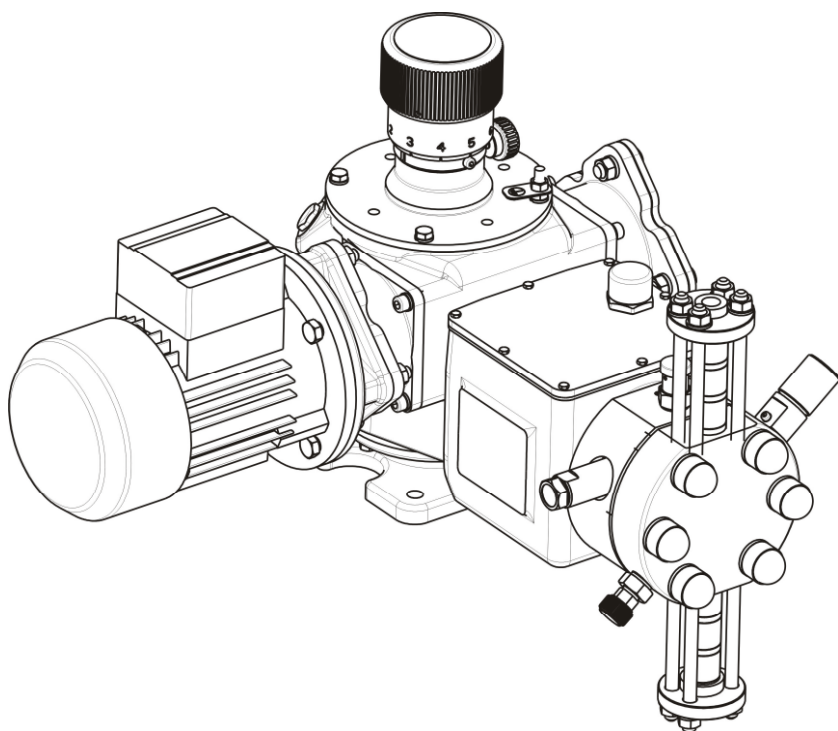




Technical characteristics

- Flow rates: from 0,06 to 5,17 lph @ 50 Hz
- Max Pressure: 200 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 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

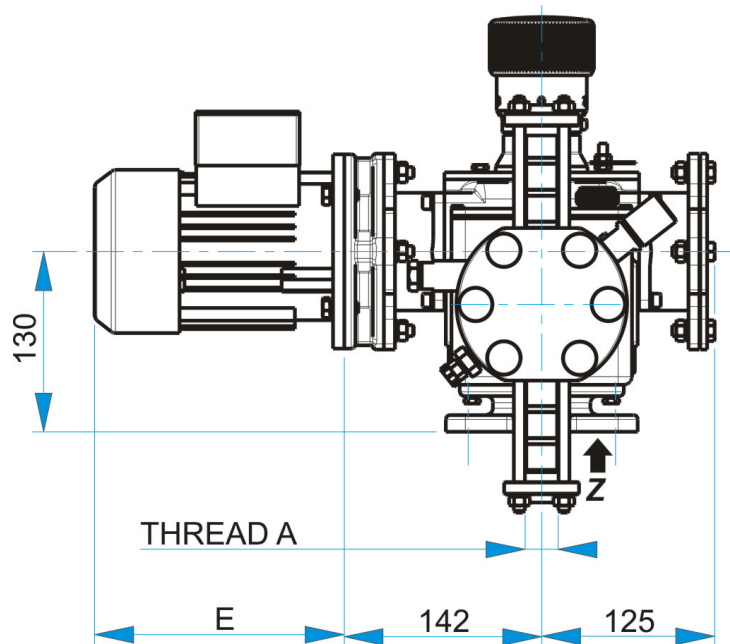
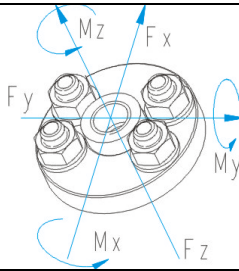
1°		Number of pump head										
1		Simplex pump										
2°		Type of pump head (double diaphragm or packed-plunger)										
H		Double diaphragm with built-in overpressure valve, air-bleed valve and mechanically actuated oil replenishing										
3°/4°		Plunger diameter										
06÷12		from 6 to 12 mm										
5°/6°		Mechanism model										
N0		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										
C		Triple balls										
10°		General options										
7		Standard execution										
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										
A		0,12 kW										
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	H	06	N0	2F	C	7	M	L	6	A	V	0
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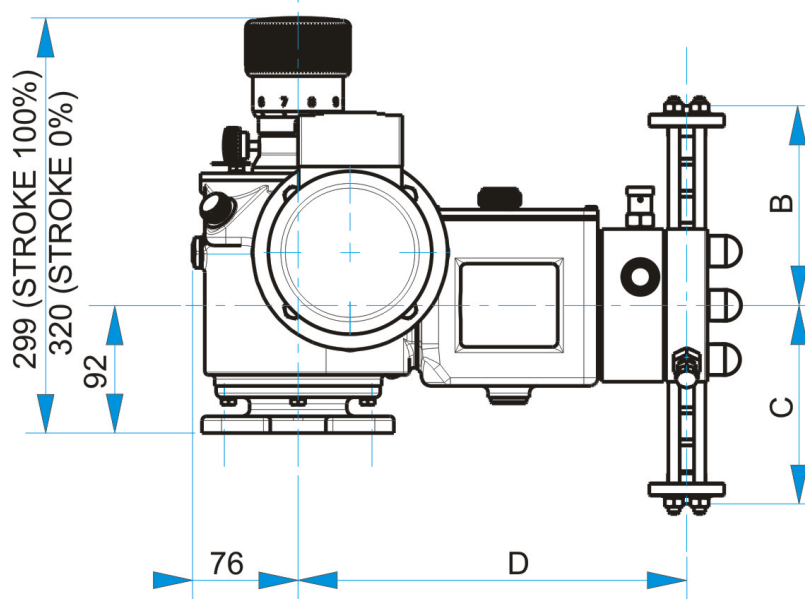
HYDRAULIC CHARACTERISTICS

