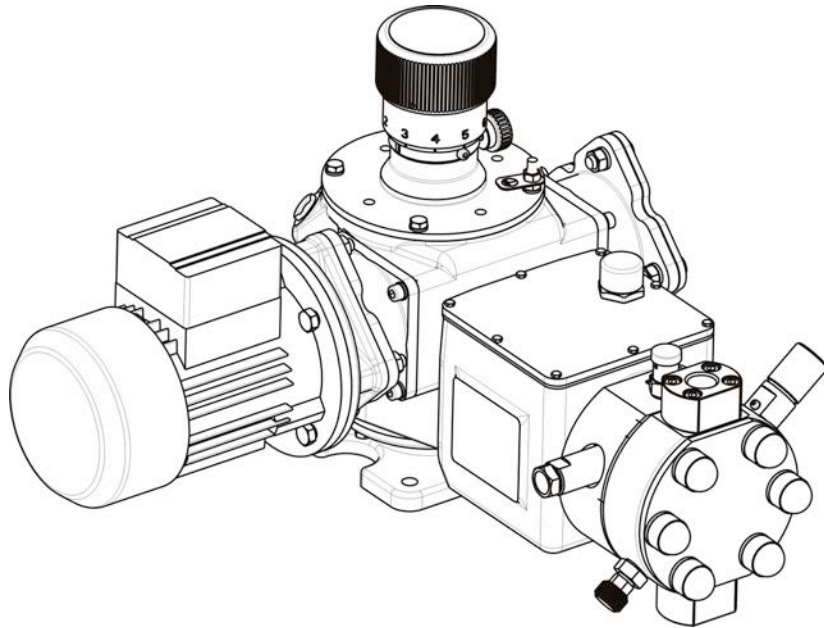



### Technical characteristics



- Flow rates: from 0,622 to 97,3 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 ± 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				
N0	Stroke length 10 mm				
7°/8°	Pump head material				
	HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT
5B	PP	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				
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)				

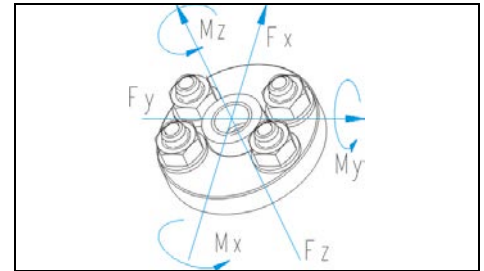
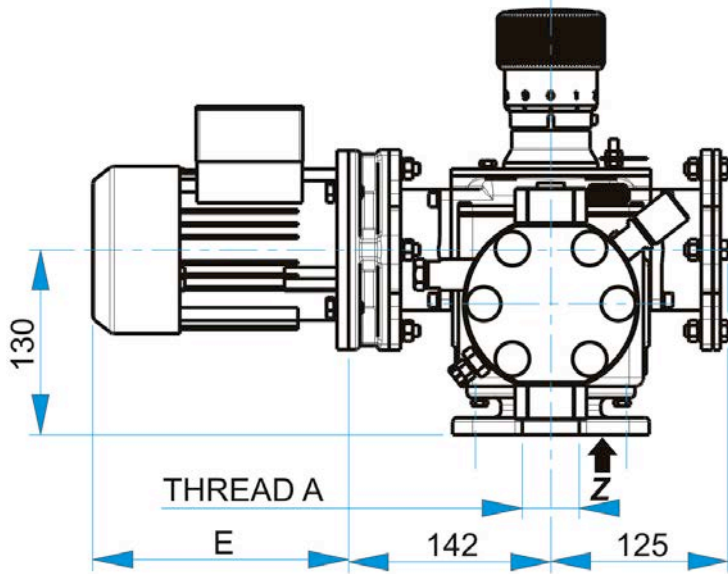
  

