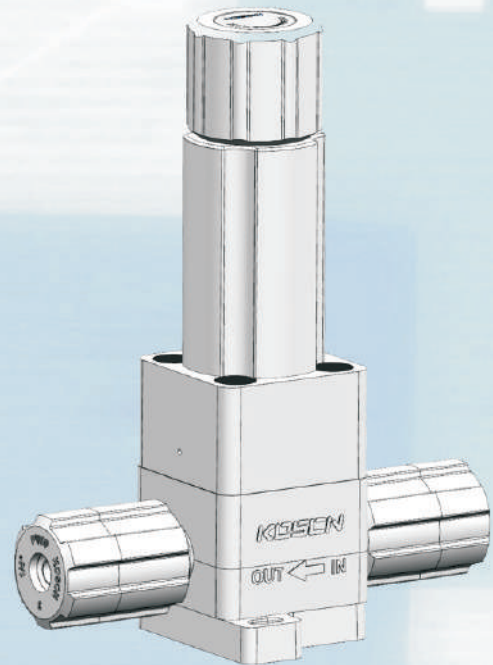


DV 315

Manual Regulating Chemical Liquid Valves

Common Type Precision Type



DV315 series is a manual liquid valve with flow regulation function. It has the characteristics of clean liquid inlet cavity structure and low ion precipitation, which can meet the high process application of semiconductor. And the product has the characteristics of corrosion resistance and heat resistance. Different structures can achieve ordinary regulation and multi-turn precision flow regulation, which can meet different application scenarios and cost requirements.

Easy installation and maintenance

- * All-plastic appearance structure, beautiful and corrosion-resistant
- * Miniaturized design, easy installation, no maintenance
- * UNF standard FlareLINK interface thread, higher adaptability and interchangeability
- * Mounting plate dimensions conform to SEMI standard F65-1101

High safety performance

- * Complies with FDA 177-1520 / 177-1550 dissolution testing requirements
- * Triple-sealed valve cavity diaphragm structure can effectively cut off leakage
- * The drive mechanism is molded with fluororesin, and the pressure bearing redundancy is high
- * Curved PTFE diaphragm is more ductile and has a longer life
- * High precision product with adjustable hand wheel limit locking function

Performance characteristics

- * Medium pressure 0... 5 bar
- * Temperature tolerance 5...120°C
(need to be selected according to the characteristics of different products and materials)
- * Rotary stroke ordinary type 2...5 revolutions
Precision model 18 revolutions
- * Precision multi-flow range of the same caliber is optional

Technical characteristics

Size	1/4", 3/8", 1/2"
Pressure	PN 5
Body material	PTFE PFA
Diaphragm	PTFE
Structure	PVDF / PPS / PEEK / PP-Natural
Connector	UNF : Flare LINK Insert Bushing
Floor	SEMI F65-1101

