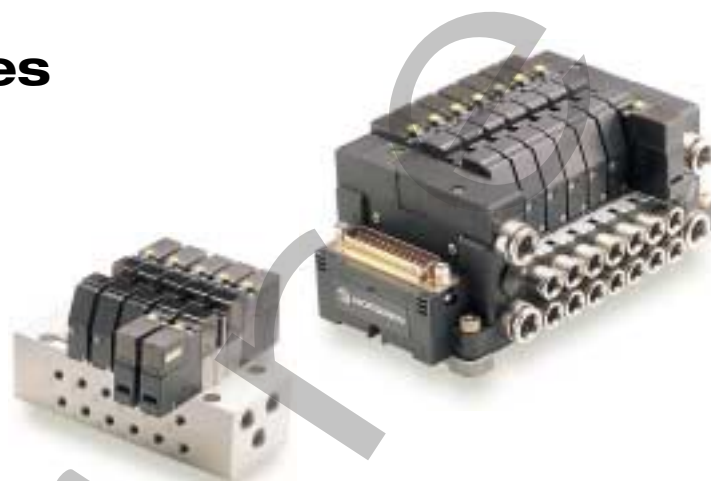


Valves

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

| Function | Actuation | Solenoid connection | Pilot supply | Mid position | Operating pressure (psig) | Pilot pressure (psig) | oz | Model |
|----------|-----------------------|---------------------|--------------|--------------|---------------------------|-----------------------|------|----------------|
| 5/2 | Solenoid/Spring & air | Side plug | Internal | – | 22 ... 102 | – | 0.95 | V025516A-B26*A |
| 5/2 | Solenoid/Spring & air | Bottom plug | Internal | – | 22 ... 102 | – | 0.95 | V025516A-B24*A |
| 5/2 | Solenoid/Spring & air | Side plug | External | – | 26" Hg ... 102 | 22 psig | 0.95 | V025526A-B26*A |
| 5/2 | Solenoid/Spring & air | Bottom plug | External | – | 26" Hg ... 102 | 22 psig | 0.95 | V025526A-B24*A |
| 5/2 | Solenoid/Solenoid | Side plug | Internal | – | 22 ... 102 | – | 1.41 | V025511A-B26*A |
| 5/2 | Solenoid/Solenoid | Bottom plug | Internal | – | 22 ... 102 | – | 1.41 | V025511A-B24*A |
| 5/2 | Solenoid/Solenoid | Side plug | External | – | 26" Hg ... 102 | 22 psig | 1.41 | V025522A-B26*A |
| 5/2 | Solenoid/Solenoid | Bottom plug | External | – | 26" Hg ... 102 | 22 psig | 1.41 | V025522A-B24*A |
| 5/3 | Solenoid/Solenoid | Side plug | Internal | APB | 29 ... 102 | – | 1.41 | V025611A-B26*A |
| 5/3 | Solenoid/Solenoid | Side plug | External | APB | 26" Hg ... 102 | 29 psig | 1.41 | V025622A-B26*A |
| 5/3 | Solenoid/Solenoid | Bottom plug | External | APB | 26" Hg ... 102 | 29 psig | 1.41 | V025622A-B24*A |
| 5/3 | Solenoid/Solenoid | Side plug | Internal | COE | 29 ... 102 | – | 1.41 | V025711A-B26*A |
| 5/3 | Solenoid/Solenoid | Bottom plug | Internal | COE | 29 ... 102 | – | 1.41 | V025711A-B24*A |
| 5/3 | Solenoid/Solenoid | Side plug | External | COE | 26" Hg ... 102 | 29 psig | 1.41 | V025722A-B26*A |
| 5/3 | Solenoid/Solenoid | Bottom plug | External | COE | 26" Hg ... 102 | 29 psig | 1.41 | V025722A-B24*A |
| 5/3 | Solenoid/Solenoid | Bottom plug | Internal | APB | 29 ... 102 | – | 1.41 | V025611A-B24*A |

* Insert voltage code from table below. APB = All Ports Blocked, COE = Center Open Exhaust. Service kits not available. Order bases and connector plugs separately. For modular sub-base assemblies contact our Technical Service.

Voltage codes

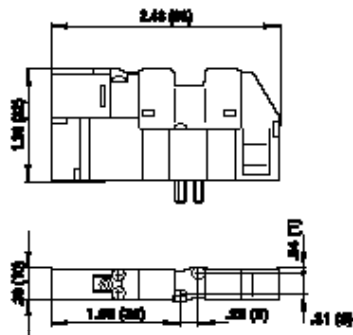
| Voltage | Code |
|----------------------|------|
| 12 V d.c. (optional) | 2 |
| 24 V d.c. (standard) | 3 |

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 –ve* |

* D sub-connector via multipole.

