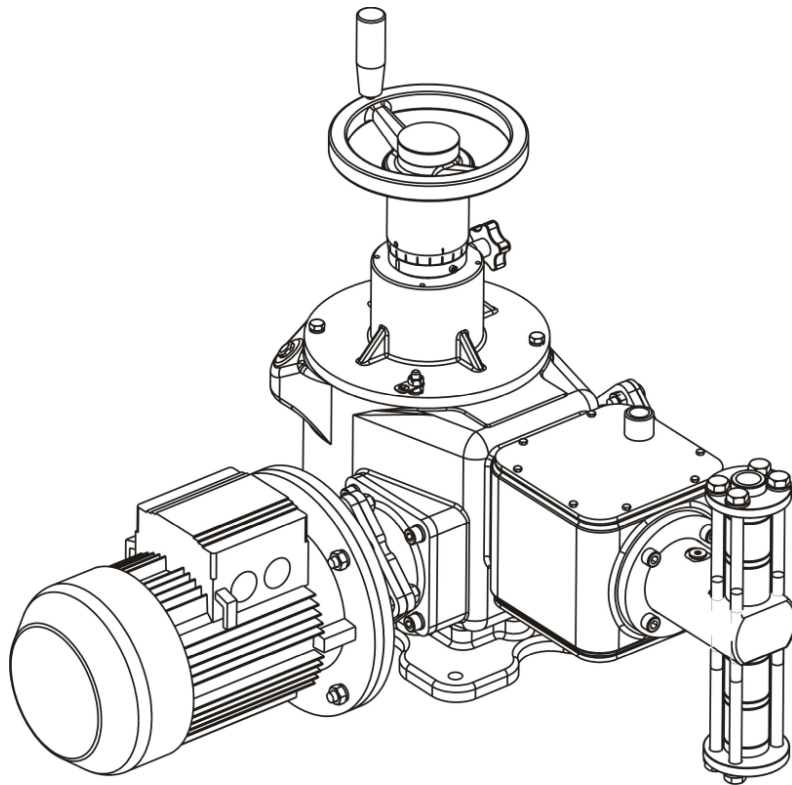




Technical characteristics

- Flow rates: from 22 to 225 lph @ 50Hz
- Max Pressure: 200 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
- Min NPSHr: 3 mwc $\rightarrow$ High suction capability
- 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

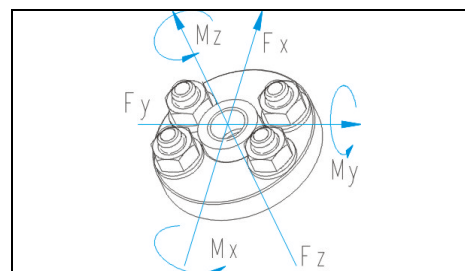
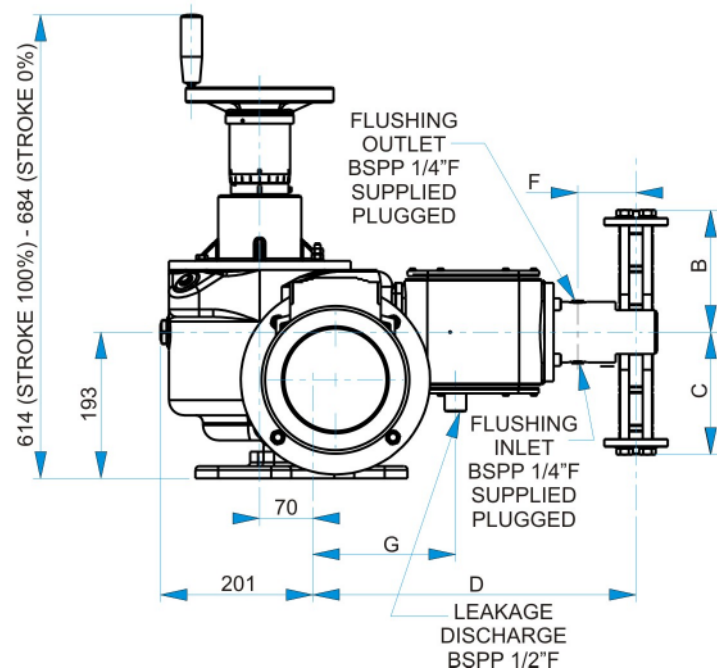
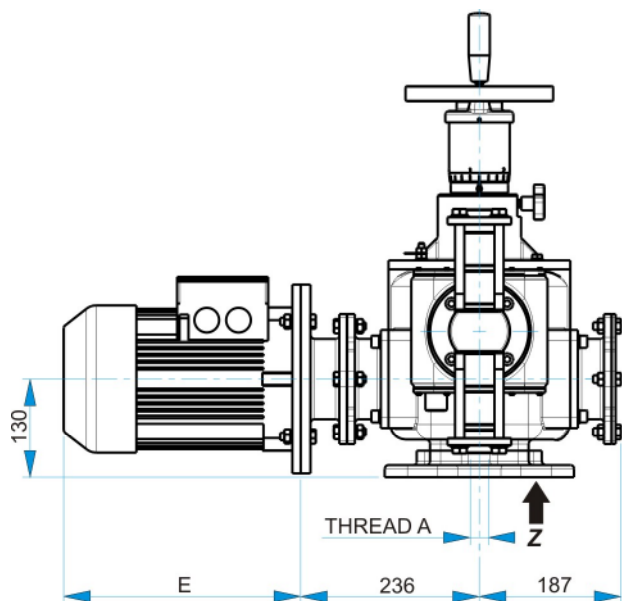
1°	Number of pump head					
1	Simplex pump					
2°	Type of pump head (double diaphragm or packed-plunger)					
K	Packed plunger with square section rings					
3°/4°	Plunger diameter					
15÷35	From 15 to 35 mm					
5°/6°	Mechanism model					
N2	Stroke length 35 mm					
7°/8°	Pump head material					
	HEAD	PLUNGER	SEAL PACK	BALL	VALVE SEAL	VALVE SEAT
1A	316SS	316SS + CERAMIC	ARAMIDIC FIBER	316SS	316SS	316SS
9°	Valve type					
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					
F	0,75 kW					
H	1,50 kW					
I	2,20 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) (*)					