Flow capacity

Standard runner data are for 20°C water with 1 bar pressure difference

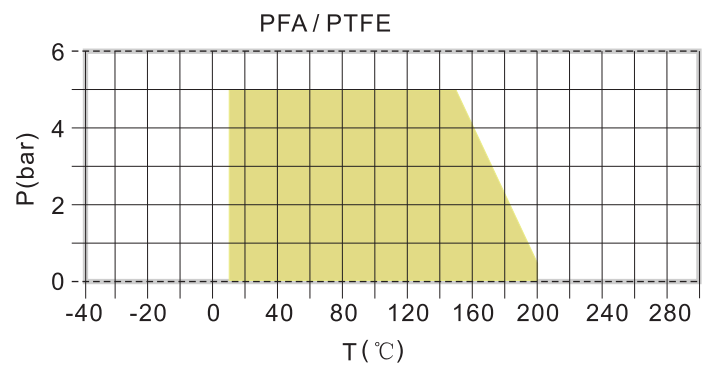
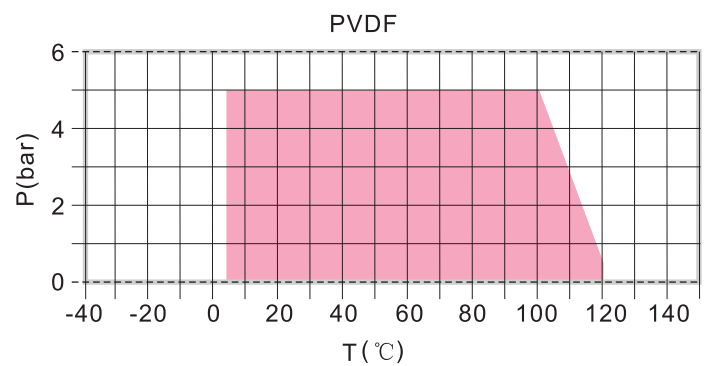
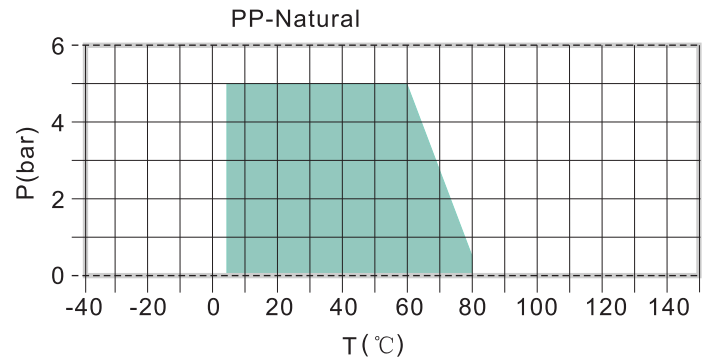
Inch	φ Mm	Kv 100 l/min	m ³ /h
1/4"	4	4,70	0,28
3/8"	6	10,00	0,60
1/2"	9	22,00	1,32

$$Cv = kv \times 0,07 ; Fv = kv \times 0,0585$$

Kv (l/min) ; Cv (gal/min) US ; Fv (gal/min) GB

Pressure & temperature curve

All data based on water for considering 25 years safe life time





Performance data

Item	Unit	Data
Service pressure	bar	0...5,0
Backpressure	bar	0...5,0
Leakage rate	cm ³ /min	0 (Based on water pressure)
Operating temperature	°C	5... 120 (Excluding HF)
Ambient temperature	°C	0...80
Material	Valve body	PFA
	Diaphragm	PTFE
	Actuating element	PVDF
	Baseplate	PVDF
	Bolt	SS Coating

Product code

Size (Inch)	Flow	Insert Bushing	Flare LINK
		PFA-UHP	PFA-UHP
1/4	0...3000	315.3302406	315.3300406
1/4	0...1500	315.3152406	315.3150406
1/4	0...500	315.3052406	315.3050406

