

NRZ SERIES

Fluid Control Metering Pump





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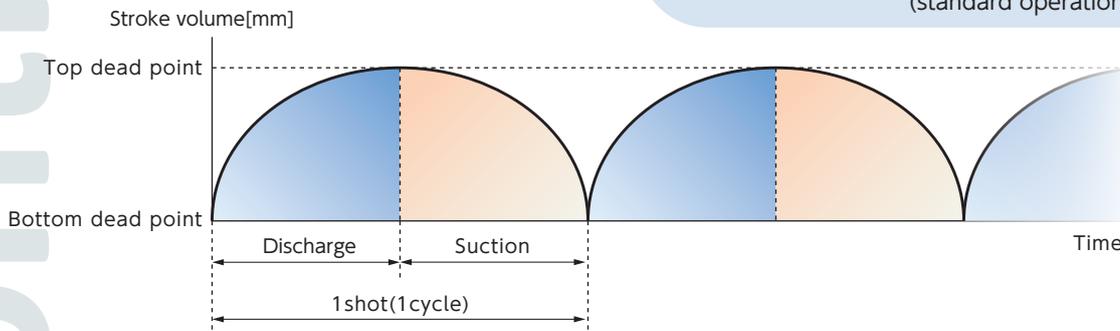
Various application the injection

NCM

Constant speed motion (NCM) : standard operation

Discharge Process Time = Suction Process Time

Set equal a time of suction and discharge within one (1) stroke.
(standard operation mode)

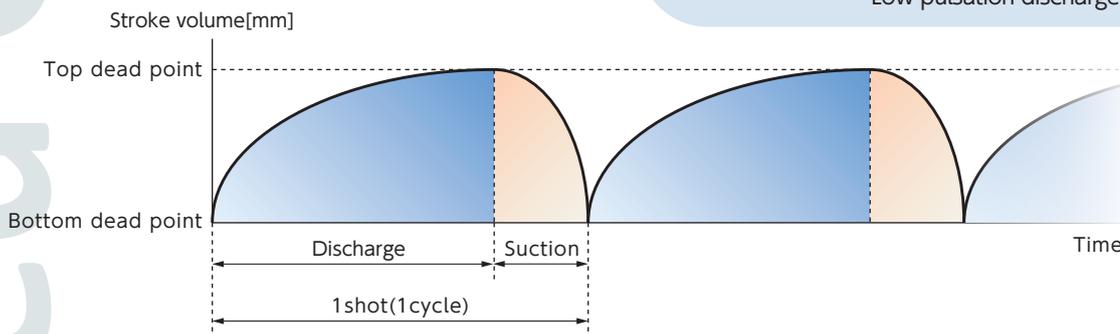


DCM

Low pulsation motion (DCM)

Discharge Process Time > Suction Process Time

Fix the suction time within one (1) stroke and set the discharge time longer.
Low pulsation discharge is possible.

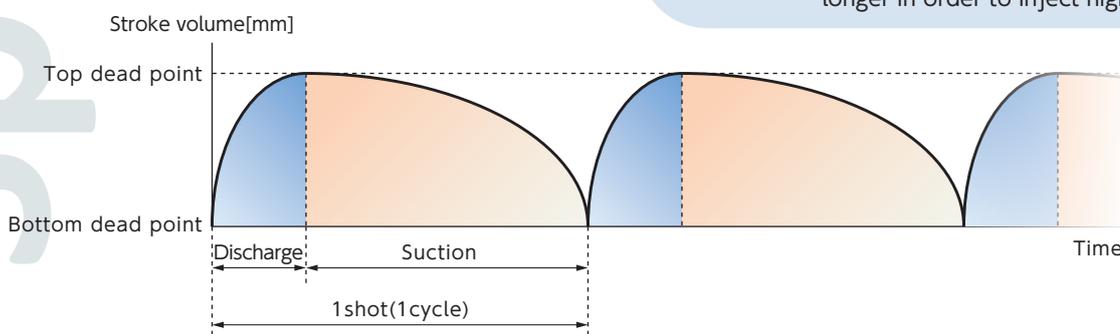


SCM

High viscous liquid motion (SCM)

Discharge Process Time < Suction Process Time

Fix the discharge time within one (1) stroke and set the suction time longer in order to inject high viscous liquid.



use by controlling speed and/or timing



Mode selection

Can be chosen from 3 kinds of control method by the application and/or injection timing.

