


### Technical characteristics

- Flow rates: from 484 to 2565 lph @ 50Hz
- Max Pressure: 1,2 MPa (12 bar)
- Ambient temperature: -10 °C + 40 °C
- Max altitude: 1000 m (A.S.L.)
- Fluid operating temperature: -5 °C + 50 °C
- Viscosity up to 1000 mPa•s (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

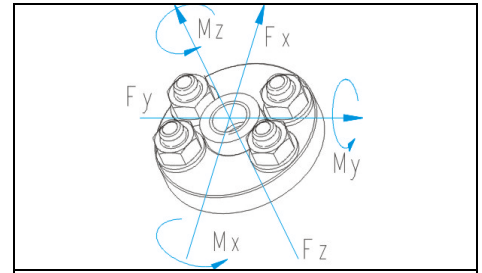
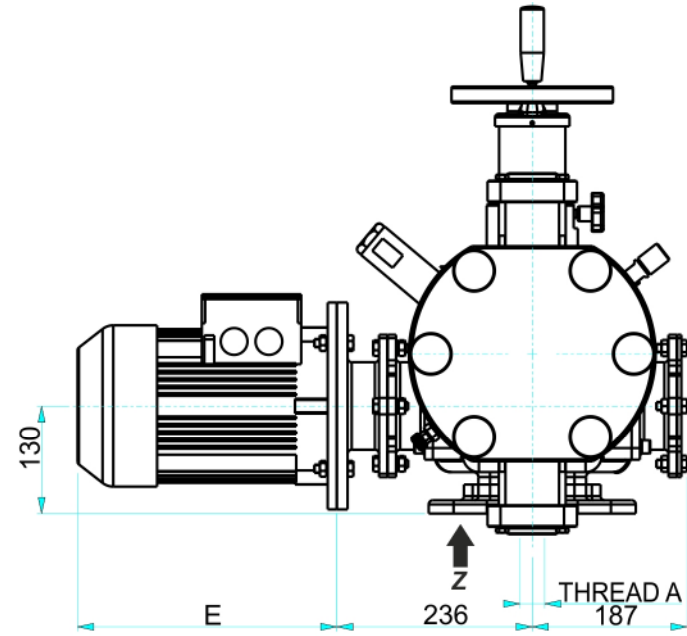
<b>1°</b> Number of pump head											
1	Simplex pump										
<b>2°</b> Type of pump head (double diaphragm or packed-plunger)											
Y	Double diaphragm with built-in overpressure valve, air-bleed valve and mechanically actuated oil replenishing										
<b>3°/4°</b> Plunger diameter											
70+C0	70 - 90 - C0(120) mm										
<b>5°/6°</b> Mechanism model											
N2	Stroke length 25 mm										
<b>7°/8°</b> Pump head material											
	<table border="1"> <thead> <tr> <th>HEAD</th> <th>DIAPHRAGM</th> <th>BALL</th> <th>VALVE SEAL</th> <th>VALVE SEAT</th> </tr> </thead> <tbody> <tr> <td>PP</td> <td>PTFE</td> <td>CERAMIC</td> <td>FPM</td> <td>FPM</td> </tr> </tbody> </table>	HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT	PP	PTFE	CERAMIC	FPM	FPM
HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT							
PP	PTFE	CERAMIC	FPM	FPM							
5B											
<b>9°</b> Valve type											
A	Single ball										
<b>10°</b> General options											
7	Standard execution										
F	Flanged connections (UNI EN 1092-1)										
<b>11°</b> Flow rate adjustment											
M	Manual with adjustment knob (Standard execution)										
E	Electric actuator										
P	Pneumatic actuator										
<b>12°</b> Gear ratio											
D	1:12										
F	1:15										
<b>13°</b> Electric motors poles											
4	4 poles										
6	6 poles										
<b>14°</b> Installed power											
H	1,50 kW										
I	2,20 kW										
<b>15°</b> Pump head options											
V	Visual diaphragm failure detection (Standard execution)										
R	Remote diaphragm failure detection										
<b>16°</b> Mechanism options											
0	Standard execution										
5	Compliance with regulation "ATEX" 94/4/CE II 2 G c IIB T4 (for zone 1)										

1	Y	70	N2	5B	A	7	M	F	6	H	V	0
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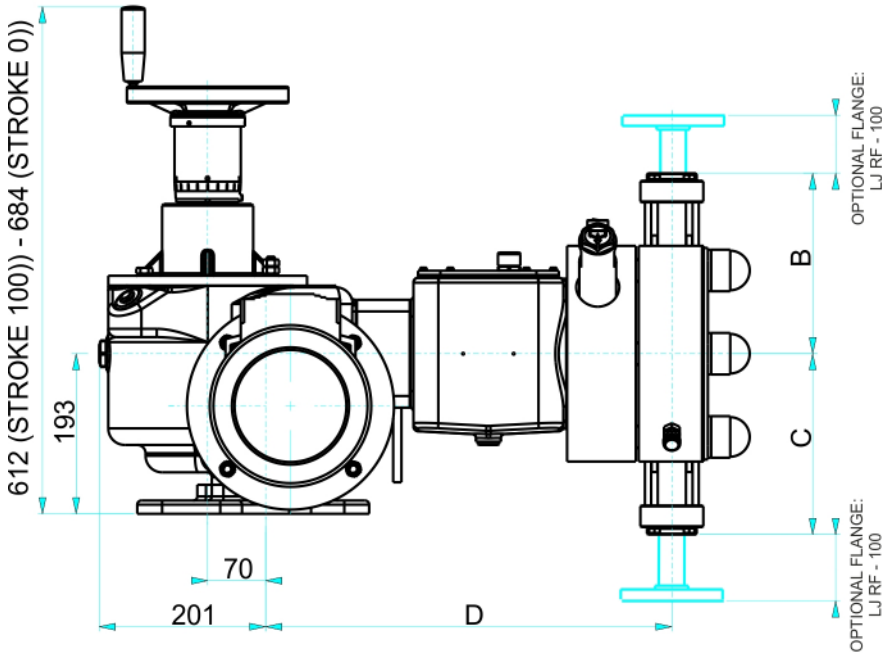




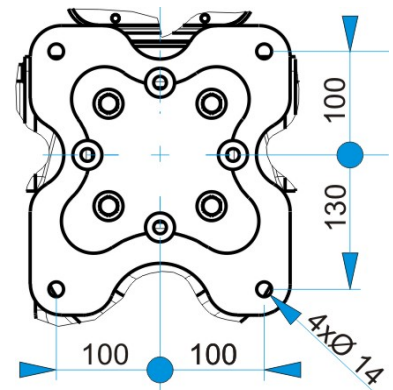


Allowable loads referred to pump nozzles

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 PN10 MAX. TEMP. 40°C SIZE
	A (EN10226)	B	C	D		
1Y70N25BA..	BSPP 1"F	219	219	491	130,5	DN25
1Y90N25BA..	BSPP 1 1/2"F	284	284	530	150	DN40
1YC0N25BA..	BSPP 1 1/2"F	284	284	530	151	DN40

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