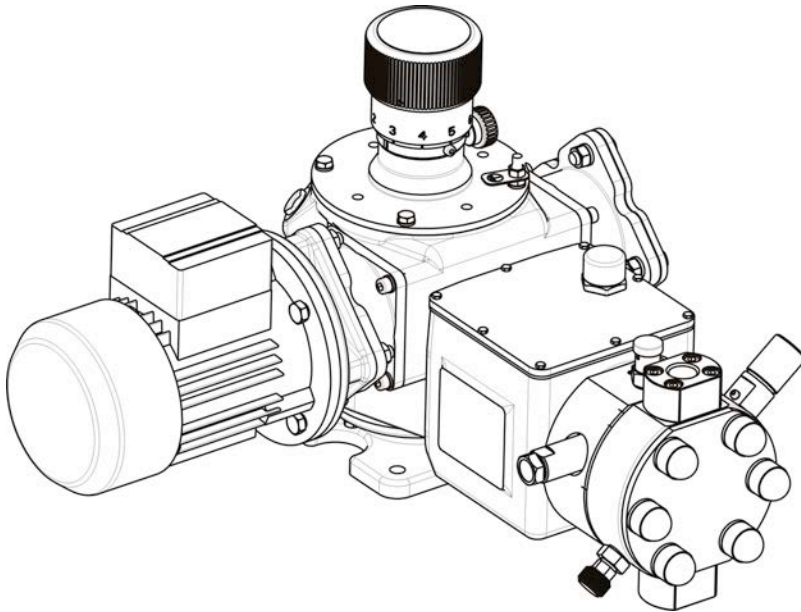



Technical characteristics



- Flow rates: from 0,622 to 97,3 lph @ 50Hz
- Max Pressure: 2 MPa (20 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
- 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

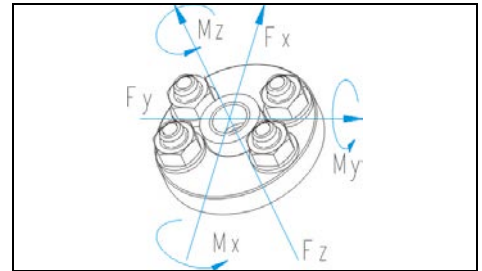
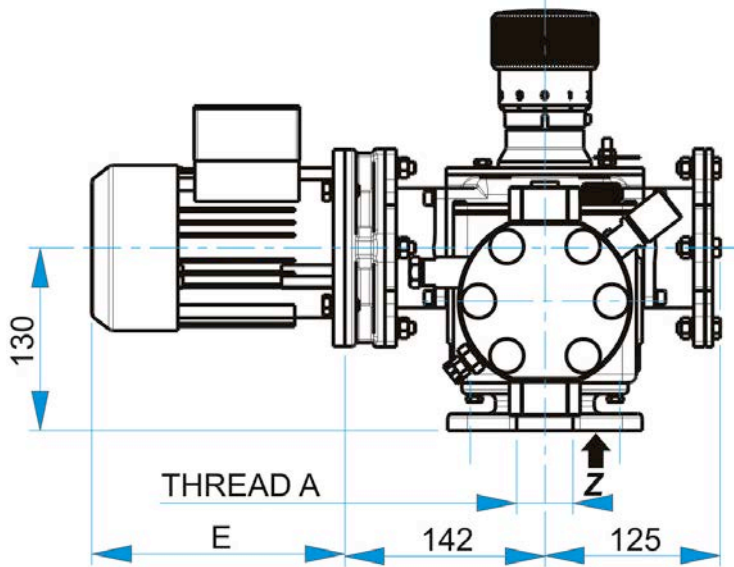
1°	Number of pump head									
1	Simplex pump									
2°	Type of pump head (double diaphragm or packed-plunger)									
Y	Double diaphragm with built-in overpressure valve, air-bleed valve and mechanically actuated oil replenishing									
3°/4°	Plunger diameter									
06÷35	from 6 to 35 mm									
5°/6°	Mechanism model									
NO	Stroke length 10 mm									
7°/8°	Pump head material									
	HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT					
4J	PVDF	PTFE	CERAMIC	FPM	FPM					
9°	Valve type									
A	Single ball									
B	Double balls									
C	Triple balls									
10°	General options									
7	Standard execution									
F	Flanged connections (UNI EN 1092-1)									
11°	Flow rate adjustment									
M	Manual with adjustment knob (Standard execution)									
E	Electric actuator									
P	Pneumatic actuator									
12°	Gear ratio									
F	1:15									
I	1:20									
L	1:25									
13°	Electric motors poles									
2	2 poles (not available ATEX version)									
4	4 poles									
6	6 poles									
14°	Installed power									
B	0,18 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	06	NO	4J	B	7	M	L	6	B	V	0
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HYDRAULIC CHARACTERISTICS