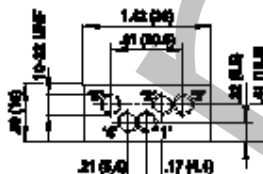
V025516A & V025526A
Single solenoid valves



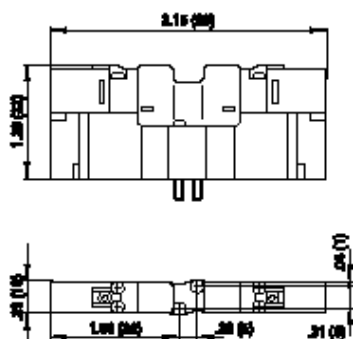
V02 - Nugget 30 valve islands

Solenoid actuated spool valves
Modular & fixed length sub-base
5/2 & 5/3, M5, Ø 4 mm, Ø 6 mm
Dimensions in inches (mm)

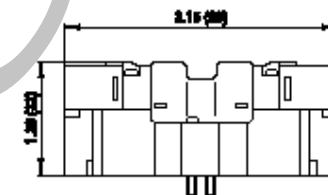
C/P43149/1
Single Subbase



V025511A, V025522A, V025611A, V025622A, V025711A & V025722A
Double solenoid valves Double Solenoid Pilot, 2-Position

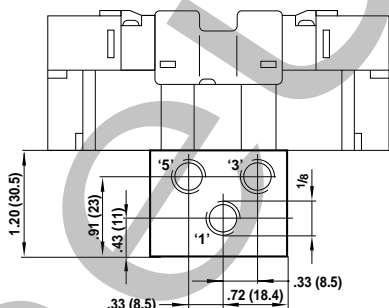


V025611A, V025622A, V025711A, &
V025722A Double Solenoid Pilot, Spring
Centered, 3-Position

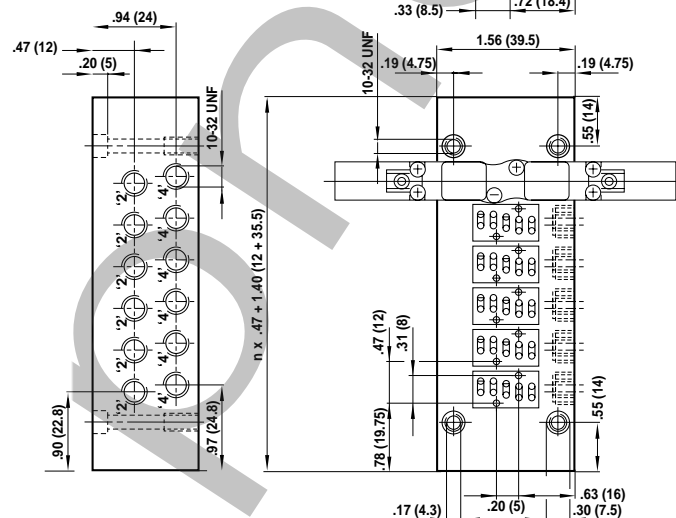
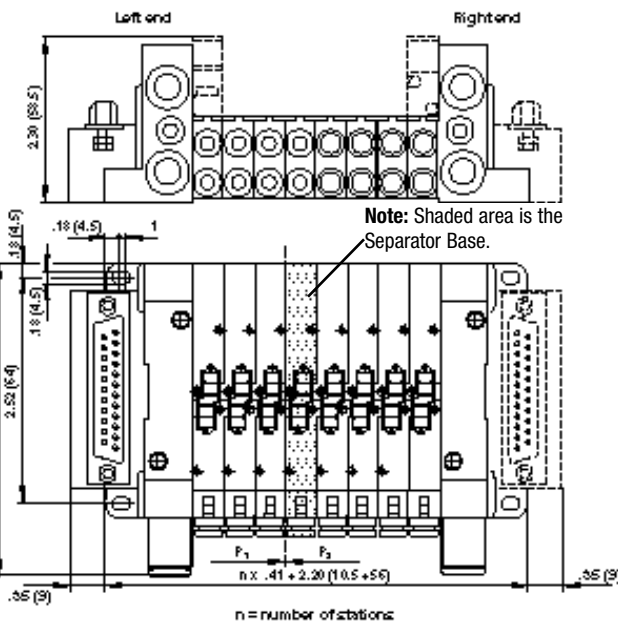


*Insert the voltage code:
2 for 12 VDC (Consult factory for delivery)
3 for 24 VDC

C/P43149/* Fixed Length
Subbase Manifold



Base Assembly with Multipole



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

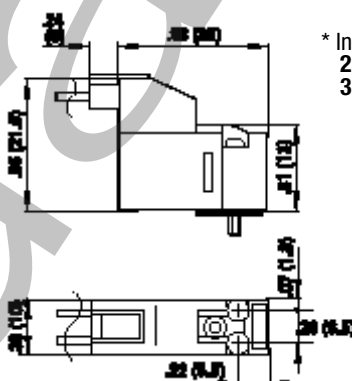
Single and fixed length bases: Aluminum

Seals: Nitrile

Springs and Yoke: Stainless Steel

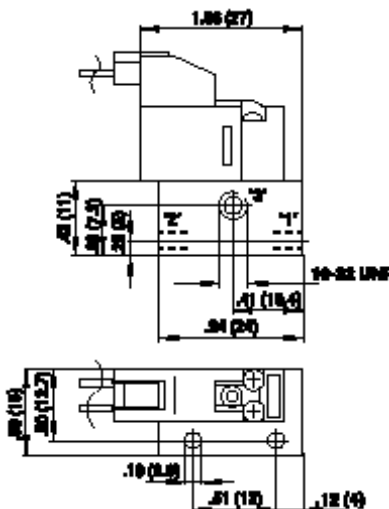
Fittings: Nickel plated brass

Direct Solenoid, Spring Return Subbase Mounted Valve
V015416A-B26*1 3/2 Normally Closed



