

[16.2 MPa]



Features

- 1. This valve features a safe design and is manufactured under a rigorous quality control regime.
- 2. It has a rugged, forged body and a compact, bonnet-less design.
- 3. Since it's a needle valve, flow rate can be easily adjusted.
- 4. Thanks to proprietary Fujikin packing and a design that emphasizes ease of use, it features low handle torque and good sealability.

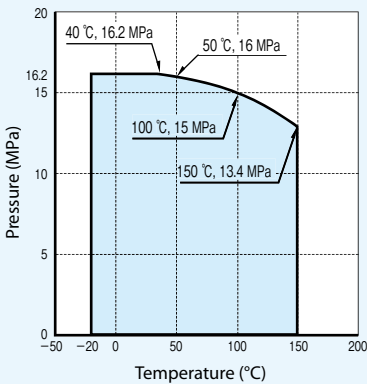
Technical Data

Working Pressure (MPa)	Temperature (°C)
16.2	-20 to +150

Applicable Fluid

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

Temperature and Pressure Rating



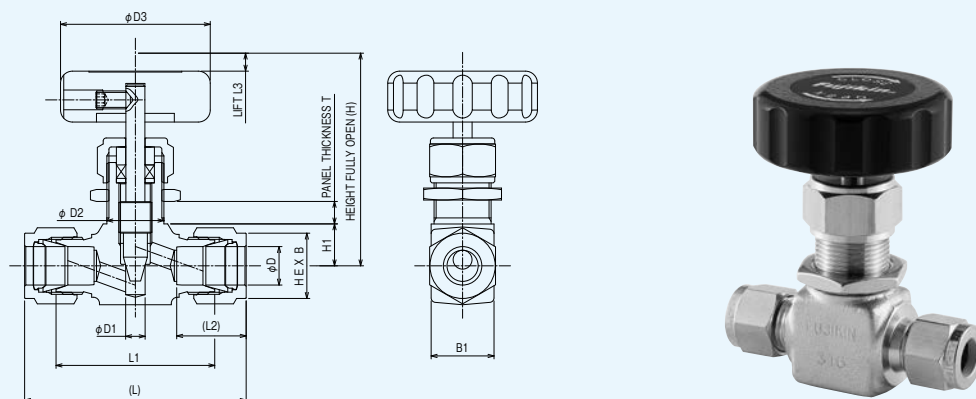
Materials



No.	Description	Materials
1	Handle	A5056B
2	Hexagonal socket head set screw	SUS 304
3	Gland nut	SUS 304
4	Press-fit packing	SUS 316
5	Gland packing ※	PTFE
6	Ring ※	SUS 316
7	Stem ※	SUS 316
8	Panel nut	SUS 304
9	Body ※	SUSF 316

※: Wetted part
Note 1: May use SUS316, 304, ASTM-spec material (SUS316 equivalent).
Note 2: The standard handle paint color is black.

New V-Lok Type



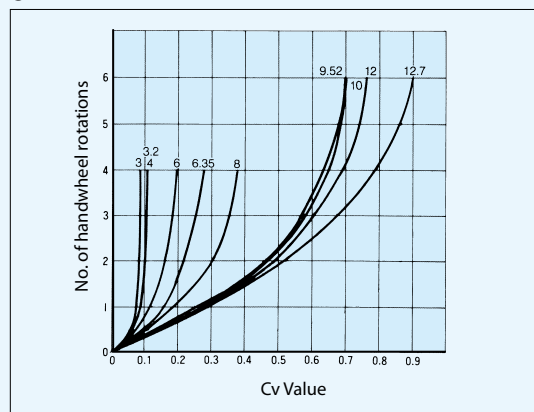
●Dimensions (mm size)

Nominal Diameter D	Orifice Diameter D1	Face to Face Dimension		Pipe Connection Part		Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
		L	L1	L2	B	D2	H1					MIN.	MAX.			
3	5	51.2	38	12.9	12	13.2	10.5	54	4	40	17	2	6	0.08	0.2	PUH-916-3-SH-V
4	5	56.2	43	13.7	12	13.2	10.5	54	4	40	17	2	6	0.1	0.2	PUH-916-4-SH-V
6	5	57.8	43	15.3	14	13.2	10.5	54	4	40	17	2	6	0.2	0.2	PUH-916-6-SH-V
8	5	58	43	16.2	16	13.2	10.5	54	4	40	17	2	6	0.38	0.2	PUH-916-8-SH-V
10	6.5	68.2	53	17.2	19	19.5	14	71	6	50	21	2	8	0.7	0.4	PUH-916-10-SH-V
12	6.5	73.2	53	22.8	22	19.5	14	71	6	50	21	2	8	0.78	0.4	PUH-916-12-SH-V