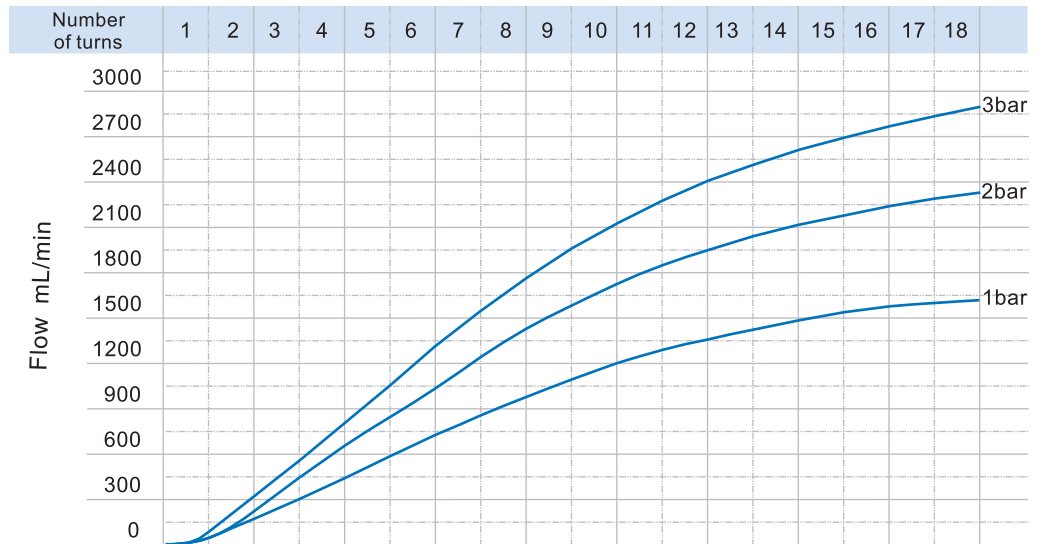
Coding directive

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Model									
Feature	3	1	5						
Precision type				3					
Flow rate									
0...3000						30			
0...1500						15			
0...500						05			
0...100						01			
Connection									
Flare LINK								04	
Insert Bushing								24	
Caliber	1/4"								
									06

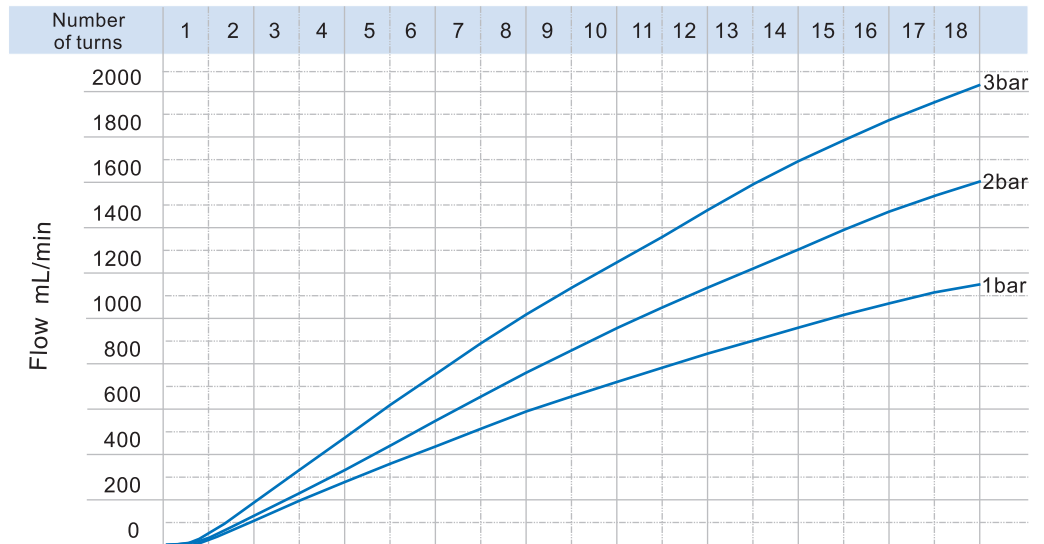
Linear graph of relative flow

The relative flow linear coefficient refers to the flow change as a function of the valve opening stroke.

