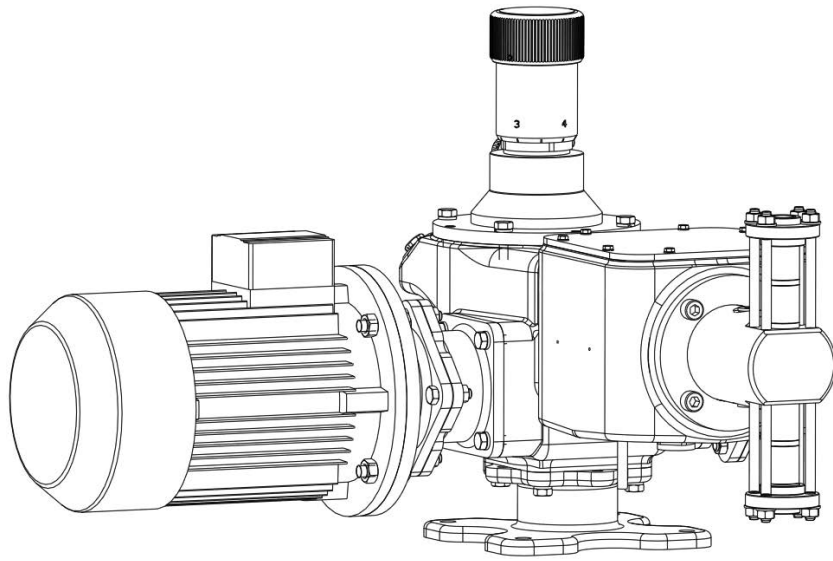



Technical characteristics



- Flow rates: from 15,6 to 1079 lph @ 50Hz
- Max Pressure: 40 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
- 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.

Plunger Pumphead:

- Reliable and easy maintenance
- Ready for flushing connection or for leakage recovery system connection
- Plunger coating or mechanical surface hardening for heavy-duty application

PUMP KEY CODE

1°	Number of pump head					
1	Simplex pump					
2°	Type of pump head (double diaphragm or packed-plunger)					
P	Packed plunger with square section rings					
3°/4°	Plunger diameter					
15-90	from 15 to 90 mm					
5°/6°	Mechanism model					
N1	Stroke length 25 mm					
7°/8°	Pump head material					
	HEAD	PLUNGER	SEAL PACK	BALL	VALVE SEAL	VALVE SEAT
1A	316SS	316SS + CERAMIC	ARAMIDIC FIBER	316SS	316SS	316SS
7Y	316SS	316SS	PTFE	316SS	316SS	316SS
9°	Valve type					
A	Single ball					
B	Double balls					
10°	General options					
7	Standard execution					
F	Flanged connections ANSI B16.5					
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					
F	Flushing connections					
16°	Mechanism options					
0	Standard execution					
5	Compliance with regulation "ATEX" 94/4/CE II 2 G c IIB T4 (for zone 1) (*)					

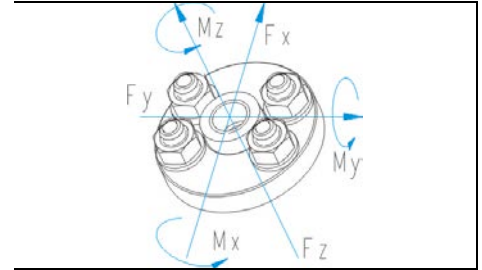
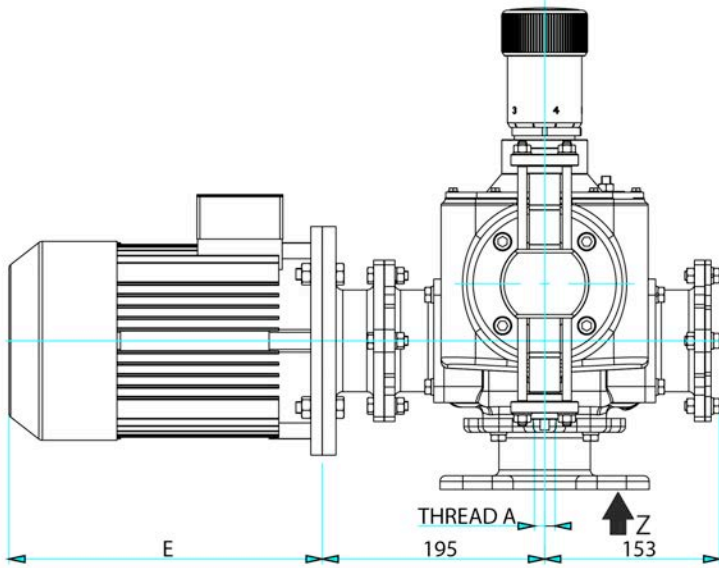
1	P	15	N1	1A	B	7	M	D	6	E	F	0
---	---	----	----	----	---	---	---	---	---	---	---	---

(*) for toxic, inflammable, hazardous and/or pyrophoric liquids packed plunger pumps are not suitable.

