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# NEO DRAIN

BUILT TOUGH FOR HARSH CONDENSATE

## Key Features of Neo Drain

### Securely isolated spring for extended valve life

The actuating spring is completely isolated from the condensate path, preventing exposure to rust and debris. This protection reduces stress, ensures smooth operation, and extends valve life.

### Longer service life

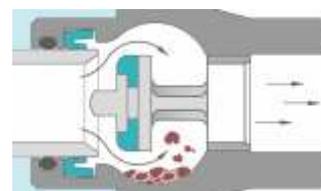
The piston is aligned with the flow, eliminating lateral forces on the spring. This reduces wear, improves structural integrity, and ensures a more durable, long-lasting valve.

### Superior Sealing with Lip Seal Technology

Durable lip seal and O-ring construction maintains sealing efficiency over extended cycles, despite exposure to aggressive condensate.

### Features of Neo Drain's Digital timer

- 3 modes of Operation
  - Open at starting
  - Close at starting
  - One cycle mode
- 4-digit LCD display



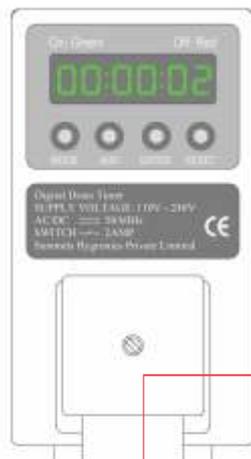
### Self-Clearing Flow Path

Neo Drain's innovative 45° flow diversion helps to sweep out all particles ensuring no clogging of valve.

### Digital timer

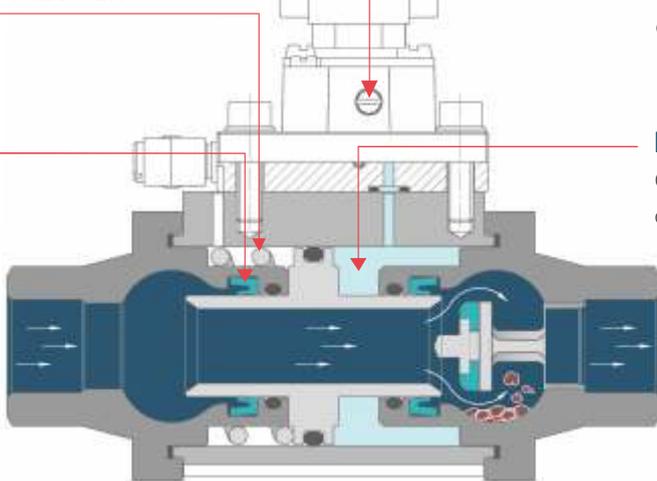
Green numerals for On-time  
Red numerals for Off-time

Shock proof to 100m/s<sup>2</sup>, 3 times each in 3 axes and 6 directions



### Securely isolated spring for extended valve life

### Lip Seal Technology



### Manual Test Knob

User can actuate the valve simply by turning the knob to ascertain discharge performance.

### Lowest air consumption

Owing to its minimal actuating space, it consumes only 0.0074cfm dry air per operation.

## Technical data

Model	Neo Drain 604 DQ	Neo Drain 3K4 DQ
Quick selection guide	High discharge rate	Super-high discharge rate
Orifice, mm	12.5	25
Operating pressure, bar(g)	16	16
Operating temperature, °C	5 to 60	5 to 60
Max. discharge capacity, lph	2682	6300
Rated discharge capacity, lph	345	812
After cooler / Moisture separator, cfm	3575	8400
Air receiver, liter	15000	33000
Pre-filter, cfm	9000	21000
Refrigeration air dryer, cfm	10000	25000
Operation	Pilot	Pilot
Dimension, (WxDxH) mm	130x100x190	160x115x220
Weight, kg	0.95	1.9
Inlet & Outlet size, BSPP(F)	1/2"	1"
Power, watts	8	8
Power supply	230V AC (Also available in other voltages)	
Body material	Aluminium	
Seals	Nitrile	
Electrical connection	DIN 43650-A	
Ingress protection	Ip65	
Settable On/Off time	1 second to 99 hrs, 59 minutes & 59 seconds	

### Nomenclature:

e.g.: Neo Drain 604 DQ  
Neo Drain: Product Series  
60: Capacity grouping number  
4: Operating voltage, 230V AC  
D: Maximum operating pressure, 16 bar(g)  
Q: Valve type, Pilot operated

### Note:

Discharge capacity is rated at 7 bar(g).  
For pressure other than 7 bar(g), multiply the discharge capacity given for 7 bar(g) by  $0.378 \times \sqrt{P}$ .

The rated discharge capacity is based on 2 seconds On and 1 minute Off.

Maximum discharge capacity is based on 10 seconds On and 30 seconds Off.

Pilot port size: M5 x 6mm OD tube;  
Pilot air pressure: 4 to 8 bar(g).

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