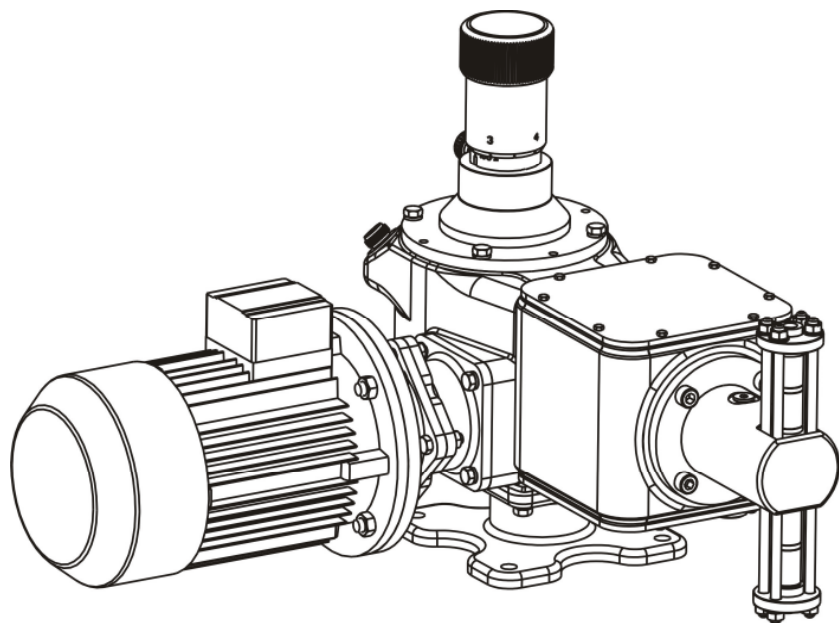


Technical characteristics



- Flow rates: from 15,6 to 1061 lph @ 50Hz
- Max Pressure: 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 cP (Higher on request)
- Stroke adjustment during operation from 0 to 100%
- Accuracy ± 1 % on the turndown ratio 10:1
- Min NPSHr: 3 mwc $\rightarrow$ High suction capability
- 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.

Plunger Pumphead:

- Reliable and easy maintenance
- Ready for flushing connection or for leakage recovery system connection
- Plunger coating or mechanical surface hardening for heavy-duty application

PUMP KEY CODE

1°	Number of pump head					
1	Simplex pump					
2°	Type of pump head (double diaphragm or packed-plunger)					
P	Packed plunger with square section rings					
3°/4°	Plunger diameter					
15÷90	from 15 to 90 mm					
5°/6°	Mechanism model					
N1	Stroke length 25 mm					
7°/8°	Pump head material					
	HEAD	PLUNGER	SEAL PACK	BALL	VALVE SEAL	VALVE SEAT
1A	316SS	316SS + CERAMIC	ARAMIDIC FIBER	316SS	316SS	316SS
7Y	316SS	316SS	PTFE	316SS	316SS	316SS
9°	Valve type					
A	Single ball					
B	Double 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					
D	1:12					
F	1:15					
13°	Electric motors poles					
4	4 poles					
6	6 poles					
14°	Installed power					
E	0,55 kW					
F	0,75 kW					
G	1,10 kW					
15°	Pump head options					
F	Flushing connections					
16°	Mechanism options					
0	Standard execution					
5	Compliance with regulation "ATEX" 94/4/CE II 2 G c IIB T4 (for zone 1) (*)					

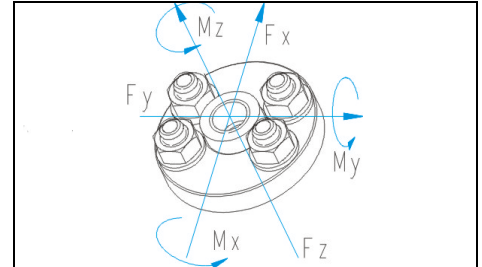
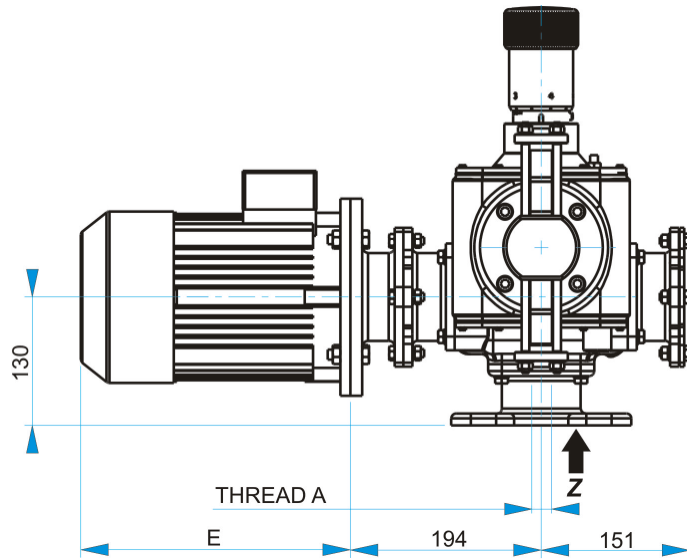
(*) for toxic, inflammable, hazardous and/or pyrophoric liquids packed plunger pumps are not suitable.

