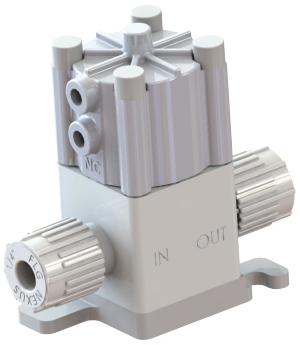
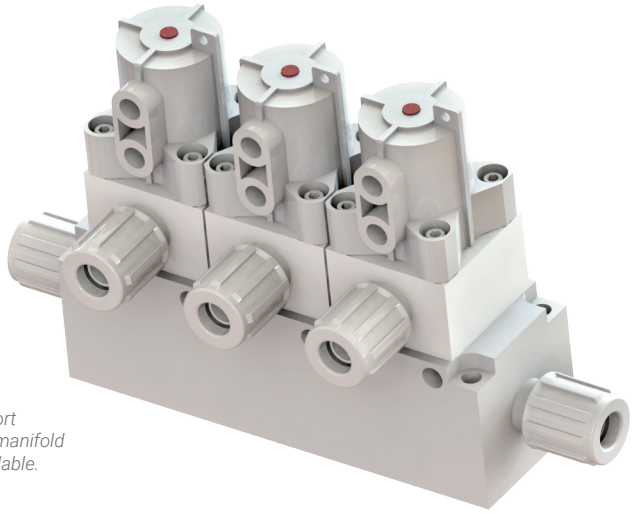
# iPolymer | HPV Diaphragm Valve

## HPV Diaphragm Valve

HPV Diaphragm Valves are used in high-purity water and aggressive chemical applications. HPV has 100% virgin PTFE wetted flow path ideal for DI Water systems and corrosive media used in semiconductor, solar, pharmaceutical, and chemical process applications. HPV valves are ideal for custom manifold systems that combine many high-purity components into a compact, easy-to-install, integrated solution. iPolymer custom manifolds are designed to reduce leak points and pressure drops. They come fully tested and ready to install.



*Optional orifices, port sizes, and custom manifold configurations available.*

## Highlights

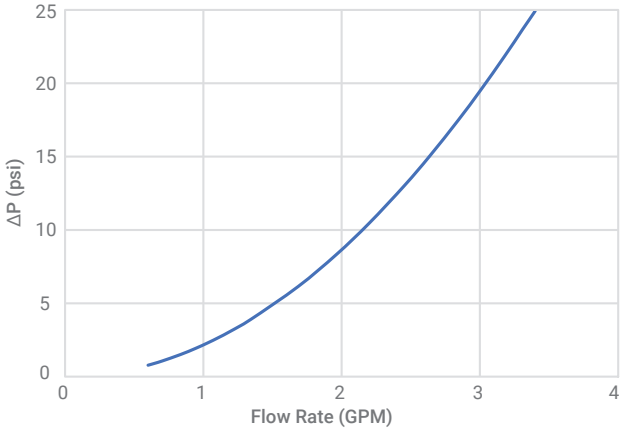
- 100% virgin PTFE and M112 wetted flow path
- Media Pressure: 80 psi maximum
- Actuation Pressure: 50-80 psi
- Media Vacuum: 25 in Hg
- Media Temperature: 0 - 80°C (32 - 176°F)
- Ambient Temperature: 0 - 60°C (32 - 140°F)
- Flow coefficient, Cv= 0.68
- Offered in 2-Way and 3-Way configurations
- Flare or Fit-Line Global Nexus™ connections

