



DV(P)/DRV(P)...type (Check) Restrictor Valve



DV(P)/DRV(P)...10J... type

Sizes 6, 8, 10, 12, 16, 20, 25, 30
Max. Working Pressure: 350 bar
Max. Flow: 375 L/min

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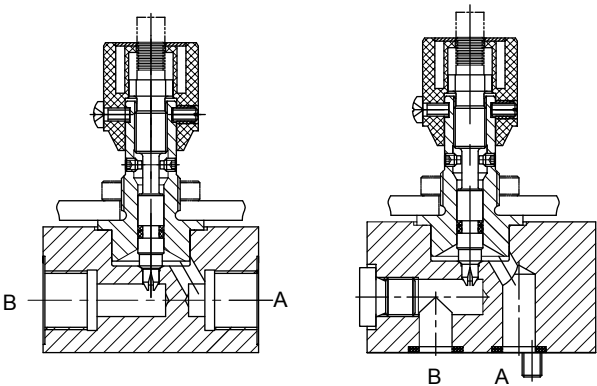
Features

- For direct in-pipe mounting
- For control panel mounting
- Threaded connection
- Good repeatability of set values due to color scale
- Variant, optional:

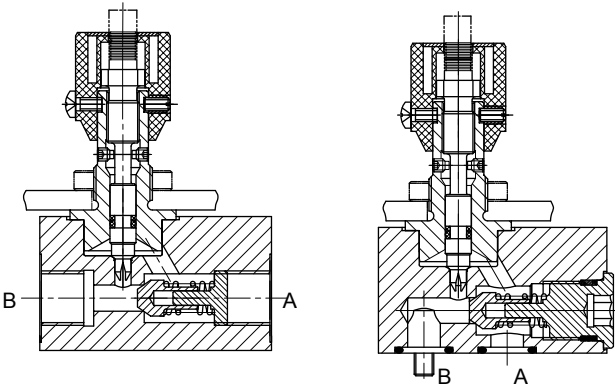
Function and configuration

DV(P)/DRV(P) type valve is a flow control valve to adjust movement speed of actuators simply and exactly. The valve can also be used as shut-off valve when completely shut. The scale of triangle shows how large the flow is (The larger the triangle is and the greater the flow is). Meanwhile, for resetting again, it can be restored to the preset position.

