


### Technical characteristics

- Flow rates: from 0,185 to 4,98 lph @ 50 Hz
- Max Pressure: 20 MPa (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 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 spare 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 mode				
NO	Stroke length 10 mm				
7°/8°	Pump head material				
2F	HEAD	DIAPHRAGM	BALL	VALVE SEAL	VALVE SEAT
	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 (not available ATEX version)				
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)				

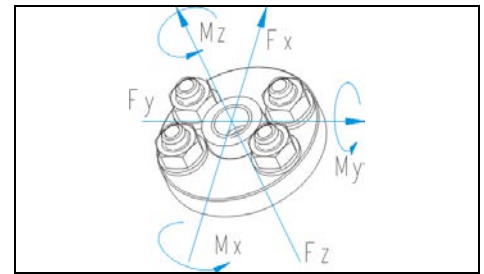
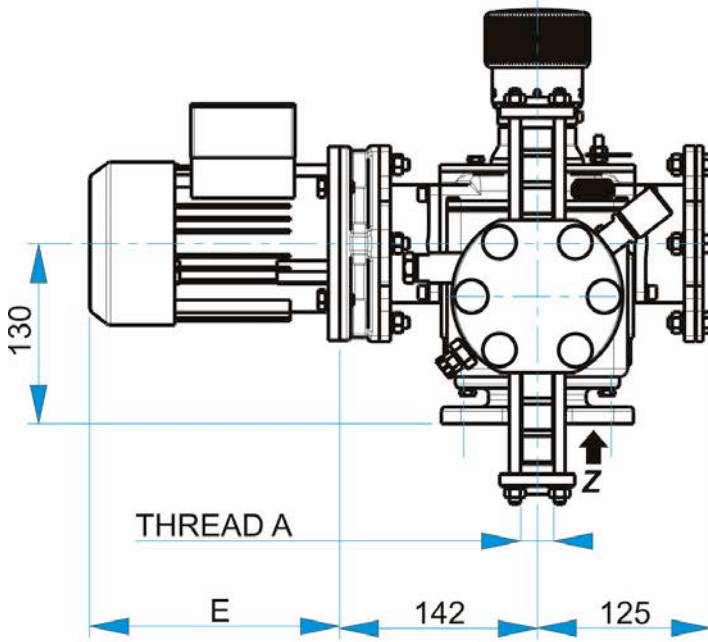
  