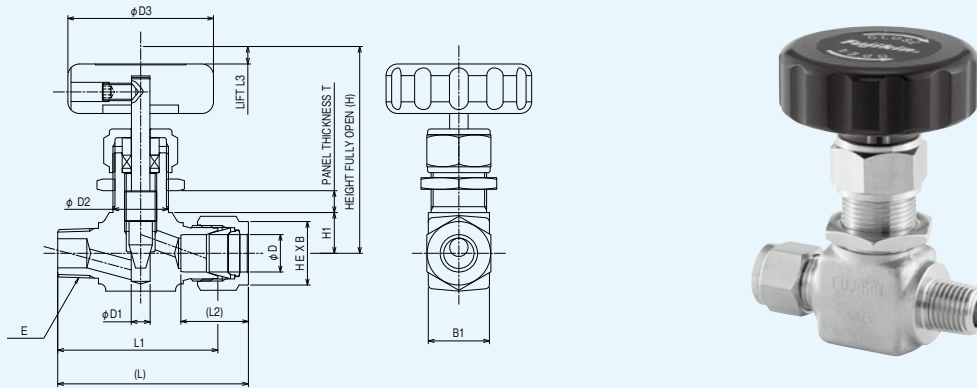
●Dimensions (inch size)

Nominal Diameter D	Orifice Diameter D1	Face to Face Dimension		Pipe Connection Part			Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
													L	L1			
		in	mm														
3.2	5	51.2	38	12.7	7/16	11.1	13.2	10.5	54	4	40	17	2	6	0.1	0.2	PUH-916-3.2-SH-V
6.35	5	57.8	43	15.2	9/16	14.3	13.2	10.5	54	4	40	17	2	6	0.3	0.2	PUH-916-6.35-SH-V
9.52	6.5	66.8	52	16.8	11/16	17.5	19.5	14	71	6	50	21	2	8	0.7	0.4	PUH-916-9.52-SH-V
12.7	6.5	73.2	53	22.9	7/8	22.2	19.5	14	71	6	50	21	2	8	0.9	0.4	PUH-916-12.7-SH-V

●Cv Curves



New V-Lok + Thread Connection



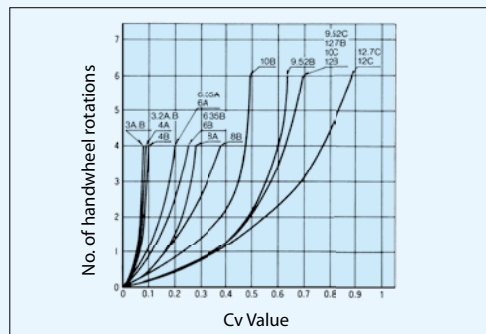
●Dimensions (mm size)

Nominal Diameter D	Thread Designation E	Orifice Diameter D1	Face to Face Dimension		Pipe Connection Part		Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
			L	L1	L2	B	D2	H1					MIN.	MAX.			
3	R1/8	5	46.1	39.5	12.9	12	13.2	10.5	54	4	40	17	2	6	0.08	0.2	PUH-916-3A-SH-V
3	R1/4	5	51.1	44.5	12.9	12	13.2	10.5	54	4	40	17	2	6	0.08	0.2	PUH-916-3B-SH-V
4	R1/8	5	48.6	42	13.7	12	13.2	10.5	54	4	40	17	2	6	0.09	0.2	PUH-916-4A-SH-V
4	R1/4	5	53.6	47	13.7	12	13.2	10.5	54	4	40	17	2	6	0.1	0.2	PUH-916-4B-SH-V
6	R1/8	5	49.4	42	15.3	14	13.2	10.5	54	4	40	17	2	6	0.2	0.2	PUH-916-6A-SH-V
6	R1/4	5	54.4	47	15.3	14	13.2	10.5	54	4	40	17	2	6	0.25	0.2	PUH-916-6B-SH-V
8	R1/8	5	49.5	42	16.2	16	13.2	10.5	54	4	40	17	2	6	0.28	0.2	PUH-916-8A-SH-V
8	R1/4	5	54.5	47	16.2	16	13.2	10.5	54	4	40	17	2	6	0.38	0.2	PUH-916-8B-SH-V
10	R1/4	6.5	62.6	55	17.2	19	19.5	14	71	6	50	21	2	8	0.49	0.4	PUH-916-10B-SH-V
10	R3/8	6.5	62.6	55	17.2	19	19.5	14	71	6	50	21	2	8	0.7	0.4	PUH-916-10C-SH-V
12	R1/4	6.5	65.1	55	22.8	22	19.5	14	71	6	50	21	2	8	0.7	0.4	PUH-916-12B-SH-V
12	R3/8	6.5	65.1	55	22.8	22	19.5	14	71	6	50	21	2	8	0.9	0.4	PUH-916-12C-SH-V