HYDRAULIC CHARACTERISTICS

Prestazioni/Performances:														50 Hz			60Hz															
														15,6/1061 40/7,5			l/h bar		gph p.s.i.			5/336.7 580/109			Materiale testa Liquid end material						316L	
														Portata alla max pressione			Max velocità		Portata alla max pressione			Max velocità		Motore Elettrico Kw Electric motor kW						Attacchi asp/scar		
														Flow rate at max pressure			Max speed		Flow rate at max pressure			Max speed		0,55 E		0,75 F		1,1 G		Suc/Dis Connec		
Modello Pompa Pump Model														Corse-			Corse-			Max pressione/Max pressure						Ø BSPP						
														lph	gph	Strokes /min	lph	gph	Strokes /min	bar	p.s.i.	bar	p.s.i.	bar	p.s.i.							
1	P	1	5	N	1	1	A	B	7	M	F	6	E	F	0	15,6	4,1	62	19	5,0	74	40	580	-	-	-	-	1/4" F				
1	P	1	5	N	1	1	A	B	7	M	D	6	E	F	0	19,6	5,2	78	24	6,2	94	40	580	-	-	-	-	1/4" F				
1	P	1	5	N	1	1	A	B	7	M	F	4	E	F	0	23,4	6,2	93	28	7,4	112	40	580	-	-	-	-	1/4" F				
1	P	1	5	N	1	1	A	B	7	M	D	4	E	F	0	29,5	7,8	117	35	9,4	-	40	580	-	-	-	-	1/4" F				
1	P	2	0	N	1	1	A	B	7	M	F	6	E	F	0	27,8	7,3	62	33	8,8	74	40	580	-	-	-	-	1/4" F				
1	P	2	0	N	1	1	A	B	7	M	D	6	E	F	0	34,9	9,2	78	42	11,1	94	40	580	-	-	-	-	1/4" F				
1	P	2	0	N	1	1	A	B	7	M	F	4	E	F	0	41,6	11,0	93	50	13,2	112	40	580	-	-	-	-	1/4" F				
1	P	2	0	N	1	1	A	B	7	M	D	4	E	F	0	52,4	13,9	117	63	16,6	-	40	580	-	-	-	-	1/4" F				
1	P	3	0	N	1	1	A	B	7	M	F	6	F	F	0	62	16,5	62	75	19,8	74	-	-	40	580	-	-	1/2" F				
1	P	3	0	N	1	1	A	B	7	M	D	6	F	F	0	79	20,8	78	94	24,9	94	-	-	40	580	-	-	1/2" F				
1	P	3	0	N	1	1	A	B	7	M	F	4	G	F	0	94	24,8	93	112	29,7	112	-	-	-	-	40	580	1/2" F				
1	P	3	0	N	1	1	A	B	7	M	D	4	G	F	0	118	31,2	117	141	37,4	-	-	-	-	-	40	580	1/2" F				
1	P	4	0	N	1	1	A	A	7	M	F	6	F	F	0	111	29,4	62	133	35,2	74	-	-	40	580	-	-	3/4" F				
1	P	4	0	N	1	1	A	A	7	M	D	6	F	F	0	140	37,0	78	168	44,3	94	-	-	40	580	-	-	3/4" F				
1	P	4	0	N	1	1	A	A	7	M	F	4	G	F	0	167	44,1	93	200	52,9	112	-	-	-	-	40	580	3/4" F				
1	P	4	0	N	1	1	A	A	7	M	D	4	G	F	0	210	55,4	117	251	66,5	-	-	-	-	-	40	580	3/4" F				
1	P	5	0	N	1	7	Y	A	7	M	F	6	F	F	0	173	45,9	62	208	55,1	74	-	-	24	348	-	-	3/4" F				
1	P	5	0	N	1	7	Y	A	7	M	D	6	F	F	0	218	57,7	78	262	69,3	94	-	-	25	363	-	-	3/4" F				
1	P	5	0	N	1	7	Y	A	7	M	F	4	G	F	0	260	68,8	93	312	82,6	112	-	-	-	-	25	363	3/4" F				
1	P	5	0	N	1	7	Y	A	7	M	D	4	G	F	0	327	86,6	117	393	103,9	-	-	-	-	-	25	363	3/4" F				
1	P	7	0	N	1	7	Y	A	7	M	F	6	F	F	0	340	89,9	62	408	107,9	74	-	-	13	189	-	-	1" F				
1	P	7	0	N	1	7	Y	A	7	M	D	6	F	F	0	428	113,2	78	513	135,8	94	-	-	13	189	-	-	1" F				
1	P	7	0	N	1	7	Y	A	7	M	F	4	G	F	0	510	134,9	93	612	161,9	112	-	-	-	-	13	189	1" F				
1	P	7	0	N	1	7	Y	A	7	M	D	4	G	F	0	642	169,7	117	770	203,7	-	-	-	-	-	13	189	1" F				
1	P	9	0	N	1	7	Y	A	7	M	F	6	F	F	0	562	148,7	62	674	178,4	74	-	-	7,5	109	-	-	1" F				
1	P	9	0	N	1	7	Y	A	7	M	D	6	F	F	0	707	187,1	78	849	224,5	94	-	-	7,5	109	-	-	1" F				
1	P	9	0	N	1	7	Y	A	7	M	F	4	G	F	0	843	223,0	93	1012	267,6	112	-	-	-	-	7,5	109	1" F				
1	P	9	0	N	1	7	Y	A	7	M	D	4	G	F	0	1061	280,6	117	1273	336,7	-	-	-	-	-	7,5	109	1" F				