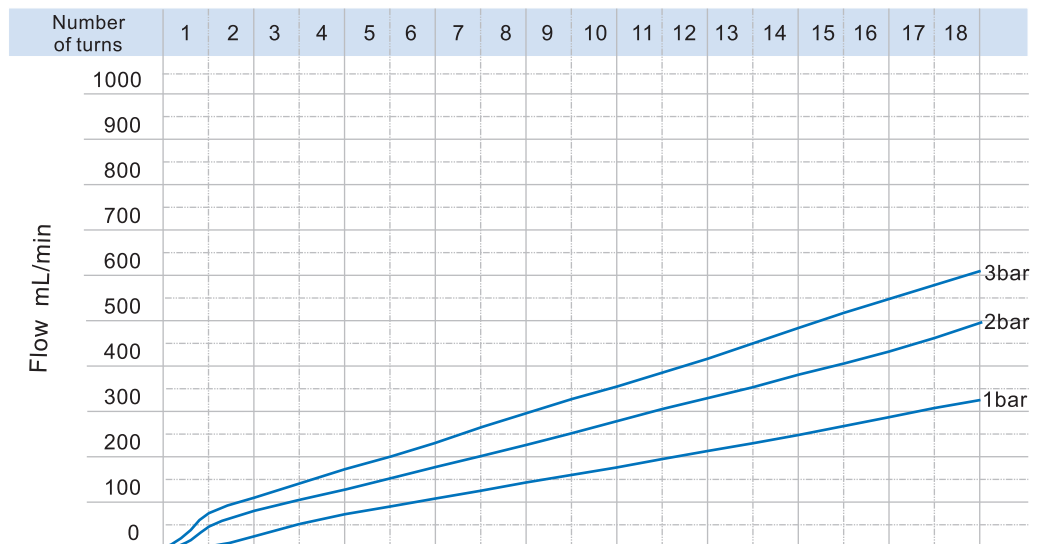
3000 Type Data
38-25-40



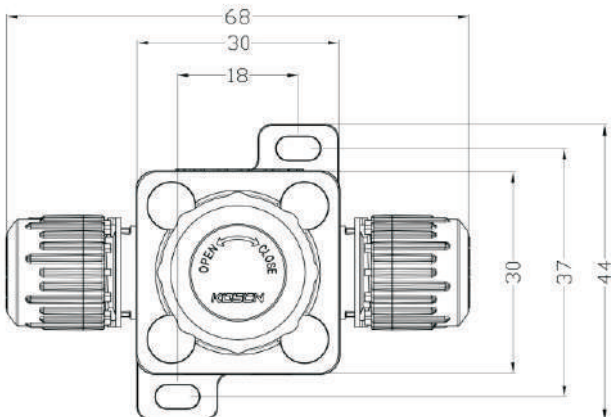
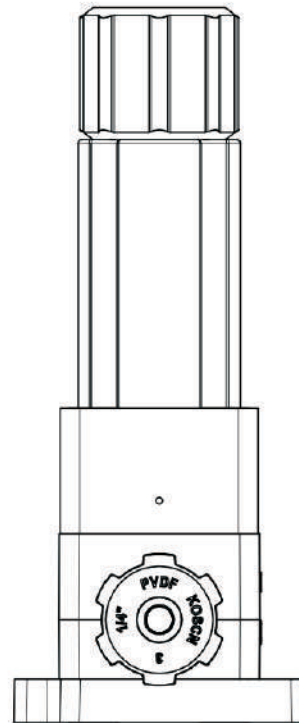
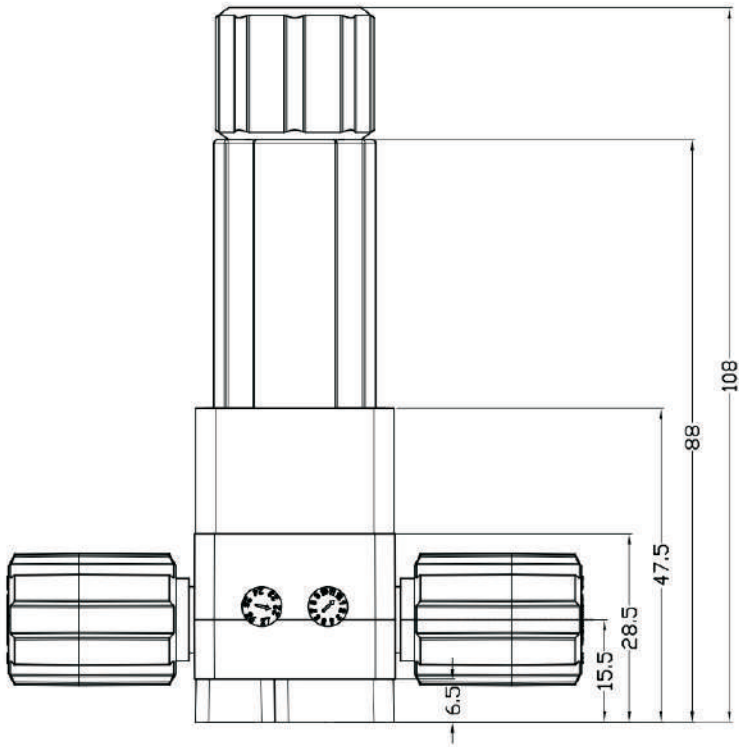
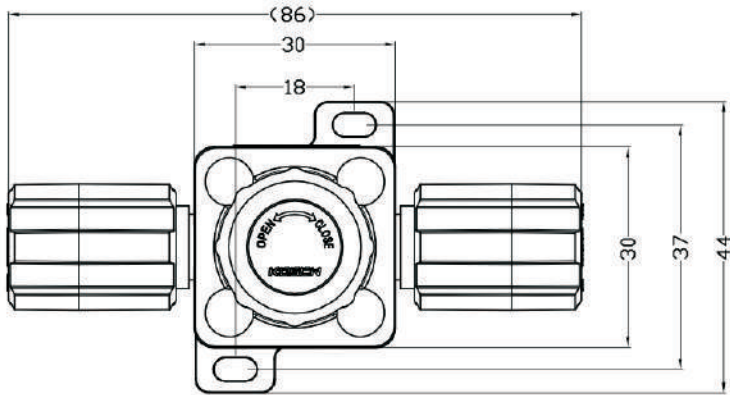
1500 Type Data
38-30-50



