


Technical characteristics

- Flow rates: from 0,39 to 57,1 lph @ 50 Hz
- Max Pressure: 4 MPa (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 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

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
2F	316SS	PTFE	316SS	316SS	316SS
9°	Valve type				
A	Single ball				
B	Double balls				
C	Triple 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				
F	1:15				
I	1:20				
L	1:25				
13°	Electric motors poles				
2	2 poles				
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)				

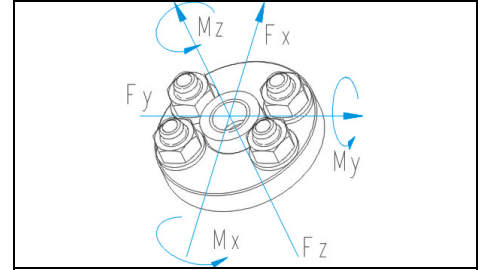
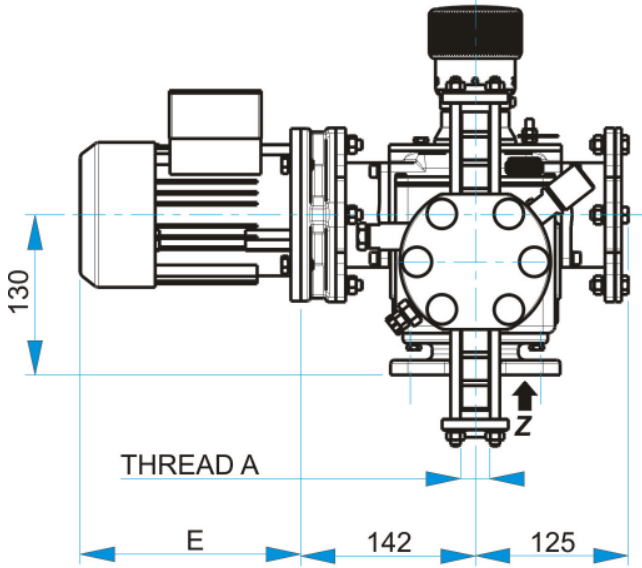
1	Y	06	NO	2F	C	7	M	L	6	B	V	0
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HYDRAULIC CHARACTERISTICS