1	Y	06	N0	5B	B	7	M	L	6	B	V	0
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### HYDRAULIC CHARACTERISTICS

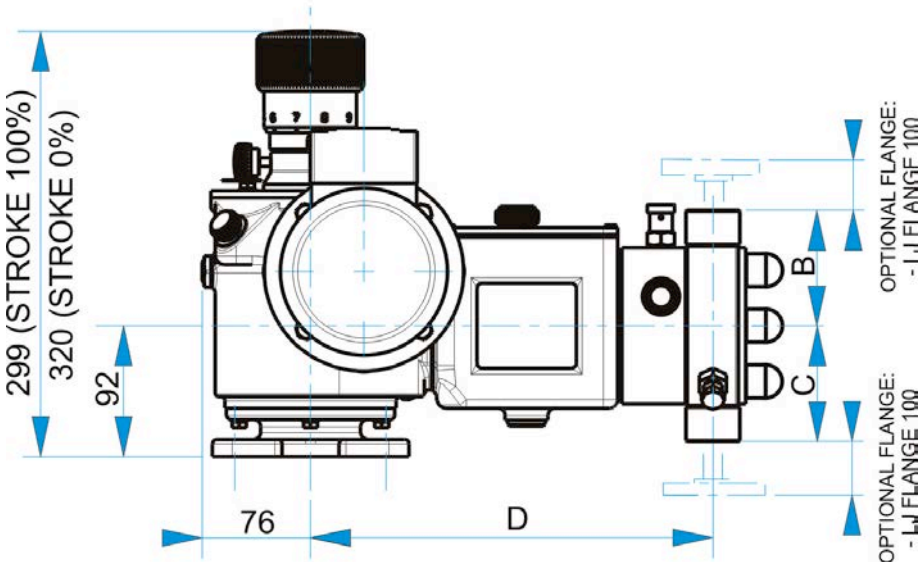
Performances:										50 Hz		60Hz		Liquid end material		PP			
				0,622/97,3 12		l/h bar		gph p.s.i.		0,197/30,9 174									
				Flow rate at max pressure		Max speed		Flow rate at max pressure		Max speed		Electric motor kW 0,18 B		Suc/Dis Connec					
Pump Model										Strokes			Strokes			Max press		Ø BSPP	NPSHr [barg]
										lph	gph	/min	lph	gph	/min	bar	p.s.i.		
1Y06N05BB7M L6BV0	0,622	0,164	37	0,746	0,197	44	12	174	1/2" F	-0,40									
1Y06N05BB7M I6BV0	0,790	0,209	47	0,948	0,250	56	12	174	1/2" F	-0,40									
1Y06N05BB7M L4BV0	0,912	0,241	56	1,094	0,289	67	12	174	1/2" F	-0,40									
1Y06N05BB7M I4BV0	1,093	0,289	70	1,312	0,347	84	12	174	1/2" F	-0,40									
1Y06N05BB7M F4BV0	1,390	0,367	93	1,668	0,441	112	12	174	1/2" F	-0,40									
1Y06N05BB7M L2BV0	1,636	0,432	112	1,963	0,519	134	12	174	1/2" F	-0,40									
1Y08N05BB7M I6BV0	1,05	0,28	47	1,26	0,33	56	12	174	1/2" F	-0,45									
1Y08N05BB7M L4BV0	1,27	0,34	56	1,52	0,40	67	12	174	1/2" F	-0,45									
1Y08N05BB7M I4BV0	1,61	0,43	70	1,93	0,51	84	12	174	1/2" F	-0,45									
1Y08N05BB7M F4BV0	2,18	0,58	93	2,62	0,69	112	12	174	1/2" F	-0,45									
1Y08N05BB7M L2BV0	2,65	0,70	112	3,18	0,84	134	12	174	1/2" F	-0,45									
1Y10N05BB7M I6BV0	1,60	0,42	47	1,92	0,51	56	12	174	1/2" F	-0,50									
1Y10N05BB7M L4BV0	2,05	0,54	56	2,46	0,65	67	12	174	1/2" F	-0,50									
1Y10N05BB7M I4BV0	2,75	0,73	70	3,30	0,87	84	12	174	1/2" F	-0,50									
1Y10N05BB7M F4BV0	3,91	1,03	93	4,69	1,24	112	12	174	1/2" F	-0,50									
1Y10N05BB7M L2BV0	4,86	1,28	112	5,83	1,54	134	12	174	1/2" F	-0,50									
1Y12N05BB7M I6BV0	2,89	0,76	47	3,47	0,92	56	12	174	1/2" F	-0,40									
1Y12N05BB7M L4BV0	3,46	0,91	56	4,15	1,10	67	12	174	1/2" F	-0,40									
1Y12N05BB7M I4BV0	4,36	1,15	70	5,23	1,38	84	12	174	1/2" F	-0,40									
1Y12N05BB7M F4BV0	5,83	1,54	93	7,00	1,85	112	12	174	1/2" F	-0,40									
1Y12N05BB7M L2BV0	7,04	1,86	112	8,45	2,23	134	12	174	1/2" F	-0,40									
1Y15N05BB7M I6BV0	4,59	1,21	47	5,51	1,46	56	12	174	1/2" F	-0,45									
1Y15N05BB7M L4BV0	5,44	1,44	56	6,53	1,73	67	12	174	1/2" F	-0,45									
1Y15N05BB7M I4BV0	6,75	1,78	70	8,10	2,14	84	12	174	1/2" F	-0,45									
1Y15N05BB7M F4BV0	8,92	2,36	93	10,70	2,83	112	12	174	1/2" F	-0,45									
1Y15N05BB7M L2BV0	10,71	2,83	112	12,85	3,39	134	12	174	1/2" F	-0,45									
1Y20N05BB7M I6BV0	8,3	2,2	47	10,0	2,6	56	12	174	1/2" F	-0,60									
1Y20N05BB7M L4BV0	9,9	2,6	56	11,9	3,1	67	12	174	1/2" F	-0,60									
1Y20N05BB7M I4BV0	12,4	3,3	70	14,9	3,9	84	12	174	1/2" F	-0,60									
1Y20N05BB7M F4BV0	16,5	4,4	93	19,8	5,2	112	12	174	1/2" F	-0,60									
1Y20N05BB7M L2BV0	19,9	5,3	112	23,9	6,3	134	12	174	1/2" F	-0,60									
1Y25N05BB7M I6BV0	10,3	2,7	37	12,4	3,3	44	12	174	1/2" F	-0,40									
1Y25N05BB7M I6BV0	13,0	3,4	47	15,6	4,1	56	12	174	1/2" F	-0,40									
1Y25N05BB7M L4BV0	15,4	4,1	56	18,5	4,9	67	12	174	1/2" F	-0,40									
1Y25N05BB7M I4BV0	19,3	5,1	70	23,2	6,1	84	12	174	1/2" F	-0,40									
1Y25N05BB7M F4BV0	25,5	6,7	93	30,6	8,1	112	12	174	1/2" F	-0,40									
1Y25N05BB7M L2BV0	30,7	8,1	112	36,8	9,7	134	12	174	1/2" F	-0,40									
1Y30N05BB7M L6BV0	14,8	3,9	37	17,8	4,7	44	12	174	1/2" F	-0,45									
1Y30N05BB7M I6BV0	18,7	4,9	47	22,4	5,9	56	12	174	1/2" F	-0,45									
1Y30N05BB7M L4BV0	22,2	5,9	56	26,6	7,0	67	12	174	1/2" F	-0,45									
1Y30N05BB7M I4BV0	27,7	7,3	70	33,2	8,8	84	12	174	1/2" F	-0,45									
1Y30N05BB7M F4BV0	36,8	9,7	93	44,2	11,7	112	12	174	1/2" F	-0,45									
1Y30N05BB7M L2BV0	44,2	11,7	112	53,0	14,0	134	12	174	1/2" F	-0,45									
1Y35N05BB7M L6BV0	20,0	5,3	37	24,0	6,3	44	12	174	1/2" F	-0,65									
1Y35N05BB7M I6BV0	25,2	6,7	47	30,2	8,0	56	12	174	1/2" F	-0,65									
1Y35N05BB7M L4BV0	29,9	7,9	56	35,9	9,5	67	12	174	1/2" F	-0,65									
1Y35N05BB7M I4BV0	37,2	9,8	70	44,6	11,8	84	12	174	1/2" F	-0,65									
1Y35N05BB7M F4BV0	49,1	13,0	93	58,9	15,6	112	12	174	1/2" F	-0,65									
1Y35N05BB7M L2BV0	58,9	15,6	112	70,7	18,7	134	12	174	1/2" F	-0,65									
1Y35N05BB7M I2BV0	73,4	19,4	140	88,1	23,3	168	12	174	1/2" F	0,00									
1Y35N05BB7M F2BV0	97,3	25,7	186	116,8	30,9	223	12	174	1/2" F	0,00									