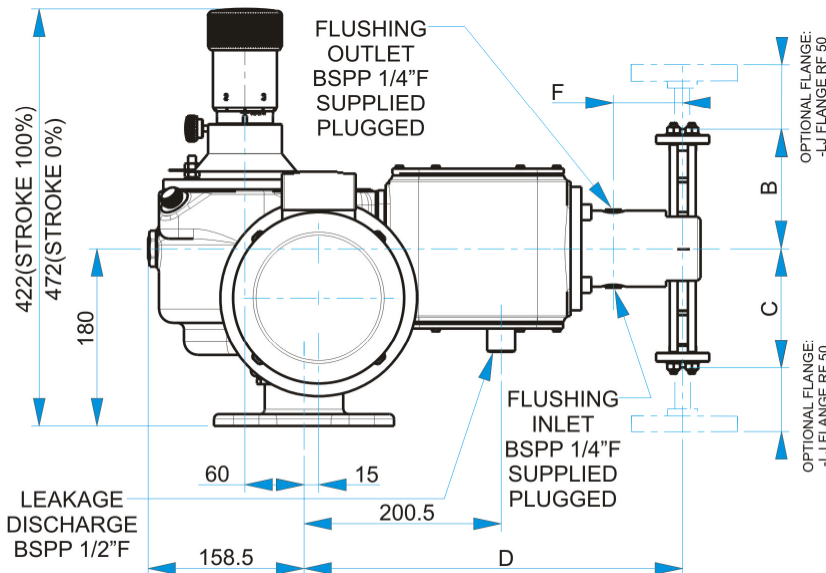
Test with water @ 20°C.

Fast delivery models

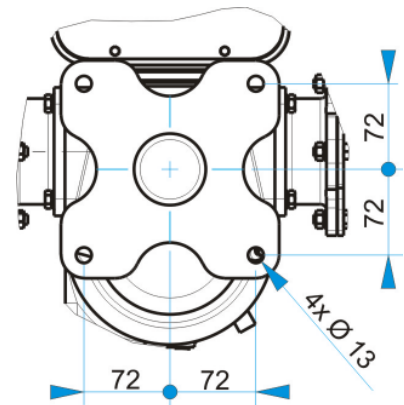


Allowable loads referred to pump nozzles

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)	OPTIONAL FLANGE ANSI 300 MAX. TEMP. 38°C MAX. PRESSURE 40BAR SIZE
	A (EN10226)	B	C	D	F		
1P15N11AB..	BSPP 1/4"F	121	121	370	64	59.5	1/2"
1P20N11AB..	BSPP 1/4"F	121	121	385	71	60	1/2"
1P30N11AB..	BSPP 1/2"F	119	119	380	65	60	1/2"
1P40N11AA..	BSPP 3/4"F	137	137	388	67	75,5	1"
1P50N17YA..	BSPP 3/4"F	137	137	388	67	75,5	1"
1P70N17YA..	BSPP 1"F	157	157	385	64	79,5	1"
1P90N17YA..	BSPP 1"F	174	174	389	71	88	1"

Electric motor size	4 Poles Kw	6 Poles Kw	TEFC 1xM20x1.5		EExde 1xM25x1.5	
			E	Kg	E	Kg
90	1.1	0.75	260	12	340	33
80	0.55	0.55	255	9	290	26