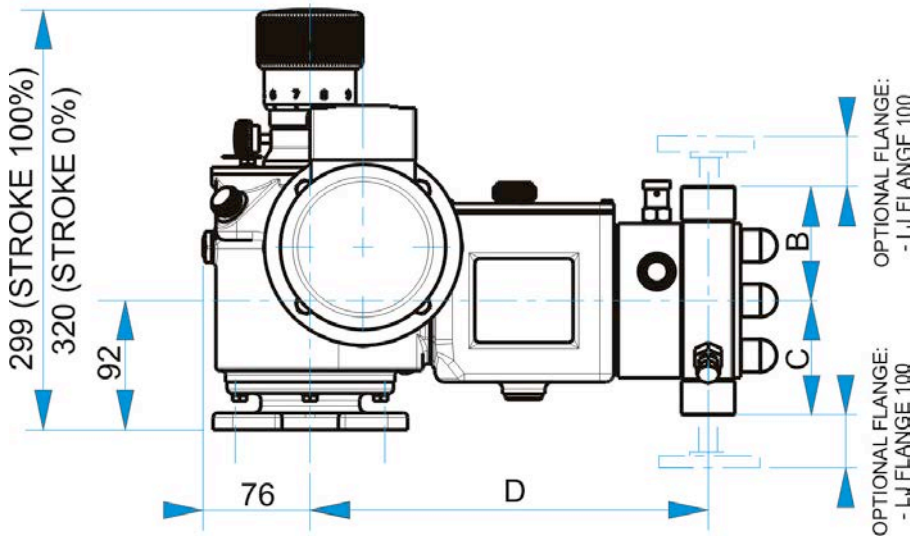
Performances:										50 Hz		60Hz									
										0,622/97,3 20/16		l/h bar		gph p.s.i.		0,197/30,9 290/232		Liquid end material		PVDF	
										Flow rate at max pressure		Max speed		Flow rate at max pressure		Max speed		Ele motor kW 0,18 B		Suc/Dis Conneç	
										Strokes /min		Strokes /min		Max press bar p.s.i.		Ø BSSPP		NPSHr [barg]			
Modello Pompa Pump Model										lph	gph	Strokes /min	lph	gph	Strokes /min	bar	p.s.i.	Ø BSSPP	NPSHr [barg]		
1 Y 0 6 N 0 4 J B 7 M L 6 B V 0	0,622	0,164	37	0,746	0,197	44	20	290	1/2" F	-0,40											
1 Y 0 6 N 0 4 J B 7 M L 6 B V 0	0,770	0,203	47	0,924	0,244	56	20	290	1/2" F	-0,40											
1 Y 0 6 N 0 4 J B 7 M L 4 B V 0	0,883	0,233	56	1,060	0,280	67	20	290	1/2" F	-0,40											
1 Y 0 6 N 0 4 J B 7 M L 4 B V 0	1,058	0,279	70	1,270	0,335	84	20	290	1/2" F	-0,40											
1 Y 0 6 N 0 4 J B 7 M F 4 B V 0	1,346	0,356	93	1,615	0,427	112	20	290	1/2" F	-0,40											
1 Y 0 6 N 0 4 J B 7 M L 2 B V 0	1,584	0,418	112	1,901	0,502	134	20	290	1/2" F	-0,40											
1 Y 0 8 N 0 4 J B 7 M L 6 B V 0	1,03	0,27	47	1,24	0,33	56	20	290	1/2" F	-0,45											
1 Y 0 8 N 0 4 J B 7 M L 4 B V 0	1,25	0,33	56	1,50	0,40	67	20	290	1/2" F	-0,45											
1 Y 0 8 N 0 4 J B 7 M L 4 B V 0	1,6	0,42	70	1,9	0,50	84	20	290	1/2" F	-0,45											
1 Y 0 8 N 0 4 J B 7 M F 4 B V 0	2,2	0,57	93	2,6	0,68	112	20	290	1/2" F	-0,45											
1 Y 0 8 N 0 4 J B 7 M L 2 B V 0	2,6	0,69	112	3,1	0,83	134	20	290	1/2" F	-0,45											
1 Y 1 0 N 0 4 J B 7 M L 6 B V 0	1,57	0,41	47	1,9	0,50	56	20	290	1/2" F	-0,50											
1 Y 1 0 N 0 4 J B 7 M L 4 B V 0	2,02	0,53	56	2,4	0,64	67	20	290	1/2" F	-0,50											
1 Y 1 0 N 0 4 J B 7 M L 4 B V 0	2,72	0,72	70	3,3	0,86	84	20	290	1/2" F	-0,50											
1 Y 1 0 N 0 4 J B 7 M F 4 B V 0	3,86	1,02	93	4,6	1,22	112	20	290	1/2" F	-0,50											
1 Y 1 0 N 0 4 J B 7 M L 2 B V 0	4,80	1,27	112	5,8	1,52	134	20	290	1/2" F	-0,50											
1 Y 1 2 N 0 4 J B 7 M L 6 B V 0	2,84	0,75	47	3,4	0,90	56	20	290	1/2" F	-0,40											
1 Y 1 2 N 0 4 J B 7 M L 4 B V 0	3,41	0,90	56	4,1	1,08	67	20	290	1/2" F	-0,40											
1 Y 1 2 N 0 4 J B 7 M L 4 B V 0	4,29	1,13	70	5,2	1,36	84	20	290	1/2" F	-0,40											
1 Y 1 2 N 0 4 J B 7 M F 4 B V 0	5,73	1,51	93	6,9	1,82	112	20	290	1/2" F	-0,40											
1 Y 1 2 N 0 4 J B 7 M L 2 B V 0	6,93	1,83	112	8,3	2,20	134	20	290	1/2" F	-0,40											
1 Y 1 5 N 0 4 J B 7 M L 6 B V 0	4,54	1,20	47	5,45	1,44	56	20	290	1/2" F	-0,45											
1 Y 1 5 N 0 4 J B 7 M L 4 B V 0	5,37	1,42	56	6,44	1,70	67	20	290	1/2" F	-0,45											