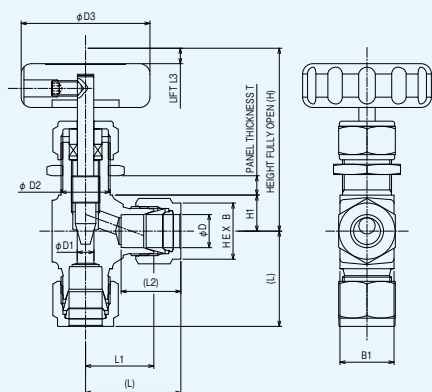
●Dimensions (inch size)

Nominal Diameter D	Thread Designation E	Orifice Diameter D1	Face to Face Dimension		Pipe Connection Part			Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
														L	L1			
			in	mm														
3.2	R1/8	5	46.1	39.5	12.7	7/16	11.1	13.2	10.5	54	4	40	17	2	6	0.09	0.2	PUH-916-3.2A-SH-V
3.2	R1/4	5	51.1	44.5	12.7	7/16	11.1	13.2	10.5	54	4	40	17	2	6	0.09	0.2	PUH-916-3.2B-SH-V
6.35	R1/8	5	49.4	42	15.2	9/16	14.3	13.2	10.5	54	4	40	17	2	6	0.2	0.2	PUH-916-6.35A-SH-V
6.35	R1/4	5	54.4	47	15.2	9/16	14.3	13.2	10.5	54	4	40	17	2	6	0.25	0.2	PUH-916-6.35B-SH-V
9.52	R1/4	6.5	61.9	54.5	16.8	11/16	17.5	19.5	14	71	6	50	21	2	8	0.64	0.3	PUH-916-9.52B-SH-V
9.52	R3/8	6.5	61.9	54.5	16.8	11/16	17.5	19.5	14	71	6	50	21	2	8	0.7	0.3	PUH-916-9.52C-SH-V
12.7	R1/4	6.5	65.1	55	22.9	7/8	22.2	19.5	14	71	6	50	21	2	8	0.7	0.4	PUH-916-12.7B-SH-V
12.7	R3/8	6.5	65.1	55	22.9	7/8	22.2	19.5	14	71	6	50	21	2	8	0.9	0.4	PUH-916-12.7C-SH-V

●Cv Curves



New V-Lok Type



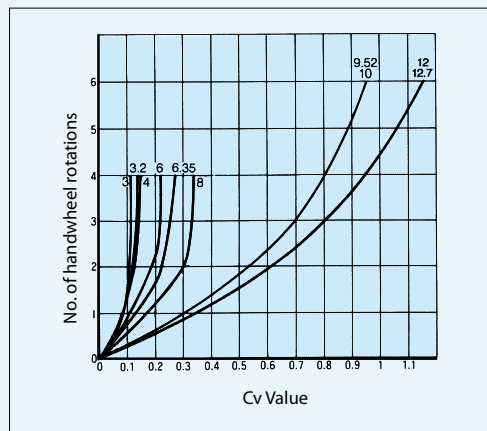
●Dimensions (mm size)

