


Technical characteristics

- Flow rates: from 2,7 to 85 lph @ 50Hz
- Max Pressure: 120 bar
- Ambient temperature: -10 °C + 40 °C
- Max altitude: 1000 m (A.S.L.)
- Fluid operating temperature: -10 °C + 70 °C
- Viscosity up to 1000 cP (Higher on request)
- Stroke adjustment during operation from 0 to 100%
- Accuracy $\pm 1\%$ on the turndown ratio 10:1
- Built-in overpressure valve
- Double diaphragm and diagnostic of the rupture
- Diaphragm duration up to 20.000 hours, depending of the application
- Multiheads (up to six) solutions
- API 675 compliance
- CE marking
- ATEX  II 2 G c IIB T4 compliance
- Protection: IP 55
- Epoxy painting at 125 micron

nexa series includes plunger and hydraulic diaphragm dosing pumps designed in compliance with **API 675 Standards**; the conformity to the API Standards implies a “heavy duty” design, high safety and severe controls of the performances during the tests. The broad variety of heads execution offers a wide selection of dosing pumps to cover practically any application needs. In addition the full compliance with the **ATEX** European Directive gives the possibility to install these pumps in classified areas too.

Mechanism

Available in different sizes, they are mechanical return type, giving the maximum reliability in all working conditions.

General Specifications:

- Low noise integral gearbox, worm type, oil bath lubricated
- Reduced energy consumption based on low friction rolling bearings design
- High flexibility multiple mechanism solution to permit different piston speeds (SPM) on the same group
- Micrometric stroke length adjustment both manually and/or automatically actuated.
- Automatic stroke length variation by electrical servomotor, pneumatic actuator or frequency converter
- Linearity and repeatability in compliance with API 675 Standards.
- Easy “on field” installation of electrical servomotor on manual stroke adjustment mechanism.

Diaphragm Pumphead

- High capacity flexibility → On site easy volume changing by changing the piston cartridge
- Easy to change spares parts (all “one cartridge” solution).
- Maximum compatibility PTFE diaphragm
- Visual or remote diaphragm failure detection

PUMP KEY CODE

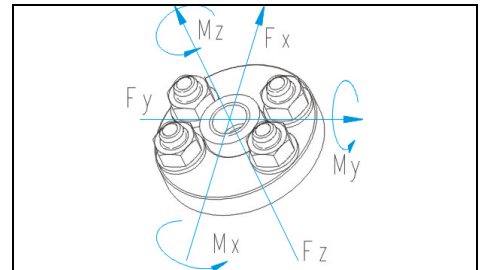
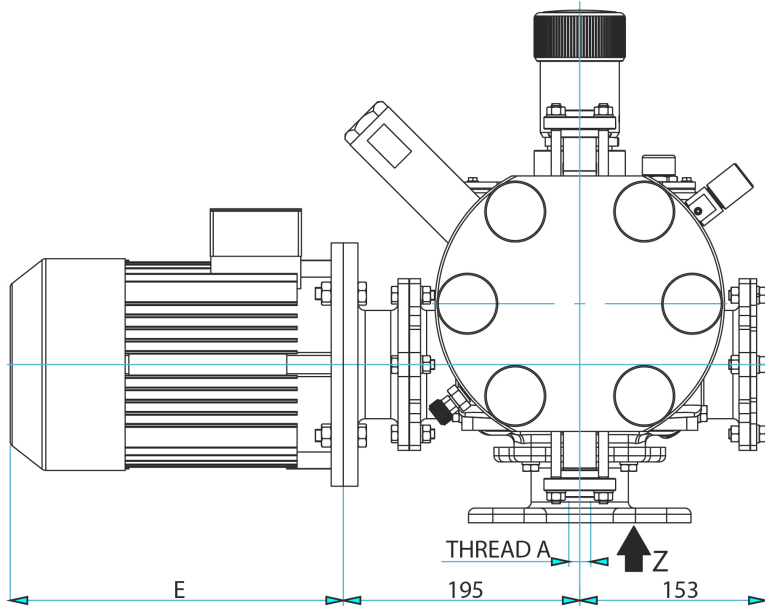
1°	Number of pump head				
1	Simplex pump				
2°	Type of pump head (double diaphragm or packed-plunger)				
T	Double diaphragm with built-in overpressure valve, air-bleed valve and mechanically actuated oil replenishing				
3°/4°	Plunger diameter				
08-30	from 08 to 30 mm				
5°/6°	Mechanism model				
N1	Stroke length 25 mm				
7°/8°	Pump head material				
2F	HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT
	316SS	PTFE	316SS	316SS	316SS
9°	Valve type				
B	Double balls				
10°	General options				
7	Standard execution				
11°	Flow rate adjustment				
M	Manual with adjustment knob (Standard execution)				
E	Electric actuator				
P	Pneumatic actuator				
12°	Gear ratio				
D	1:12				
F	1:15				
13°	Electric motors poles				
4	4 poles				
6	6 poles				
14°	Installed power				
E	0,55 kW				
F	0,75 kW				
G	1,10 kW				
15°	Pump head options				
V	Visual diaphragm failure detection (Standard execution)				
R	Remote diaphragm failure detection				
16°	Mechanism options				
0	Standard execution				
5	Compliance with regulation "ATEX" 94/4/CE II 2 G c.IIB T4 (for zone 1)				