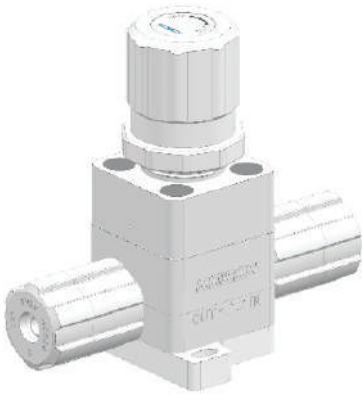
500 Type Data
38-35-55



1/4 Size



DV315 V-Type , Common



Performance data

Item	Unit	Data
Service pressure	bar	0...5,0
Backpressure	bar	0...5,0
Leakage rate	cm ³ /min	0 (Based on water pressure)
Operating temperature	°C	5...80
Ambient temperature	°C	0...60
Material	Valve body	PFA
	Diaphragm	PTFE
	Actuating element	PP-Natural
	Baseplate	PVDF
	Bolt	SS Coating

Product code

Size (Inch)	Insert Bushing		Flare LINK	
	PFA-UHP	PFA	PFA-UHP	PFA
1/4	315.763.2406	315.763.2406C	315.763.0406	315.763.0406C
3/8	315.763.2410	315.763.2410C	315.763.0410	315.763.0410C
1/2	315.763.2412	315.763.2412C	315.763.0412	315.763.0412C

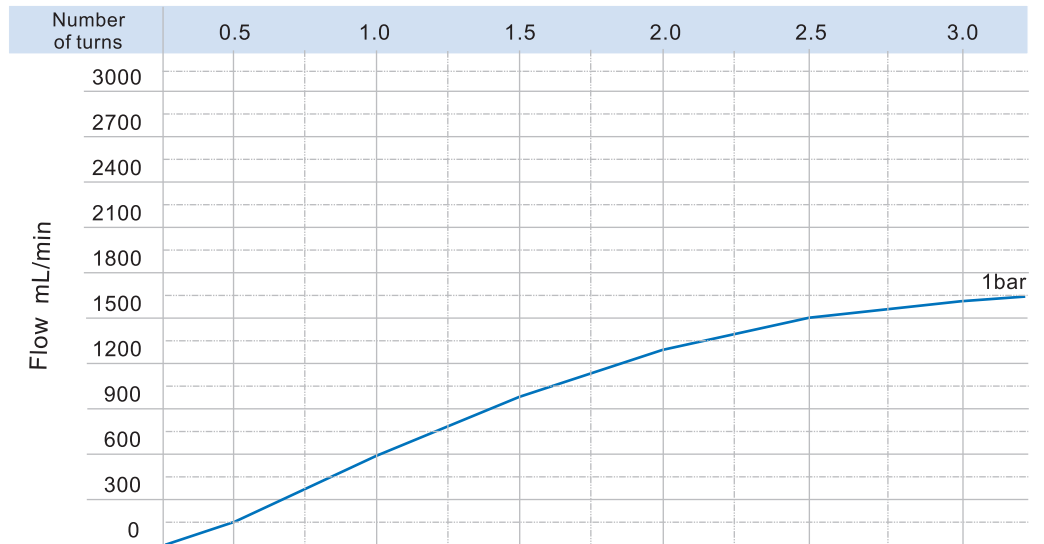
Coding directive

	□	□	□	□	□	□	□	□	□
Model									
Feature	3	1	5						
Common type				763					
Connection									
Flare LINK						04			
Insert Bushing						24			
Caliber									
1/4"									06
3/8"									10
1/2"									12

