

Rotary shear valve 4 port, continuously rotating VD04002PKNAUH0050

- Rated to 34 bar (500 psi)
- Stepper motor with planetary gearing system
- High performance and cost effective
- Saving space and reducing complexity
- Proven and robust design
- Continuously rotating valve acting like a pump



Technical features

Type:
4 port, continuously rotating

Pressure rating:
34 bar (500 psi)

Port threads:
1/4-28 UNF-2B

Fitting type:
Flat

Power requirements:
1.26A 24V

Gear box ratio:
3.66:1

Motor specification:
2 phase, 1.8° step angle

Communication Protocol:
RS-485

*Available with PCB Step Master

Dimensions:
Height: 143.3 mm (5.64 in)
Width: 42.1 mm (1.66 in)
Depth: 42.1 mm (1.66 in)

Flow passage diameters:
1.0 mm (0.04 in)

Port to port volume:
(1) 10.6 µL,
(2) 2.4 µL

Stator port volume:
(1) 10.3 µL,
(2) 2.1 µL

Rotor channel volume:
0.3 µL

Weight:
0.35 kg (0.77 lbs)

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

Storage temperature:
–30 ... +80°C (–86 ... +176°F)

Storage humidity:
< 95% humidity, non-condensing

Switching time:
< 0,25s

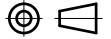
Wetted materials:
Stator: PEEK
Rotor: UHMW

Compliance:
RoHS, REACH

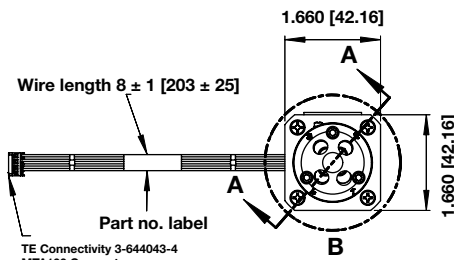
Dimensions

Dimensions in inches [mm]

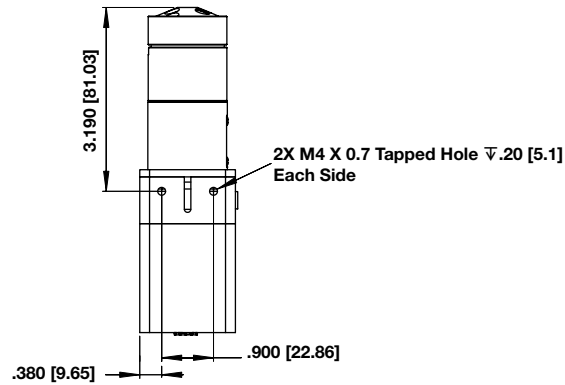
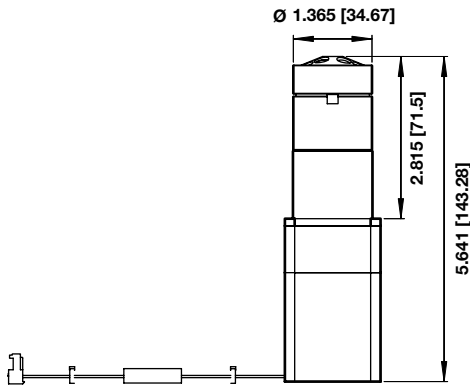
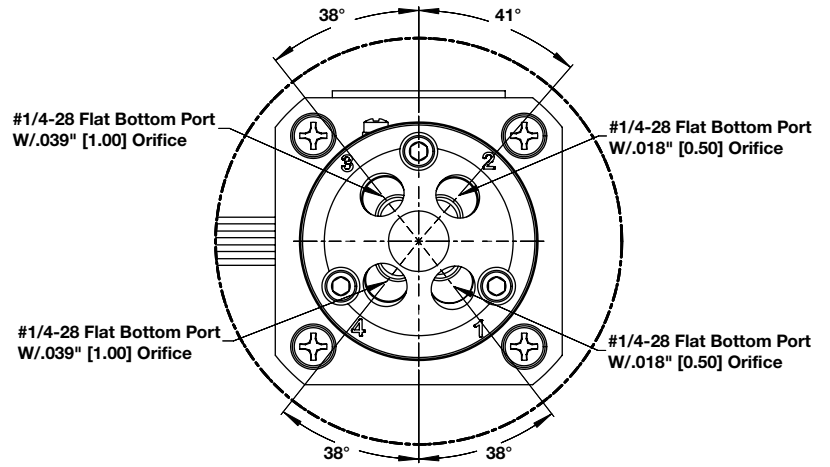
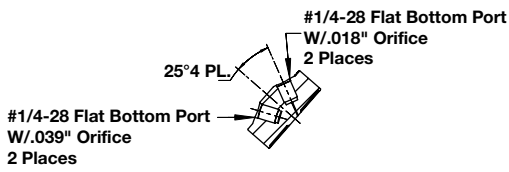
Projection/third angle