## Specifications

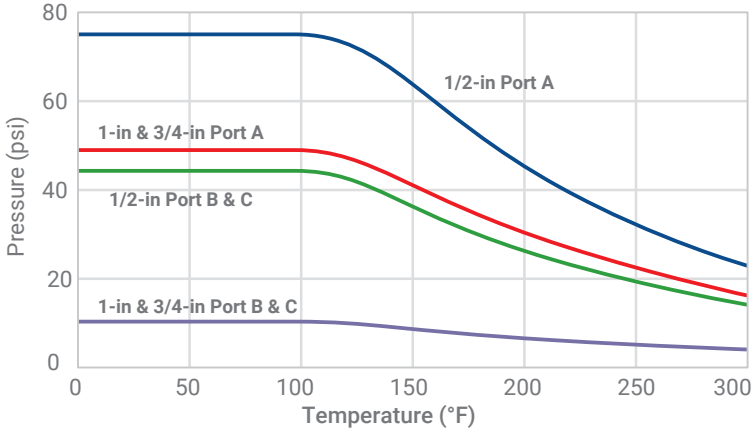
| Part | Inlet (in) | Port Type | Outlet (in) | Config. |
|---|---|---|---|---|
| **HPV-04-NC-04-F** | 1/4 | Flare | 1/4 | 2-Way, NC |
| **HPV-04-NC-06-F** | 1/4 | Flare | 3/8 | 2-Way, NC |
| **HPV-04-NO-04-F** | 1/4 | Flare | 1/4 | 2-Way, NO |
| **HPV-04-NO-06-F** | 1/4 | Flare | 3/8 | 2-Way, NO |
| **HPV-04-MT-04-F** | 1/4 | Flare | 1/4 | Multi-Turn |
| **HPV-04-MT-06-F** | 1/4 | Flare | 3/8 | Multi-Turn |
| **HPV-04-NC-04-N** | 1/4 | Nexus | 1/4 | 2-Way, NC |
| **HPV-04-NC-06-N** | 1/4 | Nexus | 3/8 | 2-Way, NC |
| **HPV-04-NO-04-N** | 1/4 | Nexus | 1/4 | 2-Way, NO |
| **HPV-04-NO-06-N** | 1/4 | Nexus | 3/8 | 2-Way, NO |
| **HPV-04-MT-04-N** | 1/4 | Nexus | 1/4 | Multi-Turn |
| **HPV-04-MT-06-N** | 1/4 | Nexus | 3/8 | Multi-Turn |
| **HPV-04-NC-04-P** | 1/4 | FNPT | 1/4 | 2-Way, NC |
| **HPV-04-NO-04-P** | 1/4 | FNPT | 1/4 | 2-Way, NO |
| **HPV-04-MT-04-P** | 1/4 | FNPT | 1/4 | Multi-Turn |

*HPV are configured with their maximum available port orifice for the given port style and size. Contact us for constrained orifices, custom configurations, and other custom solutions.*

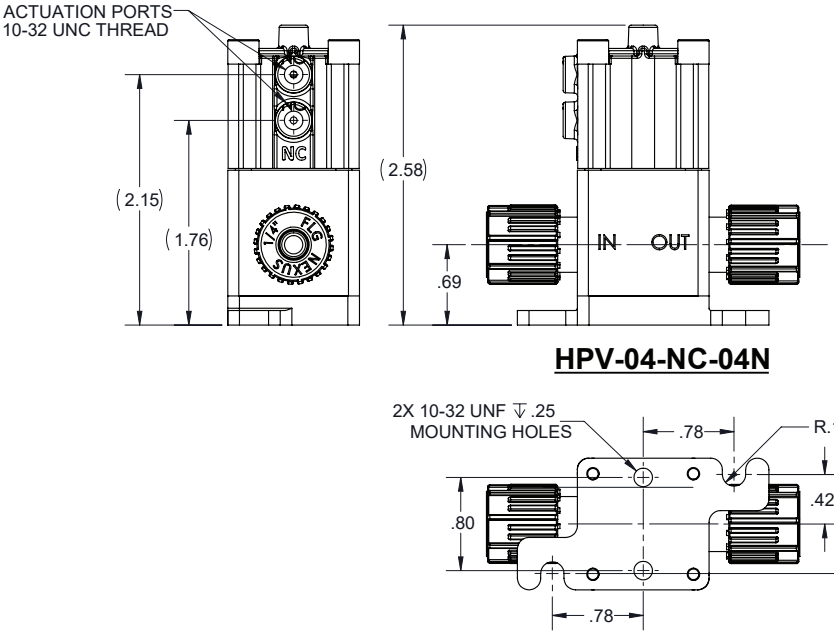
## Performance



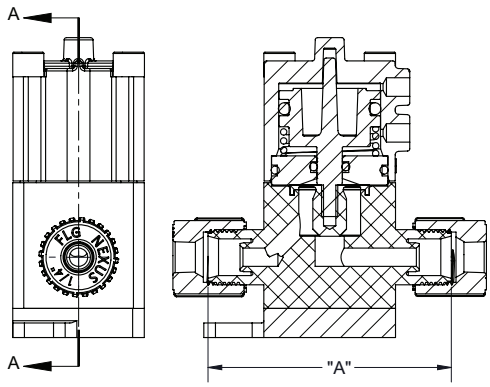

## Temperatures




## Dimensions




**HPV-04-NC-04N**




**HPV-04-NO-04N**