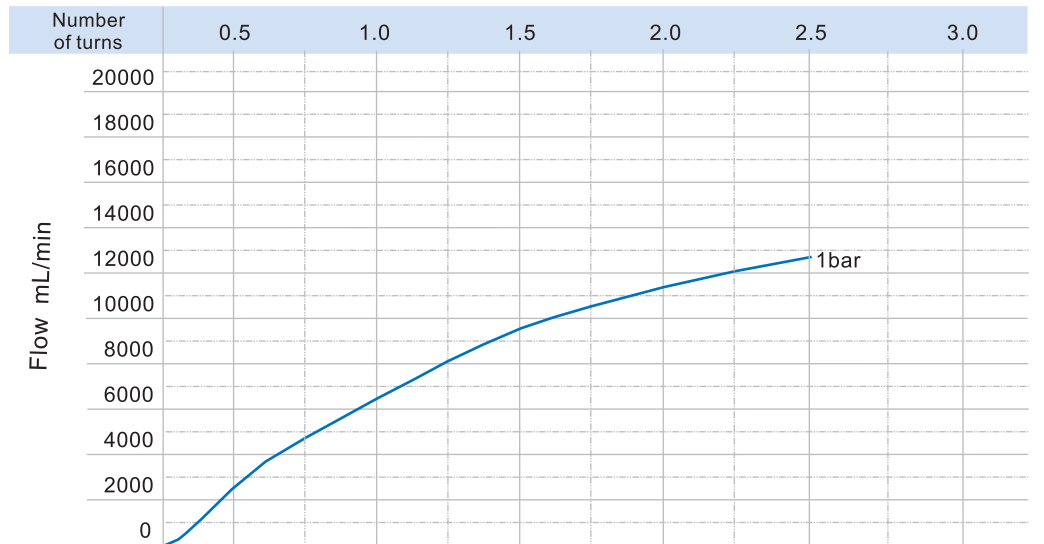
Linear graph of relative flow

The relative flow linear coefficient refers to the flow change as a function of the valve opening stroke.