Type DV, DVP



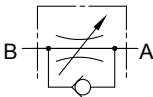
Type DRV, DRVP



Symbols

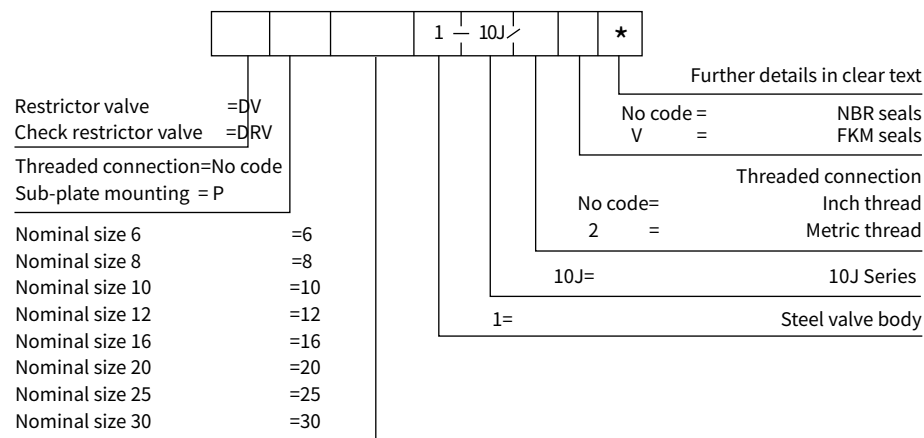


Type DV, DVP



Type DRV, DRVP

04

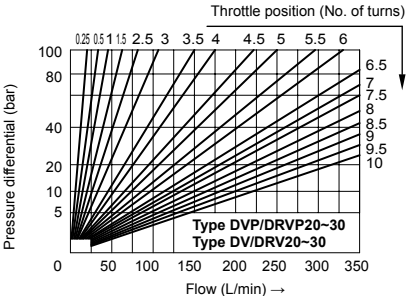
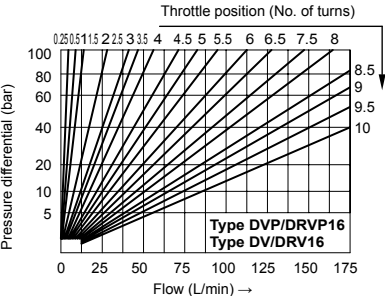
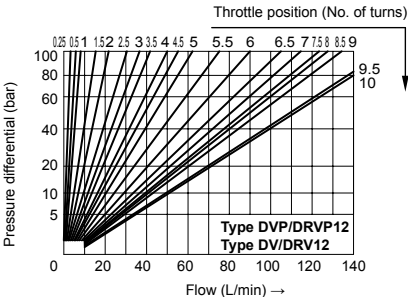
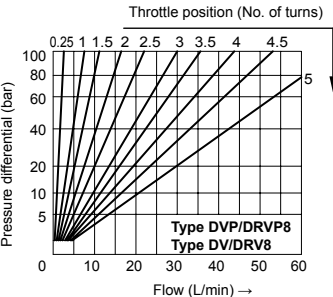
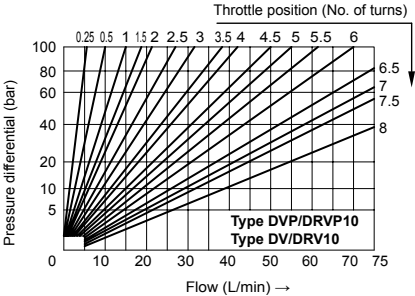
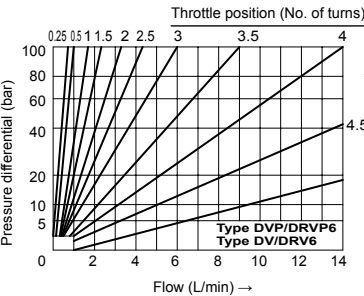


04

Size			6	8	10	12	16	20	25	30
Max.Operating pressure		bar	350							
Check valve cracking pressure		bar	5							
Weight	Type DV	kg	0.12	0.53	0.7	0.9	1.5	2.5	3.3	3.8
	Type DVP		0.25	0.7	1.0	1.3	2.6	4.3	8.3	11.2
	Type DRV		0.13	0.6	0.7	0.9	1.5	3.1	4.1	5.3
	Type DRVP		0.26	0.7	1.0	1.4	2.7	4.7	8.8	12.2
Fluid			Mineral oil; phosphate ester							
Fluid temperature range		°C	-20 to +80							
Viscosity		mm²/s	2.8~500							
Installation position			Optional							
Degree of contamination			Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406							

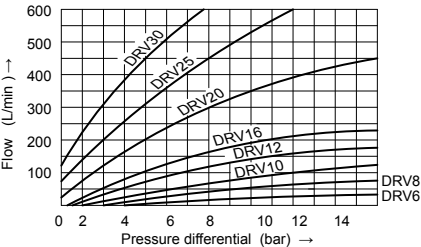
Characteristic curves (Measured at $t=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46)

Flow direction: A to B relation of differential pressure ΔP to flow Q in constant throttle position



