

# Manually actuated injection valve 6 port, 2 position

## VM06021SSPKPI0700

- Rated to 483 bar (7,000 psi)
- Three alternate handle positions spaced 90 degrees apart
- Inert fluid path with low swept volume



### Technical features

**Type:**  
6 port, 2 position  
manual injection valve

**Pressure rating:**  
483 bar (7,000 psi)

**Port threads:**  
10-32 UNF-2B

**Fitting type:**  
Cone

**Dimensions:**  
Height: 75.9 mm (2.990 in)  
Width: 34.8 mm (1.370 in)  
Depth: 34.8 mm (1.370 in)

**Flow passage diameters:**  
0.61 mm (0.024 in)

**Port to port volume:**  
3.2 µL

**Stator port volume:**  
0.8 µL

**Seal volume:**  
1.7 µL

**Rotor channel volume:**  
0.6 µL

**Weight:**  
0.29 kg (0.63 lbs)

**Operating temperature:**  
+4 ... +80°C (+39 ... +176°F)

**Storage temperature:**  
–30 ... +80°C (–22 ... +176°F)

**Storage humidity:**  
< 95% humidity, non-condensing

**Switching time:**  
< 0,25s

**Wetted materials:**  
Stator: Stainless steel  
Rotor: Polyimide  
Seal: PEEK

**Compliance:**  
RoHS, REACH

### Manual injector valve kit with accessories, VM06021SSPKPI0700-KIT

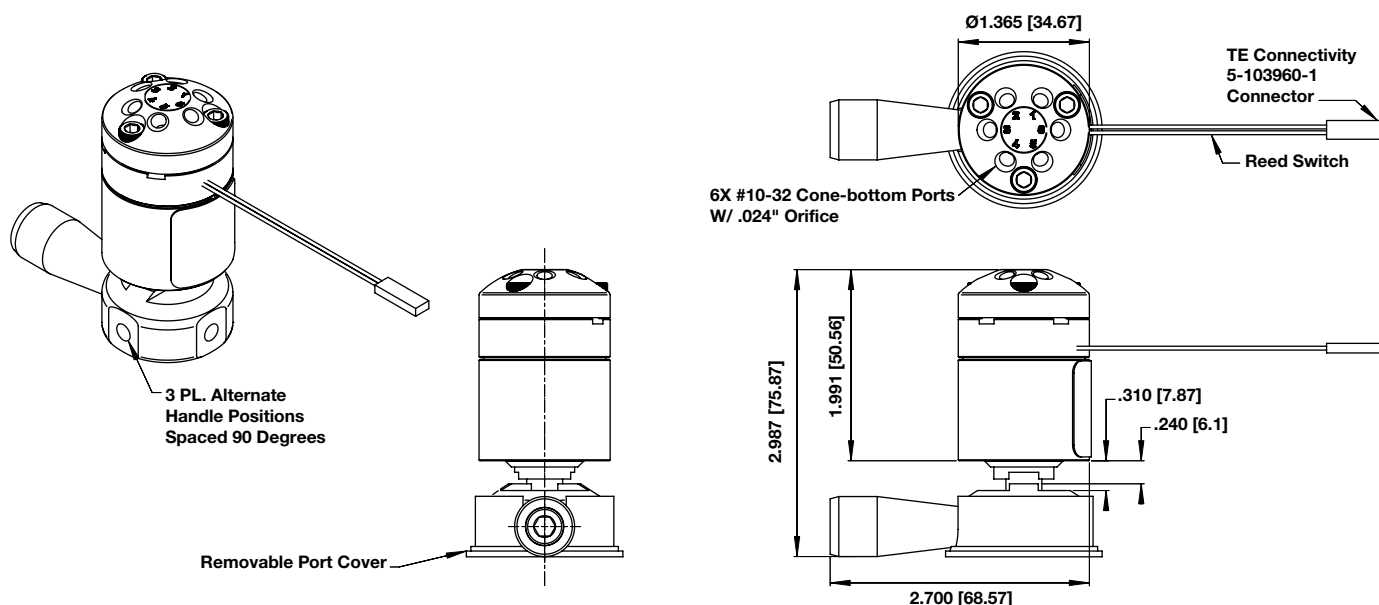
| Qty. | Description                       | Part no.           |
|------|-----------------------------------|--------------------|
| 1    | Manual Injector Valve             | VM06021SSPKPI0700  |
| 2    | Mounting Screws                   | #8-32 x 0.1875 BHS |
| 1    | 20 µL Sample Loop Assy            | AY1-00100          |
| 1    | 22 Ga. Syringe Needle             | CMM-00105          |
| 1    | 5/64 Allen Wrench                 | CWR-00101          |
| 1    | 9/64 Allen Wrench                 | CWR-00102          |
| 1    | Needle Port Cleaner Bushing       | FBM-0051           |
| 4    | Fitting, 10-32, 1/4 Hex, 1/16, SS | FBM-00050          |
| 4    | Ferrule                           | FBM-00049          |

