


### Technical characteristics

- Flow rates: from 0,44 to 216,9 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
- 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 (on request)
- 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=50	from 6 to 50 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										
A	1:7										
F	1:15										
I	1:20										
L	1:25										
V	1:8,5										
13°	Electric motors poles										
4	4 poles										
6	6 poles										
14°	Installed power										
B	0,18 kW										
C	0,25 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
---	---	----	----	----	---	---	---	---	---	---	---	---



# DOSING PUMP

## NEXA SERIES-Hydraulic Double Diaphragm

YNO  
316L

### HYDRAULIC CHARACTERISTICS

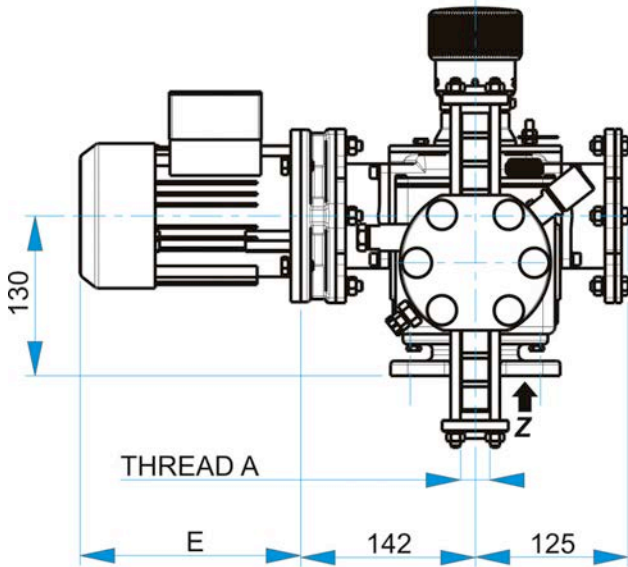
Performances:	50 Hz	60Hz	Pump Head and Mechanism Type	YNO		
	0,44/216,9 40/6	lph bar	gph p.s.i.	0,14/68,8 580/87	Liquid end material	316L

Flow rate at max pressure	Max speed	Flow rate at max pressure	Max speed	Electric motor kW		Suc/Dis Connec
				B	C	

