

DV, DVP, & DVE Series Needle Valves



DV Series
Inline Mounting



DVP Series
Manifold Mounting

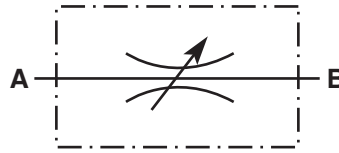


DVE Series
Cartridge Valve

Specifications

- 7000 psi operating Pressure
- 9 Sizes, 1/8" - 2"
- BSPP(F) or NPT(F) Threaded Connections; Manifold Mounting; and Cartridge Type
- Flows to 100 gpm
- Carbon steel housing
- FPM (Fluoroelastomer) O-Rings (standard)
- Color coded spindle for accurate flow control
- Provision for panel mounting
- Temperature Range: -4° to 212°F at full pressure

Hydraulic Symbol



Model Code

DV - 06 - 01 .X / 0 - S

Needle Valve

- DV = Inline Mounting
- DVP = Manifold Mounting
- DVE = Cartridge Valve

Nominal Sizes

DV & DVP		BSPP(F) <i>(DV Only)</i>	NPTF <i>(DV Only)</i>
Nom. Size	Thread Size	Thread Size	Pipe Size
06	= G1/8		1/8"
08	= G1/4		1/4"
10	= G3/8		3/8"
12	= G1/2		1/2"
16	= G3/4		3/4"
20	= G1		1"
25	= G1 1/4		1-1/4"
30	= G1 1/2		1-1/2"
40	= G2		2"

DVE

Nom Size	BSPP(M) Cavity
08	= G1/2
10	= G1/2
12	= G3/4
16	= G1

Housing Material

- 01 = Carbon Steel
- 30 = Stainless Steel

Modification Number

- 0 = BSPP(F) to DIN 3852, Part 2-X
- 5 = NPTF - ANSI B1.20.3
- (omit) = DVP Only

Supplementary Details

- S = Panel Mounting Nut

Model Codes containing selections listed in RED are non-standard items – Minimum quantities will apply – [FLUTEC VALVES](#) for information and availability
Not all combinations are available

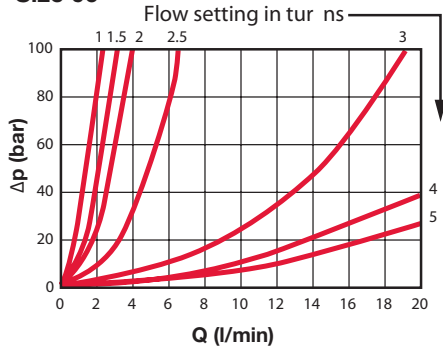
Dimensions & Design are subject to change due to continuous Research & Developments.