| | Manual mode (ON/OFF) | Signal input 1 | Signal input 2※ | Pulse signal output※ | Operation signal output※ |
|------------------------|----------------------|----------------|-----------------|----------------------|--------------------------|
| T : Timer mode | ✓ | ✓ | — | — | — |
| P : Pulse mode | ✓ | ✓ | ✓ | ✓ | ✓ |
| A : Analog mode | ✓ | ✓ | ✓ | ✓ | ✓ |

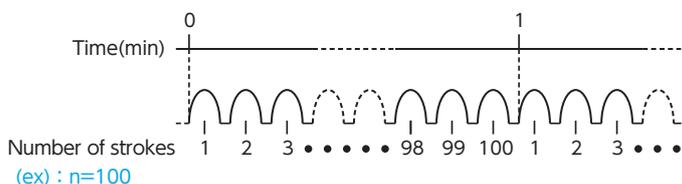
※Only one of can be set.

Manual mode

(equipped on all types)

Set the number of strokes [n] per minute.

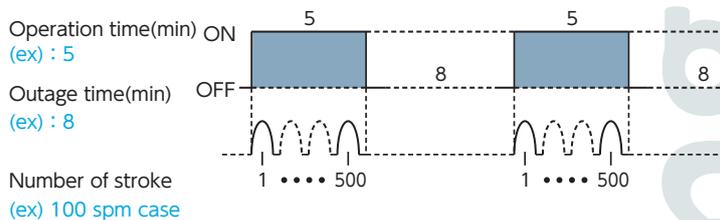
Model : Possible setting range NRZ15 : 1~50 NRZ750 : 1~100
 NRZ30 : 1~100 NRZ1125 : 1~150



T : Timer mode

Individually set the time in operation and idle and repeated operation under the set conditions.

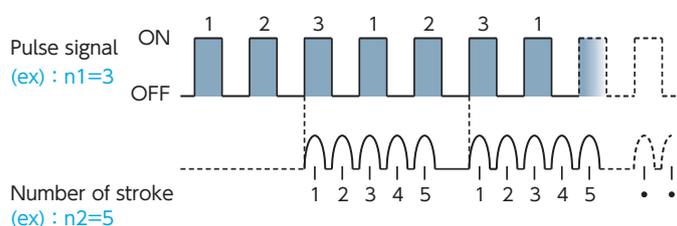
* Possible setting range (in operation / idle) : 1~9999 (sec. / min. / 10min.)



P : Pulse mode

Set the stroke number [n2] for the pulse signal [n1] (non-voltage contact) output from the flow meter.

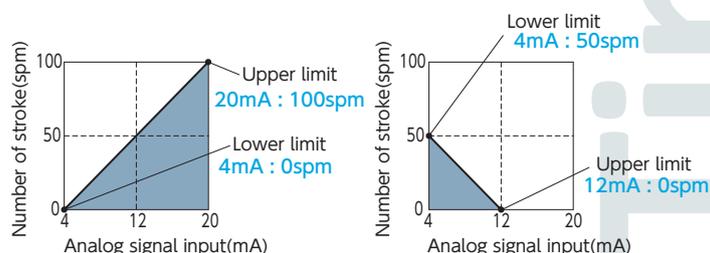
* Possible setting range (number of pulse / number of stroke) : 1~9999