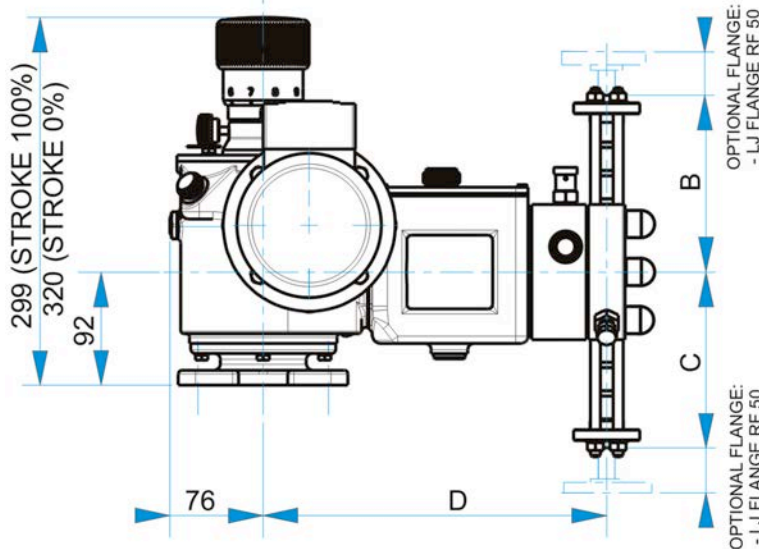
Pump Model	lph		gph		Strokes /min		Max pressure				Ø BSPP	NPSHr [barg]
	bar	p.s.i.	bar	p.s.i.	bar	p.s.i.	bar	p.s.i.	bar	p.s.i.		
1Y06N02FC7M14BVO	0,44	0,12	37	0,54	0,14	44	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	0,57	0,15	47	0,69	0,18	56	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	0,69	0,18	56	0,83	0,22	67	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	0,78	0,21	63	0,94	0,25	76	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	0,87	0,23	70	1,05	0,28	84	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	1,17	0,31	93	1,41	0,37	112	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	1,40	0,37	111	1,69	0,45	133	40	580	-	-	1/4" F	-0,40
1Y06N02FC7M14BVO	1,70	0,45	134	2,04	0,54	161	40	580	-	-	1/4" F	-0,30
1Y06N02FC7M14BVO	2,10	0,55	165	2,53	0,67	198	40	580	-	-	1/4" F	-0,30
1Y06N02FC7M14BVO	2,55	0,67	200	3,07	0,81	240	40	580	-	-	1/4" F	-0,30
1Y08N02FC7M14BVO	1,10	0,29	47	1,35	0,36	56	40	580	-	-	1/4" F	-0,45
1Y08N02FC7M14BVO	1,34	0,35	56	1,63	0,43	67	40	580	-	-	1/4" F	-0,45
1Y08N02FC7M14BVO	1,71	0,45	70	2,08	0,55	84	40	580	-	-	1/4" F	-0,45
1Y08N02FC7M14BVO	2,32	0,61	93	2,81	0,74	112	40	580	-	-	1/4" F	-0,45
1Y08N02FC7M14BVO	2,79	0,74	111	3,38	0,89	133	40	580	-	-	1/4" F	-0,45
1Y08N02FC7M14BVO	3,40	0,90	134	4,11	1,09	161	40	580	-	-	1/4" F	-0,25
1Y08N02FC7M14CVO	4,22	1,12	165	5,09	1,35	198	-	-	40	580	1/4" F	-0,25
1Y08N02FC7M14CVO	5,15	1,36	200	6,21	1,64	240	-	-	40	580	1/4" F	-0,25
1Y10N02FC7M14BVO	1,68	0,44	47	2,14	0,57	56	40	580	-	-	1/4" F	-0,50
1Y10N02FC7M14BVO	2,06	0,54	56	2,61	0,69	67	40	580	-	-	1/4" F	-0,50
1Y10N02FC7M14BVO	2,65	0,70	70	3,34	0,88	84	40	580	-	-	1/4" F	-0,50
1Y10N02FC7M14BVO	3,62	0,96	93	4,53	1,20	112	40	580	-	-	1/4" F	-0,50
1Y10N02FC7M14BVO	4,38	1,16	111	5,47	1,44	133	40	580	-	-	1/4" F	-0,50
1Y10N02FC7M14CVO	5,35	1,41	134	6,66	1,76	161	40	580	-	-	1/4" F	-0,25
1Y10N02FC7M14CVO	6,65	1,76	165	8,28	2,19	198	-	-	40	580	1/4" F	-0,25
1Y10N02FC7M14CVO	8,13	2,15	200	10,10	2,67	240	-	-	40	580	1/4" F	-0,25
1Y12N02FC7M14BVO	2,73	0,72	47	3,29	0,87	56	40	580	-	-	1/4" F	-0,40
1Y12N02FC7M14BVO	3,27	0,86	56	3,94	1,04	67	40	580	-	-	1/4" F	-0,40
