

FINE series PURE

Standard series



FUCL-715-6.35

FUBV-915-6.35

FUD-75-9.52

Safety & Clean Technology

Fujikin Incorporated

STOP VALVE

NEEDLE VALVE

SUPER MINI BALL VALVE

LINE CHECK VALVE

FILTER

STOP VALVE

NEEDLE VALVE

SUPER MINI BALL VALVE

LINE CHECK VALVE

FILTER

Fujikin's Class 1 cleanrooms feature cutting-edge technology throughout, and must exceed the most rigorous standards for cleanliness. Products manufactured in this environment are therefore guaranteed to meet the most stringent requirements and to be of the highest quality worldwide.



INDEX

STANDARD series

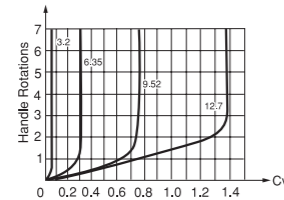
Stop - Needle Valve	
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Super Mini Ball Valve	
Super Mini Ball Valve	7
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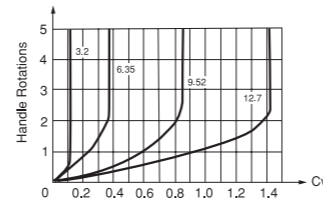
STOP VALVE

Stainless Steel 4.9 MPa (On/Off Valve)

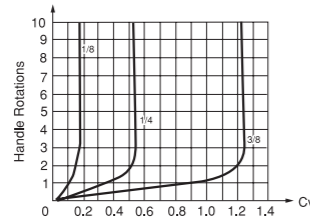
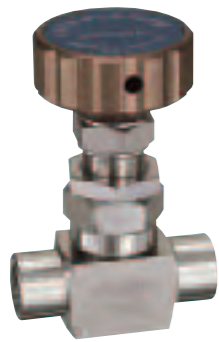
FUD-95 type



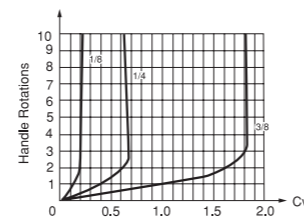
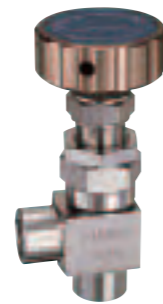
FUD-05 type



FUD-15 type



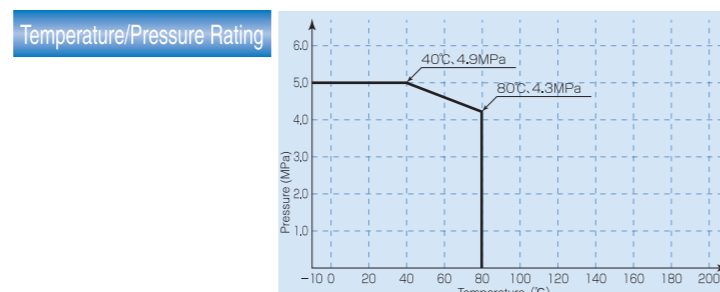
FUD-35 type



FEATURES / SPECIFICATIONS

- All wetted surfaces are completely oil-free
- Compact size and lightweight
- Outside thread type with packing mechanism
- High-pressure certification may be provided

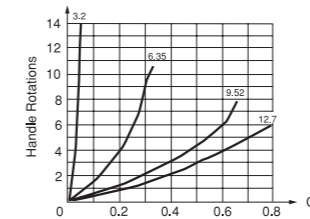
Materials	Part	Material
	Body	SUS316
	Bonnet	SUS316
	Stem	SUS316
	Disk Packing	PCTFE
	Gland Packing	PTFE•PFA
	Handle	A5056



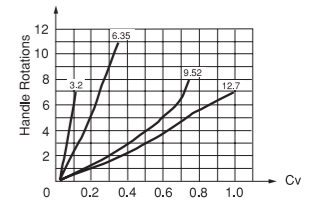
NEEDLE VALVES

Stainless Steel 4.9MPa (Flow Control Valve)