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

HYDRAULIC CHARACTERISTICS

Performances:														50 Hz			60Hz												
														22/225 200/83		l/h bar	gph 7/71,2 p.s.i. 2900/1204		Liquid end material						316L				
Flow rate at max pressure														Max speed		Flow rate at max pressure		Max speed		Electric motor kW-Size						Suc/Dis Connec			
																				0,75		1,5		2,2					
																				F		H		I					
Pump Model														lph gph Strokes /min			lph gph Strokes /min			Max pressure						Ø BSPP F			
																				bar	p.s.i.	bar	p.s.i.	bar	p.s.i.				
1	K	1	5	N	2	1	A	B	7	M	F	6	F	F	0	22	5,8	62	26	7,0	75	200	2900	-	-	-	-	1/4"	
1	K	1	5	N	2	1	A	B	7	M	D	6	F	F	0	27	7,1	78	33	8,7	93	200	2900	-	-	-	-	1/4"	
1	K	1	5	N	2	1	A	B	7	M	F	4	H	F	0	33	8,7	93	39	10,3	112	-	-	200	2900	-	-	1/4"	
1	K	1	5	N	2	1	A	B	7	M	D	4	H	F	0	41	10,8	117	49	13,0	-	-	-	200	2900	-	-	1/4"	
1	K	2	0	N	2	1	A	B	7	M	F	6	H	F	0	39	10,3	62	47	12,4	75	-	-	200	2900	-	-	1/4"	
1	K	2	0	N	2	1	A	B	7	M	D	6	H	F	0	49	13,0	78	59	15,6	93	-	-	200	2900	-	-	1/4"	
1	K	2	0	N	2	1	A	B	7	M	F	4	I	F	0	58	15,3	93	70	18,4	112	-	-	-	-	200	2900	1/4"	
1	K	2	0	N	2	1	A	B	7	M	D	4	I	F	0	73	19,3	117	88	23,2	-	-	-	-	200	2900	1/4"		
1	K	2	5	N	2	1	A	B	7	M	F	6	H	F	0	61	16,1	62	73	19,4	75	-	-	163	2364	-	-	1/2"	
1	K	2	5	N	2	1	A	B	7	M	D	6	H	F	0	76	20,1	78	92	24,3	93	-	-	153	2219	-	-	1/2"	
1	K	2	5	N	2	1	A	B	7	M	F	4	I	F	0	91	24,1	93	109	28,9	112	-	-	-	-	163	2364	1/2"	
1	K	2	5	N	2	1	A	B	7	M	D	4	I	F	0	115	30,4	117	137	36,2	-	-	-	-	163	2364	1/2"		
1	K	3	5	N	2	1	A	B	7	M	F	6	H	F	0	119	31,5	62	143	37,8	75	-	-	83	1204	-	-	3/4"	
1	K	3	5	N	2	1	A	B	7	M	D	6	H	F	0	150	39,7	78	180	47,6	93	-	-	79	1146	-	-	3/4"	
1	K	3	5	N	2	1	A	B	7	M	F	4	I	F	0	179	47,4	93	214	56,6	112	-	-	-	-	83	1204	3/4"	
1	K	3	5	N	2	1	A	B	7	M	D	4	I	F	0	225	59,5	117	269	71,2	-	-	-	-	83	1204	3/4"		

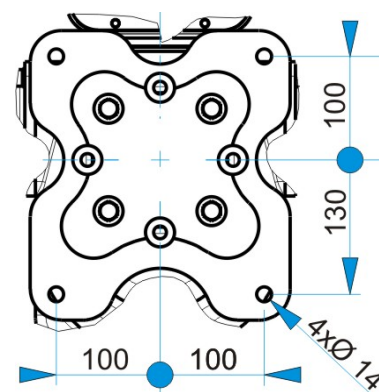
Test with water @ 20°C.



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 MODEL	DIMENSIONS [mm]						ESTIMATED WEIGHT kg (without motor)
	A (EN10226)	B	C	D	F	G	
1K15N21AB..	BSPP 1/4"F	128	128	426	77	189	106
1K20N21AB..	BSPP 1/4"F	126	126	439	80	189	107
1K25N21AB..	BSPP 1/2"F	126	126	438	79	189	107
1K35N21AB..	BSPP 3/4"F	160	160	437	77	189	109

Electric motor size	4 Poles kw	6 Poles kw	TEFC 1xM20x1.5		EExD 1xM25x1.5	
			E	kg	E	kg
90	1.5	0.75	260	12	340	33
100	2.2	1.5	320	22	370	46