File code: LS\_DS\_RSV-6.2\_en/04/24

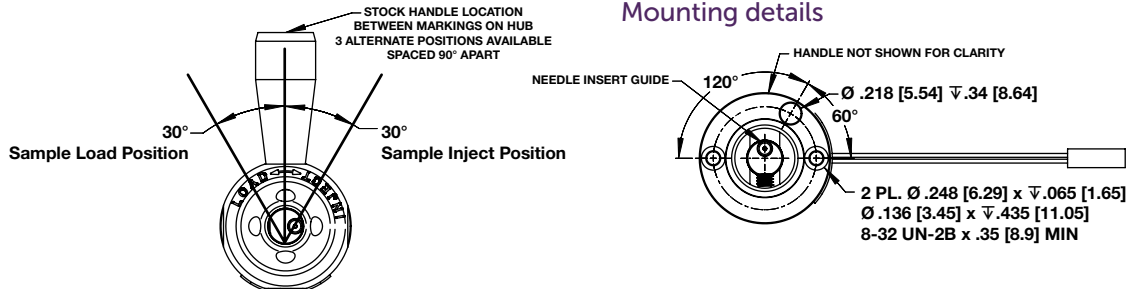
## Dimensions

Dimensions in inches [mm]

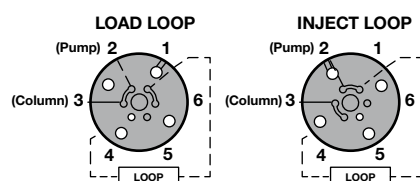
Projection/third angle



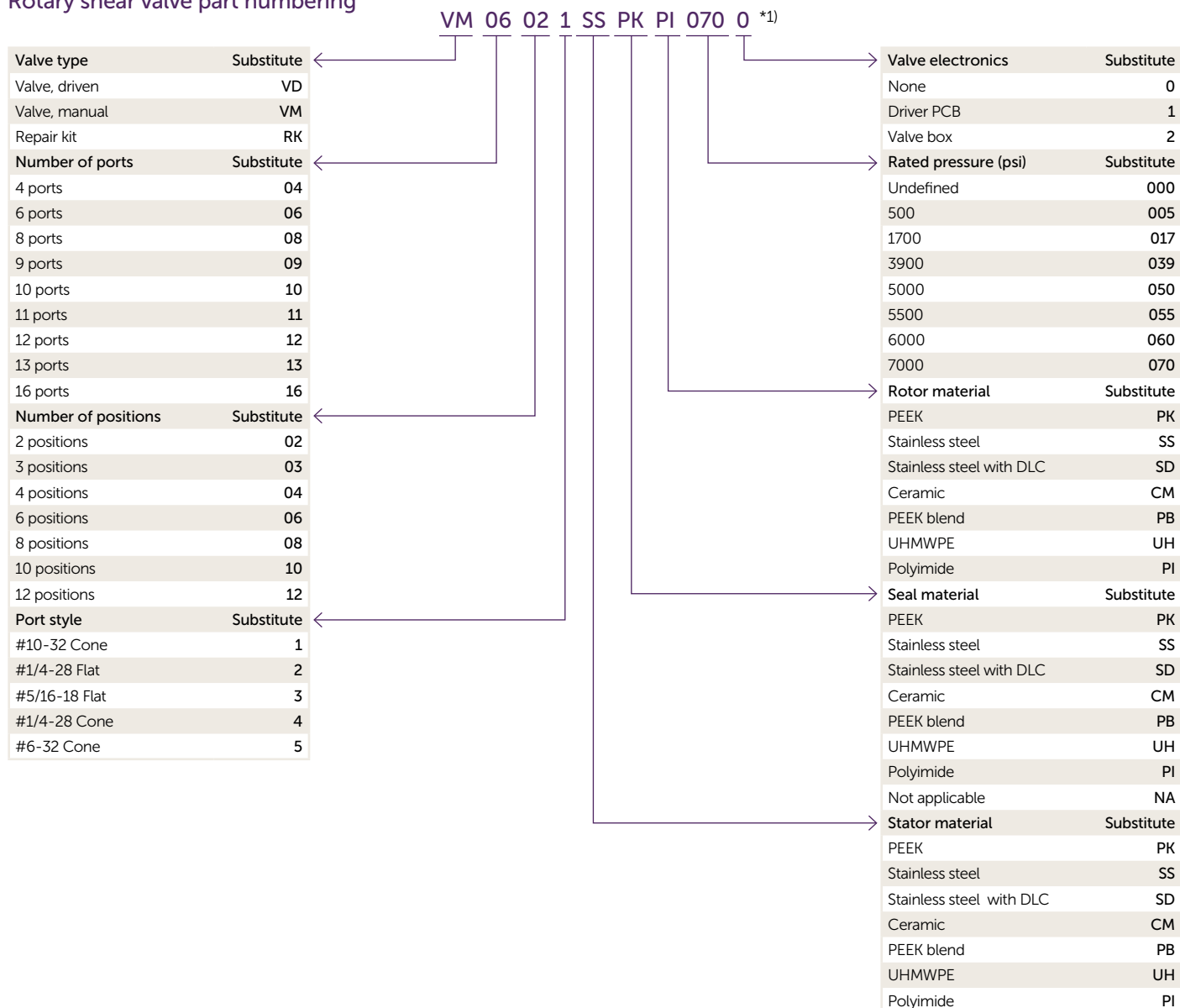
## Mounting details



## Working cycle



## Rotary shear valve part numbering



## Configurations available

| Type                      | Operating pressure<br>(bar) | Operating pressure<br>(psi) | Part no. *2)        |
|---------------------------|-----------------------------|-----------------------------|---------------------|
| 6 port, 2 position manual | 483                         | 7000                        | VM06021SSPKPI0700   |
| 6 port, 2 position        | 379                         | 5500                        | VD06021SSNAPI0550   |
| 4 port, 3 position        | 117                         | 1700                        | VD04032PKPKPK0170   |
| 8 port, 4 position        | 269                         | 3900                        | VD08042PKPKPK0390   |
| 9 port, 8 position        | 117                         | 1700                        | VD09082PKPKPK0170   |
| 13 port, 12 position      | 117                         | 1700                        | VD13122PKPKPK0170   |
| 4 port shuttle valve      | 38                          | 550                         | VD04002PKNAUH0050   |
| Available on request:     |                             |                             |                     |
| 4 port, 2 position        | 269                         | 3900                        | VD04022PKPKPK0390   |
| 8 port, 2 position        | 34                          | 500                         | VD08021PKPKPK0050   |
| Coming soon:              |                             |                             |                     |
| VALVE BOX (6/2)           | 483                         | 7000                        | VD06021SDNAPB0702-1 |
| 6 port, 2 position        | 483                         | 7000                        | VD06021SDNAPB0700-1 |
| 6 port, 2 position        | 483                         | 7000                        | VD06021SDNAPB0700-2 |

\*2) Step Master PCB available to all models.

\*1) Modifier (if needed, at the end):  
 "-000" (tbd)  
 "-KIT" (accessories included)