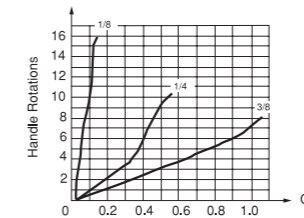
FUN-95 type
FUE-95 type
FUH-95 type



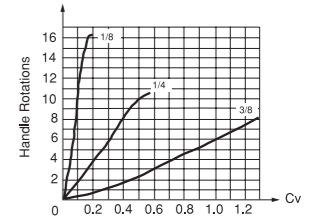
FUN-05 type
FUE-05 type
FUH-05 type



FUN-15 type
FUE-15 type
FUH-15 type



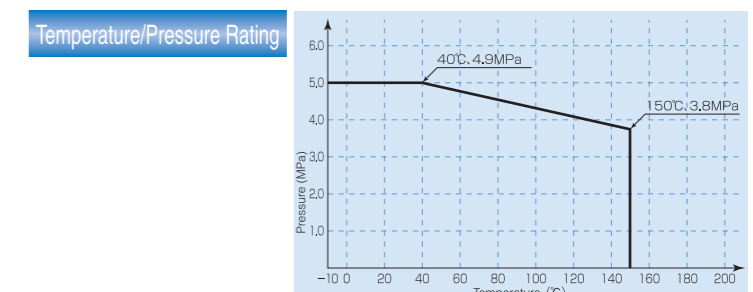
FUN-35 type
FUE-35 type
FUH-35 type



FEATURES / SPECIFICATIONS

- All wetted surfaces are completely oil-free
- Compact size and lightweight
- Highly-precise flow control
- Outside thread type with packing mechanism
- High-pressure certification may be provided

Materials	Part	Material
	Body	SUS316
	Bonnet	SUS316
	Stem	SUS316
	Gland Packing	PTFE•PFA
	Handle	A5056





SPECIFICATIONS

Stop Valve

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Orifice Diameter (mm)	Maximum Cv	Valve Type	End-connection
	3.2	4.90 MPa 710 psi	-10~80 °C 14~175 °F	2.5	0.05	Globe Angle	F900 Fitting Threaded Fitting
	1/8"			2.5	0.16		
	6.35			5	0.3		
	1/4"			5	0.5		
	9.52			8	0.625		
	3/8"			8	1.2		
	12.7			8	0.78		

Needle Valve

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Orifice Diameter (mm)	Maximum Cv	Valve Type	End-connection
	3.2	4.90 MPa 710 psi	-10~150 °C 14~300 °F	2.5	0.045	Globe Angle	F900 Fitting Threaded Fitting
	1/8"			2.5	0.125		
	6.35			5	0.3		
	1/4"			5	0.45		
	9.52			8	0.62		
	3/8"			8	1		
	12.7			8	0.78		

OPTIONS

NPT Thread Rc thread is standard for threaded type end-connection; NPT may be optionally specified

PART NUMBER DESIGNATION

Please use the part number designations below when placing an order.