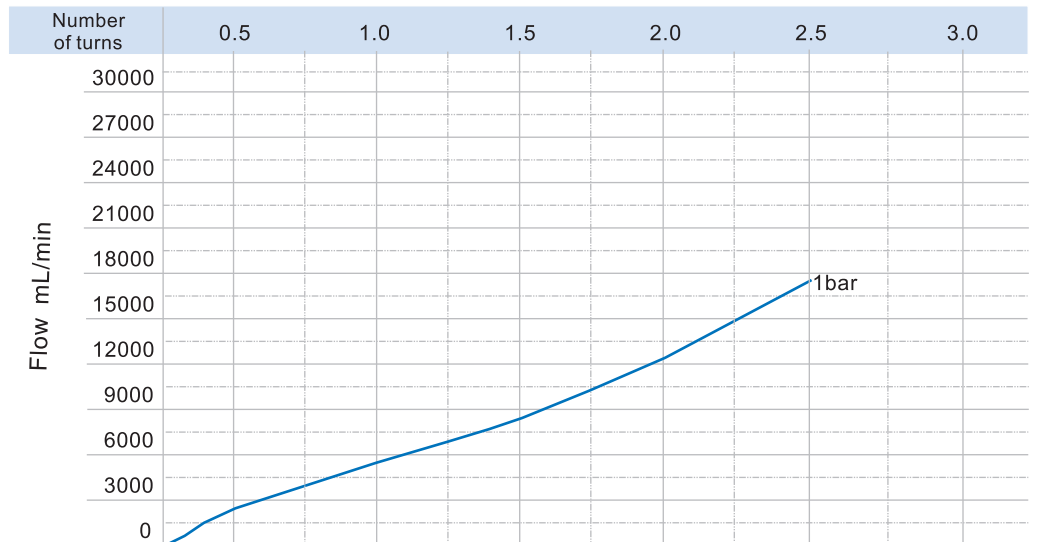
1/4 Type Data
38-25-H4



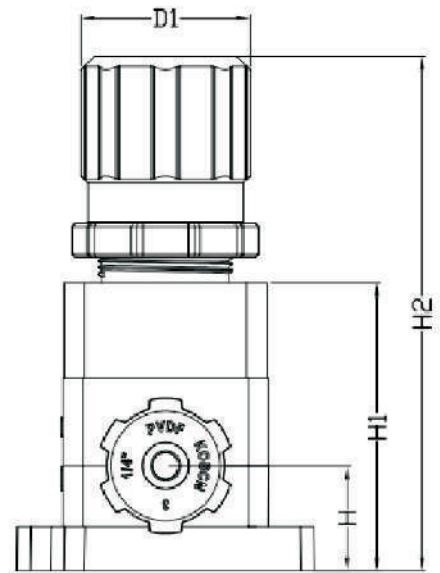
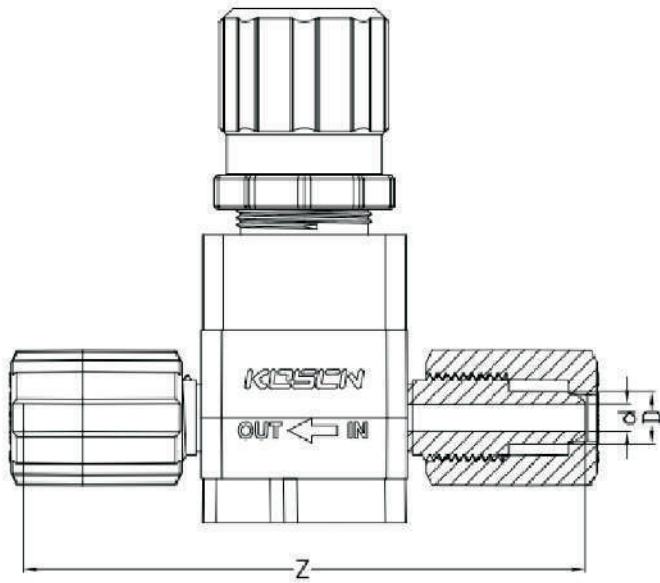
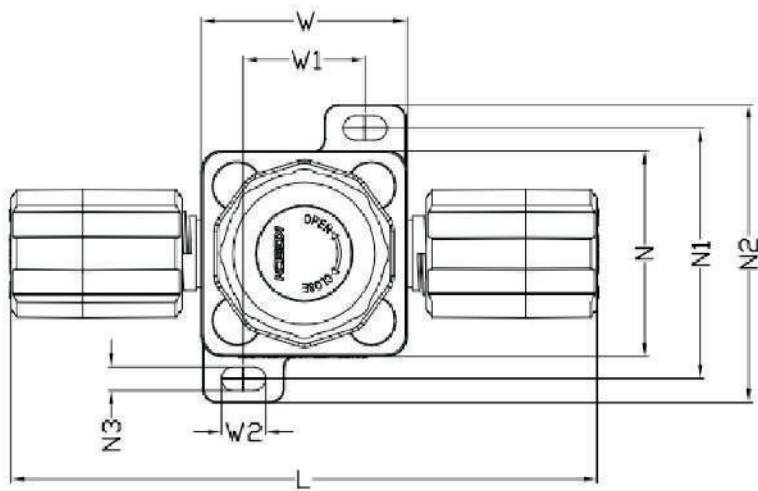
3/8 Type Data
95-70-H6



1/2 Type Data
95-77-H5



DV315 V-Type , Common , SIZE



Unit: mm

Inch	D	d	D1	H	H1	H2	N	N1	N2	N3	W	W1	W2	L	Z
1/4	7,7	4,0	25	15,5	43	80	30	37	44	3,7	30	18,0	6	86,0	81,5
3/8	10,5	6,4	33	21,0	66	115	36	49	61	6,5	37	21,5	10	94,5	89,5
1/2	13,9	9,5	33	21,0	66	115	36	49	61	6,5	37	21,5	10	98,5	92,5

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