[42 MPa] Outside Screw Type

Features

1. Since the stem uses an exterior-thread screw, the sliding part of the valve is not affected by the fluid.
2. The valve can be mounted on a panel without removing the gland nut.
3. Multiple gland packing variations make for a highly reliable gland seal structure.
4. A bonnet-less design eliminates bonnet leaks.

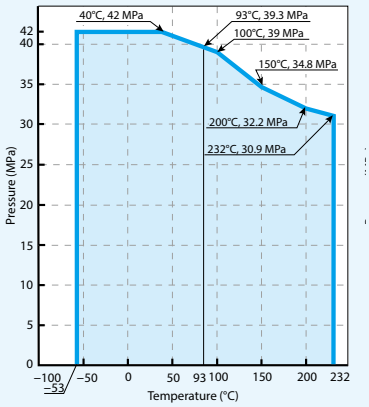
Technical Data

Nominal Diameter	Working Pressure (MPa)	Temperature (°C)
6.35	42	-53 to +232
9.52	30	
12.7	35	

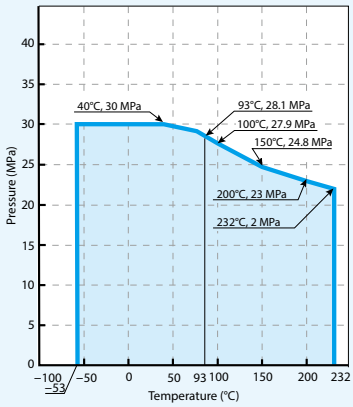
Note 1: Since this valve uses a New V-Lok connection, its set pressure depends on the tube-fitting size.
Note 2: Please see the temperature and pressure rating for details.

Temperature and Pressure Rating

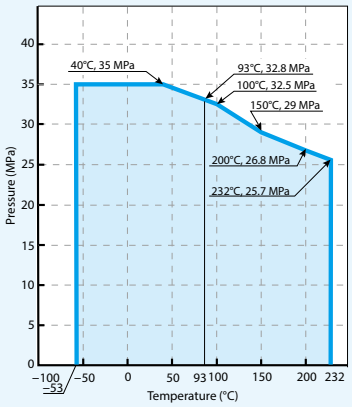
PUS–942P–6.35–V



PUS–942P–9.52–V



PUS–942P–12.7–V



Applicable Fluid

Water, air, nitrogen gas, inert gas like helium, and non-corrosive gas and liquid.

When selecting a valve

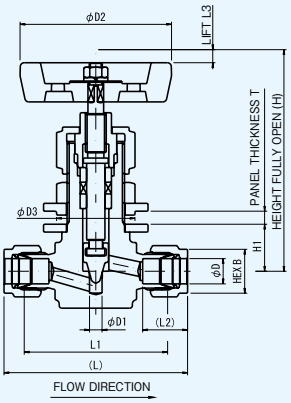
1. The valve uses fluorine-based grease on parts that come into contact with liquid or gas in the valve. It is not suitable for use with fluids such as solvents that would dissolve the lubricant. If you are unsure whether the liquid with which you intend to use the valve would dissolve the lubricant, please contact us before ordering.
2. Use of this valve in a partially opened state could cause the disk to rotate, resulting in a ringing sound. Please contact us if you require a model that can adjust the rate of flow.
3. Please contact us if you require parts that come into contact with the gas (or liquid) to be oil-free.
4. Please contact us if you require another connection type, for example a socket weld.
5. Please contact us before ordering if you plan to use this valve as a process valve.
   What is a process valve? A process valve is a valve that is used in a process pipe. Because such pipes carry fluid continuously, the valve is subject to the effects of the fluid's temperature and pressure on a continuous basis.

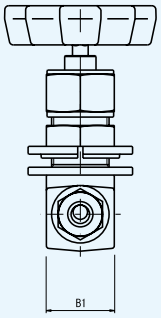
Materials

Description		Materials	
Body	※	SUSF316	
Disk	※	SUS316 (stellite cladding)	※1, 2
Stem	※	SUS316	※2
Gland packing	※	PEEK+C-PTFE	
Handle		ADC12	※3

※: Wetted part
※1: If you require a soft seal-type model, please contact us.
※2: May use SUS316 or ASTM-spec material (SUS316 equivalent).
※3: The standard handle color is black. We can also manufacture other colors.