HYDRAULIC CHARACTERISTICS

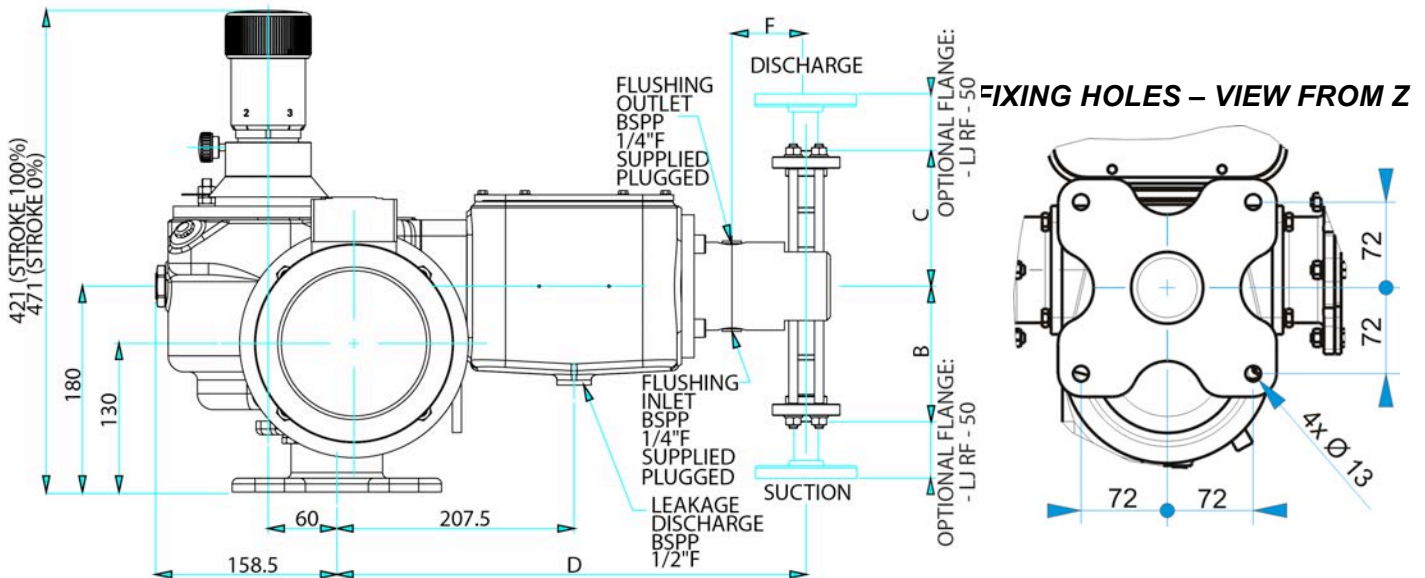
Performances:		50 Hz			60Hz													
		15,6/1079 40/7,5			l/h bar			gph p.s.i.			4,9/342 580/109			Liquid end material			316L	
		Flow rate at max pressure			Max speed			Flow rate at max pressure			Max speed			Electric motor kW			Suc/Dis Conneç	
														0,55 E	0,75 F			
Pump Model							Max pressure						Ø BSPP	NPSHr [barg]				
	lph	gph	Strokes /min	lph	gph	Strokes /min	bar	p.s.i.	bar	p.s.i.	bar	p.s.i.			bar	p.s.i.		
1 P 1 5 N 1 1 A B 7 M F 6 E F 0	15,6	4,1	62	18,7	4,9	74	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 1 5 N 1 1 A B 7 M D 6 E F 0	19,7	5,2	78	23,6	6,2	94	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 1 5 N 1 1 A B 7 M F 4 E F 0	23,5	6,2	93	28,2	7,4	112	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 1 5 N 1 1 A B 7 M D 4 E F 0	29,5	7,8	117	35,4	9,4	140	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 2 0 N 1 1 A B 7 M F 6 E F 0	27,8	7,3	62	33,4	8,8	74	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 2 0 N 1 1 A B 7 M D 6 E F 0	35,0	9,2	78	42,0	11,1	94	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 2 0 N 1 1 A B 7 M F 4 E F 0	41,7	11,0	93	50,0	13,2	112	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 2 0 N 1 1 A B 7 M D 4 E F 0	52,5	13,9	117	63,0	16,6	140	40	580	-	-	-	-	-	-	1/4" F	-0,50		
1 P 3 0 N 1 1 A B 7 M F 6 F F 0	63	17	62	75	20	74	-	-	40	580	-	-	-	-	1/2" F	-0,50		
1 P 3 0 N 1 1 A B 7 M D 6 F F 0	79	21	78	94	25	94	-	-	40	580	-	-	-	-	1/2" F	-0,50		
1 P 3 0 N 1 1 A B 7 M F 4 G F 0	94	25	93	113	30	112	-	-	-	-	40	580	-	-	1/2" F	-0,50		
1 P 3 0 N 1 1 A B 7 M D 4 G F 0	118	31	117	142	38	140	-	-	-	-	40	580	-	-	1/2" F	-0,50		
1 P 4 0 N 1 1 A A 7 M F 6 F F 0	111	29	62	134	35	74	-	-	40	580	-	-	-	-	3/4" F	-0,50		
1 P 4 0 N 1 1 A A 7 M D 6 F F 0	140	37	78	168	44	94	-	-	40	580	-	-	-	-	3/4" F	-0,50		