Pressure Drop Curves

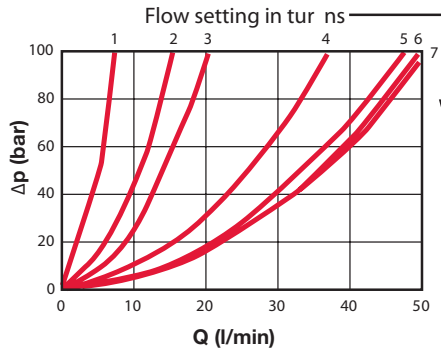
DV, DVP, DRV, DRVP Series

Flow Direction: A to B / Throttled Flow

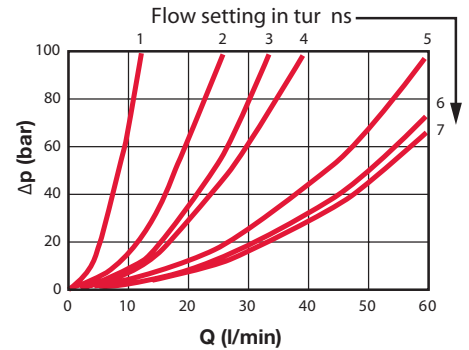
Size 06



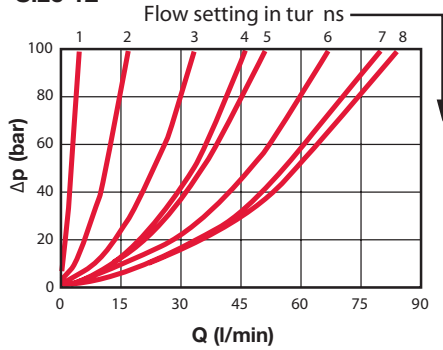
Size 08



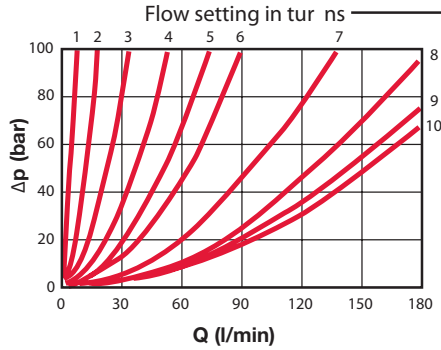
Size 10



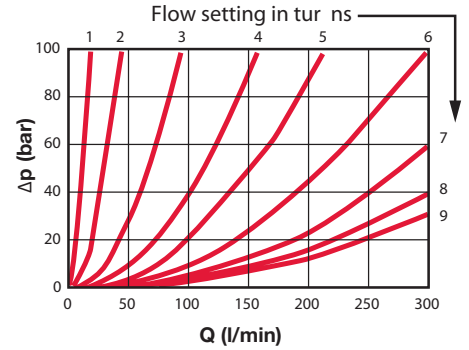
Size 12



Size 16



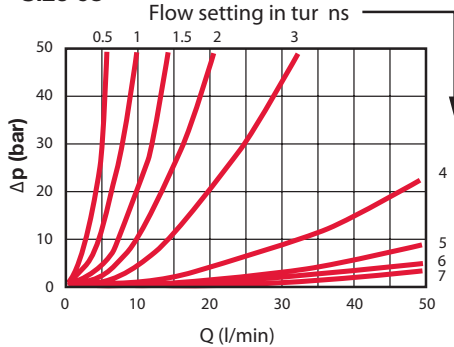
Size 20, 25, 30



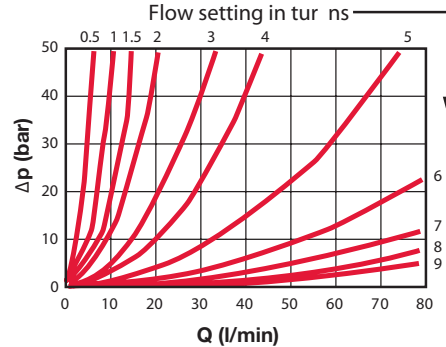
DVE Cartridge Flow Control Valves

Flow Direction: A to B / Throttled Flow

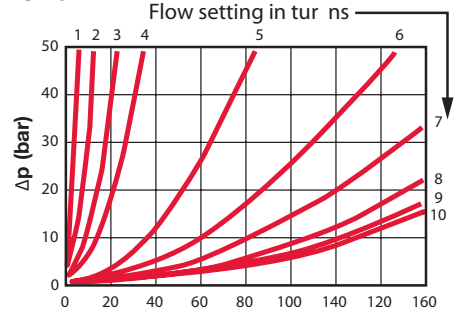
Size 08



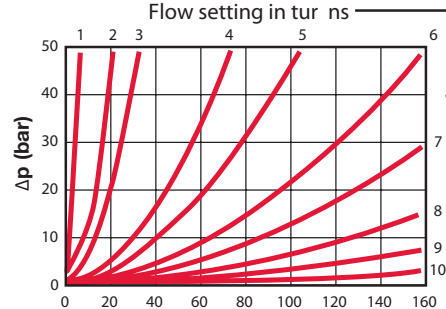
Size 10



Size 12



Size 16

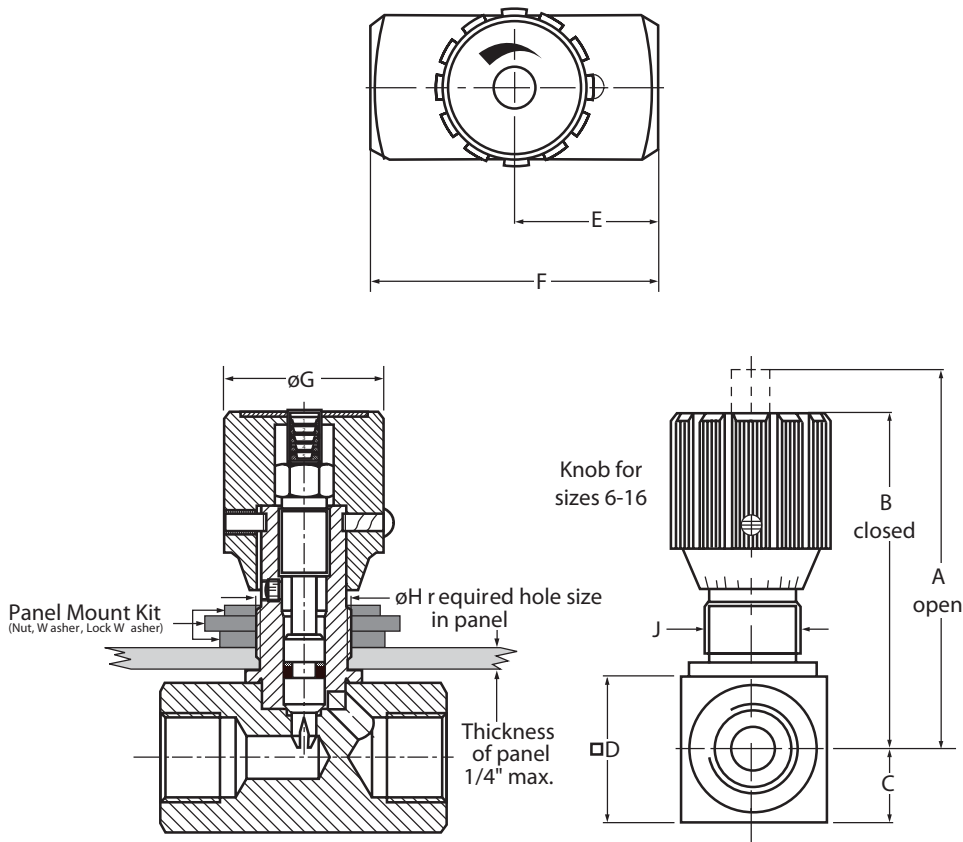


