

PANEL MOUNT

VNAT SERIES



Nickel Plated Panel Mount Needle Valve with a 3° pin angle, 64 TPI for fine adjustment. Buna-N seal standard and it has a screwdriver slot for easy adjustment. Operating temperature -40° F to 200° F. The recommended filtration is 5 Micron. Barbed fittings for flexible tubing.

| SKU | Description |
|--------------|---|
| VNAT-16 | 1/16 inch Barbed Needle Valve |
| VNAT-18 | 1/8 inch Barbed Needle Valve |
| VNAT-1B-K-PM | 1/16 inch Barbed NPB KNOB PM Needle Valve |
| VNAT-1B-S-PM | 1/16 inch Barbed NPB Slotted with PM Needle Valve |
| VNAT-2B-K-PM | 1/8 inch Barbed NPB KNOB with PM Needle Valve |

SPNV SERIES



Mini Brass 90° Needle Valve with an inlet of 1/8" male threads. Outlet sizes are female 10-32 threads, male 10-32 threads or 1/16", 1/8" and 3/32" barbs. Available seals are Buna-N, EPDM and Viton®. The maximum operating pressure is 125 psi, maximum operating temperature is 180° F. Panel mount is standard. This Needle Valve is also available with female 10-32 UNF inlet and outlet threads. The barb sizes are the same as for the male Needle Valve. The black ABS knobs are standard, removable knobs.

| SKU | Description |
|-------------|--|
| SPNV-10F10F | 10-32F by 10-32F Needle Valve |
| SPNV-2M10F | 1/8 MNPT In by 10-32 Female Out Needle Valve |
| SPNV-2M1B | 1/8 MNPT In by 1/16 Barb Out Needle Valve |
| SPNV-10F2B | 10-32 Female UNF In by 1/8 Barb Out Needle |



PNFC SERIES

Mini Brass 90° Needle Valve with an inlet of 10-32 male threads. Outlet sizes are female 10-32 threads, male 10-32 threads or 1/16", 1/8" and 3/32" barbs. Available seals are Buna-N, EPDM and Viton®. The maximum operating pressure is 125 psi. Panel mount is standard.

| SKU | Description |
|-------------|--|
| PNFC-10M10F | 10-32 Taper Male by 10-32 Female Brass |



PBV6 SERIES

The PBV6 Series is a Three-way two directional 3/8 inch Flow Panel Mount Ball Valve made of NSF approved PVC, Polypropylene, or Nylon. Designed to promote multiple configurations. Used for air, water, beverage, and chemical application.

| SKU | Definition |
|----------|---|
| PBV6-4F | 3/8 Flow 1/4 FNPT PVC Ball Valve |
| PBV6-6F | 3/8 Flow 3/8 FNPT PVC Ball Valve |
| PBV6-8F | 3/8 Flow 1/2 FNPT PVC Ball Valve |
| PBV6-2M | 3/8 Flow 1/8 MNPT PVC Ball Valve |
| PBV6-4M | 3/8 Flow 1/4 MNPT PVC Ball Valve |
| PBV6-6M | 3/8 Flow 3/8 MNPT PVC Ball Valve |
| PBV6-8M | 3/8 Flow 1/2 MNPT PVC Ball Valve |
| PBV6-2B | 3/8 Flow 1/8 Barb PVC Ball Valve |
| PBV6-4B | 3/8 Flow 1/4 Barb PVC Ball Valve |
| PBV6-6B | 3/8 Flow 3/8 Barb PVC Ball Valve |
| PBV6-8B | 3/8 Flow 1/2 Barb PVC Ball Valve |
| PBV6-4PI | 3/8 Flow 1/4 Push-to-Connect PVC Ball Valve |
| PBV6-6PI | 3/8 Flow 3/8 Push-to-Connect PVC Ball Valve |
| PBV6-8PI | 3/8 Flow 1/2 Push-to-Connect PVC Ball Valve |
| PBV6-4C | 3/8 Flow 1/4 Compression PVC Ball Valve |

PBV6 (3-WAY) SERIES



The PBV6 Series is a Three-way two directional 3/8 inch Flow Panel Mount Ball Valve made of NSF approved PVC, Polypropylene, or Nylon. Designed to promote multiple configurations. Used for air, water, beverage, and chemical application.