1	T	08	N1	2F	B	7	M	D	6	F	V	0
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HYDRAULIC CHARACTERISTICS

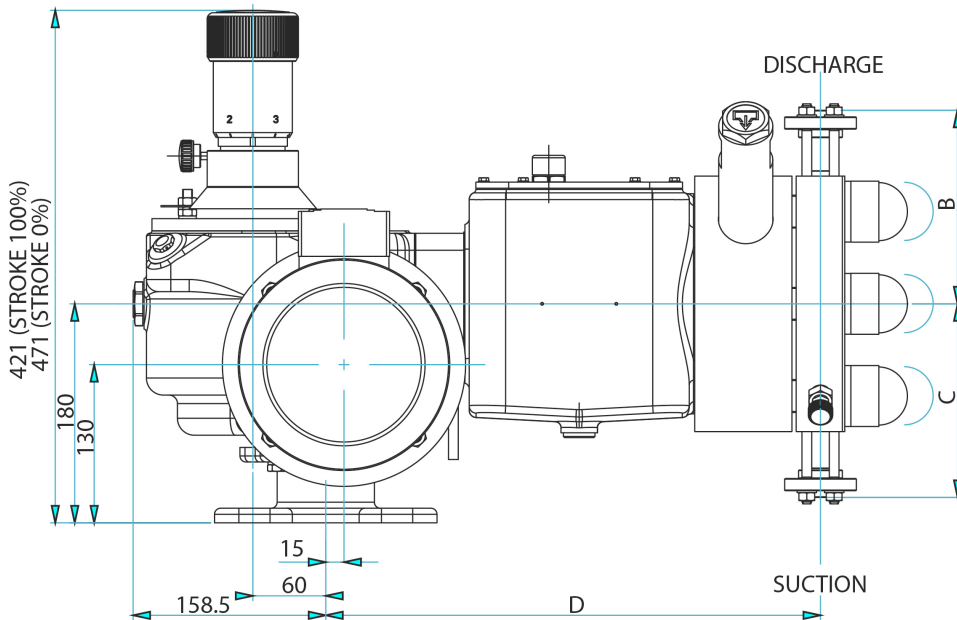
Prestazioni/Performances:		50 Hz		60Hz								Liquid end material		316L			
		2,7/85 120/68		l/h bar		gph p.s.i.		0.8/27 1740/986									
		Flow rate at max pressure		Max speed		Flow rate at max pressure		Max speed		Electric motor kW						Suc/Dis Connec	
										0,55 E		0,75 F		1,1 G			
Pump Model								Max pressure						Ø BSP		NPSHr [barg]	
		lph	gph	Strokes /min	lph	gph	Strokes /min	bar		p.s.i.		bar					
1T08N12FB7MF6EV0	2,7	0,7	62	3,2	0,8	74	120	1740	-	-	-	-	-	-	1/4" F	-0,45	
1T08N12FB7MD6EV0	3,7	1,0	78	4,4	1,2	94	120	1740	-	-	-	-	-	-	1/4" F	-0,45	
1T08N12FB7MF4EV0	4,6	1,2	93	5,5	1,5	112	120	1740	-	-	-	-	-	-	1/4" F	-0,45	
1T08N12FB7MD4EV0	6,0	1,6	117	7,2	1,9	140	120	1740	-	-	-	-	-	-	1/4" F	-0,45	
1T10N12FB7MF6EV0	5,7	1,5	62	6,8	1,8	74	120	1740	-	-	-	-	-	-	1/4" F	-0,50	
1T10N12FB7MD6EV0	7,1	1,9	78	8,5	2,2	94	120	1740	-	-	-	-	-	-	1/4" F	-0,50	
1T10N12FB7MF4EV0	8,5	2,2	93	10,2	2,7	112	120	1740	-	-	-	-	-	-	1/4" F	-0,50	
1T10N12FB7MD4EV0	10,6	2,8	117	12,7	3,4	140	120	1740	-	-	-	-	-	-	1/4" F	-0,50	
1T15N12FB7MF6EV0	14,0	3,7	62,0	16,8	4,4	74	120	1740	-	-	-	-	-	-	1/4" F	-0,40	
1T15N12FB7MD6EV0	17,6	4,6	78,0	21,1	5,6	94	120	1740	-	-	-	-	-	-	1/4" F	-0,40	
1T15N12FB7MF4EV0	21,0	5,5	93,0	25,2	6,7	112	120	1740	-	-	-	-	-	-	1/4" F	-0,40	
1T15N12FB7MD4EV0	26,5	7,0	117,0	31,8	8,4	140	120	1740	-	-	-	-	-	-	1/4" F	-0,40	
1T20N12FB7MF6FV0	25,0	6,6	62,0	30,0	7,9	74	-	-	120	1740	-	-	-	-	1/4" F	-0,45	
1T20N12FB7MD6FV0	31,5	8,3	78,0	37,8	10,0	94	-	-	120	1740	-	-	-	-	1/4" F	-0,45	
1T20N12FB7MF4GV0	37,5	9,9	93,0	45,0	11,9	112	-	-	-	-	120	1740	-	-	1/4" F	-0,45	
1T20N12FB7MD4GV0	47,2	12,5	117,0	56,6	15,0	140	-	-	-	-	120	1740	-	-	1/4" F	-0,45	
1T30N12FB7MF6FV0	54	14	62	65	17	74	-	-	68	986	-	-	-	-	1/2" F	-0,60	
1T30N12FB7MD6FV0	63	17	78	76	20	94	-	-	68	986	-	-	-	-	1/2" F	-0,60	
1T30N12FB7MF4GV0	72	19	93	86	23	112	-	-	-	-	68	986	-	-	1/2" F	-0,60	
1T30N12FB7MD4GV0	85	22	117	102	27	140	-	-	-	-	68	986	-	-	1/2" F	-0,60	