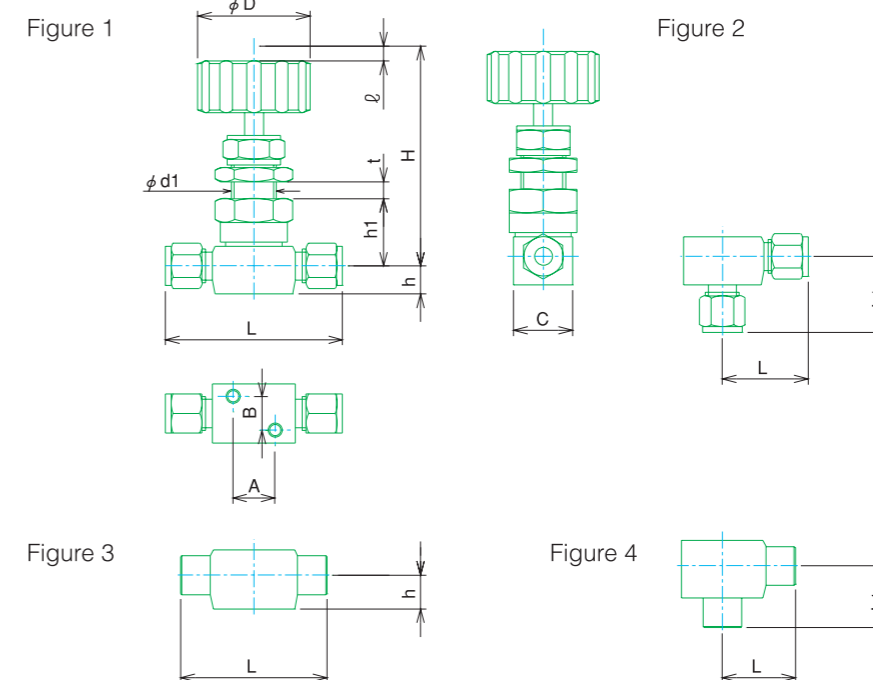
FU H - 9 5 - 6.35

A	B	C	D	E	End-connection 3.2 : 1/8" OD 6.35 : 1/4" OD 9.52 : 3/8" OD 12.7 : 1/2" OD (9.52 port diameter only for UJR end-connections) A : Rc1/8 B : Rc1/4 C : Rc3/8 (A dash before the letter is not necessary for Rc threaded valves)
			D		5 : 4.9 MPa maximum operating pressure
		C			1 : Threaded globe type 3 : Threaded angle type 9 : F900 fitting type 0 : 0: F900 fitting angle type
	B				N : Ultra micro flow control valve E : Micro flow control valve H : Flow control valve D : Stop valve
A					F U : Fine series stainless steel valve

* Optional or made to order.

Actual shipped products may have additional designations (such as #A, #B) in the part number. These indicate production history and do not indicate a change in function or dimensions.

DIMENSIONS



Nom. Diameter	Part Number	Figure	End-to-End		Height H	Panel mt ht h1	phi d1	t	h	Stroke l	Handle phi D	A	B	C
			L	L1										
3.2	FUN-95-3.2	1	57	-	69	24	32	6	10	7	32	15	12	21
	FUD-95-3.2													
6.35	FUE-95-6.35	1	63	-	73	24	40	6	10	7	40	15	12	21
	FUD-95-6.35													
9.52	FUH-95-9.52	1	71	-	81	26	50	6	12	7	50	20	15	26
	FUD-95-9.52													
12.7	FUH-95-12.7	1	81	-	82	27	50	6	14	7	50	20	15	26
	FUD-95-12.7													
3.2	FUN-05-3.2	2	28.5	23	69	24	32	6	-	7	32	-	-	21
	FUD-05-3.2													
6.35	FUE-05-6.35	2	30.5	27	73	24	40	6	-	7	40	-	-	21
	FUD-05-6.35													
9.52	FUH-05-9.52	2	33.5	30	81	26	50	6	-	7	50	-	-	26
	FUD-05-9.52													
12.7	FUH-05-12.7	2	40.5	35	82	27	50	6	-	7	50	-	-	26
	FUD-05-12.7													
1/8"	FUN-15A	3	46	-	71	24	32	6	10	7	32	15	12	21
	FUD-15A													
1/4"	FUE-15B	3	52	-	75	26	40	6	12	7	40	15	12	21
	FUD-15B													
3/8"	FUH-15C	3	58	-	83	28	50	6	13	7	50	20	15	26
	FUD-15C													
1/8"	FUN-35A	4	23	19	71	24	32	6	-	7	32	-	-	21
	FUD-35A													
1/4"	FUE-35B	4	26	22	75	26	40	6	-	7	40	-	-	21
	FUD-35B													
3/8"	FUH-35C	4	29	25	83	28	50	6	-	7	50	-	-	26
	FUD-35C													

() Brackets indicate dimensions for normally closed valves. See Figure 1 for dimension keys not shown in other Figures.



Super Mini Ball Valve

Stainless Steel 16.2 MPa

Super Mini 3-Port Ball Valve

Stainless steel 16.2 MPa

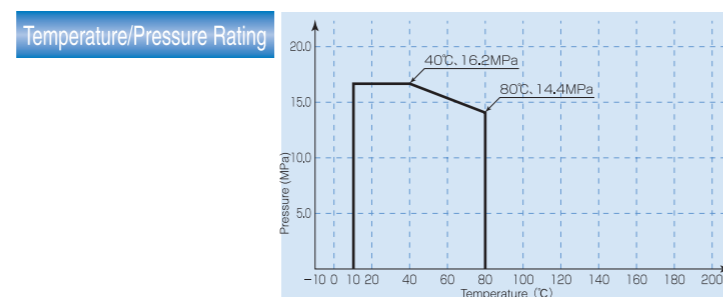


FEATURES

- All wetted surfaces are completely oil-free
- Compact size and lightweight
- Available with ultra-pure treatment
- Panel mount hardware is standard
- High-pressure certification may be provided

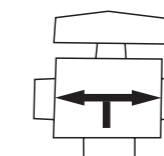
SPECIFICATIONS

Materials	Part	Material
	Body	SUS316
	Ball	SUS316
	Seat Packing	Proprietary Packing
	Gland Packing	PTFE
	Handle	ZDC1