| SKU | Definition |
|----------|---|
| PBV6-4F | 3/8 Flow 1/4 FNPT PVC Ball Valve |
| PBV6-6F | 3/8 Flow 3/8 FNPT PVC Ball Valve |
| PBV6-8F | 3/8 Flow 1/2 FNPT PVC Ball Valve |
| PBV6-2M | 3/8 Flow 1/8 MNPT PVC Ball Valve |
| PBV6-4M | 3/8 Flow 1/4 MNPT PVC Ball Valve |
| PBV6-6M | 3/8 Flow 3/8 MNPT PVC Ball Valve |
| PBV6-8M | 3/8 Flow 1/2 MNPT PVC Ball Valve |
| PBV6-2B | 3/8 Flow 1/8 Barb PVC Ball Valve |
| PBV6-4B | 3/8 Flow 1/4 Barb PVC Ball Valve |
| PBV6-6B | 3/8 Flow 3/8 Barb PVC Ball Valve |
| PBV6-8B | 3/8 Flow 1/2 Barb PVC Ball Valve |
| PBV6-4PI | 3/8 Flow 1/4 Push-to-Connect PVC Ball Valve |
| PBV6-6PI | 3/8 Flow 3/8 Push-to-Connect PVC Ball Valve |
| PBV6-8PI | 3/8 Flow 1/2 Push-to-Connect PVC Ball Valve |
| PBV6-4C | 3/8 Flow 1/4 Compression PVC Ball Valve |

PBV5 SERIES



The PBV5 Series is a Two-way Ball Valve available with an operating pressure of 125 psi, 140° F, with .312 thru hole in multiple configurations of Barb, Push-in, or Thread. PVC and White Filled Polypropylene materials which are used for chemical resistance applications and are NSF Standard 42 Certified. MakroBlend® (*a Polycarbonate and PBT blend*) is an NSF Standard 51 certified material. An optional Panel Mount is available for a .750 thru hole and comes with a Brass knurled nut or Electroless Nickel-plated Hex mount nut. The Flag Handle comes standard with an optional round Knurled Handle. The maximum panel is .125

| SKU | Description |
|-------------------|--|
| PBV5-3W-4C | 5/16 Flow 1/4 Compression PVC 3-Way Ball Valve |
| PBV5-3W-4F | 5/16 Flow 1/4 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-4F-PVCE | 5/16 Flow 1/4 FNPT PVC EPDM 3-Way Ball Valve |
| PBV5-3W-4F-PVCV | 5/16 Flow 1/4 FNPT PVC EPDM 3-Way Ball Valve |
| PBV5-3W-4M | 5/16 Flow 1/4 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-4PE-PM JG | 5/16 Flow 1/4 Barb EPDM PM JG 3-Way Ball Valve |

| SKU | Description |
|-------------|---|
| PBV5-3W-5B | 5/16 Flow 5/16 Barb PVC 3-Way Ball Valve |
| PBV5-3W-4PI | 5/16 Flow 1/4 Push-to-Connect PVC 3-Way Ball Valve |
| PBV5-3W-5F | 5/16 Flow 5/16 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-5M | 5/16 Flow 5/16 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-5PI | 5/16 Flow 5/16 Push-to-Connect PVC 3-Way Ball Valve |
| PBV5-3W-6B | 5/16 Flow 3/8 Barb PVC 3-Way Ball Valve |
| PBV5-3W-6F | 5/16 Flow 3/8 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-6M | 5/16 Flow 3/8 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-6PI | 5/16 Flow 3/8 Push-to-Connect PVC 3-Way Ball Valve |
| PBV5-3W-8B | 5/16 Flow 1/2 Barb PVC 3-Way Ball Valve |
| PBV5-3W-8F | 5/16 Flow 1/2 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-8M | 5/16 Flow 1/2 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-4B | 5/16 Flow 1/4 Barb PVC 3-Way Ball Valve |
| PBV5-3W-2M | 5/16 Flow 1/8 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-2F | 5/16 Flow 1/8 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-2C | 5/16 Flow 1/8 Compression PVC 3-Way Ball Valve |
| PBV5-3W-2B | 5/16 Flow 1/8 Barb PVC 3-Way Ball Valve |