Nominal Diameter D	Orifice Diameter D1	Face to Face Dimension		Pipe Connection Part		Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
		L	L1	L2	B	D2	H1					MIN.	MAX.			
3	2.4	25.6	19	12.9	12	13.2	10.5	54	4	40	17	2	6	0.11	0.2	PUH-016-3-SH-V
4	3.5	26.6	20	13.7	12	13.2	10.5	54	4	40	17	2	6	0.14	0.2	PUH-016-4-SH-V
6	5	28.9	21.5	15.3	14	13.2	10.5	54	4	40	17	2	6	0.21	0.2	PUH-016-6-SH-V
8	5	29	21.5	16.2	16	13.2	10.5	54	4	40	17	2	6	0.32	0.2	PUH-016-8-SH-V
10	6.5	34.1	26.5	17.2	19	19.5	14	71	6	50	21	2	8	0.96	0.4	PUH-016-10-SH-V
12	6.5	36.6	26.5	22.8	22	19.5	14	71	6	50	21	2	8	1.17	0.4	PUH-016-12-SH-V

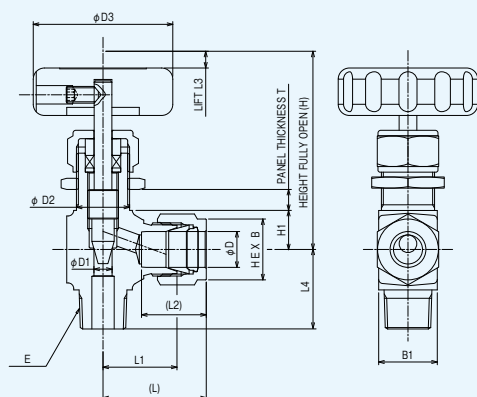
●Dimensions (inch size)

Nominal Diameter D	Orifice Diameter D1	Face to Face Dimension		Pipe Connection Part			Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
													MIN.	MAX.			
		L	L1	L2	B		D2	H1									
					in	mm											
3.2	2.8	25.6	19	12.7	7/16	11.1	13.2	10.5	54	4	40	17	2	6	0.13	0.2	PUH-016-3.2-SH-V
6.35	5	28.9	21.5	15.2	9/16	14.3	13.2	10.5	54	4	40	17	2	6	0.28	0.2	PUH-016-6.35-SH-V
9.52	6.5	33.4	26	16.8	11/16	17.5	19.5	14	71	6	50	21	2	8	0.96	0.3	PUH-016-9.52-SH-V
12.7	6.5	36.6	26.5	22.9	7/8	22.2	19.5	14	71	6	50	21	2	8	1.17	0.4	PUH-016-12.7-SH-V

●Cv Curves



New V-Lok + Thread Connection



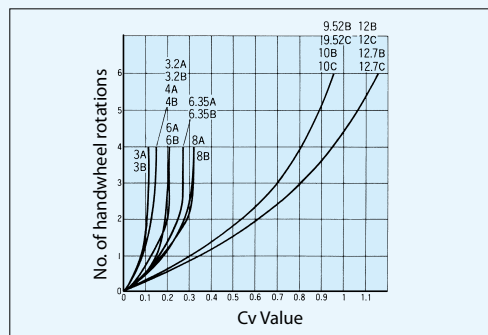
●Dimensions (mm size)