Test with water @ 20°C.

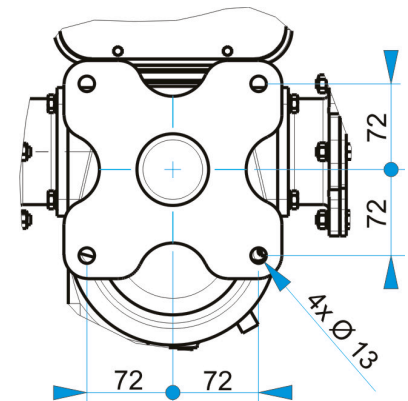


Allowable loads referred to pump nozzles

Fx	0.10 KN	Mx	0.04 KNm
Fy	0.12 KN	My	0.04 KNm
Fz	0.10 KN	Mz	0.04 KNm



FIXING HOLES – VIEW FROM Z



PUMP MDEL	DIMENSIONS [mm]				EXTIMATED WEIGHT Kg (without motor)
	A (EN10226)	B	C	D	
1T08N12FB..	BSPP 1/4"F	126	126	366	58
1T10N12FB..	BSPP 1/4"F	126	126	366	58
1T15N12FB..	BSPP 1/4"F	163	163	366	61
1T20N12FB..	BSPP 1/4"F	163	163	366	61
1T30N12FB..	BSPP 1/2"F	194	194	407	82

Electric motor size	4 Poles Kw	6 Poles Kw	TEFC 1xM20x1.5		EExde 1xM25x1.5	
			E	Kg	E	Kg
90	1.1	0.75	274	12	340	33
80	0.55	0.55	255	9	290	26