PBV5 (3-WAY) PLASTIC BALL VALVE



The PBV5 Series is a Two-way Ball Valve available with an operating pressure of 125 psi, 140° F, with .312 thru hole in multiple configurations of Barb, Push-in, or Thread. PVC and White Filled Polypropylene materials which are used for chemical resistance applications and are NSF Standard 42 Certified. MakroBlend® (*a Polycarbonate and PBT blend*) is an NSF Standard 51 certified material. An optional Panel Mount is available for a .750 thru hole and comes with a Brass knurled nut or Electroless Nickel-plated Hex mount nut. The Flag Handle comes standard with an optional round Knurled Handle. The maximum panel is .125

| SKU | Description |
|-------------------|---|
| PBV5-3W-4C | 5/16 Flow 1/4 Compression PVC 3-Way Ball Valve |
| PBV5-3W-4F | 5/16 Flow 1/4 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-4F-PVCE | 5/16 Flow 1/4 FNPT PVC EPDM 3-Way Ball Valve |
| PBV5-3W-4F-PVCV | 5/16 Flow 1/4 FNPT PVC EPDM 3-Way Ball Valve |
| PBV5-3W-4M | 5/16 Flow 1/4 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-4PE-PM JG | 5/16 Flow 1/4 Barb EPDM PM JG 3-Way Ball Valve |
| PBV5-3W-5B | 5/16 Flow 5/16 Barb PVC 3-Way Ball Valve |
| PBV5-3W-4PI | 5/16 Flow 1/4 Push-to-Connect PVC 3-Way Ball Valve |
| PBV5-3W-5F | 5/16 Flow 5/16 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-5M | 5/16 Flow 5/16 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-5PI | 5/16 Flow 5/16 Push-to-Connect PVC 3-Way Ball Valve |
| PBV5-3W-6B | 5/16 Flow 3/8 Barb PVC 3-Way Ball Valve |

| SKU | Description |
|-------------|--|
| PBV5-3W-6F | 5/16 Flow 3/8 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-6M | 5/16 Flow 3/8 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-6PI | 5/16 Flow 3/8 Push-to-Connect PVC 3-Way Ball Valve |
| PBV5-3W-8B | 5/16 Flow 1/2 Barb PVC 3-Way Ball Valve |
| PBV5-3W-8F | 5/16 Flow 1/2 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-8M | 5/16 Flow 1/2 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-4B | 5/16 Flow 1/4 Barb PVC 3-Way Ball Valve |
| PBV5-3W-2M | 5/16 Flow 1/8 MNPT PVC 3-Way Ball Valve |
| PBV5-3W-2F | 5/16 Flow 1/8 FNPT PVC 3-Way Ball Valve |
| PBV5-3W-2C | 5/16 Flow 1/8 Compression PVC 3-Way Ball Valve |
| PBV5-3W-2B | 5/16 Flow 1/8 Barb PVC 3-Way Ball Valve |



PB SERIES

Push-to-Connect Panel Mount connectors available in Acetal, Polypropylene, and Kynar® used to join tubing of Polyethylene, Brass, or Copper. Sizes range from 5/32 inch OD to 1/2 inch OD including reducing sizes. Gray or White Acetal are NSF and FDA approved and have Buna seals for use in air, gases, and potable water applications. White Polypropylene with EPDM seals or PVDF with FKM seals. Maximum temperature 140°F at 60 psi for Polypropylene.

| SKU | Description |
|--------|---|
| PB-3 | 3/16 OD Push-to-Connect Bulkhead |
| PB-4 | 1/4 OD Push-to-Connect Bulkhead |
| PB-532 | 5/32 OD Push-to-Connect Bulkhead |
| PB-5 | 5/16 OD Push-to-Connect Bulkhead |
| PB-6-4 | 3/8 OD by 1/4 OD Push-to-Connect Bulkhead |
| PB-6 | 3/8 OD Push-to-Connect Bulkhead |
| PB-8-4 | 1/2 OD by 1/4 OD Push-to-Connect Bulkhead |