Performances:													50 Hz			60Hz							
													0,39/57,1 40/17			l/h bar	gph 0.12/18.13 p.s.i. 580/248			Liquid end material		316L	
													Flow rate at max pressure		Max speed		Flow rate at max pressure		Max speed		Electric motor kW 0,18 B		Suc/Dis Connec
Pump Model													Strokes /min			Strokes /min			Max pressure		Ø BSPP		
																			bar	p.s.i.			
lph	gph	lph	gph	lph	gph	lph	gph	bar	p.s.i.														
1 Y 0 6 N 0 2 F C 7 M L 6 B V 0	0,39	0,10	37	0,47	0,12	45	40	580	1/4" F														
1 Y 0 6 N 0 2 F C 7 M L 4 B V 0	0,52	0,14	47	0,62	0,16	56	40	580	1/4" F														
1 Y 0 6 N 0 2 F C 7 M L 4 B V 0	0,63	0,17	56	0,76	0,20	67	40	580	1/4" F														
1 Y 0 6 N 0 2 F C 7 M L 4 B V 0	0,81	0,21	70	0,97	0,26	84	40	580	1/4" F														
1 Y 0 6 N 0 2 F C 7 M F 4 B V 0	1,10	0,29	93	1,32	0,35	112	40	580	1/4" F														
1 Y 0 6 N 0 2 F C 7 M L 2 B V 0	1,34	0,35	112	1,61	0,43	134	40	580	1/4" F														
1 Y 0 8 N 0 2 F C 7 M L 4 B V 0	0,98	0,26	47	1,17	0,31	56	40	580	1/4" F														
1 Y 0 8 N 0 2 F C 7 M L 4 B V 0	1,19	0,31	56	1,43	0,38	67	40	580	1/4" F														
1 Y 0 8 N 0 2 F C 7 M L 4 B V 0	1,52	0,40	70	1,82	0,48	84	40	580	1/4" F														
1 Y 0 8 N 0 2 F C 7 M F 4 B V 0	2,06	0,55	93	2,47	0,65	112	40	580	1/4" F														
1 Y 0 8 N 0 2 F C 7 M L 2 B V 0	2,51	0,66	112	3,01	0,80	134	40	580	1/4" F														
1 Y 1 0 N 0 2 F C 7 M L 4 B V 0	1,51	0,40	47	1,81	0,48	56	40	580	1/4" F														
1 Y 1 0 N 0 2 F C 7 M L 4 B V 0	1,94	0,51	56	2,33	0,62	67	40	580	1/4" F														
1 Y 1 0 N 0 2 F C 7 M L 4 B V 0	2,62	0,69	70	3,15	0,83	84	40	580	1/4" F														
1 Y 1 0 N 0 2 F C 7 M F 4 B V 0	3,73	0,99	93	4,48	1,19	112	40	580	1/4" F														
1 Y 1 0 N 0 2 F C 7 M L 2 B V 0	4,65	1,23	112	5,58	1,48	134	40	580	1/4" F														
1 Y 1 2 N 0 2 F C 7 M L 4 B V 0	2,73	0,72	47	3,27	0,87	56	40	580	1/4" F														
1 Y 1 2 N 0 2 F C 7 M L 4 B V 0	3,27	0,86	56	3,92	1,04	67	40	580	1/4" F														
1 Y 1 2 N 0 2 F C 7 M L 4 B V 0	4,11	1,09	70	4,93	1,31	84	40	580	1/4" F														
1 Y 1 2 N 0 2 F C 7 M F 4 B V 0	5,49	1,45	93	6,59	1,74	112	40	580	1/4" F														
1 Y 1 2 N 0 2 F C 7 M L 2 B V 0	6,64	1,76	112	7,96	2,11	134	40	580	1/4" F														
1 Y 1 5 N 0 2 F B 7 M L 4 B V 0	4,41	1,17	47	5,29	1,40	56	40	580	1/4" F														
1 Y 1 5 N 0 2 F B 7 M L 4 B V 0	5,21	1,38	56	6,26	1,65	67	40	580	1/4" F														
1 Y 1 5 N 0 2 F B 7 M L 4 B V 0	6,47	1,71	70	7,76	2,05	84	40	580	1/4" F														
1 Y 1 5 N 0 2 F B 7 M F 4 B V 0	8,53	2,26	93	10,23	2,71	112	40	580	1/4" F														
1 Y 1 5 N 0 2 F B 7 M L 2 B V 0	10,23	2,71	112	12,28	3,25	134	40	580	1/4" F														
1 Y 2 0 N 0 2 F B 7 M L 4 B V 0	8,0	2,11	47	9,6	2,53	56	40	580	1/4" F														
1 Y 2 0 N 0 2 F B 7 M L 4 B V 0	9,5	2,53	56	11,5	3,03	67	40	580	1/4" F														
1 Y 2 0 N 0 2 F B 7 M L 4 B V 0	12,0	3,17	70	14,4	3,81	84	40	580	1/4" F														
1 Y 2 0 N 0 2 F B 7 M F 4 B V 0	16,0	4,24	93	19,2	5,08	112	40	580	1/4" F														
1 Y 2 0 N 0 2 F B 7 M L 2 B V 0	19,3	5,11	112	23,2	6,14	134	40	580	1/4" F														
1 Y 2 5 N 0 2 F B 7 M L 6 B V 0	9,4	2,49	37	11,3	2,98	45	39	566	1/4" F														
1 Y 2 5 N 0 2 F B 7 M L 6 B V 0	11,9	3,16	47	14,3	3,79	56	39	566	1/4" F														
1 Y 2 5 N 0 2 F B 7 M L 4 B V 0	14,2	3,77	56	17,1	4,52	67	39	566	1/4" F														
1 Y 2 5 N 0 2 F B 7 M L 4 B V 0	17,8	4,71	70	21,4	5,65	84	39	566	1/4" F														
1 Y 2 5 N 0 2 F B 7 M F 4 B V 0	23,7	6,30	93	28,6	7,56	112	39	566	1/4" F														
1 Y 2 5 N 0 2 F B 7 M L 2 B V 0	28,5	7,57	112	34,3	9,08	134	35	508	1/4" F														
1 Y 3 0 N 0 2 F A 7 M L 6 B V 0	14,7	3,89	37	17,7	4,67	45	27	392	1/4" F														
1 Y 3 0 N 0 2 F A 7 M L 6 B V 0	18,6	4,93	47	22,3	5,91	56	27	392	1/4" F														
1 Y 3 0 N 0 2 F A 7 M L 4 B V 0	22,1	5,85	56	26,6	7,03	67	27	392	1/4" F														
1 Y 3 0 N 0 2 F A 7 M L 4 B V 0	27,6	7,30	70	33,1	8,76	84	27	392	1/4" F														
1 Y 3 0 N 0 2 F A 7 M F 4 B V 0	36,6	9,68	93	43,9	11,62	112	27	392	1/4" F														
1 Y 3 0 N 0 2 F A 7 M L 2 B V 0	44,0	11,64	112	52,8	13,97	134	27	392	1/4" F														
1 Y 3 5 N 0 2 F A 7 M L 6 B V 0	19,4	5,14	37	23,3	6,17	45	19	276	1/4" F														
1 Y 3 5 N 0 2 F A 7 M L 6 B V 0	24,5	6,47	47	29,3	7,76	56	19	276	1/4" F														
1 Y 3 5 N 0 2 F A 7 M L 4 B V 0	29,0	7,67	56	34,8	9,20	67	19	276	1/4" F														
1 Y 3 5 N 0 2 F A 7 M L 4 B V 0	36,0	9,53	70	43,2	11,43	84	19	276	1/4" F														
1 Y 3 5 N 0 2 F A 7 M F 4 B V 0	47,6	12,59	93	57,1	15,10	112	19	276	1/4" F														
1 Y 3 5 N 0 2 F A 7 M L 2 B V 0	57,1	15,11	112	68,5	18,13	134	18	261	1/4" F														