FEATURES

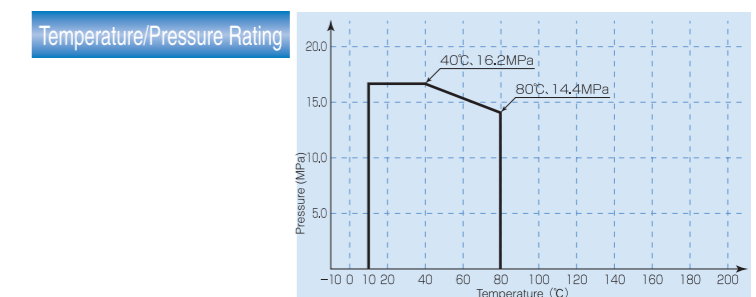
- All wetted surfaces are completely oil-free
 - Compact size and lightweight
 - Available with ultra-pure treatment
 - Panel mount hardware is standard
 - High-pressure certification may be provided
- 3-Port valves must be installed in the configuration as shown below. Flow in any other direction as shown may not allow the seats to seal sufficiently.



Proper flow direction should be in from the bottom port and out through the left and right ports.

SPECIFICATIONS

Materials	Part	Material
	Body	SUS316
	Ball	SUS316
	Seat Packing	Proprietary Packing
	Gland Packing	PTFE
	Handle	ZDC1





SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	End-connection
	3.2	16.2MPa 2,350 psi	10~80 °C 50~176 °F	0.23	F900 Fitting UJR Fitting Threaded Fitting
	6.35 (1/4")			2-port valve: 0.6 3-port valve: 0.5	
	9.52 (3/8")			2-port valve: 5.6 3-port valve: 2.0	
	12.7 (1/2")			2-port valve: 9.2 3-port valve: 4.0	

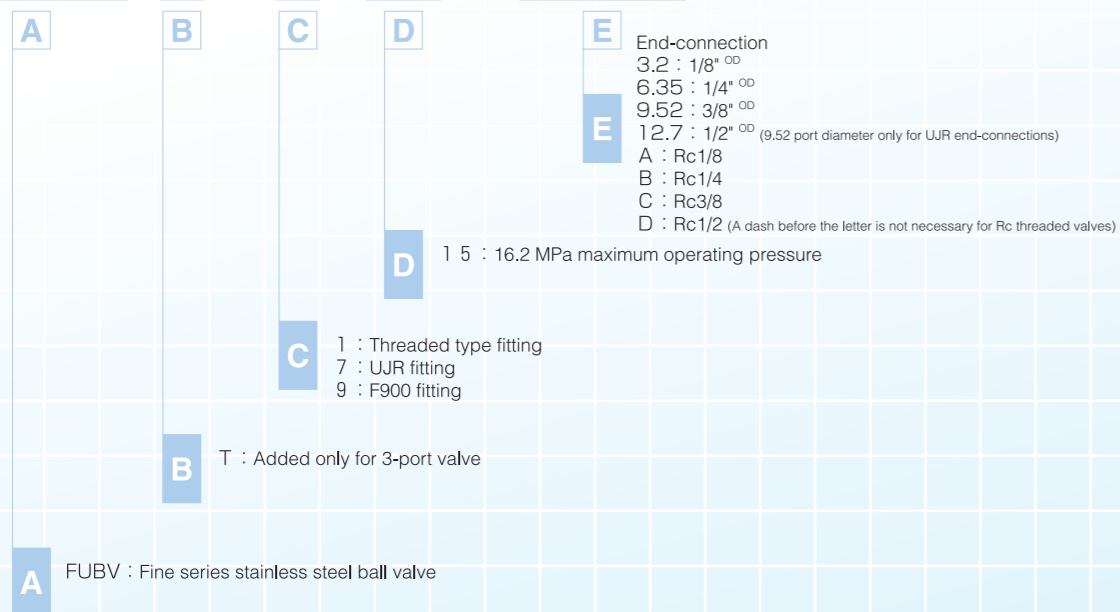
OPTIONS

NPT Thread Rc thread is standard for threaded type end-connection; NPT may be optionally specified

PART NUMBER DESIGNATION

Please use the part number designations below when placing an order.

FUBV T - 9 15 - 6.35



* Optional or made to order.

Actual shipped products may have additional designations (such as #A, #B) in the part number. These indicate production history and do not indicate a change in function or dimensions.