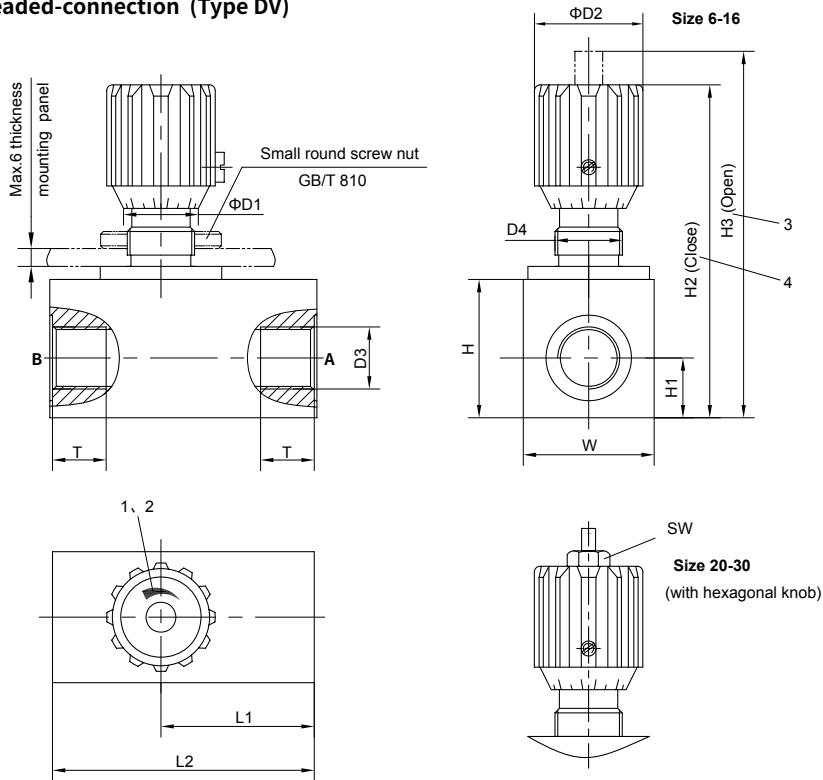
Type DRV

Flow direction : B to A P-Q curve of Free flow via open check valve



Unit dimensions

• Threaded-connection (Type DV)



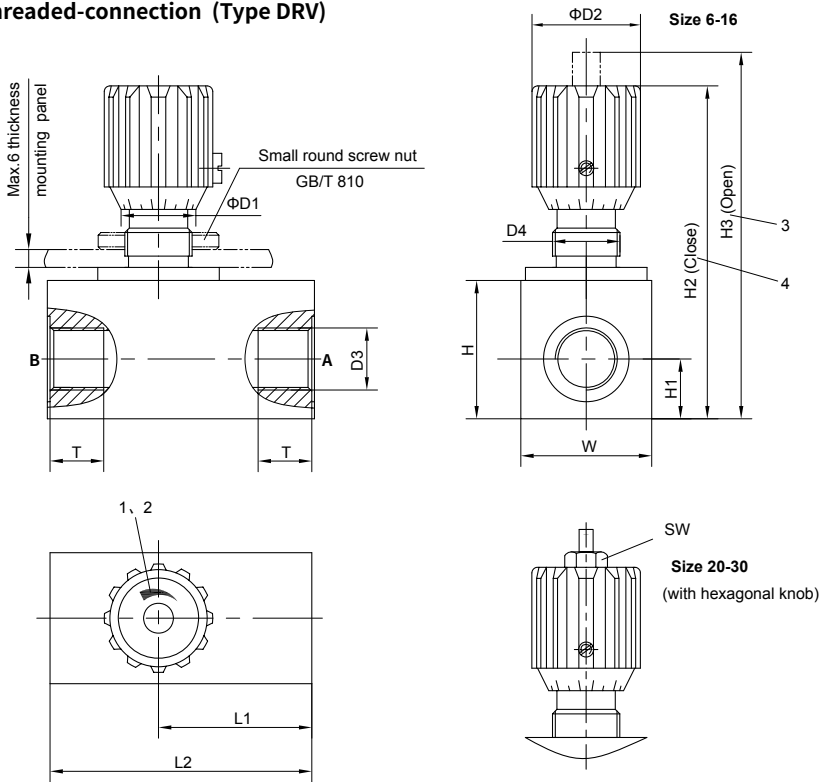
1 Flow increases with anti-clockwise rotation
 2 Flow reduces with clockwise rotation

3 Throttle fully opens
 4 Throttle closes

Size	W×H	ΦD1	ΦD2	D3		D4	H1	H2	H3	L1	L2	SW	T
6	20×20	15	24	G1/8	M10×1	M12×1.25	10	64	68	19.5	39		9
8	34×30.5	20	29	G1/4	M14×1.5	M18×1.5	12.5	83	90	32.5	63.5		12
10	36.5×38.5	20	29	G3/8	M18×1.5	M18×1.5	16	95	103	33	66		12
12	37×38	26	37.5	G1/2	M22×1.5	M22×1.5	17.5	101.5	109.5	44.5	80		14
16	45×52	26	37.5	G3/4	M27×2	M22×1.5	22.5	124	134.5	44.5			16
20	57×56.5	38	50	G1	M33×2	M36×1.5	26	162.5	178.5	49.5	99	19	18
25	63×66	38	50	G1 1/4	M42×2	M36×1.5	30	167	186	54.5	109	19	20
30	73×76	38	50	G1 1/2	M48×2	M36×1.5	35	177.5	196	54.5	109	19	22