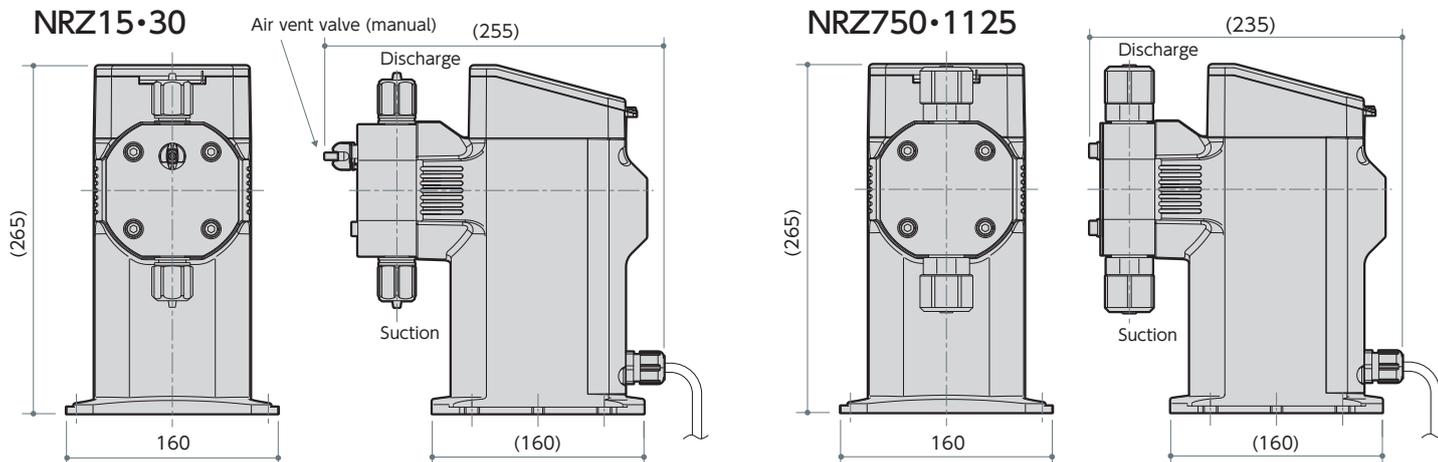
A : Analog mode

Set the value of lower and upper signal and set the number of stroke for lower and upper values.

* Possible setting range (input signal) : DC4.0~20.0mA
 Possible setting range (number of stroke) : 0~100spm



Dimensions



Specification Sheet

| Model | NRZ15 | NRZ30 | NRZ750 | NRZ1125 |
|----------------------------------|--|-------|----------------------------|---------|
| Max. Discharge Capacity (mL/min) | 15 | 30 | 750 | 1125 |
| Max. Discharge Pressure (MPa) | 1.0 | 1.0 | 0.5 | 0.2 |
| Diaphragm diameter | φ38.5 | | φ70 | |
| Connecting hose size | φ4×φ9 PVC braided hose | | φ9×φ15 PVC braided hose ※1 | |
| Number of stroke (spm) | 1~50 | 1~100 | 1~100 | 1~150 |
| Stroke length | 2mm | | 5mm | |
| Stroke length adjustable range | 50~100% (adjustable every 5%) digital adjustment | | | |
| Motion select | Constant Speed Motion (NCM), Low Pulse Motion (DCM)※2, High viscous liquid motion (SCM) ※2 | | | |
| Power / Frequency | Single phase AC100~240V 50/60Hz | | | |
| Max. current | 2.0A(optimized for load) | | | |
| Average power consumption | 22W | | | |
| Operating environment | Ambient temp. 5~40deg.C (41~104deg.F), Relative humidity: less than 90% | | | |
| Pumping liquid | Temperature 5~40deg.C (41~104deg.F), Viscosity: less than 3000mPa · s , NO Slurry | | | |
| Protection type | IP65 equivalent (dust/water proof) | | | |
| Net weight | 4.0 kg (8.8 lb) approx. | | | |

※1 Liquid end for high viscous liquid (>500 mPa · s) is only applicable for NRZ750 model with braided hose size is φ12 x φ18. ※2 Recommendable number of stroke : lower than 50spm.

Model

| Series | Max. discharge capacity and Pressure | Material | | | Circuit | Hose connection type |
|------------|--------------------------------------|---|------------------------|------------------------------------|--|---|
| | | Liquid end | Ball valve | O-Ring | | |
| NRZ | 750 | P | C | F | T | CS |
| | 15 : 15mL/min × 1.0MPa | P : Standard PVC | C : Ceramics | F : FKM (chemical proof) | T : ON/OFF timer control | CS : Coupler at discharge |
| | 30 : 30mL/min × 1.0MPa | K : PVC for high viscous liquid | M : SUS316 | E : EPDM | P : Pulse signal control | CD : Coupler at suction and discharge |
| | 750 : 750mL/min × 0.5MPa | | | | A : Analog signal (4-20mA) control | |
| | 1125 : 1125mL/min × 0.2MPa | | | | | |

⚠ Notice for the safety operation : To use a pump for safety, be sure to read the instruction manual before your operation.

Product(s) (including parts, technical data or information thereto) described in this catalog shall be subject to export control laws and regulations of Japan or US. You need to obtain the approval from appropriate government(s) when you export if such laws and regulations require.

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