1Y12N02FC7M14BVO	4,11	1,09	70	4,95	1,31	84	40	580	-	-	1/4" F	-0,40
1Y12N02FC7M14BVO	5,49	1,45	93	6,61	1,75	112	40	580	-	-	1/4" F	-0,40
1Y12N02FC7M14BVO	6,58	1,74	111	7,91	2,09	133	40	580	-	-	1/4" F	-0,40
1Y12N02FC7M14CVO	7,96	2,10	134	9,57	2,53	161	40	580	-	-	1/4" F	-0,35
1Y12N02FC7M14CVO	9,82	2,60	165	11,81	3,12	198	-	-	40	580	1/4" F	-0,35
1Y12N02FC7M14CVO	11,93	3,15	200	14,33	3,79	240	-	-	40	580	1/4" F	-0,35
1Y15N02FB7M14BVO	4,27	1,13	47	5,20	1,37	56	40	580	-	-	1/4" F	-0,45
1Y15N02FB7M14BVO	5,16	1,36	56	6,26	1,65	67	40	580	-	-	1/4" F	-0,45
1Y15N02FB7M14BVO	6,53	1,73	70	7,91	2,09	84	40	580	-	-	1/4" F	-0,45
1Y15N02FB7M14BVO	8,79	2,32	93	10,62	2,81	112	40	580	-	-	1/4" F	-0,45
1Y15N02FB7M14BVO	10,57	2,79	111	12,75	3,37	133	40	580	-	-	1/4" F	-0,40
1Y15N02FB7M14CVO	12,83	3,39	134	15,46	4,09	161	40	580	-	-	1/4" F	-0,40
1Y15N02FB7M14CVO	15,88	4,19	165	19,12	5,05	198	-	-	40	580	1/4" F	-0,30
1Y15N02FB7M14CVO	19,32	5,10	200	23,25	6,14	240	-	-	40	580	1/4" F	-0,30
1Y20N02FB7M14BVO	8,6	2,3	47	10,0	2,6	56	40	580	-	-	1/4" F	-0,60
1Y20N02FB7M14BVO	10,0	2,6	56	11,7	3,1	67	40	580	-	-	1/4" F	-0,60
1Y20N02FB7M14BVO	12,1	3,2	70	14,3	3,8	84	40	580	-	-	1/4" F	-0,60
1Y20N02FB7M14BVO	15,7	4,2	93	18,6	4,9	112	40	580	-	-	1/4" F	-0,60
1Y20N02FB7M14BVO	18,5	4,9	111	22,0	5,8	133	40	580	-	-	1/4" F	-0,40
1Y20N02FB7M14CVO	22,1	5,8	134	26,3	6,9	161	40	580	-	-	1/4" F	-0,40
1Y20N02FB7M14CVO	26,9	7,1	165	32,1	8,5	198	-	-	40	580	1/4" F	-0,30
1Y20N02FB7M14CVO	32,4	8,6	200	38,6	10,2	240	-	-	40	580	1/4" F	-0,30
1Y25N02FB7M14BVO	10,6	2,8	37	12,4	3,3	44	39	566	-	-	1/4" F	-0,40
1Y25N02FB7M14BVO	13,1	3,5	47	15,4	4,1	56	39	566	-	-	1/4" F	-0,40
1Y25N02FB7M14BVO	15,3	4,0	56	18,0	4,8	67	39	566	-	-	1/4" F	-0,40
1Y25N02FB7M14BVO	18,7	4,9	70	22,1	5,8	84	39	566	-	-	1/4" F	-0,40
1Y25N02FB7M14CVO	24,3	6,4	93	28,8	7,6	112	39	566	-	-	1/4" F	-0,40
1Y25N02FB7M14CVO	29,2	7,7	111	34,7	9,2	133	31	450	-	-	1/4" F	-0,40
1Y25N02FB7M14CVO	35,1	9,3	134	41,7	11,0	161	28	406	-	-	1/4" F	-0,20
1Y25N02FB7M14CVO	42,5	11,2	165	50,6	13,4	198	-	-	31	450	1/4" F	-0,20
1Y25N02FB7M14CVO	51,4	13,6	200	61,3	16,2	240	-	-	28	406	1/4" F	-0,20
1Y30N02FA7M14BVO	14,3	3,8	37	16,9	4,5	44	27	392	-	-	1/4" F	-0,45
1Y30N02FA7M14BVO	17,9	4,7	47	21,3	5,6	56	27	392	-	-	1/4" F	-0,45
