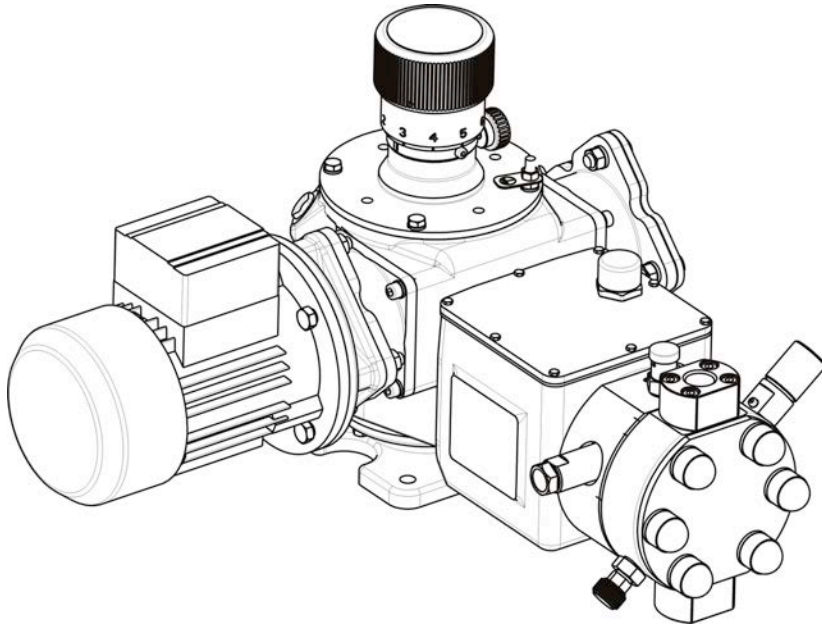



### Technical characteristics



- Flow rates: from 0,50 to 216,9 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 (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				
5B	HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT
	PP	PTFE	CERAMIC	FPM	FPM
9°	Valve type				
A	Single ball				
B	Double 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				
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	5B	B	7	M	L	6	B	V	0
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### HYDRAULIC CHARACTERISTICS

Performances :	50 Hz	60 Hz	Pump Head and Mechanism Type	YNO
	0,50/216,9 12	lph gph bar p.s.i.	0,16/68,8 174	Liquid end material PP

Flow rate at max pressure	Max speed	Flow rate at max pressure	Max speed	Electric motor kW		Suc/Dis Connec
				0,18 B	0,25 C	