1 Y 1 5 N 0 4 J B 7 M L 4 B V 0	6,67	1,76	70	8,00	2,11	84	20	290	1/2" F	-0,45											
1 Y 1 5 N 0 4 J B 7 M F 4 B V 0	8,81	2,33	93	10,57	2,79	112	20	290	1/2" F	-0,45											
1 Y 1 5 N 0 4 J B 7 M L 2 B V 0	10,57	2,79	112	12,68	3,35	134	20	290	1/2" F	-0,45											
1 Y 2 0 N 0 4 J B 7 M L 6 B V 0	8,2	2,20	47	9,8	2,60	56	20	290	1/2" F	-0,60											
1 Y 2 0 N 0 4 J B 7 M L 4 B V 0	9,8	2,60	56	11,8	3,10	67	20	290	1/2" F	-0,60											
1 Y 2 0 N 0 4 J B 7 M L 4 B V 0	12,3	3,20	70	14,8	3,90	84	20	290	1/2" F	-0,60											
1 Y 2 0 N 0 4 J B 7 M F 4 B V 0	16,4	4,30	93	19,7	5,20	112	20	290	1/2" F	-0,60											
1 Y 2 0 N 0 4 J B 7 M L 2 B V 0	19,8	5,20	112	23,8	6,30	134	20	290	1/2" F	-0,60											
1 Y 2 5 N 0 4 J B 7 M L 6 B V 0	10,2	2,70	37	12	3,20	44	20	290	1/2" F	-0,40											
1 Y 2 5 N 0 4 J B 7 M L 6 B V 0	13,0	3,40	47	16	4,10	56	20	290	1/2" F	-0,40											
1 Y 2 5 N 0 4 J B 7 M L 4 B V 0	15,4	4,10	56	19	4,90	67	20	290	1/2" F	-0,40											
1 Y 2 5 N 0 4 J B 7 M L 4 B V 0	19,2	5,10	70	23	6,10	84	20	290	1/2" F	-0,40											
1 Y 2 5 N 0 4 J B 7 M F 4 B V 0	25,5	6,70	93	31	8,10	112	20	290	1/2" F	-0,40											
1 Y 2 5 N 0 4 J B 7 M L 2 B V 0	30,6	8,10	112	37	9,70	134	20	290	1/2" F	-0,40											
1 Y 3 0 N 0 4 J B 7 M L 6 B V 0	14,7	3,90	37	18	4,60	44	20	290	1/2" F	-0,45											
1 Y 3 0 N 0 4 J B 7 M L 6 B V 0	18,7	4,90	47	22	5,90	56	20	290	1/2" F	-0,45											
1 Y 3 0 N 0 4 J B 7 M L 4 B V 0	22,2	5,90	56	27	7,00	67	20	290	1/2" F	-0,45											
1 Y 3 0 N 0 4 J B 7 M L 4 B V 0	27,7	7,30	70	33	8,80	84	20	290	1/2" F	-0,45											
1 Y 3 0 N 0 4 J B 7 M F 4 B V 0	36,7	9,70	93	44	11,60	112	20	290	1/2" F	-0,45											
1 Y 3 0 N 0 4 J B 7 M L 2 B V 0	44,1	11,60	112	53	14,00	134	20	290	1/2" F	-0,45											
1 Y 3 5 N 0 4 J B 7 M L 6 B V 0	20,0	5,30	37	24	6,30	44	20	290	1/2" F	-0,65											
1 Y 3 5 N 0 4 J B 7 M L 6 B V 0	25,2	6,70	47	30	8,00	56	20	290	1/2" F	-0,65											
1 Y 3 5 N 0 4 J B 7 M L 4 B V 0	29,9	7,90	56	36	9,50	67	20	290	1/2" F	-0,65											
1 Y 3 5 N 0 4 J B 7 M L 4 B V 0	37,2	9,80	70	45	11,80	84	20	290	1/2" F	-0,65											
1 Y 3 5 N 0 4 J B 7 M F 4 B V 0	49,1	13,00	93	59	15,60	112	19	276	1/2" F	-0,65											
1 Y 3 5 N 0 4 J B 7 M L 2 B V 0	58,9	15,60	112	71	18,70	134	18	261	1/2" F	-0,65											
1 Y 3 5 N 0 4 J B 7 M L 2 B V 0	73,4	19,40	140	88	23,30	168	16	232	1/2" F	0,00											
1 Y 3 5 N 0 4 J B 7 M F 2 B V 0	97,3	25,70	186	117	30,90	223	16	232	1/2" F	0,00											

