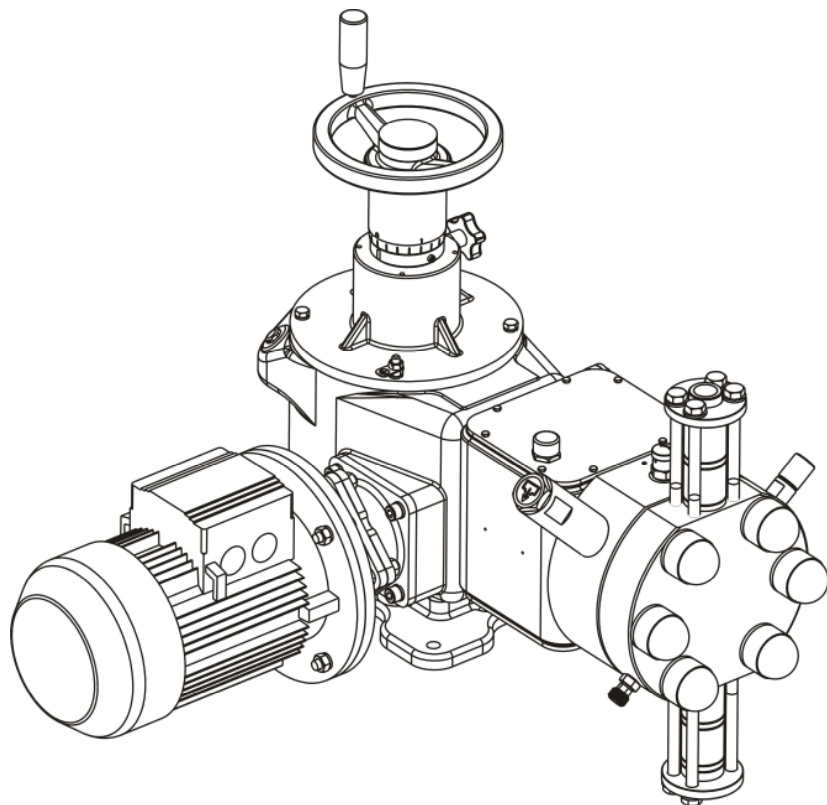




Technical characteristics

- Flow rates: from 231 to 2565 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
- Built-in overpressure valve
- Min NPSHr: 3 mwc $\rightarrow$ High suction capability
- 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 $\rightarrow$ 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

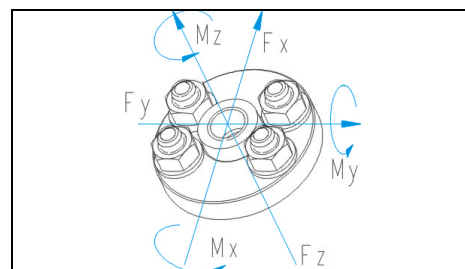
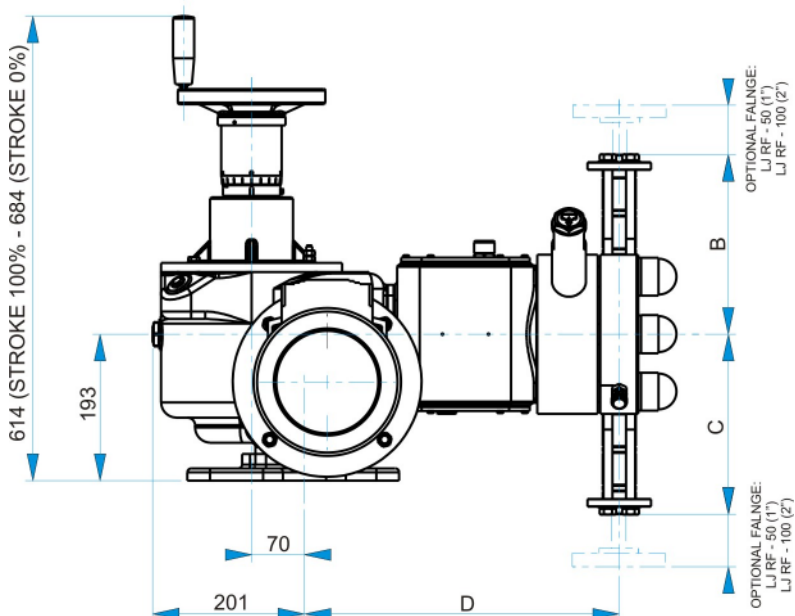
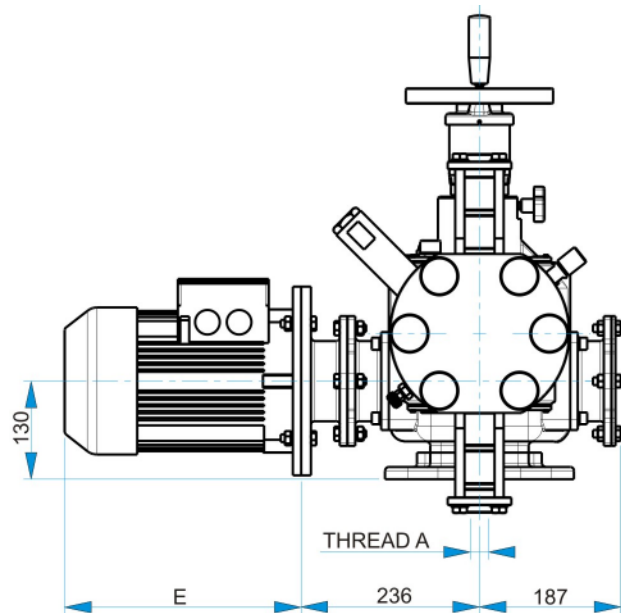
1°		Number of pump head									
1		Simplex pump									
2°		Type of pump head (double diaphragm or packed-plunger)									
Y		Double diaphragm with built-in overpressure valve, air-bleed valve and mechanically actuated oil replenishing									
3°/4°		Plunger diameter									
50÷C0		50 - 70 - 90 - C0(120) mm									
5°/6°		Mechanism model									
N2		Stroke length 35 mm									
7°/8°		Pump head material									
		HEAD		DIAPHRAGM		BALL		VALVE SEAL		VALVE SEAT	
2F		316SS		PTFE		316SS		316SS		316SS	
9°		Valve type									
A		Single ball									
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									
H		1,50 kW									
I		2,20 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	Y	50	N2	2F	A	7	M	D	6	H	V	0
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HYDRAULIC CHARACTERISTICS

