

Technical Data Sheet

Products for precise dispensing

Syringes, nozzles, needles and accessories

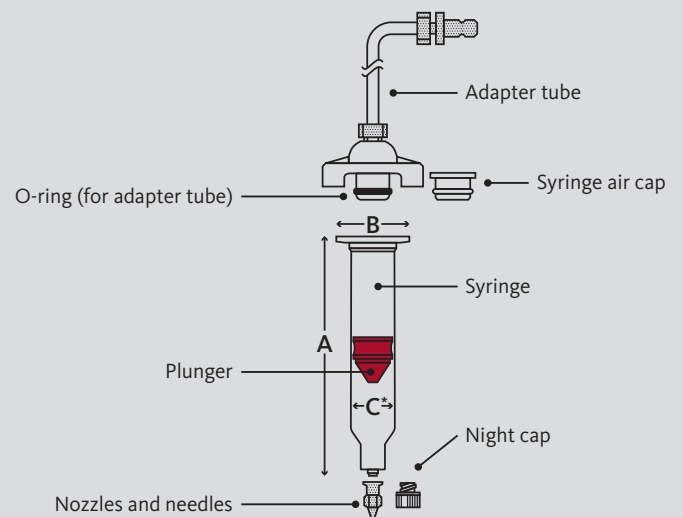


Dispensing technology of highly developed standard

Werner Wirth offers genuinely superb products for precise dispensing. They stand out with extremely high precision, quality and reliability that are unrivalled around the world and can only be developed and produced thanks to extensive dispensing technology know-how.

Syringes and accessories

The syringes in our range guarantee extremely easy passage and smooth plunger movement without any bucking. The result is precise dispensing with enhanced quality and efficiency.



C*: Outer dimensions

Clear syringes

This syringe permits ideal dispensing with outstanding fluid flow properties. Uniformly smooth inner walls, therefore no blocking.

Syringe size	Type-F	Type-E	Dimensions (AxBxC in mm)	PU
3 ml	–	PSY-3E	80,1 x 24,3 x Ø11,7	50
5 ml	–	PSY-5E	80 x 27 x Ø 14,9	50
10 ml	–	PSY-10E	105 x 32 x Ø 18,3	50
20 ml	NEW: PSY-20F	–	104,8 x 45 x Ø 26,2	50
30 ml	NEW: PSY-30F	–	129,7 x 45 x Ø 26,2	50
50 ml	NEW: PSY-50F	–	160,7 x 45 x Ø 26,2	50
70 ml	NEW: PSY-70F	–	223,7 x 45 x Ø 26,5	50
100 ml	–	PSY-100E	191 x 60 x Ø 35,8	20



Syringes with UV blocker

World innovation: these special syringes are made of polypropylene and offer 100% protection from UV radiation while still being transparent to make it easy to see the residue of amount of material.

Syringe size	Type-F	Type-E	Dimensions (AxBxC in mm)	PU
3 ml	–	PSY-3EU-OR	80 x 24,3 x Ø11,7	50
5 ml	–	PSY-5EU-OR	80 x 27 x Ø 14,9	50
10 ml	–	PSY-10EU-OR	105,3 x 32 x Ø 18,3	50
20 ml	–	PSY-20EU-OR	105 x 45 x Ø 26,1	50
30 ml	NEW: PSY-30FU-OR	–	129,7 x 45 x Ø 26,2	50
50 ml	NEW: PSY-50FU-OR	–	160,7 x 45 x Ø 26,1	50
70 ml	NEW: PSY-70FU-OR	–	223,7 x 45 x Ø 26,4	50



Adapter tube (limit stop)

The adapter tubes connect the dispenser with the syringe. They are easily fitted and enormously robust, even when dispensing fluids under pressure.