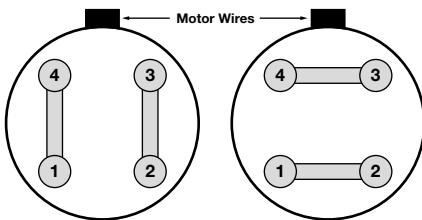
Detail B 3:1 Scale



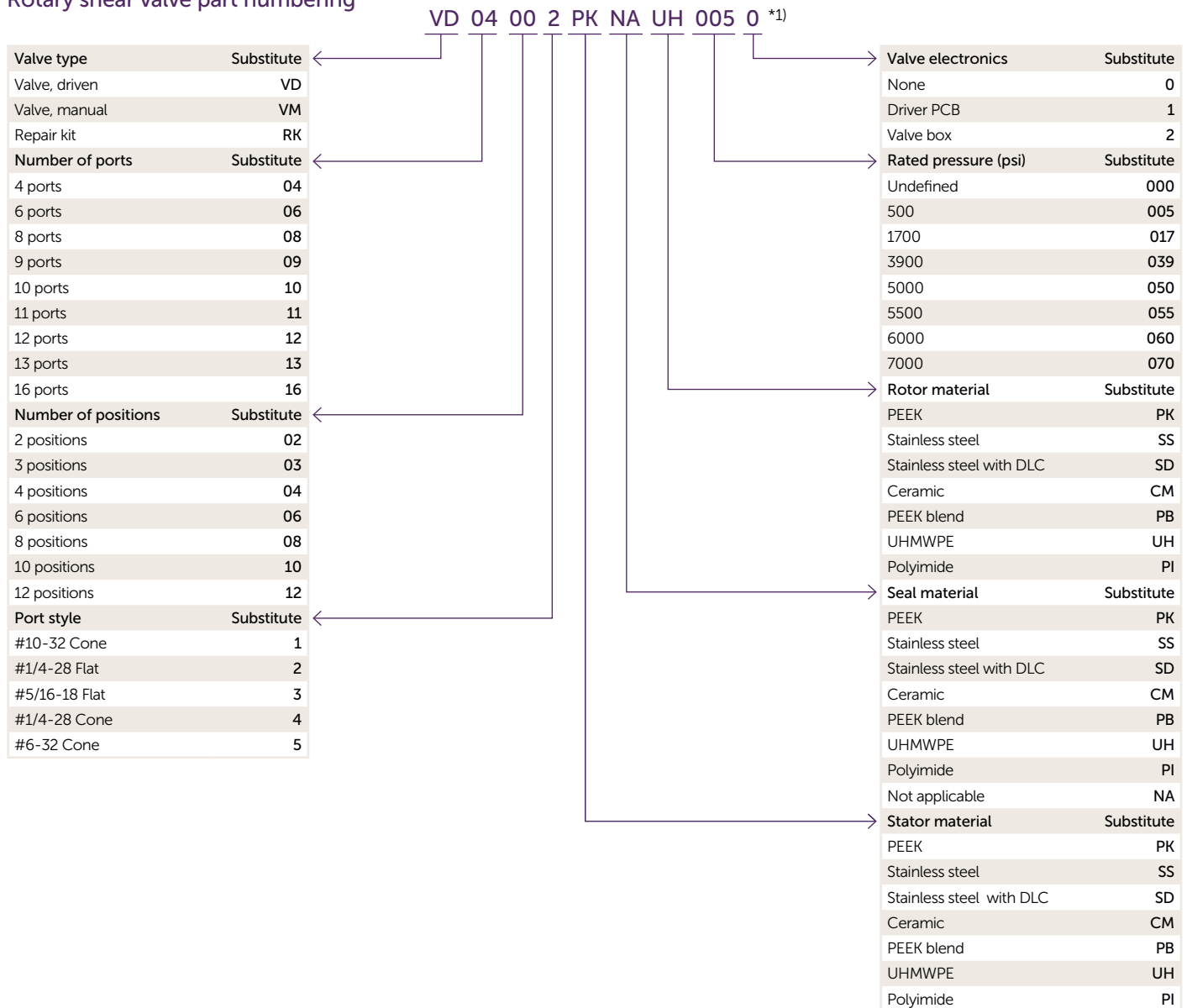
Section A-A



Typical working cycle



Rotary shear valve part numbering



Configurations available

Type	Operating pressure (bar)	Operating pressure (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)