Nominal Diameter D	Thread Designation E	Orifice Diameter D1	Face to Face Dimension			Pipe Connection Part		Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
			L	L1	L4	L2	B	D2	H1					MIN.	MAX.			
3	R1/8	5	25.6	19	20.5	12.9	12	13.2	10.5	54	4	40	17	2	6	0.12	0.2	PUH-016-3A-SH-V
3	R1/4	5	25.6	19	25.5	12.9	12	13.2	10.5	54	4	40	17	2	6	0.12	0.2	PUH-016-3B-SH-V
4	R1/8	5	26.6	20	20.5	13.7	12	13.2	10.5	54	4	40	17	2	6	0.15	0.2	PUH-016-4A-SH-V
4	R1/4	5	26.6	20	25.5	13.7	12	13.2	10.5	54	4	40	17	2	6	0.15	0.2	PUH-016-4B-SH-V
6	R1/8	5	28.9	21.5	20.5	15.3	14	13.2	10.5	54	4	40	17	2	6	0.21	0.2	PUH-016-6A-SH-V
6	R1/4	5	28.9	21.5	25.5	15.3	14	13.2	10.5	54	4	40	17	2	6	0.21	0.2	PUH-016-6B-SH-V
8	R1/8	5	29	21.5	20.5	16.2	16	13.2	10.5	54	4	40	17	2	6	0.32	0.2	PUH-016-8A-SH-V
8	R1/4	5	29	21.5	25.5	16.2	16	13.2	10.5	54	4	40	17	2	6	0.32	0.2	PUH-016-8B-SH-V
10	R1/4	6.5	34.1	26.5	28.5	17.2	19	19.5	14	71	6	50	21	2	8	0.96	0.3	PUH-016-10B-SH-V
10	R3/8	6.5	34.1	26.5	28.5	17.2	19	19.5	14	71	6	50	21	2	8	0.96	0.4	PUH-016-10C-SH-V
12	R1/4	6.5	36.6	26.5	28.5	22.8	22	19.5	14	71	6	50	21	2	8	1.17	0.4	PUH-016-12B-SH-V
12	R3/8	6.5	36.6	26.5	28.5	22.8	22	19.5	14	71	6	50	21	2	8	1.17	0.4	PUH-016-12C-SH-V

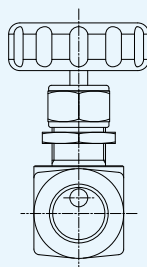
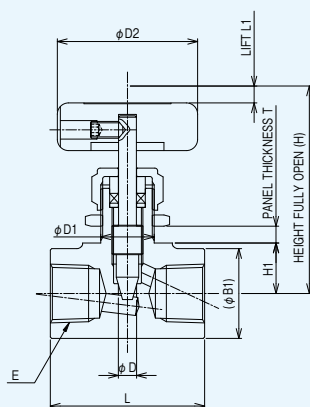
●Dimensions (inch size)

Nominal Diameter D	Thread Designation E	Orifice Diameter D1	Face to Face Dimension			Pipe Connection Part			Panel Mounting		Height Fully Open H	Lift L3	Handle Diameter D3	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
			L	L1	L4	L2	B		D2	H1					MIN.	MAX.			
							in	mm											
3.2	R1/8	5	25.6	19	20.5	12.7	7/16	11.1	13.2	10.5	54	4	40	17	2	6	0.15	0.2	PUH-016-3.2A-SH-V
3.2	R1/4	5	25.6	19	25.5	12.7	7/16	11.1	13.2	10.5	54	4	40	17	2	6	0.15	0.2	PUH-016-3.2B-SH-V
6.35	R1/8	5	28.9	21.5	20.5	15.2	9/16	14.3	13.2	10.5	54	4	40	17	2	6	0.28	0.2	PUH-016-6.35A-SH-V
6.35	R1/4	5	28.9	21.5	25.5	15.2	9/16	14.3	13.2	10.5	54	4	40	17	2	6	0.28	0.2	PUH-016-6.35B-SH-V
9.52	R1/4	6.5	33.4	26	28.5	16.8	11/16	17.5	19.5	14	71	6	50	21	2	8	0.96	0.3	PUH-016-9.52B-SH-V
9.52	R3/8	6.5	33.4	26	28.5	16.8	11/16	17.5	19.5	14	71	6	50	21	2	8	0.96	0.3	PUH-016-9.52C-SH-V
12.7	R1/4	6.5	36.6	26.5	28.5	22.9	7/8	22.2	19.5	14	71	6	50	21	2	8	1.17	0.4	PUH-016-12.7B-SH-V
12.7	R3/8	6.5	36.6	26.5	28.5	22.9	7/8	22.2	19.5	14	71	6	50	21	2	8	1.17	0.4	PUH-016-12.7C-SH-V

