

NOVA NSE Series

The New generation of Wall-Mounting Pumps! Basic Line



NOVA NSE SERIES is a line of professional electromagnetic pumps, designed for wall installation. The excellent-level electronics and hydraulics allow simple, but highly reliable dosing functions. The standard version is equipped with a power cable with Schuko plug.

AVAILABLE MODELS

- **NOVA NSE150:** ON/OFF pump with no external command, basic model
- **NOVA NSE155:** ON/OFF pump with no external command, with input for level switch
- **NOVA NSE157:** Pump with pulse command from volumetric water meter, and input for level switch

MAIN TECHNICAL FEATURES

- Interface with red LED display
- Internal system for **overheating control / safety**
- Dosing chamber with **anti-leakage system** towards the magnet
- Housing with **V-0 flame classification**
- Standard power supply 230 V~, cable with Schuko plug; on request, power supply 115 V~, cable with type B plug; other plug types available on request

Each pump is supplied with standard accessory kit (foot filter; injection valve; suction, injection and bleeding hoses) and kit of fittings; the NSE157 model is also provided with a cable M8 connector for the CONTROL input wiring.

TECHNICAL DATA

Power Supply	standard: 230 V~, 50/60 Hz, cable with Schuko plug (other plugs available); on request: 115 V~, 50/60 Hz, cable with type B plug (other plugs available)	
Protection	fuse 5x20, F2A @ 230 V~	
Display	3-digit, high-efficiency red LED	
Frequency	adjustable, from 1 to 180 strokes / minute	
Materials	PP housing charged with glass fibre; PVDF dosing head (even with self-bleeding option), high-quality EPDM diaphragm with fabric reinforcement, steel core and PTFE coating on the side in contact with the liquid; PTFE (FPM, EPDM) seals; ceramic ball valves (PTFE balls on request)	
Viscosity of Dosed Product	0 ... 200 mPas (cP), standard dosing head 200 ... 500 mPas (cP), head with spring valve, available on request	
Environment	Storage temperature	-20 ... +60 °C
	Working Temperature	-10 ... +45 °C (no freezing liquids)
	RH	max 92 % no condensing
Protection rate	IP65	
Dimensions / Weight	226 x 115 x 175 mm (wirings excluded) / approx. 2.8 kg	

Inputs (depending on model)

Wirings are performed through connectors entirely in plastic material with IP65 sealing, thus avoiding any possible oxidation.

LEV Input	(NSE155 and NSE157) available on M8 connector; input from level switch, accepts voltage-free contact
CONTROL Input	(NSE157) available on M8 connector; an impulsive signal from a volumetric water meter can be wired to this input; to put this input in parallel with other similar inputs of other pumps, use a specific signal splitter Note: If the pump is set to manual operation mode, you can connect an external consent command to this input.

Hydraulic Specifications for 230 V Version

Size	Flow Rate	Pressure max.	Volume per stroke	Hose ID x OD
	l/h	bar	ml	mm
B0220	2.04	20	0,19	4 x 6
C0512	5.58	12	0,52	4 x 6
D0808	8.04	8	0,74	5 x 8
E1504	15.30	4	1,41	5 x 8
F1903	18.60	3	1,72	9 x 12

Notes:

- These data refer to standard dosing heads, dosage of no viscous liquids, temperature 25°C, working frequency 180 strokes / minute.
- For pumps powered at 115 V, performances may slightly differ from data listed in tables and diagrams.
- For pumps with AS (self-bleeding) head, consider a flow rate yield reduced by 25-30%.

Size B0220

Working Pressure (bar)	0.5	4	8	12	16	20
Injection Volume (ml)	1.08	0.41	0.30	0.26	0.21	0.20
Flow Rate (l/h)	11.7	4.3	3.2	2.8	2.3	2.0

Size C0512

Working Pressure (bar)	0.5	4	8	12
Injection Volume (ml)	1.47	0.73	0.59	0.52
Flow Rate (l/h)	15.8	7.9	6.4	5.6

Size D0808

Working Pressure (bar)	0.5	4	8
Injection Volume (ml)	1.83	1.04	0.74
Flow Rate (l/h)	19.8	11.3	8.0

