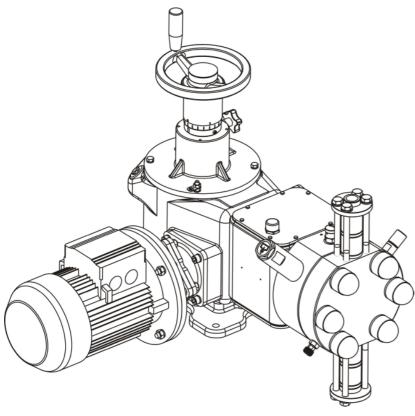


NEXA SERIES-Hydraulic Double Diaphragm





Technical characteristics

Flow rates: from 19,1 to 110 lph @ 50Hz

• 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 ± 1 % on the turndown ratio 10:1

Built-in overpressure valve

• Min NPSHr: 3 mwc → 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 (Ex) 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.

1 of 4

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

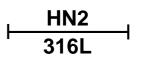
- High capacity flexibility→ On site easy volume changing by changing the piston cartridge
- Easy to change spares parts (all "one cartridge" solution).
- Maximum compatibility PTFE diaphragm
- Visual or remote diaphragm failure detection



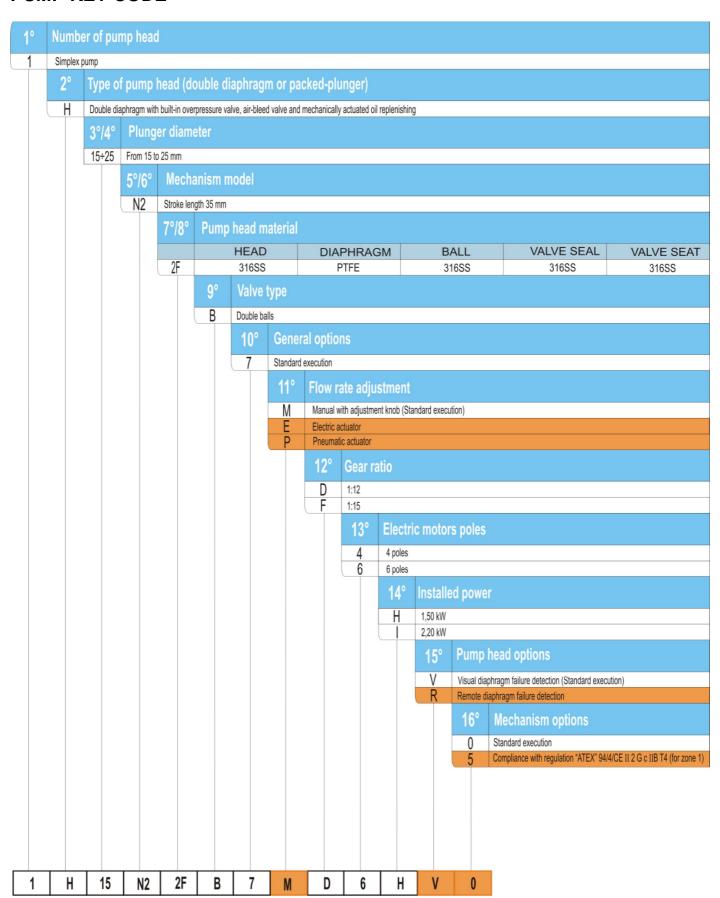
| SEKO S.p.A.