●Cv Curves



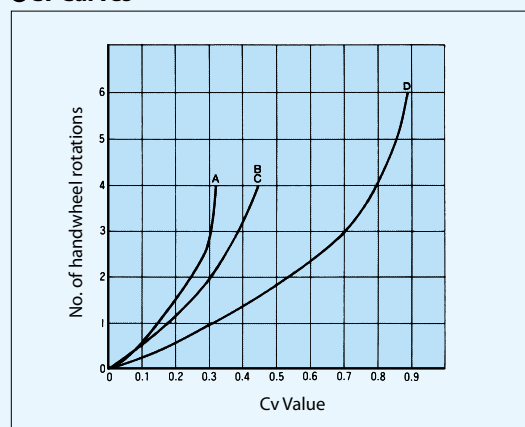
Thread Connection



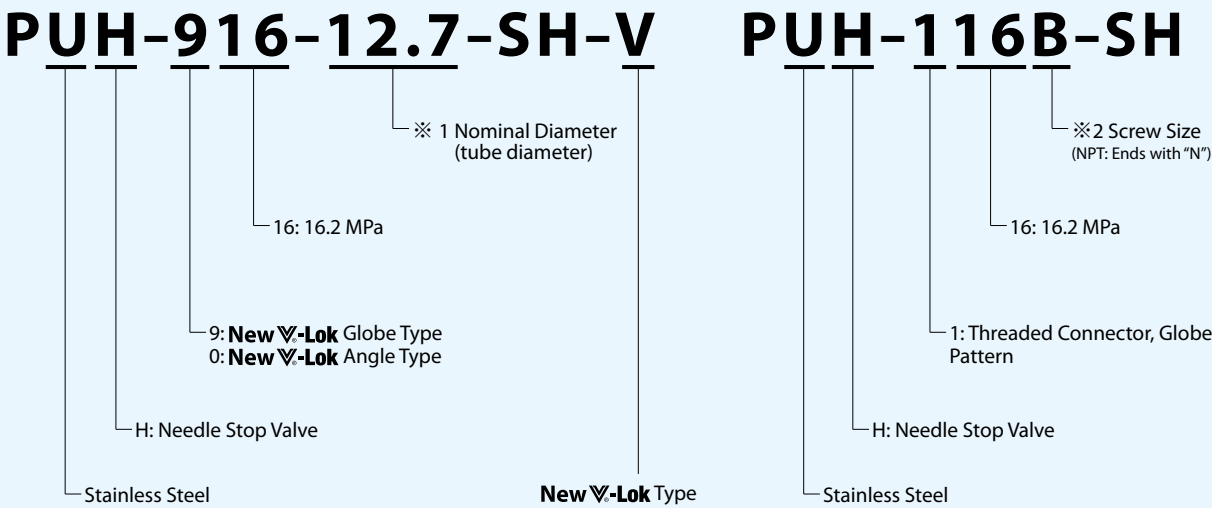
●Dimensions

Thread Designation E	Orifice Diameter D	Face to Face Dimension L	Panel Mounting		Height Fully Open H	Lift L	Handle Diameter D2	Body Thickness B1	Panel Thickness (T)		Cv Value (MAX.)	Weight (approximate) kg	Ordering Numbers
			D1	H1					MIN.	MAX.			
Rc1/8	5	40	13.2	11	55.5	4	40	17	2	6	0.3	0.2	PUH-116A-SH
Rc1/4	5	40	13.2	14	58.5	4	40	21	2	6	0.45	0.2	PUH-116B-SH
Rc3/8	5	50	13.2	16	60.5	4	40	25	2	6	0.45	0.3	PUH-116C-SH
Rc1/2	6.5	55	19.5	16	73	6	50	28	2	8	0.9	0.4	PUH-116D-SH

●Cv Curves



Ordering Numbers



※1: Nominal diameter (tube diameter)

	Millimeter Size	Inch Size
Nominal Diameter (Tube Diameter)	The number 3 indicates an outside diameter of 3. The number 4 indicates an outside diameter of 4. The number 6 indicates an outside diameter of 6. The number 8 indicates an outside diameter of 8. The number 10 indicates an outside diameter of 10. The number 12 indicates an outside diameter of 12.	The number 3.2 indicates an outside diameter of 3.2. The number 6.35 indicates an outside diameter of 6.35. The number 9.52 indicates an outside diameter of 9.52. The number 12.7 indicates an outside diameter of 12.7.

※2 Thread size (for taper pipe thread)

Taper Pipe Thread	Designation		A	B	C	D
	JIS B0203 (1982) (ISO7/1)	Male thread Female thread	R1/8 Rc1/8	R1/4 Rc1/4	R3/8 Rc3/8	R1/2 Rc1/2

Thread designation complies with JIS B0203 (1982) (ISO 7/1).
JIS B0203 (1981) values are provided for reference.