Syringe size	Model	Tube length
1 ml	AT-1E ^{1,2}	1 m
3 ml	AT-3E-H-1.0M	1 m
5 ml	AT-5E-H-1.0M	1 m
10 ml	AT-10E-H-1.0M	1 m
20 – 70 ml	AT-50E-H-1.0M	1 m
5 ml (für Σ)	AT-5E-H-SIGMA-1.0M	1 m
10 ml (für Σ)	AT-10E-H-SIGMA-1.0M	1 m
20 – 70 ml (für Σ)	AT-50E-H-SIGMA-1.0M	1 m
100 ml	AT-100E ²	1 m

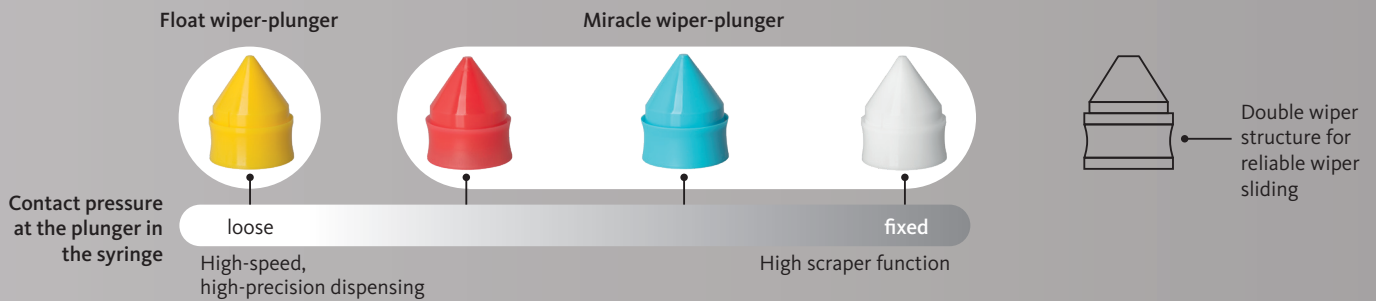
- Adapter material: polyacetal (AT-100E: made of aluminium alloy)
- Tube material: vinyl chloride (Σ-series dispensers: polyurethane)
- O-ring material: fluoroelastomer



Note: please state the tube length (in 0.5 m steps) when placing your order. For example, when ordering a side connection adapter (with stopper) with tube length 1.5 m for a 10 ml syringe: "AT-10E-H-1.5M". Please consult our Sales Department if you need an adapter tube longer than 1 m for Σ-series dispensers.

¹ AT-1E is intended specially for PSY-1E2-M.

² Products AT-1E and AT-100E do not have a stopper.



Plunger

These plungers are inserted in the syringes for complete emptying and high-precision dispensing.

- Four versions for different properties and uses of the dispensing agent
- Reduced reject rate thanks to high-precision dispensing
- Reduced material costs

Syringe size	Float wiper-plunger (yellow) / model	Miracle wiper-plunger (red) / model	Miracle wiper-plunger (blue) / model	Miracle wiper-plunger (white) / model	Packaging unit (PU)
1 ml	FLP-1E*	-	-	-	50
3 ml	FLP-3E	-	-	-	50
5 ml	FLP-5E	MLP-R-5E	MLP-B-5E	MLP-5E	50
10 ml	FLP-10E	MLP-R-10E	MLP-B-10E	MLP-10E	50
20 – 70 ml	FLP-50E	MLP-R-50E	MLP-B-50E	MLP-50E	50

Material: polyethylene

* FLP-1E is intended specially for syringe type PSY-1E2-M.

Nozzles and needles

The dispensing nozzles and needles in our range guarantee high-precision dispensing. State-of-the-art computers were used to develop their unique design. They are produced in highest quality with sophisticated processing technology.

Versatile metal needles

Stainless steel metal needles have a huge service life.

- Material of the cannulas: stainless steel
- Material of the cannula holders: nickel-plated brass



Gauge size	Needle length 13 mm / model	Needle length 15 mm / model	Needle outer diameter	Needle inner diameter	Packaging unit (PU)
12	SNA-12G-B	SNA-12G-C	2,77	2,27	60
13	SNA-13G-B	SNA-13G-C	2,40	1,94	60
14	SNA-14G-B	SNA-14G-C	2,10	1,64	60
15	SNA-15G-B	SNA-15G-C	1,83	1,43	60
16	SNA-16G-B	SNA-16G-C	1,65	1,25	60
17	SNA-17G-B	SNA-17G-C	1,49	1,11	60
18	SNA-18G-B	SNA-18G-C	1,28	0,92	60
19	SNA-19G-B	SNA-19G-C	1,08	0,72	60
20	SNA-20G-B	SNA-20G-C	0,91	0,61	60
21	SNA-21G-B	SNA-21G-C	0,82	0,52	60
22	SNA-22G-B	SNA-22G-C	0,72	0,42	60
23	SNA-23G-B	SNA-23G-C	0,64	0,34	60
24	SNA-24G-B	SNA-24G-C	0,57	0,31	60
25	SNA-25G-B	SNA-25G-C	0,52	0,26	60
26	SNA-26G-B	SNA-26G-C	0,46	0,25	60
27	SNA-27G-B	SNA-27G-C	0,42	0,21	60
28	SNA-28G-B	SNA-28G-C	0,36	0,18	60
30	SNA-30G-B	SNA-30G-C	0,32	0,14	60