Test with water @ 20°C.

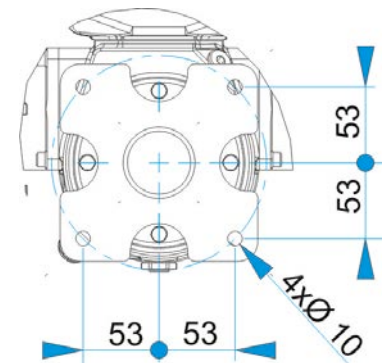


Allowable loads referred to pump nozzles

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 PN10 MAX. TEMP. 40°C SIZE
	A	B	C	D		
1Y06N05BB..	BSPP 1/2"F	82	82	285	28,5	DN15
1Y08N05BB..	BSPP 1/2"F	82	82	285	28,5	DN15
1Y10N05BB..	BSPP 1/2"F	82	82	285	28,5	DN15
1Y12N05BB..	BSPP 1/2"F	86	86	282	29	DN15
1Y15N05BB..	BSPP 1/2"F	86	86	282	29	DN15
1Y20N05BB..	BSPP 1/2"F	86	86	282	29	DN15
1Y25N05BB..	BSPP 1/2"F	101	101	282	31,5	DN15
1Y30N05BB..	BSPP 1/2"F	101	101	282	31,5	DN15
1Y35N05BB..	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	0.12	0.18	0.18	193	4	224	16