Performances:														50 Hz		60Hz										
														231/2565 40/6	l/h bar	gph p.s.i.	73.2/814.3 580/87	Liquid end material				316L				
														Flow rate at max pressure	Max speed	Flow rate at max pressure	Max speed	Electric motor kW				Suc/Dis Connec				
																		1,5 H	2,2 I							
Pump Model														lph gph Strokes /min			lph gph Strokes /min			Max pressure				Ø BSPP F		
																				bar	p.s.i.	bar	p.s.i.			
1	Y	5	0	N	2	2	F	A	7	M	F	6	H	V	0	231	61,0	62	277	73,2	74	39	566	-	-	1"
1	Y	5	0	N	2	2	F	A	7	M	D	6	H	V	0	282	74,6	78	339	89,6	94	37	537	-	-	1"
1	Y	5	0	N	2	2	F	A	7	M	F	4	I	V	0	330	87,2	93	396	104,7	112	-	-	39	566	1"
1	Y	5	0	N	2	2	F	A	7	M	D	4	I	V	0	407	107,5	117	488	129,1	140	-	-	39	566	1"
1	Y	7	0	N	2	2	F	A	7	M	F	6	H	V	0	483	127,8	62	580	153,3	74	20	290	-	-	1"
1	Y	7	0	N	2	2	F	A	7	M	D	6	H	V	0	590	156,1	78	708	187,3	94	18	261	-	-	1"
1	Y	7	0	N	2	2	F	A	7	M	F	4	I	V	0	689	182,3	93	827	218,8	112	-	-	19	276	1"
1	Y	7	0	N	2	2	F	A	7	M	D	4	I	V	0	846	223,8	117	1016	268,8	140	-	-	20	290	1"
1	Y	9	0	N	2	2	F	A	7	M	F	6	H	V	0	730	193,1	62	876	231,7	74	11	160	-	-	2"
1	Y	9	0	N	2	2	F	A	7	M	D	6	H	V	0	918	242,9	78	1102	291,5	94	11	160	-	-	2"
1	Y	9	0	N	2	2	F	A	7	M	F	4	I	V	0	1095	289,6	93	1314	347,5	112	-	-	11	160	2"
1	Y	9	0	N	2	2	F	A	7	M	D	4	I	V	0	1377	364,3	117	1653	437,2	140	-	-	11	160	2"
1	Y	C	0	N	2	2	F	A	7	M	F	6	H	V	0	1343	355,3	62	1612	426,3	74	7	102	-	-	2"
1	Y	C	0	N	2	2	F	A	7	M	D	6	H	V	0	1682	445,0	78	2018	534,0	94	6	87	-	-	2"
1	Y	C	0	N	2	2	F	A	7	M	F	4	I	V	0	2030	537,0	93	2436	644,4	112	-	-	7	102	2"
1	Y	C	0	N	2	2	F	A	7	M	D	4	I	V	0	2565	678,6	117	3078	814,3	140	-	-	6	87	2"

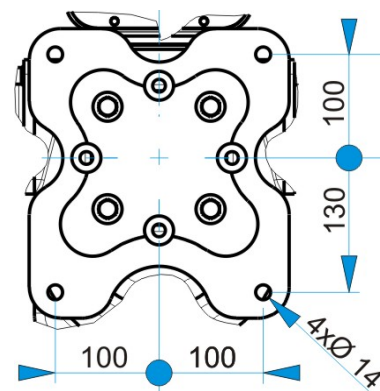
Test with water @ 20°C.



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)	OPTIONAL FLANGE ANSI 300 MAX. TEMP. 38°C MAX. PRESSURE 40BAR SIZE
	A (EN10226)	B	C	D		
1Y50N22FA..	BSPP 1"F	237	237	435	158,5	1"
1Y70N22FA..	BSPP 1"F	237	237	435	158,5	1"
1Y90N22FA ..	BSPP 2"F	288	288	485	209	2"
1YC0N22FA..	BSPP 2"F	288	288	485	210	2"

Electric motor size	4 Poles kw	6 Poles kw	TEFC 1xM20x1.5		EExde 1xM25x1.5	
			E	kg	E	kg
90	1.5	0.75	260	12	340	33
100	2.2	1.50	320	22	370	46