Note: when stating the needle length, please indicate the tube length (from bottom end of needle holder to syringe). Please contact our Sales Department with detailed queries.

Plastichub needle with double threaded screw

The plastic needles have a double threaded screw to guarantee safe, firm installation on the syringe.

- Material of the cannulas: stainless steel
- Material of the cannula holders: polypropylene



Gauge size	Needle length 6,4 mm model	Needle length 12,7 mm model	Needle length 25,4 mm model	Needle length 38,1 mm model	Outside diameter	Inside diameter	Colour	Packaging unit (PU)
14	-	DPN-14G-1	DPN-14G-2	DPN-14G-3	1,83	1,52	dark green	50
15	-	DPN-15G-1	DPN-15G-2	DPN-15G-3	1,65	1,37	brown	50
18	-	DPN-18G-1	DPN-18G-2	DPN-18G-3	1,27	0,84	green	50
20	-	DPN-20G-1	DPN-20G-2	DPN-20G-3	0,91	0,58	rose	50
21	-	DPN-21G-1	DPN-21G-1	DPN-21G-3	0,81	0,51	violet	50
22	-	DPN-22G-1	DPN-22G-2	DPN-22G-3	0,71	0,41	blue	50
23	-	DPN-23G-1	DPN-23G-2	DPN-23G-3	0,64	0,33	orange	50
25	-	DPN-25G-1	DPN-25G-2	DPN-25G-3	0,51	0,25	red	50
27	-	DPN-27G-1	-	-	0,41	0,20	transparent	50
30	-	DPN-30G-1	-	-	0,30	0,15	pale lilac	50
32	DPN-32G-0	DPN-32G-1	-	-	0,23	0,10	yellow	50

Taper tip double threaded nozzles

Ideal for dispensing high viscosity media: the conical shape allows for an excellent flow.

- Material polyethylene

Gauge size	Model	Nozzle inner diameter (Ø)	Colour	UV protection	PU
12	NEW: TPND-12G-U	2,40	red	•	50
14	TPND-14G-U	1,60	pale orange	-	50
16	TPND-16G-U	1,19	grey	-	50
18	TPND-18G-U	0,84	pale green	-	50
20	TPND-20G-U	0,61	rose	-	50
22	TPND-22G-U	0,40	blue	-	50
25	TPND-25G-U	0,25	pink	-	50
27	NEW: TPND-27G-U	0,20	dark grey	•	50
30	NEW: TPND-27G-U	0,15	olive green	•	50

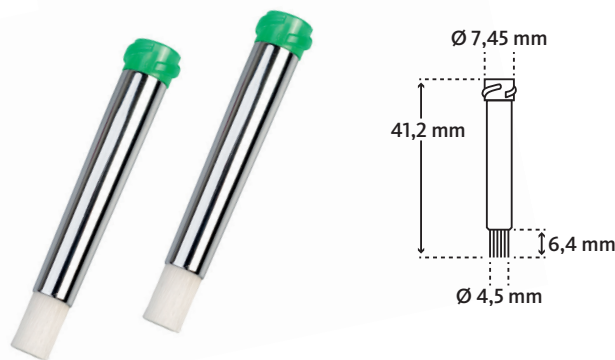


Dispensing brush

The dispensing brushes are ideal for dispensing on a large surface, which is difficult with needles. The double thread ensures that the nozzles are fitted firmly to the syringe. The brushes are available in two hardnesses: standard and soft.

- Brush material: solvent-resistant polyester fibres
- Material other components: polyethylene, others

Modell	Brush version	Brush material	PU
BN-S1	standard	polyester fibre	1
BN-S2	soft	polyester fibre	1



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