Pump Model	50 Hz			60 Hz			Max pressure		Ø BSSP	NPSHr [barg]	
	lph	gph	Strokes /min	lph	gph	Strokes /min	bar	p.s.i.			
1Y06N05B7M1L6BVO	0,50	0,13	37	0,61	0,16	44	12	174	-	-	1/2" F -0,40
1Y06N05B7M1L6BVO	0,65	0,17	47	0,79	0,21	56	12	174	-	-	1/2" F -0,40
1Y06N05B7M1L4BVO	0,78	0,21	56	0,94	0,25	67	12	174	-	-	1/2" F -0,40
1Y06N05B7M1L6BVO	0,88	0,23	63	1,07	0,28	76	12	174	-	-	1/2" F -0,40
1Y06N05B7M1L4BVO	0,99	0,26	70	1,19	0,31	84	12	174	-	-	1/2" F -0,40
1Y06N05B7M1F4BVO	1,32	0,35	93	1,59	0,42	112	12	174	-	-	1/2" F -0,40
1Y06N05B7M1V6BVO	1,58	0,42	111	1,91	0,50	133	12	174	-	-	1/2" F -0,40
1Y06N05B7MA6BVO	1,92	0,51	134	2,31	0,61	161	12	174	-	-	1/2" F -0,30
1Y06N05B7M1V4BVO	2,37	0,63	165	2,85	0,75	198	12	174	-	-	1/2" F -0,30
1Y06N05B7MA4BVO	2,88	0,76	200	3,47	0,92	240	12	174	-	-	1/2" F -0,30
1Y08N05B7M1L6BVO	1,21	0,32	47	1,48	0,39	56	12	174	-	-	1/2" F -0,45
1Y08N05B7M1L4BVO	1,46	0,39	56	1,78	0,47	67	12	174	-	-	1/2" F -0,45
1Y08N05B7M1L6BVO	1,86	0,49	70	2,26	0,60	84	12	174	-	-	1/2" F -0,45
1Y08N05B7M1F4BVO	2,51	0,66	93	3,04	0,80	112	12	174	-	-	1/2" F -0,45
1Y08N05B7M1V6BVO	3,02	0,80	111	3,65	0,97	133	12	174	-	-	1/2" F -0,45
1Y08N05B7MA6BVO	3,68	0,97	134	4,44	1,17	161	12	174	-	-	1/2" F -0,25
1Y08N05B7M1V4CVO	4,56	1,20	165	5,49	1,45	198	-	-	12	174	1/2" F -0,25
1Y08N05B7MA4CVO	5,55	1,47	200	6,69	1,77	240	-	-	12	174	1/2" F -0,25
1Y10N05B7M1L6BVO	1,79	0,47	47	2,27	0,60	56	12	174	-	-	1/2" F -0,50
1Y10N05B7M1L4BVO	2,18	0,58	56	2,76	0,73	67	12	174	-	-	1/2" F -0,50
1Y10N05B7M1L6BVO	2,80	0,74	70	3,52	0,93	84	12	174	-	-	1/2" F -0,50
1Y10N05B7M1F4BVO	3,82	1,01	93	4,78	1,26	112	12	174	-	-	1/2" F -0,50
1Y10N05B7M1V6BVO	4,62	1,22	111	5,76	1,52	133	12	174	-	-	1/2" F -0,50
1Y10N05B7MA6BVO	5,64	1,49	134	7,01	1,85	161	12	174	-	-	1/2" F -0,25
1Y10N05B7M1V4CVO	7,01	1,85	165	8,70	2,30	198	-	-	12	174	1/2" F -0,25
1Y10N05B7MA4CVO	8,56	2,26	200	10,61	2,80	240	-	-	12	174	1/2" F -0,25
1Y12N05B7M1L6BVO	2,89	0,76	47	3,49	0,92	56	12	174	-	-	1/2" F -0,40
1Y12N05B7M1L4BVO	3,47	0,92	56	4,18	1,10	67	12	174	-	-	1/2" F -0,40
1Y12N05B7M1L6BVO	4,36	1,15	70	5,25	1,39	84	12	174	-	-	1/2" F -0,40
1Y12N05B7M1F4BVO	5,83	1,54	93	7,02	1,85	112	12	174	-	-	1/2" F -0,40
1Y12N05B7M1V6BVO	6,98	1,84	111	8,40	2,22	133	12	174	-	-	1/2" F -0,40
1Y12N05B7MA6BVO	8,45	2,23	134	10,16	2,68	161	12	174	-	-	1/2" F -0,35
1Y12N05B7M1V4CVO	10,43	2,75	165	12,53	3,31	198	-	-	12	174	1/2" F -0,35
1Y12N05B7MA4CVO	12,66	3,34	200	15,22	4,02	240	-	-	12	174	1/2" F -0,35
1Y15N05B7M1L6BVO	4,44	1,17	47	5,41	1,43	56	12	174	-	-	1/2" F -0,45
1Y15N05B7M1L4BVO	5,37	1,42	56	6,53	1,72	67	12	174	-	-	1/2" F -0,45
1Y15N05B7M1L6BVO	6,82	1,80	70	8,26	2,18	84	12	174	-	-	1/2" F -0,45
1Y15N05B7M1F4BVO	9,19	2,43	93	11,11	2,94	112	12	174	-	-	1/2" F -0,45
1Y15N05B7M1V6BVO	11,05	2,92	111	13,35	3,53	133	12	174	-	-	1/2" F -0,40
1Y15N05B7MA6BVO	13,43	3,55	134	16,20	4,28	161	12	174	-	-	1/2" F -0,40
1Y15N05B7M1V4CVO	16,63	4,39	165	20,04	5,29	198	-	-	12	174	1/2" F -0,30
1Y15N05B7MA4CVO	20,25	5,35	200	24,38	6,44	240	-	-	12	174	1/2" F -0,30