Unit dimensions

• Threaded-connection (Type DRV)

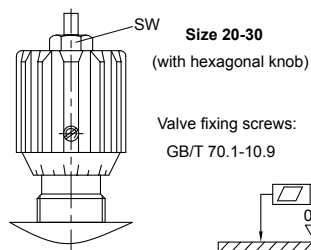
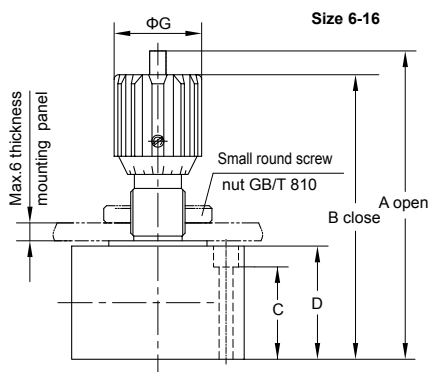
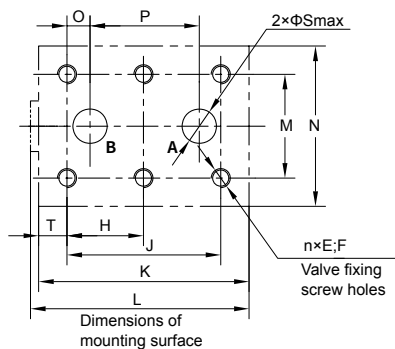
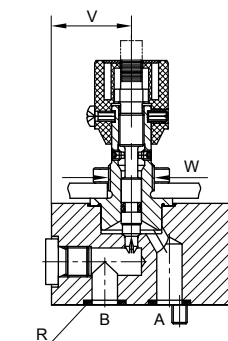


Size	W×H	$\Phi D1$	$\Phi D2$	D3		D4	H1	H2	H3	L1	L2	SW	T
6	20×21	15	24	G1/8	M10×1	M12×1.25	10	65	70	28	46		9
8	34×35	20	29	G1/4	M14×1.5	M18×1.5	15	87	94	38	64.5		12
10	36.5×41	20	29	G3/8	M18×1.5	M18×1.5	16	98	105	45.5	71		12
12	37×42	26	37.5	G1/2	M22×1.5	M22×1.5	17.5	105	113	48	81		14
16	45×54	26	37.5	G3/4	M27×2	M22×1.5	22.5	124	134.5	56.5	89		16
20	57×59	38	50	G1	M33×2	M36×1.5	26	162.5	178.5	80	128	19	18
25	63×70	38	50	G1 1/4	M42×2	M36×1.5	30	170	186.5	98	144	19	20
30	73×80	38	50	G1 1/2	M48×2	M36×1.5	35	180	195.5	105	145	19	22

- 1 Flow increases with anti-clockwise rotation
- 2 Flow reduces with clockwise rotation
- 3 Throttle fully opens
- 4 Throttle closes

Unit dimensions

• Sub-plate mounting (Type DVP)

