	1.06	1.50	1.50	1.50	1.50	2.13	2.13	2.13	2.13

Measurements suction cups with fitting [in]															
	FCF75P				FCF100P				FCF125P						
	В	С	D	Е	F	В	С	D	Е	F	В	С	D	Е	F
1	2.95	2.95	2.95	2.95	2.95	3.94	3.94	3.94	3.94	3.94	4.96	4.96	4.96	4.96	4.96
2	0.87	_	_	_	_	1.02	_	_	_	_	1.26	_	_	_	_
3	1.22	1.34	1.61	1.61	1.344	1.42	1.54	1.77	1.76	1.61	1.65	1.77	2.02	2.00	1.73
Max. vertical movement,	0.16	0.16	0.16	0.16	0.16	0.24	0.24	0.24	0.24	0.24	0.31	0.31	0.318	0.31	0.31
Max. expanding lip	3.11	3.11	3.11	3.11	3.11	4.13	4.13	4.13	4.13	4.13	5.20	5.20	5.20	5.20	5.20

Orde	ering information	
	Suction cups with fitting	Part No.
Α	Suction cup FCF25P Polyurethane 55/60, G3/8" male, 1/8" NPSF female	FCF25P.4R.G68W
В	Suction cup FCF35P Polyurethane 55/60, G3/8" male, with mesh filter	FCF35P.4R.O4UF
С	Suction cup FCF35P Polyurethane 55/60, G3/8" female	FCF35P.4R.04UA
D	Suction cup FCF35P Polyurethane 55/60, G3/8" female, 17 mm thread	FCF35P.4R.G67W
С	Suction cup FCF35P Polyurethane 55/60, 3/8" NPT female	FCF35P.4R.04UN
Е	Suction cup FCF35P Polyurethane 55/60, M10x1.5 male	FCF35P.4R.M10M
В	Suction cup FCF50P Polyurethane 55/60, G3/8" male, with mesh filter	FCF50P.4R.05UF
С	Suction cup FCF50P Polyurethane 55/60, G3/8" female	FCF50P.4R.05UA
D	Suction cup FCF50P Polyurethane 55/60, G3/8" female, 17 mm thread	FCF50P.4R.G66W
С	Suction cup FCF50P Polyurethane 55/60, 3/8" NPT female	FCF50P.4R.05UN
Е	Suction cup FCF50P Polyurethane 55/60, M10x1.5 male	FCF50P.4R.M10M
В	Suction cup FCF75P Polyurethane 55/60, G3/8" male, with mesh filter	FCF75P.5R.G45M
С	Suction cup FCF75P Polyurethane 55/60, G3/8" female	FCF75P.5R.G45W
D	Suction cup FCF75P Polyurethane 55/60, G3/8" female, 17 mm thread	FCF75P.5R.G65W
F	Suction cup FCF75P Polyurethane 55/60, G3/8" female, plastic thread	FCF75P.5RC.G56WC
С	Suction cup FCF75P Polyurethane 55/60, 3/8" NPT female	FCF75P.5R.N47W
Е	Suction cup FCF75P Polyurethane 55/60, M10x1.5 male	FCF75P.5R.M10M
В	Suction cup FCF100P Polyurethane 55/60 G3/8" male, with mesh filter	FCF100P.5R.G40M
С	Suction cup FCF100P Polyurethane 55/60, G3/8" female	FCF100P.5R.G46W
D	Suction cup FCF100P Polyurethane 55/60, G3/8" female, 17 mm thread	FCF100P.5R.G62W
F	Suction cup FCF100P Polyurethane 55/60, G3/8" female, plastic thread	FCF100P.5RC.G56WC
С	Suction cup FCF100P Polyurethane 55/60, 3/8" NPT female	FCF100P.5R.N48W
Е	Suction cup FCF100P Polyurethane 55/60, M10x1.5 male	FCF100P.5R.M10M
В	Suction cup FCF125P Polyurethane 55/60, G3/8" male, with mesh filter	FCF125P.5R.G40M
С	Suction cup FCF125P Polyurethane 55/60, G3/8" female	FCF125P.5R.G46W
D	Suction cup FCF125P Polyurethane 55/60, G3/8" female, 17 mm thread	FCF125P.5R.G62W
F	Suction cup FCF125P Polyurethane 55/60, G3/8" female, plastic thread	FCF125P.5RC.G56WC
С	Suction cup FCF125P Polyurethane 55/60, 3/8" NPT female	FCF125P.5R.N48W
Е	Suction cup FCF125P Polyurethane 55/60, M10x1.5 male	FCF125P.5R.M10M