1Y20N05B7M1L6BVO	8,7	2,3	47	10,2	2,7	56	12	174	-	-	1/2" F -0,60
1Y20N05B7M1L4BVO	10,1	2,7	56	11,9	3,1	67	12	174	-	-	1/2" F -0,60
1Y20N05B7M1L6BVO	12,3	3,3	70	14,5	3,8	84	12	174	-	-	1/2" F -0,60
1Y20N05B7M1F4BVO	15,9	4,2	93	18,8	5,0	112	12	174	-	-	1/2" F -0,60
1Y20N05B7M1V6BVO	18,7	4,9	111	22,2	5,9	133	12	174	-	-	1/2" F -0,40
1Y20N05B7MA6BVO	22,3	5,9	134	26,5	7,0	161	12	174	-	-	1/2" F -0,40
1Y20N05B7M1V4CVO	27,1	7,2	165	32,2	8,5	198	-	-	12	174	1/2" F -0,30
1Y20N05B7MA4CVO	32,6	8,6	200	38,8	10,2	240	-	-	12	174	1/2" F -0,30
1Y25N05B7M1L6BVO	10,6	2,8	37	12,7	3,4	44	12	174	-	-	1/2" F -0,40
1Y25N05B7M1L4BVO	13,4	3,6	47	16,1	4,3	56	12	174	-	-	1/2" F -0,40
1Y25N05B7M1L6BVO	16,0	4,2	56	19,2	5,1	67	12	174	-	-	1/2" F -0,40
1Y25N05B7M1F4BVO	20,0	5,3	70	23,7	6,3	84	12	174	-	-	1/2" F -0,40
1Y25N05B7M1V6BVO	26,0	6,9	93	30,7	8,1	112	12	174	-	-	1/2" F -0,40
1Y25N05B7MA6BVO	30,5	8,1	111	36,1	9,5	133	12	174	-	-	1/2" F -0,40
1Y25N05B7M1V4CVO	36,3	9,6	134	43,1	11,4	161	12	174	-	-	1/2" F -0,20
1Y25N05B7MA4CVO	44,1	11,7	165	52,5	13,9	198	-	-	12	174	1/2" F -0,20
1Y25N05B7MA4CVO	53,0	14,0	200	63,1	16,7	240	-	-	12	174	1/2" F -0,20
1Y30N05B7M1L6BVO	14,9	3,9	37	17,6	4,7	44	12	174	-	-	1/2" F -0,45
1Y30N05B7M1L4BVO	18,6	4,9	47	22,0	5,8	56	12	174	-	-	1/2" F -0,45
1Y30N05B7M1L6BVO	21,9	5,8	56	26,0	6,9	67	12	174	-	-	1/2" F -0,45
1Y30N05B7M1F4BVO	27,0	7,1	70	32,1	8,5	84	12	174	-	-	1/2" F -0,45
1Y30N05B7M1V6BVO	35,4	9,4	93	42,2	11,2	112	12	174	-	-	1/2" F -0,45
1Y30N05B7MA6BVO	42,0	11,1	111	50,1	13,2	133	12	174	-	-	1/2" F -0,45
1Y30N05B7M1V4CVO	50,4	13,3	134	60,2	15,9	161	12	174	-	-	1/2" F 0
1Y30N05B7MA4CVO	61,7	16,3	165	73,8	19,5	198	-	-	12	174	1/2" F 0
1Y30N05B7MA4CVO	74,6	19,7	200	89,2	23,6	240	-	-	12	174	1/2" F 0
1Y35N05B7M1L6BVO	20,7	5,5	37	24,6	6,5	44	12	174	-	-	1/2" F -0,65
1Y35N05B7M1L4BVO	26,0	6,9	47	30,9	8,2	56	12	174	-	-	1/2" F -0,65
1Y35N05B7M1L6BVO	30,7	8,1	56	36,6	9,7	67	12	174	-	-	1/2" F -0,65
1Y35N05B7M1F4BVO	38,0	10,0	70	45,4	12,0	84	12	174	-	-	1/2" F -0,65
1Y35N05B7M1V6BVO	50,1	13,2	93	59,9	15,8	112	12	174	-	-	1/2" F -0,65
1Y35N05B7MA6BVO	59,5	15,7	111	71,2	18,8	133	12	174	-	-	1/2" F -0,65
1Y35N05B7M1V4CVO	71,6	18,9	134	85,7	22,6	161	12	174	-	-	1/2" F -0,15
1Y35N05B7MA4CVO	87,9	23,2	165	105,2	27,8	198	-	-	12	174	1/2" F -0,15
1Y35N05B7MA4CVO	106,2	28,1	200	127,2	33,6	240	-	-	12	174	1/2" F -0,15
1Y50N05B7M1L6BVO	38,7	10,2	37	46,6	12,3	44	9	131	-	-	1/2" F -0,30
1Y50N05B7M1L4BVO	49,4	13,1	47	59,4	15,7	56	9	131	-	-	1/2" F -0,30
1Y50N05B7M1L6BVO	59,0	15,6	56	71,0	18,8	67	9	131	-	-	1/2" F -0,30
1Y50N05B7M1F4BVO	74,0	19,5	70	88,9	23,5	84	9	131	-	-	1/2" F -0,30
1Y50N05B7M1V6BVO	98,5	26,0	93	118,4	31,3	112	9	131	-	-	1/2" F -0,30
1Y50N05B7MA6BVO	119,6	31,6	111	143,7	38,0	133	6,5	94	-	-	1/2" F -0,30
1Y50N05B7M1V4CVO	145,0	38,3	134	174,2	46,0	161	6,0	87	-	-	1/2" F -0,25
1Y50N05B7MA4CVO	178,2	47,1	165	214,0	56,5	198	-	-	6,5	94	1/2" F -0,25
1Y50N05B7MA4CVO	216,9	57,3	200	260,4	68,8	240	-	-	6,0	87	1/2" F -0,20

Test with water @ 20°C.