DIMENSIONS

Figure 1

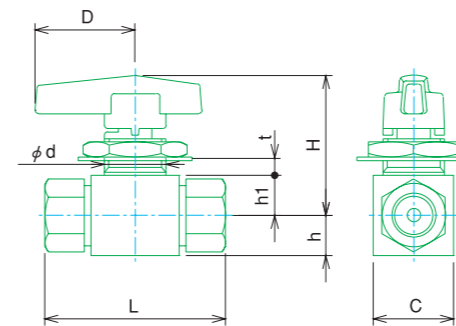


Figure 2

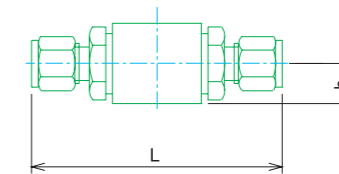


Figure 3

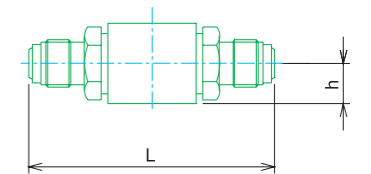


Figure 4

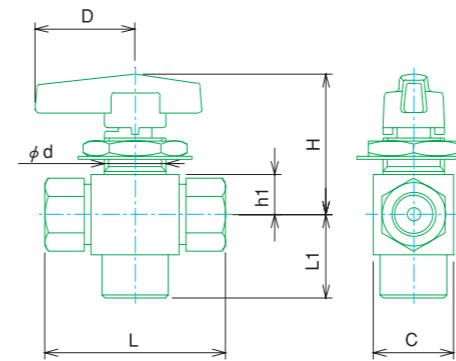


Figure 5

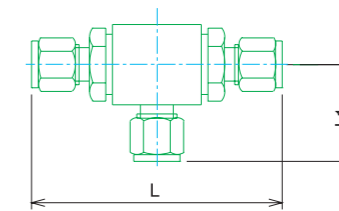
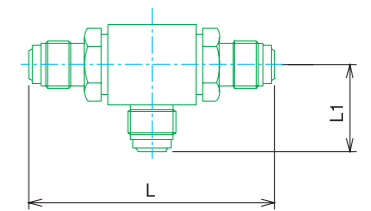


Figure 6



Super Mini Ball Valve

Nom. Diameter	Part Number	Figure	End to End L	Height H	Panel mt ht h1	ht d2	h	Handle D	C
1/4B	FUBV-115B	1	54	42	12	18.5	12	30	24
3/8B	FUBV-115C	1	55	52	16	27.5	16	35	28
1/2B	FUBV-115D	1	75	56	20	36.5	20	55	40
3.2	FUBV-915-3.2	2	70	39	10	14.5	10	25	21
6.35	FUBV-915-6.35	2	75	42	12	18.5	12	30	24
9.52	FUBV-915-9.52	2	88	52	16	27.5	16	35	28
12.7	FUBV-915-12.7	2	121	56	20	36.5	20	55	40
6.35	FUBV-715-6.35	3	73.6	42	12	18.5	12	30	24
9.52	FUBV-715-9.52	3	86.6	52	16	27.5	16	35	28

Super Mini 3-Port Ball Valve (Unit : mm)

Nom. Diameter	Part Number	Figure	End to End L	Height H	Panel mt ht L1	ht h1	ht d2	Handle D	C
1/4B	FUBVT-115B	4	54	42	25	12	18.5	30	24
3/8B	FUBVT-115C	4	55	52	30	16	27.5	35	28
1/2B	FUBVT-115D	4	75	56	37.5	20	36.5	55	40
3.2	FUBVT-915-3.2	5	70	39	25	10	14.5	25	21
6.35	FUBVT-915-6.35	5	75	42	29	12	18.5	30	24
9.52	FUBVT-915-9.52	5	88	52	35	16	27.5	35	28
12.7	FUBVT-915-12.7	5	121	56	43	20	36.5	55	40
6.35	FUBVT-715-6.35	6	73.6	42	26	12	18.5	30	24
9.52	FUBVT-715-9.52	6	86.6	52	31.5	16	27.5	35	28

() Brackets indicate dimensions for normally closed valves. See Figure 1 for dimension keys not shown in other Figures.