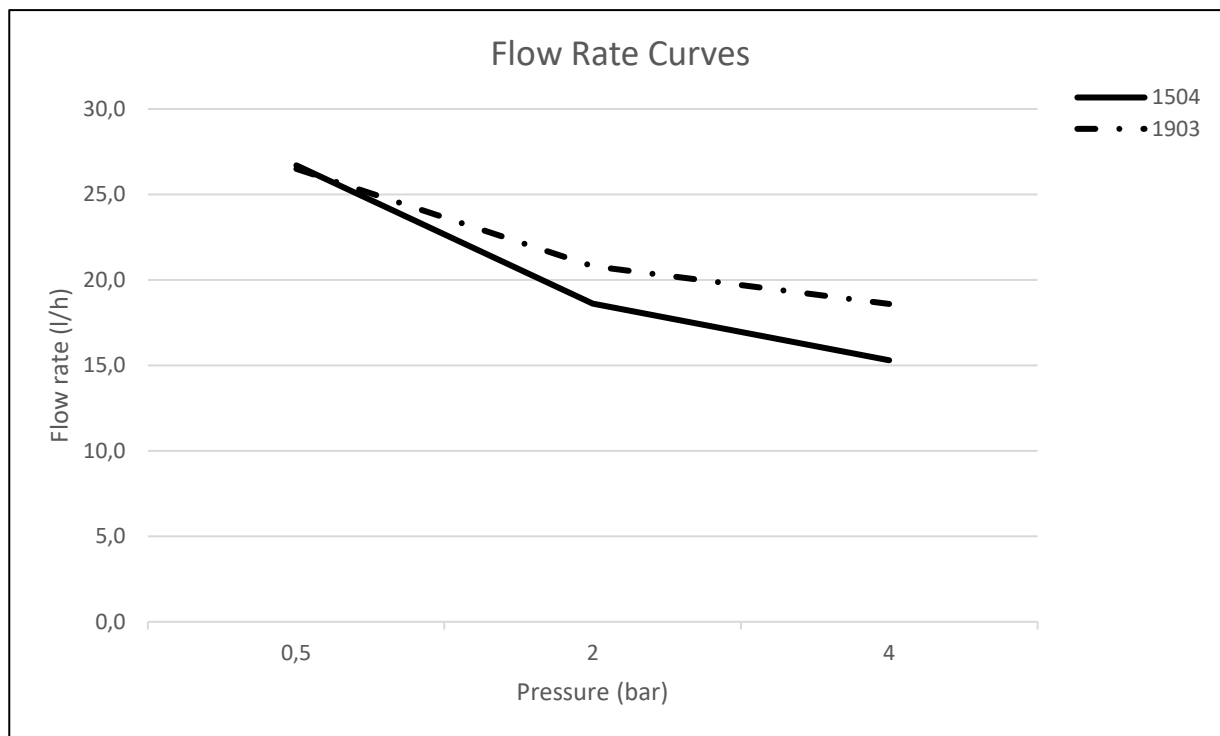
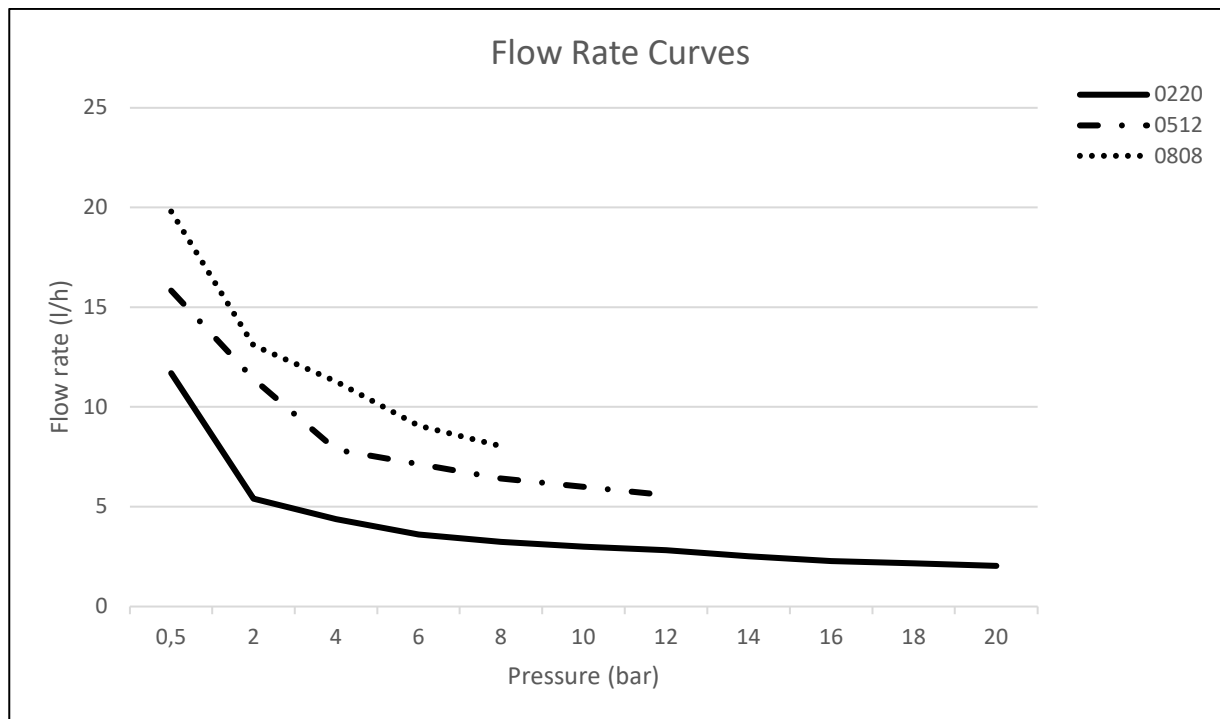
Size E1504