Pressure Drop curves were established by using mineral oil with kinematic viscosity 165 SUS at 112°F / 50°C

Dimensions & Design are subject to change due to continuous Research & Developments.

Dimensions

DV Series Inline Needle Valve



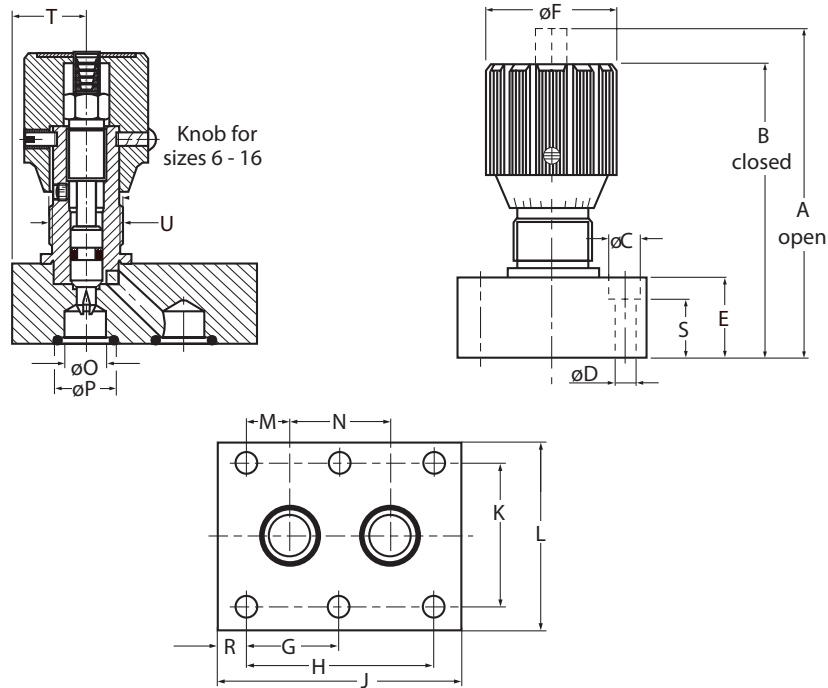
Model Code	Port Size	A	B	C	D	E	F	øG	øH	Weight Kg.
DV-06	1/8"	55	50	8	25	19	38	24	13	0.12
DV-08	1/4"	72	65	12.5	30	24	48	29	19	0.25
DV-10	3/8"	74	67	15	32	29	58	29	19	0.40
DV-12	1/2"	92	82	17.5	38	34	68	38	23	0.70
DV-16	3/4"	105	96	22.5	45	39	78	38	23	1.2
DV-20	1"	145	128	25	50	54	108	49	38	2.1
DV-25	1-1/4"	150	133	30	60	54	108	49	38	2.8
DV-30	1-1/2"	155	138	35	70	54	108	49	38	3.5
DV-40	2"	200	183	40	80	65	130	49	38	5.1