MNV SERIES

Mini Brass 90° Needle Valve with an inlet of 10-32 male threads. Outlet sizes are female 10-32 threads, male 10-32 threads or 1/16", 1/8" and 3/32" barbs. Available seals are Buna-N, EPDM and Viton®. The maximum operating pressure is 125 psi, maximum operating temperature is 180° F. Panel mount is standard.

| SKU | Description |
|-------------|---|
| MNV-10M10F | 10-32 Male inlet Female outlet Needle Valve |
| MNV-10F10M | 10-32 Female inlet Male outlet Needle Valve |
| MNV-10F-10F | 10-32 Female Nickel Needle Valve |
| MNV-18M10F | 1/8 inch Male NPT 10-32 Female Needle Valve |



MBR SERIES

The MBR Panel Mounting Bulkhead Series Nylon, Polypropylene, or PVDF in 10-32 or ¼-28 UNF Threads. All Bulkheads are listed showing the outside panel first with the second being on the inside of the panel.

| SKU | Description |
|--------------|---------------------------------------|
| MBR10-1B332B | 10-32 1/16 Barb by 3/32 Barb Bulkhead |
| MBR10-1B | 10-32 1/16 Barb by 1/16 Barb Bulkhead |
| MBR10-332B | 10-32 3/32 Barb by 3/32 Barb Bulkhead |
| MBR14-1B2B | 1/4-28 1/16 Barb by 1/8 Barb Bulkhead |
| MBR14-2B | 1/4-28 1/8 Barb by 1/8 Barb Bulkhead |
| MBR14-332B2B | 1/4-28 3/32 Barb by 1/8 Barb Bulkhead |

MBFL SERIES



Equal and reducing Bulkhead Elbows with a flange and NPS threads. First Barb size is on the outside of the panel the second is inside the panel. Available in Nylon, Polypropylene and PVDF. Thread sizes available are: UNF 10-32, 1/4-28 and 5/16-24. NPS thread sizes are: 1/8" and 1/4". Barb sizes are: 1/16", 3/32", 1/8", 5/32", 3/16" and 1/4". (order as NN, PP, PVDF)

| SKU | Description |
|-------------------|---|
| MBFL-2M-4B | 1/8 NPS 1/4 by 1/4 Bulkhead Elbow |
| MBFL-4M-4B | 1/4 NPS 1/4 by 1/4 Bulkhead Elbow |
| MBFL-516-2B | 5/16-24 1/8 Bulkhead Elbow |
| MBFL-516-532 | 5/16-24 5/32 by 5/32 Bulkhead Elbow |
| MBFL-2M-3B4B | 1/8 NPS 3/16 by 1/4 Bulkhead Elbow Reducer |
| MBFL-2M-532B4B | 1/8 NPS 5/32 by 1/4 Bulkhead Elbow Reducer |
| MBFL-4M-2B4B | 1/4 NPS 1/8 by 1/4 Bulkhead Elbow Reducer |
| MBFL-4M-332B4B | 1/4 NPS 3/32 by 1/4 Bulkhead Elbow Reducer |
| MBFL-4M-532B4B | 1/4 NPS 5/32 by 1/4 Bulkhead Elbow Reducer |
| MBFL-516-332B532B | 5/16-24 UNF 3/32 by 5/32 Bulkhead Elbow Reducer |

MBF PANEL MOUNT BULKHEAD WITH FLANGE



These are bulkheads with panel mountings of 5/16-24 UNF threads, 1/8" and 1/4" NPS threads and a mounting flange. The first barb size is outside the panel, the second on the inside. Available in Black Nylon, Natural Nylon, Polypropylene and PVDF. Barb sizes are 1/16", 3/32", 1/8", 5/32", 3/16" and 1/4". (order as BN, NN, PP, PVDF)

| SKU | Description |
|-------------|-------------------------------|
| MBF2-1B3B | 1/8 NPS-1/16 by 3/16 Bulkhead |
| MBF2-1B4B | 1/8 NPS-1/16 by 1/4 Bulkhead |
| MBF2-2B3B | 1/8 NPS-1/8 by 3/16 Bulkhead |
| MBF2-2B4B | 1/8 NPS-1/8 by 1/4 Bulkhead |
| MBF2-3323B | 1/8 NPS-3/32 by 3/16 Bulkhead |
| MBF2-3B | 1/8 NPS-3/16 by 3/16 Bulkhead |
| MBF2-3B4B | 1/8 NPS-3/16 by 1/4 Bulkhead |
| MBF2-4B | 1/8 NPS-1/4 by 1/4 Bulkhead |
| MBF2-532B3B | 1/8 NPS-5/32 by 3/16 Bulkhead |
| MBF2-532B4B | 1/8 NPS-5/32 by 1/4 Bulkhead |