Performances:														50 Hz			60Hz												
														0,06/5,17 200/142		l/h bar	gph p.s.i.		0,02/1.64 2009/2059		Liquid end material				316L				
														Flow rate at max pressure			Max speed	Flow rate at max pressure			Max speed	Electric motor kW				Suc/Dis Connec			
																						0,12		0,18					
																						A		B					
Pump Model														lph			gph	Strokes /min	lph			gph	Strokes /min	Max pressure				Ø BSPP	
																								bar	p.s.i.	bar	p.s.i.		
1	H	0	6	N	0	2	F	C	7	M	L	6	A	V	0	0,06	0,01	37	0,07	0,02	45	200	2900	-	-	1/4" F			
1	H	0	6	N	0	2	F	C	7	M	I	6	A	V	0	0,09	0,02	47	0,11	0,03	56	200	2900	-	-	1/4" F			
1	H	0	6	N	0	2	F	C	7	M	L	4	A	V	0	0,12	0,03	56	0,15	0,04	67	200	2900	-	-	1/4" F			
1	H	0	6	N	0	2	F	C	7	M	I	4	A	V	0	0,17	0,05	70	0,21	0,05	84	200	2900	-	-	1/4" F			
1	H	0	6	N	0	2	F	C	7	M	F	4	A	V	0	0,25	0,07	93	0,30	0,08	112	200	2900	-	-	1/4" F			
1	H	0	6	N	0	2	F	C	7	M	L	2	B	V	0	0,32	0,08	112	0,38	0,10	134	-	-	200	2900	1/4" F			
1	H	0	8	N	0	2	F	C	7	M	I	6	A	V	0	0,59	0,16	47	0,70	0,19	56	200	2900	-	-	1/4"F			
1	H	0	8	N	0	2	F	C	7	M	L	4	A	V	0	0,74	0,20	56	0,89	0,24	67	200	2900	-	-	1/4" F			
1	H	0	8	N	0	2	F	C	7	M	I	4	A	V	0	0,99	0,26	70	1,19	0,31	84	200	2900	-	-	1/4" F			
1	H	0	8	N	0	2	F	C	7	M	F	4	A	V	0	1,39	0,37	93	1,67	0,44	112	200	2900	-	-	1/4" F			
1	H	0	8	N	0	2	F	C	7	M	L	2	B	V	0	1,72	0,46	112	2,07	0,55	134	-	-	200	2900	1/4" F			
1	H	1	0	N	0	2	F	C	7	M	I	6	A	V	0	0,99	0,26	47	1,19	0,32	56	200	2900	-	-	1/4"F			
1	H	1	0	N	0	2	F	C	7	M	L	4	A	V	0	1,33	0,35	56	1,60	0,42	67	200	2900	-	-	1/4" F			
1	H	1	0	N	0	2	F	C	7	M	I	4	A	V	0	1,86	0,49	70	2,23	0,59	84	200	2900	-	-	1/4" F			
1	H	1	0	N	0	2	F	C	7	M	F	4	A	V	0	2,73	0,72	93	3,27	0,87	112	200	2900	-	-	1/4" F			
1	H	1	0	N	0	2	F	C	7	M	L	2	B	V	0	3,45	0,91	112	4,13	1,09	134	-	-	200	2900	1/4" F			
1	H	1	2	N	0	2	F	C	7	M	I	6	A	V	0	2,03	0,54	47	2,44	0,64	56	161	2335	-	-	1/4"F			
1	H	1	2	N	0	2	F	C	7	M	L	4	A	V	0	2,43	0,64	56	2,91	0,77	67	161	2335	-	-	1/4" F			
1	H	1	2	N	0	2	F	C	7	M	I	4	A	V	0	3,04	0,80	70	3,65	0,97	84	161	2335	-	-	1/4" F			
1	H	1	2	N	0	2	F	C	7	M	F	4	A	V	0	4,28	1,13	93	5,14	1,36	112	142	2059	-	-	1/4" F			
1	H	1	2	N	0	2	F	C	7	M	L	2	B	V	0	5,17	1,37	112	6,20	1,64	134	-	-	142	2059	1/4" F			

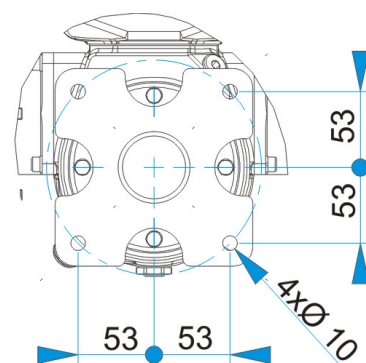
Test with water @ 20°C.

Allowable loads referred to pump nozzles			
F _x	0.10 kN	M _x	0.04 kNm
F _y	0.12 kN	M _y	0.04 kNm
F _z	0.10 kN	M _z	0.04 kNm



FIXING HOLES – VIEW FROM Z



PUMP MODEL	DIMENSIONS [mm]				ESTIMATED WEIGHT kg (without motor)
	A	B	C	D	
1H06N02FC..	BSPP 1/4"F	144	144	282	30
1H08N02FC..	BSPP 1/4"F	144	144	282	30
1H10N02FC..	BSPP 1/4"F	144	144	282	30
1H12N02FC..	BSPP 1/4"F	149	149	279	30,5

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	0.12	0.12	193	4	224	16