Test with water @ 20°C.

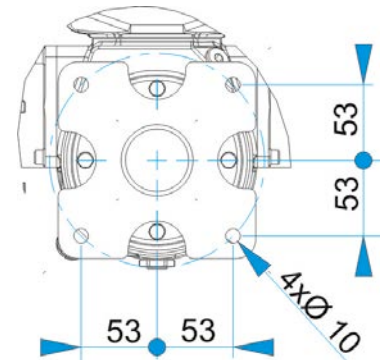


Allowable loads referred to pump nozzles

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]				ESTIMATED WEIGHT kg (without motor)	OPTIONAL FLANGE PN16 MAX. TEMP. 40°C SIZE
	A	B	C	D		
1Y06N04JB..	BSPP 1/2"F	82	82	285	28,5	DN15
1Y08N04JB..	BSPP 1/2"F	82	82	285	28,5	DN15
1Y10N04JB..	BSPP 1/2"F	82	82	285	28,5	DN15
1Y12N04JB..	BSPP 1/2"F	86	86	282	29	DN15
1Y15N04JB..	BSPP 1/2"F	86	86	282	29	DN15
1Y20N04JB..	BSPP 1/2"F	86	86	282	29	DN15
1Y25N04JB..	BSPP 1/2"F	101	101	282	31,5	DN15
1Y30N04JB..	BSPP 1/2"F	101	101	282	31,5	DN15
1Y35N04JB..	BSPP 1/2"F	101	101	282	31,5	DN15

Electric motor size	2 Poles kw	4 Poles kw	6 Poles kw	TEFC 1xM16x1.5		EExde 1xM25x1.5	
				E	kg	E	kg
63	0.18	0.18	0.18	193	4	224	16