| SKU | Description |
|-----------------|-----------------------------------|
| MBF4-1B3B | 1/4 NPS-1/16 by 3/16 Bulkhead |
| MBF4-1B4B | 1/4 NPS-1/16 by 1/4 Bulkhead |
| MBF4-2B3B | 1/4 NPS-1/8 by 3/16 Bulkhead |
| MBF4-2B4B | 1/4 NPS-1/8 by 1/4 Bulkhead |
| MBF4-332B3B | 1/4 NPS-3/32 by 3/16 Bulkhead |
| MBF4-332B4B | 1/4 NPS-3/32 by 1/4 Bulkhead |
| MBF4-3B4B | 1/4 NPS-3/16 by 1/4 Bulkhead |
| MBF4-3B | 1/4 NPS-3/16 by 3/16 Bulkhead |
| MBF4-4B4B | 1/4 NPS-1/4 by 1/4 Bulkhead |
| MBF4-4B516B | 1/4 NPS-1/4 by 5/16 Bulkhead |
| MBF4-4B6B | 1/4 NPS-1/4 by 3/8 Bulkhead |
| MBF4-516B6B | 1/4 NPS-5/16 by 3/8 Bulkhead |
| MBF4-532B3B | 1/4 NPS-5/32 by 3/16 Bulkhead |
| MBF4-532B4B | 1/4 NPS-5/32 by 1/4 Bulkhead |
| MBF4-5B5B | 1/4 NPS-5/16 by 5/16 Bulkhead |
| MBF4-6B6B | 1/4 NPS-3/8 by 3/8 Bulkhead |
| MBF516-1B332B | 5/16-24 UNF 1/16 by 3/32 Bulkhead |
| MBF516-1B3B | 5/16-24 UNF 1/16 by 3/16 Bulkhead |
| MBF516-2B3B | 5/16-24 UNF 1/8 by 3/16 Bulkhead |
| MBF516-2B532B | 5/16-24 UNF 1/8 by 3/32 Bulkhead |
| MBF516-332B3B | 5/16-24 UNF 3/32 by 3/16 Bulkhead |
| MBF516-332B532B | 5/16-24 UNF 3/32 by 5/32 Bulkhead |
| MBF516-3B | 5/16-24 UNF 3/16 by 3/16 Bulkhead |
| MBF516-532 | 5/16-24 UNF 5/32 by 5/32 Bulkhead |

FNV SERIES



The FNV Series Needle Valves are of Brass with 10-32 male taper threads or 1/8 inch NPT to a 10-32 Female port. 10-32 is available with a knurled knob. Buna seals (FKM Optional), 150 psi service. 1/8 inch NPT is Panel Mountable.

| SKU | Description |
|------------|---------------------------------------|
| FNV-10F10F | 10-32 Male by Female Needle Valve |
| FNV-10M10F | 10-32 Male Female Needle Valve |
| FNV-18M10F | 1/8 MNPT by 10-32 Female Needle Valve |

BSL SERIES



The BSL Series are Detent Panel Mount 5-Way Ball Valves in 10-32, 1/8 inch Female NPT, 1/4 inch Female NPT, 1/8 inch Male NPT, or 1/4 inch Male NPT with EPDM seals and 500 psi.

| SKU | Description |
|-----------|--|
| BSL-1032F | 10-32 FNPT Panel Mount 5-Way Ball Valve |
| BSL-2F | 1/8 inch FNPT Panel Mount 5-Way Ball Valve |
| BSL-4F | 1/4 inch FNPT Panel Mount 5-Way Ball Valve |
| BSL-2M | 1/8 inch MNPT Panel Mount 5-Way Ball Valve |
| BSL-4M | 1/4 inch MNPT Panel Mount 5-Way Ball Valve |

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