Working Pressure (bar)	0.5	2	4
Injection Volume (ml)	2.47	1.72	1.42
Flow Rate (l/h)	26.7	18.6	15.3

Size F1903

Working Pressure (bar)	0.5	2	3
Injection Volume (ml)	2.46	1.93	1.72
Flow Rate (l/h)	26.5	20.8	18.6

Flow Rate Curves at 230 V



CODING SYSTEM (standard options in bold):

91	Dosing Pumps of NOVA Series		
	Pump Model		
1	NSE150 – ON/OFF pump, basic model (no inputs)		
2	NSE155 – ON/OFF pump, basic model with level input		
3	NSE157 – Pump with pulse command and level input		
	Range		
00	Option not used		
	Flow Rate (l/h bar)		
	B0220 – 2.0 l/h @ 20 bar (hose 4x6)		
	C0512 – 5.6 l/h @ 12 bar (hose 4x6)		
	D0808 – 8.0 l/h @ 8 bar (hose 5x8)		
	E1504 – 15.3 l/h @ 4 bar (hose 5x8)		
	F1903 – 18.6 l/h @ 3 bar (hose 9x12)		
	Dosing Head		
2	PKT – PVDF with ceramic balls and PTFE (FPM, EPDM) seals		
3	PKT/AS – PKT with 2-way self-bleeding option (only sizes 0220 and 0512)		
4	MKV – methacrylate with ceramic balls and FPM seals (only sizes 0220 and 0512)		
5	PKT500-1 – PKT with spring valves, to dose viscous liquids up to 500 cP (flow rates ≤ 5 l/h)		
6	PKT500-2 – PKT with spring valves, to dose viscous liquids up to 500 cP (flow rates ≥ 7 l/h)		
8	PTT – PVDF with PTFE balls and PTFE (FPM, EPDM) seals		
9	PTT500-1 – PTT with spring valves, to dose viscous liquids up to 500 cP (flow rates ≤ 5 l/h)		
A	PTT500-2 – PTT with spring valves, to dose viscous liquids up to 500 cP (flow rates ≥ 7 l/h)		
B	PKTT/AS – PKT with “full PTFE” diaphragm and 2-way self-bleeding valve		
C	MKV/AS – MKV with 3-way self-bleeding option (only size 0220)		
D	MKVT/AS – MKV with “full PTFE” diaphragm and 3-way self-bleeding (only size 0220)		
	Hydraulic Accessory Kit		
0	Pump without accessories		
1	Standard kit	3	Standard kit + SLP5 probe
2	Accessory kit with PTFE hoses	4	Kit with PTFE hoses + SLP5 probe
	Power Supply / Plug		
OS	230 V~, 50/60 Hz, with Schuko plug	1B	115 V~, 50/60 Hz, with type B plug
OE	230 V~, 50/60 Hz, cable with English plug	1A	115 V~, 50/60 Hz, cable w/out plug
OA	230 V~, 50/60 Hz, cable without plug		
	Inputs		
0	No inputs (NSE150)		
1	Level input (NSE155)		
2	Level + external consent / pulse command (NSE157)		
	Outputs and Additional Options		
00	No option available		
	Colour		
A	Dark grey front, light grey housing		
	Software Language		
0	Standard messages		
	Language of the Documentation		
0	Multi-language manual		
6	No documentation provided		