Nugget 30 Series Valves

Nugget 30
5/2 and 5/3-Position V02 Valves

Multipole and electrical wireway for easy installation
Cv of .27 from 10 mm body width
Modular base system for DIN rail or surface mounting
Multipole connection – ready for use
Low power solenoids with built-in LED and surge suppression
Ø 63 mm bore cylinder capability
Internal and external pilot versions

Technical data

Medium:
Compressed air, filtered to 5 µm, lubricated and non-lubricated
Mounting: Modular sub-base
Port sizes:
10-32 UNF thread (fixed length subbase)
1/8”, 5/32” or 1/4” interchangeable
Pneufit push-in cartridges (modular manifolding subbase)
1/4”, or 3/8” interchangeable Pneufit push-in cartridges, supply and exhaust on end plates
Note: Metric Tubing Push-In Cartridges available. See website.

Operating pressure:
Maximum 102 psig
Flow:
Size Cv
10-32 pipe fitting 0.18
5/32” tubing 0.16
1/4” tubing 0.27

Ambient temperature:
41°F to 122°F (-15°C to +50°C).
Consult our Technical Service for use below +35°F.

Materials
Bodies: aluminum and co-polymer
Spool: aluminum
Single & rail bases: aluminum
Seals: nitrile
Springs & yoke: stainless steel
Modular bases: reinforced co-polymers
Fittings: nickel plated brass

Voltage codes

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Code</th>
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<tbody>
<tr>
<td>12 V d.c. (optional)</td>
<td>2</td>
</tr>
<tr>
<td>24 V d.c. (standard)</td>
<td>3</td>
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Electrical details for solenoid operators

Voltage tolerances: ±10%
Power: 1 W (24 V = 41 mA, 12 V = 83 mA)
Power indicator: LED (red)
Surge suppressor: Fly-wheel diode
Manual override: Push button, spring return with locking facility
Insulation class: B
Connection: Side or bottom plug connector. Only one plug needed for double solenoid, common –v*

* D sub-connector via multipole.
V02 - Nugget 30 valve islands

Solenoid actuated spool valves

Modular & fixed length sub-base

5/2 & 5/3, M5, Ø 4 mm, Ø 6 mm

Dimensions in inches (mm)

V025516A & V025526A
Single solenoid valves

Double solenoid valves

Double Solenoid Pilot, 2-Position

Double Solenoid Pilot, Spring Centered, 3-Position

C/P43149/1
Single Subbase

C/P43149/* Fixed Length Subbase Manifold

Base Assembly with Multipole

Note: Shaded area is the Separator Base.

*Insert the voltage code:
2 for 12 VDC (Consult factory for delivery)
3 for 24 VDC

Dimensions in inches (mm)
Valves

**V01 - Nugget 30**

Solenoid actuated
3-port/2-position V01 Valves

Extremely compact, high performance valves
Single and fixed length bases
Low power solenoids with built-in LED and surge suppression

**Technical Data**

**Fluids:**
Lubricated or non-lubricated compressed air, filtered to 5 microns.

**Operating Pressure:**
15 to 102 psig (1 to 7 bar)

**Temperature Range:**
41°F to 122°F (5° to 50°C)

**Cv:** 0.015

**Port Size:**
10-32 UNF thread (on subbase)

**Solenoid Valves**

**Voltages and Power Requirements:**
- 24V DC (standard): 1W
- 12V DC (optional)*: 1W

**Voltage Tolerances:**
±10% rated voltage

**Power Indicator:**
LED (red)

**Surge Suppressor:**
Fly-wheel diode

**Manual Override:**
Combination locking/non-locking Coil Type:
Class B Side plug

**Operation:**
Direct acting poppet

**Enclosure Classification:**
NEMA 1

*Consult factory for delivery

**Materials of Construction**
- **Body:** Aluminum and co-polymer
- **Single and fixed length bases:** Aluminum
- **Seals:** Nitrile
- **Springs and Yoke:** Stainless Steel
- **Fittings:** Nickel plated brass

*Insert voltage code
2 = 12 V DC
3 = 24 V DC

Dimensions in inches (mm)
Nugget 30
Accessories
Dimensions in inches (mm)

D Sub-connector with cable
Type: 25 pin D sub-connector
Cable size 0.22 mm²

V025516A–Q2210 3' (1.0)
V025516A–Q2230 10' (3.0)
V025516A–Q2250 16' (5.0)

D Sub-connector ribbon cable
Type: 25 pin D sub-connector
Cable size 0.08 mm²

V025516A–Q4310 3' (1.0)
V025516A–Q4330 10' (3.0)
V025516A–Q4350 16' (5.0)

Pinch Plugs (for 5/2 and 5/3 valves)
V025516A–Q20**
Type: 2-wire negative common, for single solenoid
Model: V025516A–Q21**
Type: 3-wire negative common, for double solenoid

Pneufit Blanking Plug
Use to plug unused ports on manifold subbase.

Nickel plated brass Blanking Plug
1/8” 12-004-0100
5/32” (4 mm) 12-004-0200
1/4” 12-004-0400
3/8” 12-004-0600

Thermoplastic Blanking Plug
5/32” (4 mm) 11-004-0400
1/4” 94-050-904
3/8” 94-050-906
6 mm 11-004-0600
8 mm 11-004-0800

Supply/exhaust fittings
Size Model
1/4” 120000025
3/8” 120000006
Ø 8 mm 100000008

Cylinder port fittings
Size Model
1/8” 120000013
5/32” 100000004
1/4” 120000004
4 mm 100000004
6 mm 100000006
8 mm 100000008