1 P 4 0 N 1 1 A A 7 M F 4 G F 0	167	44	93	200	53	112	-	-	-	-	40	580	-	-	3/4" F	-0,50		
1 P 4 0 N 1 1 A A 7 M D 4 G F 0	210	56	117	252	67	140	-	-	-	-	40	580	-	-	3/4" F	-0,50		
1 P 5 0 N 1 7 Y A 7 M F 6 F F 0	175	46	62	210	55	74	-	-	25	363	-	-	-	-	3/4" F	-0,50		
1 P 5 0 N 1 7 Y A 7 M D 6 F F 0	220	58	78	264	70	94	-	-	25	363	-	-	-	-	3/4" F	-0,50		
1 P 5 0 N 1 7 Y A 7 M F 4 G F 0	263	69	93	315	83	112	-	-	-	-	25	363	-	-	3/4" F	-0,50		
1 P 5 0 N 1 7 Y A 7 M D 4 G F 0	330	87	117	396	105	140	-	-	-	-	25	363	-	-	3/4" F	-0,50		
1 P 7 0 N 1 7 Y A 7 M F 6 F F 0	345	91	62	414	109	74	-	-	13	189	-	-	-	-	1" F	-0,50		
1 P 7 0 N 1 7 Y A 7 M D 6 F F 0	434	115	78	521	138	94	-	-	13	189	-	-	-	-	1" F	-0,50		
1 P 7 0 N 1 7 Y A 7 M F 4 G F 0	518	137	93	621	164	112	-	-	-	-	13	189	-	-	1" F	-0,50		
1 P 7 0 N 1 7 Y A 7 M D 4 G F 0	651	172	117	781	206	140	-	-	-	-	13	189	-	-	1" F	-0,50		
1 P 9 0 N 1 7 Y A 7 M F 6 F F 0	572	151	62	686	181	74	-	-	7,5	109	-	-	-	-	1" F	-0,50		
1 P 9 0 N 1 7 Y A 7 M D 6 F F 0	720	190	78	863	228	94	-	-	7,5	109	-	-	-	-	1" F	-0,50		
1 P 9 0 N 1 7 Y A 7 M F 4 G F 0	858	227	93	1029	272	112	-	-	-	-	7,5	109	-	-	1" F	-0,50		
1 P 9 0 N 1 7 Y A 7 M D 4 G F 0	1079	285	117	1295	342	140	-	-	-	-	7,5	109	-	-	1" F	-0,50		

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



PUMP MODEL	DIMENSIONS [mm]					EXTIMATED WEIGHT Kg (without motor)	OPTIONAL FLANGE ANSI 300 MAX. TEMP. 38°C MAX. PRESSURE 40BAR SIZE
	A (EN10226)	B	C	D	F		
1P15N11AB..	BSPP 1/4"F	121	121	401	64	58	1/2"
1P20N11AB..	BSPP 1/4"F	121	121	416	71	58,5	1/2"
1P30N11AB..	BSPP 1/2"F	119	119	411	65	58,5	1/2"
1P40N11AA..	BSPP 3/4"F	137	137	419	67	75	1"
1P50N17YA..	BSPP 3/4"F	137	137	419	67	75	1"
1P70N17YA..	BSPP 1"F	157	157	416	64	82	1"
1P90N17YA..	BSPP 1"F	174	174	420	71	86	1"

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