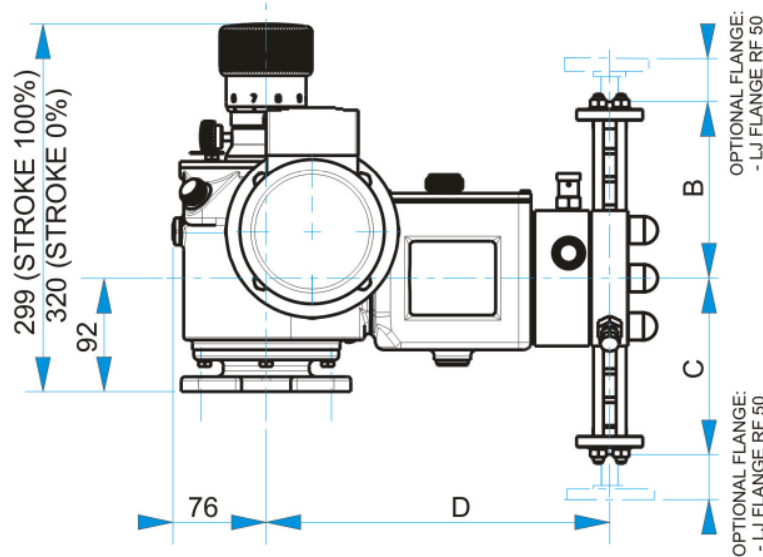
Test with water @ 20°C.

Fast delivery models

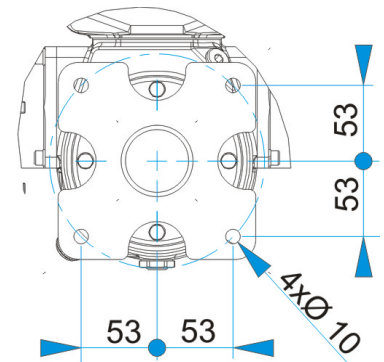


Allowable loads referred to pump nozzles

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]				EXTIMATED WEIGHT kg (without motor)	OPTIONAL FLANGE ANSI 300 MAX. TEMP. 38°C MAX. PRESSURE 40BAR SIZE
	A	B	C	D		
1Y06N02FC..	BSPP 1/4"F	144	144	282	30	1/2"
1Y08N02FC..	BSPP 1/4"F	144	144	282	30	1/2"
1Y10N02FC..	BSPP 1/4"F	144	144	282	30	1/2"
1Y12N02FC..	BSPP 1/4"F	149	149	279	30,5	1/2"
1Y15N02FB..	BSPP 1/4"F	126	126	279	30,5	1/2"
1Y20N02FB..	BSPP 1/4"F	149	149	279	30,5	1/2"
1Y25N02FB..	BSPP 1/4"F	163	163	279	33,5	1/2"
1Y30N02FA..	BSPP 1/4"F	128	128	279	33,5	1/2"
1Y35N02FA..	BSPP 1/4"F	128	128	279	33,5	1/2"

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