All Dimensions are in mm.

Dimensions & Design are subject to change due to continuous Research & Developments.

Dimensions

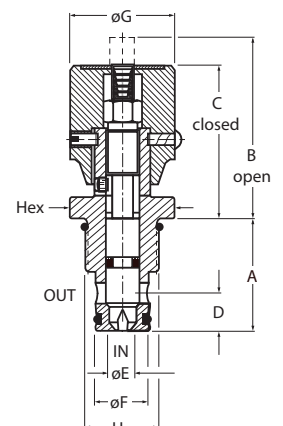
DVP Manifold Mount Needle Valve



Model Code	Nom. Size	A	B	øC	øD	E	øF	G ⁽¹⁾	H	J	K	L	M	N	øO	øP	R	S	T	Wt. Kg.
DVP-06	1/8"	63	58	11	25	16	24	-	19	35	28.5	41.5	1.5	16	5	9.7	8	9	9.5	0.2
DVP-08	1/4"	79	72	11	30	20	29	-	35	47.5	33.5	46	4.5	25.5	7	12.7	6.5	13	12	0.4
DVP-10	3/8"	84	77	11	32	25	29	-	33.5	51	38	51	4.2	25.5	10	15.6	8.5	18	14	0.6
DVP-12	1/2"	99	89	11	38	25	38	-	38	75	44.5	57.5	4.0	30	13	18.6	18.5	18	22.5	1.0
DVP-16	3/4"	113	103	14	45	30	38	38	76	93.5	54	70	11	54	17	24.5	8.5	21	19.5	1.7
DVP-20	1"	165	148	14	56	45	49	47.5	95	111	60	76.5	19.1	57	22	30.5	8	36	31.5	3.6
DVP-25	1 1/4"	165	148	18	60	45	49	60	120.5	143	76	100	20.8	79.5	28.5	37.4	11	34	46	5.5
DVP-30	1 1/2"	170	153	20	70	50	49	71.5	143	171	92	115	23.8	95	35	43.4	15	37	39	7.5
DVP-40	2"	170	153	20	14	50	49	67	133.5	192	111	140	25.5	89	47.5	57.5	16	37	58	8.200

DVE Cartridge Valve

Size	A	B	C	D	øE	øF	øG	H	Hex	Wt. Kg.
DVE-08	26	47	40	12	4.5	14.2	29	1/2-BSPP(M)	27	0.15
DVE-10	30	64	54	12.5	8	15.8	38	1/2-BSPP(M)	27	0.25
DVE-12	40	65	55	13.5	9.5	20.5	38	3/4-BSPP(M)	32	0.50
DVE-16	43.5	65	55	17.5	11	26.9	38	1-BSPP(M)	41	0.70



Note: 1) Only 4 mounting holes are used on sizes 06, 08, 10, and 12
 2) All Dimensions are in mm.

Dimensions & Design are subject to change due to continuous Research & Developments.