1Y30N02FA7M14BVO	21,1	5,6	56	25,1	6,6	67	27	392	-	-	1/4" F	-0,45
1Y30N02FA7M14BVO	26,2	6,9	70	31,2	8,2	84	27	392	-	-	1/4" F	-0,45
1Y30N02FA7M14BVO	34,4	9,1	93	41,1	10,9	112	27	392	-	-	1/4" F	-0,45
1Y30N02FA7M14CVO	41,5	11,0	111	49,6	13,1	133	19	276	-	-	1/4" F	-0,45
1Y30N02FA7M14CVO	50,0	13,2	134	59,8	15,8	161	17	247	-	-	1/4" F	0
1Y30N02FA7M14CVO	61,1	16,1	165	73,1	19,3	198	-	-	19	276	1/4" F	0
1Y30N02FA7M14CVO	74,0	19,6	200	88,6	23,4	240	-	-	17	247	1/4" F	0
1Y35N02FA7M14BVO	20,7	5,5	37	24,5	6,5	44	19	276	-	-	1/4" F	-0,65
1Y35N02FA7M14BVO	25,9	6,8	47	30,7	8,1	56	19	276	-	-	1/4" F	-0,65
1Y35N02FA7M14BVO	30,5	8,1	56	36,3	9,6	67	19	276	-	-	1/4" F	-0,65
1Y35N02FA7M14BVO	37,8	10,0	70	45,1	11,9	84	19	276	-	-	1/4" F	-0,65
1Y35N02FA7M14CVO	49,7	13,1	93	59,4	15,7	112	19	276	-	-	1/4" F	-0,65
1Y35N02FA7M14CVO	59,4	15,7	111	71,0	18,8	133	14	203	-	-	1/4" F	-0,65
1Y35N02FA7M14CVO	71,6	18,9	134	85,6	22,6	161	12,5	181	-	-	1/4" F	-0,15
1Y35N02FA7M14CVO	87,6	23,2	165	104,9	27,7	198	-	-	14	203	1/4" F	-0,15
1Y35N02FA7M14CVO	106,1	28,0	200	127,1	33,6	240	-	-	12,5	181	1/4" F	-0,15
1Y50N02FA7M14BVO	38,7	10,2	37	46,6	12,3	44	9	131	-	-	1/2" F	-0,30
1Y50N02FA7M14BVO	49,4	13,1	47	59,4	15,7	56	9	131	-	-	1/2" F	-0,30
1Y50N02FA7M14BVO	59,0	15,6	56	71,0	18,8	67	9	131	-	-	1/2" F	-0,30
1Y50N02FA7M14BVO	74,0	19,5	70	88,9	23,5	84	9	131	-	-	1/2" F	-0,30
1Y50N02FA7M14CVO	98,5	26,0	93	118,4	31,3	112	9	131	-	-	1/2" F	-0,30
1Y50N02FA7M14CVO	119,6	31,6	111	143,7	38,0	133	6,5	94	-	-	1/2" F	-0,30
1Y50N02FA7M14CVO	145,0	38,3	134	174,2	46,0	161	6,0	87	-	-	1/2" F	-0,25
1Y50N02FA7M14CVO	178,2	47,1	165	214,0	56,5	198	-	-	6,5	94	1/2" F	-0,25
1Y50N02FA7M14CVO	216,9	57,3	200	260,4	68,8	240	-	-	6,0	87	1/2" F	-0,20

Test with water @ 20°C.

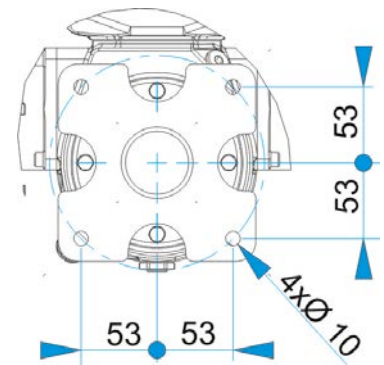
| SEKO S.p.A.



Allowable loads referred to pump nozzles				
BSPB 1/4"F	Fx-y-z	112 N	Mx-y-z	40 Nm
	Ft	158 N	Mt	57 Nm
BSPB 1/2"F	Fx-y-z	139 N	Mx-y-z	55 Nm
	Ft	196 N	Mt	79 Nm



### 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"
1Y50N02FA..	BSPP 1/2"F	128	128	297	53,5	1/2"

Electric motor size	4 Poles kw	6 Poles kw	TEFC 1xM16x1.5		EExde 1xM25x1.5	
			E	kg	E	kg
63	0.18	0.18	193	4	224	16
71	0.25	--	210	6	255	20