1	H	06	NO	2F	C	7	M	L	6	B	V	0
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### HYDRAULIC CHARACTERISTICS

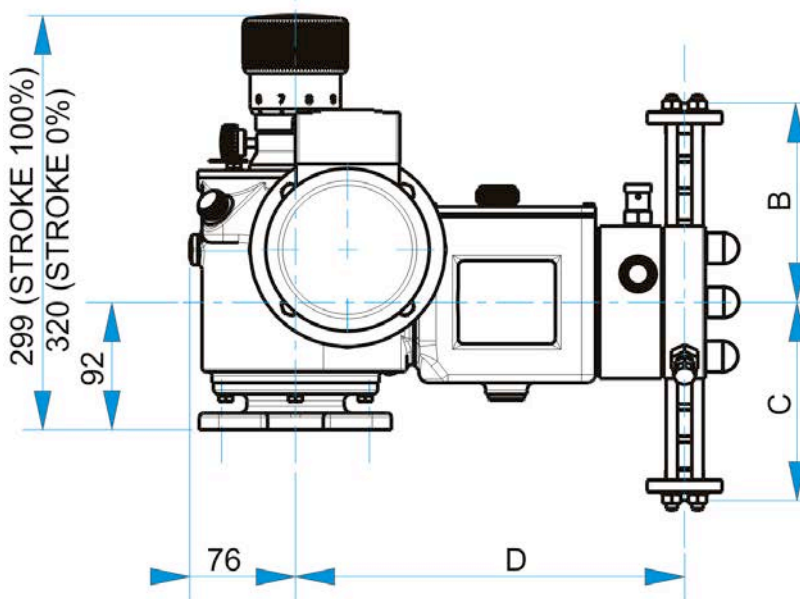
Performances:		50 Hz		60Hz				Liquid end material		316L	
		0,185/4,98 200/155		l/h bar		gph p.s.i.		0,059/1,58 2900/2248			
		Flow rate at max pressure		Max speed		Flow rate at max pressure		Max speed		Electric motor kW <b>0,18</b> <b>B</b>	
										Suc/Dis Connec	
Pump Model							Max pressure		Ø BSP	NPSHr [barg]	
	lph	gph	Strokes /min	lph	gph	Strokes /min	bar	p.s.i.			
1H06N02FC7M:L6B V0	0,185	0,049	37	0,222	0,059	44	200	2900	1/4" F	-0,40	
1H06N02FC7M:I6B V0	0,214	0,057	47	0,257	0,068	56	200	2900	1/4" F	-0,40	
1H06N02FC7M:L4B V0	0,241	0,064	56	0,289	0,076	67	200	2900	1/4" F	-0,40	
1H06N02FC7M:I4B V0	0,281	0,074	70	0,337	0,089	84	200	2900	1/4" F	-0,40	
1H06N02FC7M:F4B V0	0,348	0,092	93	0,418	0,110	112	200	2900	1/4" F	-0,40	
1H06N02FC7M:L2B V0	0,404	0,107	112	0,485	0,128	134	200	2900	1/4" F	-0,40	
1H08N02FC7M:I6B V0	0,59	0,16	47	0,71	0,19	56	200	2900	1/4" F	-0,45	
1H08N02FC7M:L4B V0	0,74	0,20	56	0,89	0,24	67	200	2900	1/4" F	-0,45	
1H08N02FC7M:I4B V0	0,99	0,26	70	1,19	0,31	84	200	2900	1/4" F	-0,45	
1H08N02FC7M:F4B V0	1,39	0,37	93	1,67	0,44	112	200	2900	1/4" F	-0,45	
1H08N02FC7M:L2B V0	1,72	0,45	112	2,06	0,54	134	200	2900	1/4" F	-0,45	
1H10N02FC7M:I6B V0	0,99	0,26	47	1,19	0,31	56	200	2900	1/4" F	-0,50	
1H10N02FC7M:L4B V0	1,33	0,35	56	1,60	0,42	67	200	2900	1/4" F	-0,50	
1H10N02FC7M:I4B V0	1,86	0,49	70	2,23	0,59	84	200	2900	1/4" F	-0,50	
1H10N02FC7M:F4B V0	2,73	0,72	93	3,28	0,87	112	200	2900	1/4" F	-0,50	
1H10N02FC7M:L2B V0	3,45	0,91	112	4,14	1,09	134	200	2900	1/4" F	-0,50	
1H12N02FC7M:I6B V0	2,03	0,54	47	2,44	0,64	56	161	2335	1/4" F	-0,40	
1H12N02FC7M:L4B V0	2,43	0,64	56	2,92	0,77	67	161	2335	1/4" F	-0,40	
1H12N02FC7M:I4B V0	3,04	0,80	70	3,65	0,96	84	161	2335	1/4" F	-0,40	
1H12N02FC7M:F4B V0	4,06	1,07	93	4,87	1,29	112	161	2335	1/4" F	-0,40	
1H12N02FC7M:L2B V0	4,98	1,32	112	5,98	1,58	134	155	2248	1/4" F	-0,40	

Test with water @ 20°C.

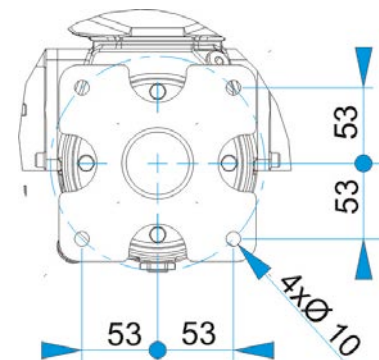


**Allowable loads referred to pump nozzles**

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 MODEL	DIMENSIONS [mm]				EXTIMATED 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	0.18	0.18	193	4	224	16