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Dosing pump for production and process engineering applications

Simple assembly with connection kit Large range of viscosities Vertical stacking possible (see data sheet D-ABS1). Broad spectrum of delivery rates Volumetric dosing principle High delivery pressure Fluid supply by gravity Low wear High-precision dosing Elect. dosing volume adjustment Exact reproducibility of the delivery volume Plunger detection by means of light barrier LI: Liquid-intake LO: Liquid-outlet 115 20 P: Pneumatic connecto (5) 1 4 M3 (alternative (3 522 h9 አ Ø 68.5 Ø: 26.3 Ø24 Dosing pump (2) Servomotor (Infinitely quantity adjustment) (3) Forked photoelectric sensor (detection of the dosing stroke) Τ'n (4) Silencer X(2:1) (2) P (5) Plug / alternative: pneumatic connector (M5) LI Attachments for vertical stacking (included in delivery): \oplus Φ 6 (2x) Stud bolt (8) (1x) Seal disc Article-no: 10154 (7) (2x) Gasket).6 (4x) Ø12,8 (4x) Article-no: 10155 Article-no: 10156 ÌΡ Īυ, 024 Ø12,5 Ø12,5 Х M12x* 1,5 5 SN 7 /4-20 Ø7 Theoretical delivery data: 24 -180 [Hz] Turn knob setting -130 [Hz] -170 [Hz] -160 [Hz] -150 [Hz] -140 [Hz] Turn knob setting 5 5 4 4 -130 [Hz] -130 [Hz] -120 [Hz] -110 [Hz] 3 3 2 2 100 [Hz] -90 [Hz] -80 [Hz] 1 1 70 [Hz] 0 0 -60 [Hz] -50 [Hz] -40 [Hz] ſ 2 51 20 õ ŝ 20 6 25 60 80 100 120 140 160 180 220 220 240 260 280 300 320 340 360 380 Feed rates per actuation stroke [mm³] Delivery rate [ml/h] 30 [Hz]

Technical data:

Max. delivery volume:	35 mm ³ /stroke	Compressed air supply:	P = 4 - 6 bar
Max. delivery rate:	380 ml/h		Q _N = 50 – 150 l/min
Max. delivery pressure ¹⁾ :	67 bar (at 4 bar compressed air)		Unoiled and filtered, 10 µm
	200 bar (at 6 bar compressed air)	Fluid-contacting materials ³⁾ :	CuZn39Pb3 (Ms, nickel-plated)
Max. fluid feed pressure:	3 bar		FKM (Viton)
Max. pump frequency:	180 1/min ²⁾		1.4310 (stainless steel)
Viscosity range:	1 – 10.000 mPas	Other materials:	NBR
Operational temperature:	-20 to 65 °C		POM
Weight (incl. accessories):	880 g		Steel, galvanised
Supply voltage, motor:	max. 30 V DC	Connector plug, motor: Actuation:	M12x1; 5-pin; A-coded PLC
Supply voltage, forked light barrier:	5 to 24 V DC	Connection cable: Switching output:	4-wire; 1 m PNP

A back pressure must be continually maintained at the fluid outlet while the dosing pump is in operation. For this reason the following hose dimensions are recommended: inside diameter of fluid hose: Ø 1 to Ø 2.3 / length of fluid hose: >500 mm
A higher dosing pump frequency (e.g. >200 rpm) is possible for some applications. A consultation is absolutely essential!

Material variations are possible after consultation.