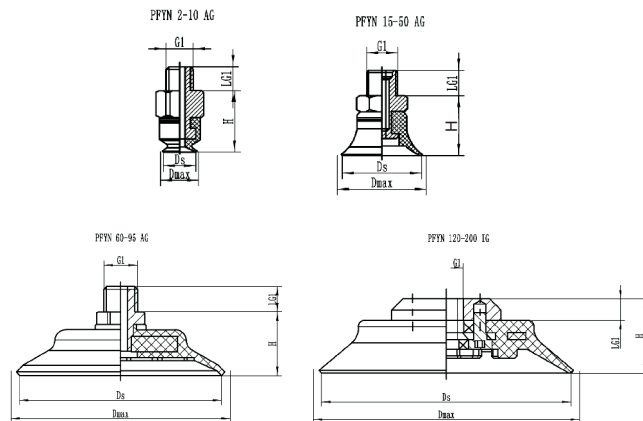


Vacuum Cups PFYN Series(Flat type)

NEW



Model	Suction force (N) ⁽¹⁾	Recommended Vacuum Tubes Inner Diameter(mm)	G1 (mm)	Ds (mm)	Dmax (mm)	H (mm)	LG1 (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
PFYN-2-...	0.12	2	M5-M	2.0	2.5	6.0	3.0	7.Y02131	7.Y02147	7.Y02163	1g
PFYN-3.5-...	0.42	2	M5-M	3.5	4.0	6.0	3.0	7.Y02132	7.Y02148	7.Y02164	1g
PFYN-5-...	0.75	2	M5-M	5.0	5.5	11.5	4.5	7.Y02133	7.Y02149	7.Y02165	1g
PFYN-6-...	1.2	2	M5-M	6.0	6.5	11.5	4.5	7.Y02134	7.Y02150	7.Y02166	1g
PFYN-8-...	2.3	2	M5-M	8.0	9.0	12.0	4.5	7.Y02135	7.Y02151	7.Y02167	1g
PFYN-10-...	4.0	2	M5-M	10.0	11.5	12.5	4.5	7.Y02136	7.Y02152	7.Y02168	4g
PFYN-15-...	9.0	4	G1/8-M	15.0	17.5	13.0	8.0	7.Y02137	7.Y02153	7.Y02169	5g
PFYN-20-...	15.5	4	G1/8-M	20.0	23.0	15.0	8.0	7.Y02138	7.Y02154	7.Y02170	6g
PFYN-25-...	26.5	4	G1/8-M	25.0	27.5	19.0	8.0	7.Y02139	7.Y02155	7.Y02171	7g
PFYN-30-...	34.0	4	G1/8-M	28.8	31.5	17.0	8.0	7.Y02140	7.Y02156	7.Y02172	8g
PFYN-35-...	44.0	4	G1/8-M	35.0	38.0	19.0	8.0	7.Y02141	7.Y02157	7.Y02173	11g
PFYN-40-...	57.7	4	G1/8-M	40.0	43.0	19.0	8.0	7.Y02142	7.Y02158	7.Y02174	12g
PFYN-50-...	91.0	4	G1/8-M	50.0	53.5	20.0	8.0	7.Y02143	7.Y02159	7.Y02175	15g
PFYN-60-...	125.0	6	G1/4-M	60.0	64.0	23.0	10.0	7.Y02144	7.Y02160	7.Y02176	34g
PFYN-80-...	260.0	6	G1/4-M	80.0	86.0	25.0	10.0	7.Y02145	7.Y02161	7.Y02177	63g
PFYN-95-...	350.0	6	G1/4-M	95.0	102.0	25.5	10.0	7.Y02146	7.Y02162	7.Y02178	102g
PFYN-120-...	540.0	9	G1/2-F	120.0	124.0	36.5	13.0	1.Y12969	1.Y12988	-	353g
PFYN-150-...	842.0	9	G1/2-F	147.5	158.0	45.5	13.0	1.Y12970	1.Y12989	1.Y13008	521g
PFYN-200-...	1498.0	9	G1/2-F	193.0	222.0	50.5	13.0	1.Y12971	1.Y12990	-	785g

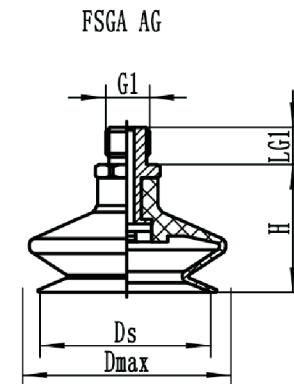
(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black

Vacuum Cups FSGA Series(Bellows type/2 layers)

NEW



Model	Suction force (N) ⁽¹⁾	Pull-off force (N) ⁽¹⁾⁽²⁾	Recommended Vacuum Tubes Inner Diameter(mm)	G1 (mm)	Ds (mm)	Dmax(S) (mm)	H (mm)	LG1 (mm)	NBR-55 (Black)	SI-55 (Translucent)	HT1-60 (Blue)	Weight
FSGA-6-...	0.4	1.4	4	M5-M	5.7	8.0	14.0	4.5	7.Y02179	7.Y02191	7.Y02203	2g
FSGA-11-...	0.95	3.8	4	M5-M	10.1	13.0	21.0	5.0	7.Y02180	7.Y02192	7.Y02204	2g
FSGA-14-...	1.2	5.0	4	M5-M	12.5	14.5	20.5	5.0	7.Y02181	7.Y02193	7.Y02205	2g
FSGA-16-...	2.3	6.7	4	G1/8-M	15.6	18.5	25.2	7.5	7.Y02182	7.Y02194	7.Y02206	5g
FSGA-20-...	4.7	10.7	4	G1/8-M	18.1	21.0	21.2	7.5	7.Y02183	7.Y02195	7.Y02207	5g
FSGA-22-...	5.7	15.2	4	G1/8-M	21.5	25.0	25.0	7.5	7.Y02184	7.Y02196	7.Y02208	6g
FSGA-25-...	5.3	17.3	4	G1/8-M	22.5	26.5	29.0	7.5	7.Y02185	7.Y02197	7.Y02209	6g
FSGA-33-...	13.6	39.6	6	G1/4-M	30.0	38.0	31.0	11.0	7.Y02186	7.Y02198	7.Y02210	16g
FSGA-43-...	22.8	64.5	6	G1/4-M	38.0	47.5	31.6	11.0	7.Y02187	7.Y02199	7.Y02211	19g
FSGA-53-...	51.3	95.0	6	G1/4-M	50.0	60.0	38.0	11.0	7.Y02188	7.Y02200	7.Y02212	27g
FSGA-63-...	85.0	135.0	6	G1/4-M	60.0	68.0	38.0	11.0	7.Y02189	7.Y02201	7.Y02213	34g
FSGA-78-...	137.4	218.0	6	G1/4-M	74.0	84.5	53.0	11.0	7.Y02190	7.Y02202	7.Y02214	71g

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
SI-55: Translucent Silicone	50	+++	-	-	-	-40 to 220	Translucent
HT1-60: Siton [®] Specialized composites (non-marking)	60	+	++	-	++	-25 to 170	Blue
NBR-55: Nitrile Nitrile rubber	60	+	+	-	++	-30 to 120	Black