NEXA SERIES-Hydraulic Double Diaphragm



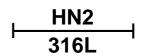
PUMP KEY CODE







NEXA SERIES-Hydraulic Double Diaphragm



HYDRAULIC CHARACTERISTICS

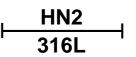
| ı | Performances: | | | | | | | | | | | | | | | | | 50 Hz | 60Hz | | | | | | | |
|---|---------------|---|-----|---|---|---|---|---|---|---|---|-----|---------|-----|-----------------|----------------------|------|-----------------|---------------|------------------------|--------------|----------|-----------------------|--------------|---------------------|-------------------|
| | | | | | | | | | | | | | | | | 19,1/110 200/157 | | l/h bar | gph p.s.i. | 6.1/34 560/1 | | Liquid є | | end material | | 316L |
| | | | | | | | | | | | | | | | | Flow i ma pres | ax | Max speed | m | rate at ax ssure | Max speed | 1 | ilectric r ,5 H | l | <i>W</i> ,2 I | Suc/Dis Connec |
| | Pump Model | | | | | | | | | | | | lph | anh | Strokes /min | lph | anh | Strokes /min | bar | Max pr | essure | p.s.i. | Ø BSPP F | | | |
| | r unip model | | | | | | | | | | | gph | /111111 | | gph | /111111 | Dai | • | Dai | μ.δ.ι. | | | | | | |
| • | Н | 1 | 5 | N | 2 | 2 | F | В | 7 | M | F | 6 | Н | ٧ | 0 | 19,1 | 5,0 | 62 | 22,9 | 6,1 | 74 | 200 | 2900 | - | - | 1/4" |
| • | Н | 1 | 5 | N | 2 | 2 | F | В | 7 | M | D | 6 | Н | ٧ | 0 | 23,5 | 6,2 | 78 | 28,3 | 7,5 | 94 | 200 | 2900 | - | - | 1/4" |
| • | Н | 1 | 5 | N | 2 | 2 | F | В | 7 | M | F | 4 | Н | ٧ | 0 | 27,7 | 7,3 | 93 | 33,3 | 8,8 | 112 | 200 | 2900 | - | - | 1/4" |
| • | Н | 1 | 5 | N | 2 | 2 | F | В | 7 | M | D | 4 | Н | ٧ | 0 | 34,5 | 9,1 | 117 | 41,4 | 10,9 | 140 | 200 | 2900 | - | - | 1/4" |
| | Н | 2 | 2 0 | N | 2 | 2 | F | В | 7 | M | F | 6 | Н | ٧ | 0 | 40,1 | 10,6 | 62 | 48,1 | 12,7 | 74 | 200 | 2900 | - | - | 1/4" |
| - | Н | 2 | 2 0 | N | 2 | 2 | F | В | 7 | M | D | 6 | Н | ٧ | 0 | 49,3 | 13,0 | 78 | 59 | 15,7 | 94 | 200 | 2900 | - | - | 1/4" |
| | Н | 2 | 2 0 | N | 2 | 2 | F | В | 7 | M | F | 4 | ı | ٧ | 0 | 58 | 15,3 | 93 | 70 | 18,4 | 112 | - | - | 200 | 2900 | 1/4" |
| , | Н | 2 | 2 0 | N | 2 | 2 | F | В | 7 | М | D | 4 | ı | ٧ | 0 | 72 | 19,0 | 117 | 86 | 22,8 | 140 | - | - | 200 | 2900 | 1/4" |
| • | Н | 2 | 2 5 | N | 2 | 2 | F | В | 7 | М | F | 6 | Н | ٧ | 0 | 60 | 15,8 | 62 | 72 | 19,0 | 74 | 157 | 2277 | - | - | 1/2" |
| • | Н | 2 | 2 5 | N | 2 | 2 | F | В | 7 | М | D | 6 | н | ٧ | 0 | 74 | 19,7 | 78 | 89 | 23,6 | 94 | 148 | 2146 | - | - | 1/2" |
| | Н | 2 | 2 5 | N | 2 | 2 | F | В | 7 | М | F | 4 | ı | ٧ | 0 | 88 | 23,3 | 93 | 106 | 27,9 | 112 | - | - | 157 | 2277 | 1/2" |
| • | Н | 2 | 2 5 | N | 2 | 2 | F | В | 7 | М | D | 4 | ı | ٧ | 0 | 110 | 29,0 | 117 | 132 | 34,8 | 140 | - | - | 157 | 2277 | 1/2" |

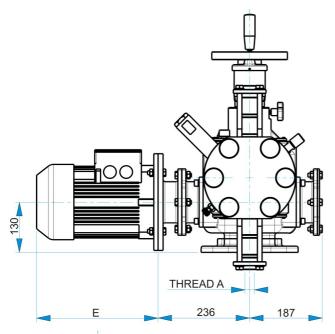
Test with water @ 20°C.

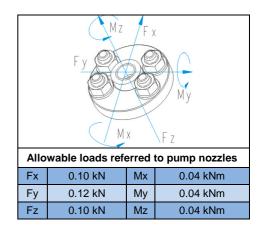


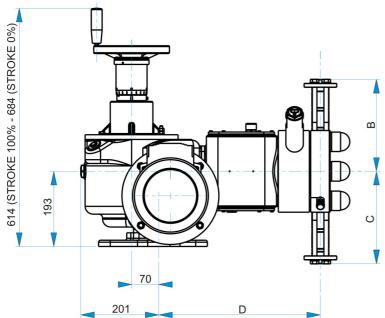


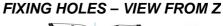
NEXA SERIES-Hydraulic Double Diaphragm

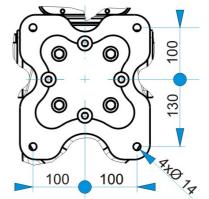












| | DIN | EXTIMATED WEIGHT | | | |
|-----------|-------------|------------------|-----|-----|--------------------|
| PUMP MDEL | A (EN10226) | В | С | D | kg (without motor) |
| 1Y15N22FB | BSPP 1/4"F | 168 | 168 | 381 | 110 |
| 1Y20N22FB | BSPP 1/4"F | 168 | 168 | 381 | 110 |
| 1Y25N22FB | BSPP 1/2"F | 200 | 200 | 422 | 131 |

| Electric | 4 Poles | 6 Poles | TE 1xM2 | FC 0x1.5 | EExde 1xM25x1.5 | | |
|------------|---------|---------|------------|-------------|--------------------|----|--|
| motor size | kw | kw | E | kg | E | kg | |
| 90 | 1.5 | 0.75 | 260 | 12 | 340 | 33 | |
| 100 | 2.2 | 1.50 | 320 | 22 | 370 | 46 | |