Filter

Stainless Steel 16.2 MPa



FEATURES

- All wetted surfaces are completely oil-free
- Compact size and lightweight
- High-pressure certification may be provided

SPECIFICATIONS - MATERIALS

Materials	Part	Material
	Body	SUS316
	Filter Element	SUS316
	Gasket	SUS316 + Ag coating PTFE

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Filter Shape	End-Connection
	1/8"	16.2 MPa 2,350 psi	-10~80 °C 14~175 °F	Line Type Tee Type	F900 Fitting UJR fitting (line-type only) Threaded Fitting
	6.35 (1/4")				
	9.52 (3/8")				
	12.7 (1/2")				

OPTIONS

- NPT Thread: Rc thread is standard; NPT thread may be made to order.
- Many line filter element sizes are available; please select the proper one for your use from the charts below.

Line Filter Element Size

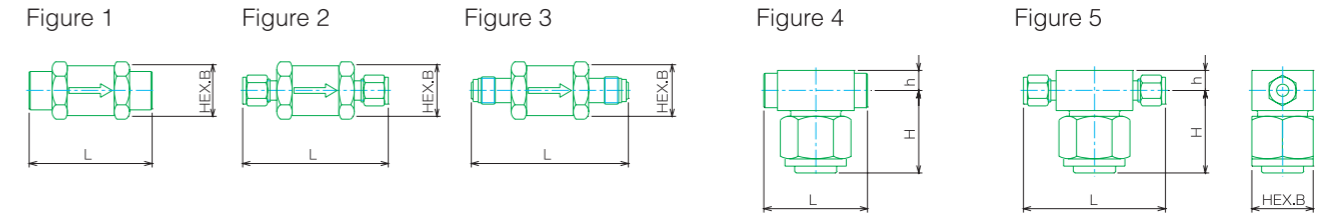
Nominal Diameter	Element Size (μm)						
	0.1	0.5	2	5	10	40	70
1/8"	△	△	△	△	△	△	△
6.35, 1/4"	○*1	○*1	○	○	○	△	△
9.52, 3/8"	○*2	○*2	○	○	○	△	△
12.7, 1/2"	△	△	○	○	○	△	△

Tee Filter Element Size

Nominal Diameter	Element Size (μm)						
	0.1	0.5	2	5	10	40	70
1/8"	△	△	△	△	△	△	△
6.35, 1/4"	○*2	○*2	○	○	○	△	△
9.52, 3/8"	△	△	○	○	○	△	△
12.7, 1/2"	△	△	○*2	○*2	○*2	△	△

△ Made to order product ※1 : Only Finelok (F900) and UJR types are standard. ※2 : Only Finelok is standard.

DIMENSIONS



Line Filter Dimensions

Nominal Diameter	Part Number	Figure	L	B
1/8"	FUFL-115A	1	64	26
1/4"	FUFL-115B	1	64	26
3/8"	FUFL-115C	1	78	32
1/2"	FUFL-115D	1	84	32
6.35	FUFL-915-6.35	2	76	26
9.52	FUFL-915-9.52	2	86	32
12.7	FUFL-915-12.7	2	94	32
6.35	FUFL-715-6.35	3	81.8	26
9.52	FUFL-715-9.52	3	84.6	32

Tee Filter Dimensions

Nominal Diameter	Part Number	Figure	L	H	h	B
1/8"	FUFT-115A	4	54	43	11	32
1/4"	FUFT-115B	4	54	43	11	32
3/8"	FUFT-115C	4	70	52	16	36
1/2"	FUFT-115D	4	70	52	16	36
6.35	FUFT-915-6.35	5	74	43	11	32
9.52	FUFT-915-9.52	5	90	50	14	36
12.7	FUFT-915-12.7	5	106	50	14	36

(Unit : mm)

PART NUMBER DESIGNATION

Please use the part number designations below when placing an order.

FUF L - 9 15 - 6.35 - 2

A FUF : Stainless steel filter

B L : Line type
T : Tee type

C 1 : Threaded type fitting
7 : UJR fitting
9 : F900 fitting type

D 15 : 16.2MPa maximum operating pressure

E End-connections
6.35 : 1/4" ^{OD}
9.52 : 3/8" ^{OD}
12.7 : 1/2" ^{OD} (9.52 port diameter only for UJR end-connections)

F Element Size
2 : 2 μm element size
5 : 5 μm element size
10 : 10 μm element size
40 : 40 μm element size*
70 : 70 μm element size*

* Optional or made to order.

Actual shipped products may have additional designations (such as #A, #B) in the part number. These indicate production history and do not indicate a change in function or dimensions.