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

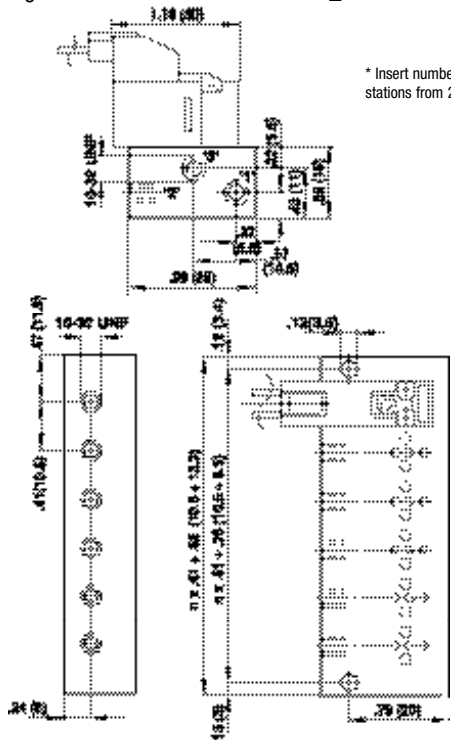
10-32 UNF Single Subbase C/P43154/1



Dimensions in inches (mm)

VAL-156

Fixed Length Subbase Manifolds C/P43154/_*



* Insert number of stations from 2 to 12

Nugget 30

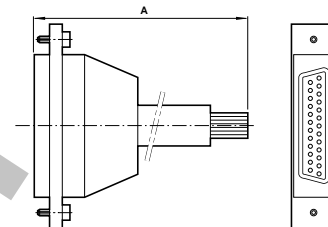
Accessories

Dimensions in inches (mm)

D Sub-connector with cable

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

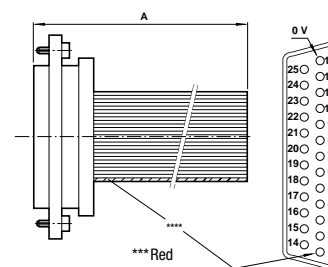
| | A (m) |
|----------------|-----------|
| V025516A-Q2210 | 3' (1.0) |
| V025516A-Q2230 | 10' (3.0) |
| V025516A-Q2250 | 16' (5.0) |



D Sub-connector ribbon cable

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

| | A (m) |
|----------------|-----------|
| V025516A-Q4310 | 3' (1.0) |
| V025516A-Q4330 | 10' (3.0) |
| V025516A-Q4350 | 16' (5.0) |

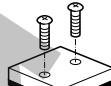
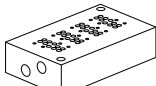
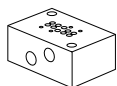


V01 Sub-bases

Single station sub-base

Fixed length sub-base

Blanking plate



M/P43154/1

M/P43154/*

M/P43164

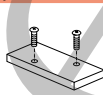
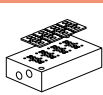
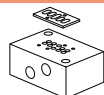
*Insert number of stations required - 2, 4, 6, 8, 10, 12 available.

V02 fixed length sub-bases & accessories

Single station sub-base

Multi-station sub-base

Blanking plate (for modular bases)



M/P43149/1

M/P43149/2 - 12

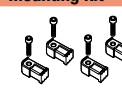
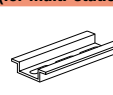
M/P43165

V02 Valve Island subbases & accessories

Blanking block

DIN rail (for multi-station)

DIN rail mounting kit



V025516A-Q1600

V10009-C00

V025516A-Q1700

Pinch Plugs (for 5/2 and 5/3 valves)

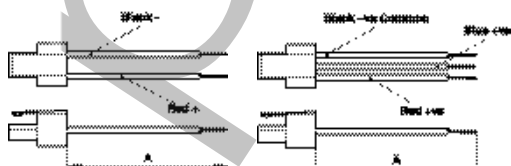
V025516A-Q20**

Type: 2-wire negative common, for single solenoid

Model: V025516A-Q21**

Type: 3-wire negative common, for double solenoid

| Model | Dim. A |
|----------------|-------------|
| V025516A-Q2003 | 11.8 (300) |
| V025516A-Q2010 | 39.4 (1000) |
| V025516A-Q2103 | 11.8 (300) |
| V025516A-Q2110 | 39.4 (1000) |



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" | 12X000025 |
| 3/8" | 12X000006 |
| Ø 8 mm | 10X000008 |

Cylinder port fittings

| Size | Model |
|-------|-----------|
| 1/8" | 12X000013 |
| 5/32" | 10X000004 |
| 1/4" | 12X000004 |
| 4 mm | 10X000004 |
| 6 mm | 10X000006 |
| 8 mm | 10X000008 |