

BARRELS & PISTONS



Volume	HAS	HBS	HCS	HPE	HPE-RB
Color	Amber	Black	Clear	White	Black (Rubber)
03cc	HAS03	HBS03	HCS03	HPE03	HPE03RB
05cc	HAS05	HBS05	HCS05	HPE05	HPE05RB
10cc	HAS10	HBS10	HCS10	HPE10	HPE10RB
30cc	HAS30	HBS30	HCS30	HPE30/55	HPE30/55RB
55cc	HAS55	HBS55	HCS55	HPE55/55	HPE55/55RB

Operating Pressure: Max 100psi

Tips:

- 1) Amber barrel (**HAS** series) is used to store UV light sensitive fluid (200-500nm)
- 2) Black barrel (**HBS** series) is used to store UV & visible light sensitive fluid
- 3) Clear barrel (**HCS** series) is used to store any kind of fluids

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HND-TIPS (BLUNT END)



The **HND** needle series consist of a stainless-steel shaft with a double helix polypropylene hub. This premier line of dispensing needles is **burr-free**, and **electro-polished shaft** for unobstructed and consistent material flow. In addition they are **silicone and chloride free**. Designed to dispense most viscosity fluids and adhesives and **safe for use to 100 psi**.



Gauge	0.25"	5/16" (0.31")	0.5"	1.0"	1.5"	color	ID (mm)
14G	HND1425	HND1431	HND1405	HND1410	HND1415	Oliver	1.50
15G	HND1525	HND1531	HND1505	HND1510	HND1515	Amber	1.37
16G	-	-	HND1605	HND1610	-	Grey	1.20
17G	-	-	HND1705	-	-	White	1.04
18G	HND1825	HND1831	HND1805	HND1810	HND1815	Green	0.84
19G	-	-	HND1905	-	-	Black	0.70
20G	HND2025	HND2031	HND2005	HND2010	HND2015	Pink	0.60
21G	HND2125	HND2131	HND2105	HND2110	HND2115	Purple	0.51
22G	HND2225	HND2231	HND2205	HND2210	HND2215	Blue	0.41
23G	HND2325	HND2331	HND2305	HND2310	HND2315	Orange	0.33
24G	-	-	HND2405	-	-	Light blue	0.30
25G	HND2725	HND2531	HND2505	HND2510	HND2515	Red	0.25
26G	-	-	HND2605	-	-	Peach	0.24
27G	HND2525	HND2731	HND2705	HND2710	HND2715	Clear	0.20
28G	-	-	HND2805	-	-	White grey	0.19
30G	HND3025	HND3031	HND3005	HND3010	-	Lavender	0.15
32G	HND3225	HND3231	HND3205	-	-	Yellow	0.10
34G	HND3425	-	HND3405	HND3410	HND3415	Dark Green	0.08



HAD-TIPS (ANGLE)



Gauge	0.5", 45 Degree	0.5", 90 Degree	1.0", 45 Degree	1.0", 90 Degree	Color
14G	HAD140545	HAD140590	HAD141045	HAD141090	Oliver
15G	HAD150545	HAD150590	HAD151045	HAD151090	Amber
16G	HAD160545	HAD160590	HAD161045	HAD161090	Grey
17G	HAD170545	HAD170590	-	-	White
18G	HAD180545	HAD180590	HAD181045	HAD181090	Green
19G	HAD190545	HAD190590	-	-	Black
20G	HAD200545	HAD200590	HAD201045	HAD201090	Pink
21G	HAD210545	HAD210590	HAD211045	HAD211090	Purple
22G	HAD220545	HAD220590	HAD221045	HAD221090	Blue
23G	HAD230545	HAD230590	HAD231045	HAD231090	Orange
24G	HAD240545	HAD240590	-	-	Light blue
25G	HAD250545	HAD250590	HAD251045	HAD251090	Red
26G	HAD260545	HAD260590	-	-	Peach
27G	HAD270545	HAD270590	HAD271045	HAD271090	Clear
28G	HAD280545	HAD280590	-	-	White grey
30G	HAD300545	HAD300590	HAD301045	HAD301090	Lavender



HTD-TIPS (TAPERED)

Gauge	Standard	Soft	Color	UV Safe Black
14G	HTD14	HTD14PE	Olive	HTD14B
16G	HTD16	HTD16PE	Grey	HTD16B
18G	HTD18	HTD18PE	Green	HTD18B
20G	HTD20	HTD20PE	Pink	HTD20B
22G	HTD22	HTD22PE	Blue	HTD22B
25G	HTD25	HTD25PE	Red	HTD25B
27G	-	-	-	HTD27B



HFD-TIPS (FLEXIBLE)



Gauge	0.5"	1.5"	Color	ID (mm)
14G	HFD1405	HFD1415	Olive	1.55
15G	HFD1505	HFD1515	Amber	1.30
18G	HFD1805	HFD1815	Green	0.84
20G	HFD2005	HFD2015	Pink	0.60
21G	HFD2105	HFD2115	Purple	0.50
22G	HFD2205	HFD2215	Blue	0.41
25G	HFD2505	HFD2515	Red	0.32

HMD-TIPS (MOLDED FLEXIBLE)

Gauge	0.5"	1.5"	Color	ID (mm)
18G	HMD1805	HMD1815	Pink	0.84
20G	HMD2005	HMD2015	Yellow	0.60
25G	HMD2505	HMD2515	White	0.32



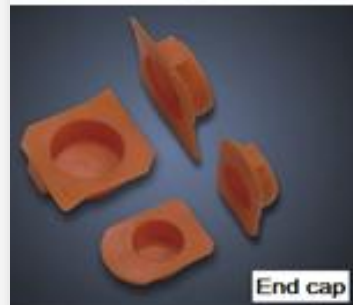
HTL-TIPS (TEFLON LINED)

Gauge	0.5"	1.0"	Color	ID (mm)
21G	HTL2105	HTL2110	Grey	0.50
25G	HTL2505	HTL2510	Pink	0.30



HTF-TIPS (TEFLON)

Gauge	5/16" (0.31")	0.5"	Color	ID mm
14G	HTF1431	HTF1405	Oliver	1.50
15G	HTF1531	HTF1505	Amber	1.37
16G	HTF1631	HTF1605	Grey	1.20
17G	HTF1731	HTF1705	White	1.04
18G	HTF1831	HTF1805	Green	0.84
19G	HTF1931	HTF1905	Black	0.70
20G	HTF2031	HTF2005	Pink	0.60
21G	HTF2131	HTF2105	Purple	0.51
22G	HTF2231	HTF2205	Blue	0.41
25G	HTF2531	HTF2505	Red	0.32



BARREL ADAPTORS, END CAPS, TIP CAPS

Volume	Barrel Adaptor	End Cap	Tip Cap
03cc	HBA03	HEC03	HTC
05cc	HBA05	HEC05	HTC
10cc	HBA10	HEC10	HTC
30cc	HBA30/55	HEC30	HTC
55cc	HBA30/55	HEC55	HTC