New V-Lok Type



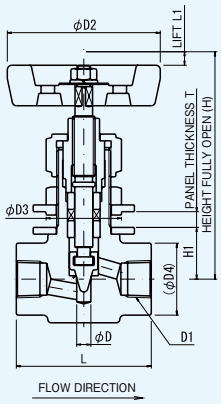


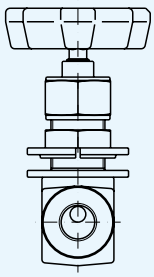
●Dimensions

UNIT (mm)

Nominal Diameter D	Orifice Diameter D1	Face to Face Dimension L	Face to Face Dimension L1	Pipe Connection Part L2	Pipe Connection Part B in	Pipe Connection Part B mm	Panel Mounting D3	Panel Mounting H	Height Fully Open H1	Lift L3	Handle Diameter D2	Body Thickness B1	Panel Thickness T MIN.	Panel Thickness T MAX.	Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
6.35	5	64.5	50	15.2	9/16	14.3	30.5	18	85	5	58	26	2	5	0.36	0.5	PUS-942P-6.35-V
9.52	5	69.5	55	16.8	11/16	17.5	30.5	18	85	5	58	26	2	5	0.51	0.6	PUS-942P-9.52-V
12.7	6.5	84.2	64	22.9	7/8	22.2	34	23	101	6	68	32	2	7	0.87	0.9	PUS-942P-12.7-V

Thread Type





Can be downloaded from the Fujikin CAD data service. https://www.fujikin.co.jp/cad_s/

●Dimensions

UNIT (mm)

Nominal Diameter A	Nominal Diameter B	Orifice Diameter D	Face to Face Dimension L	Pipe Connection Part Screw D1	Panel Mounting D3	Panel Mounting H	Height Fully Open H1	Lift L1	Handle Diameter D2	D4	Panel Thickness T MIN.	Panel Thickness T MAX.	Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
8	1/4	5	50	Rc 1/4	30.5	18	85	5	58	22	2	5	0.49	0.5	PUS-142PB
10	3/8	6.5	60	Rc 3/8	34	23	101	6	68	32	2	7	0.87	1	PUS-142PC
15	1/2	8	60	Rc 1/2	34	23	101	6	68	32	2	7	1.1	1	PUS-142PD

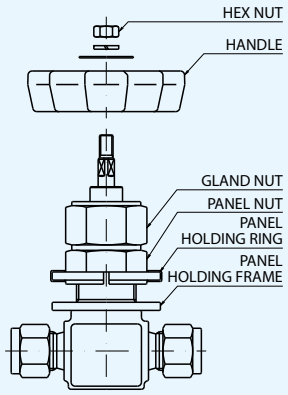
Note: Regarding the temperature and pressure rating for the PUS-142 type, the nominal diameters are all the same as for the PUS-942P-6.35.

Panel Mounting Instructions

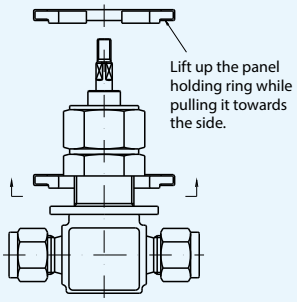
- This product's structure allows it to be panel-mounted without loosening the gland nut.
- The valve can be panel-mounted as follows:

Panel hole diameter chart

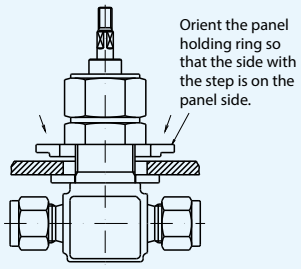
Nominal Diameter	Installation Hole Dimensions +0.5 0
6.35, 8 A	30.5
9.52	30.5
12.7, 10 A, 15 A	34



- Loosen the hex nut holding the handle in place and remove the handle.
- Move the panel nut upward (towards the gland nut).

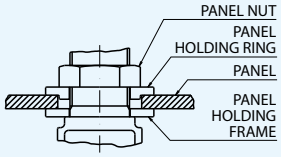


- Pull the panel holding ring (which is covered by rubber) towards the side so that it's larger than the panel nut's outside diameter and remove it from the valve.



- Insert the valve into the panel hole. (While doing so, orient the valve so that the panel holding frame is underneath the panel.)
- Attach the panel holding ring (**after removing the rubber covering**) onto the valve.

Note: Orient the panel holding ring so that the side with the step is on the panel side.



- Insert the bottom part of the panel holding ring into the panel hole and tighten the panel holding ring with the panel nut to secure the valve in place.
- Next, attach the handle, nameplate, washer, and hex nut (in that order) to complete the installation.

(Hex nut tightening torque
ø6.35, ø9.52, 8 A: 3 N•m
ø12.7, 10 A, 15 A: 5 N•m)