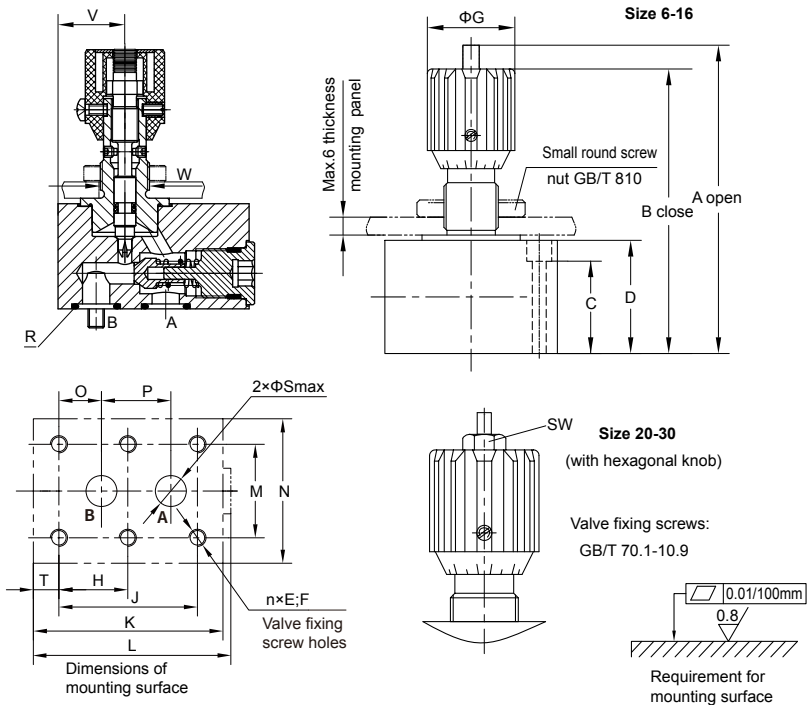


Size	A	B	C	D	n	E	F	G	H	J	K	L	M	N
6	66	61.5	10	18	4	M6	12	24	-	19	38	41	28.5	41.5
8	89.6	82.7	21	30.5	4	M6	12	29	-	35	63.5	67	33.5	46
10	104	96	29.5	40	4	M6	12	29	-	33.5	70	72.3	38	51
12	109	100.5	29	38	4	M6	12	37.5	-	38	80	82	44.5	57.5
16	133	122.3	41	52	6	M8	16	37.5	38	76	104	107	54	70
20	177	161	49	61	6	M8	16	50	47.5	95	127	129	60	76.5
25	185	170	55	68.5	6	M10	20	50	60	120	165	168	76	100
30	195	179	63	79	6	M12	24	50	71.5	143	186	186	92	115

Size	O	P	R	S	T	V	W	SW	Vale fixing screw
6	1.6	16	O-ring 7×1.5	5	9.5	18.5	M12×1.25	-	M6×20
8	4.5	25.5	O-ring 12.3×2.4	8	14.3	31	M18×1.5	-	M6×30
10	4	25.5	O-ring 12.3×2.4	10	17	31.5	M18×1.5	-	M6×40
12	4	30	O-ring 15×2.65	12	21	36.5	M22×1.5	-	M6×40
16	11.4	54	O-ring 19×3	15	14	49	M22×1.5	-	M8×55
20	19	57	O-ring 30×3	20	17	47	M36×1.5	19	M8×60
25	20.6	79.5	O-ring 32×3	25	15	77	M36×1.5	19	M10×70
30	23.8	95	O-ring 34.52×3.53	30	15	85	M36×1.5	19	M12×80

Unit dimensions

• Sub-plate mounting (Type DRVP)



Size	A	B	C	D	n	E	F	G	H	J	K	L	M	N
6	67	62.5	9	19	4	M6	12	24	-	19	41.5	43	28.5	41.5
8	90	83	19	31	4	M6	12	29	-	35	63	67	33.5	46
10	103	95	30	38.5	4	M6	12	29	-	33.5	70	72	38	51
12	112	103.5	29	41	4	M6	12	37.5	-	38	80	84	44.5	57.5
16	132	122	41	51	6	M8	16	37.5	38	76	104	107	54	70
20	176	161	48	60	6	M8	16	50	47.5	95	127	131	60	76.5
25	186	171	55	70	6	M10	20	50	60	120	165	169	76	100
30	195	180	63	79	6	M12	24	50	71.5	143	186	190	92	115

Size	O	P	R	S	T	V	W	SW	Vale fixing screw
6	1.6	16	O-ring7×1.5	5	6.4	10	M12×1.25	-	M6×20
8	4.5	25.5	O-ring12.3×2.4	8	9.3	25.8	M18×1.5	-	M6×30
10	4	25.5	O-ring13.2×2.4	10	10	24.5	M18×1.5	-	M6×40
12	4	30	O-ring15×2.65	12	21	31.5	M22×1.5	-	M6×40
16	11.4	54	O-ring19×3	15	14	41	M22×1.5	-	M8×55
20	19	57	O-ring30×3	20	17	44	M36×1.5	19	M8×60
25	20.6	79.5	O-ring32×3	25	15	62	M36×1.5	19	M10×70
30	23.8	95	O-ring34.52×3.53	30	15	72	M36×1.5	19	M12×80