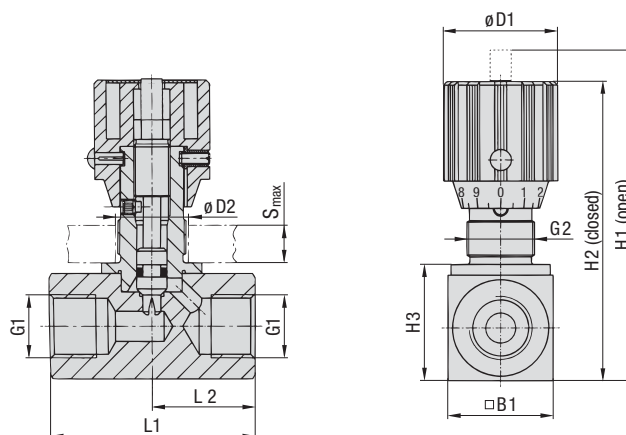


Throttle and Shut-Off Valve - Type DV (In-Line Assembly)



Characteristics

Throttle and shut-off the flow of liquid media in both directions

Features

- Designed for in-line assembly with female BSP, NPT and SAE threaded connections
- Panel mounting nuts available on request
- Graduated turning knob and coded spindle to accurately control flow
- Set-screw located on side of turning knob to lock valve in position

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

- Body and spindle made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available
- Turning knob made of Polyamide (PA)
- O-rings made of NBR (Buna-N®); FPM (Viton®) and EPDM sealed version available

Consult STAUFF for alternative materials.

Technical Data

- Maximum working pressure:
350 bar / 5000 PSI (for all sizes)
- Operating temperature range:
-20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F76 for detailed flow characteristics.

Dimensions

Type + Nominal Size	Thread Options G1	Dimensions (mm/in)										Weight (kg/lbs)
		G2	H1	H2	H3	B1	ØD1	ØD2	S (Max.)	L1	L2	
DV-06	G1/8 BSP 1/8 NPT	PG 7	64	59	18	16	24	13	3	38	19	0,12
			2.52	2.32	.71	.63	.94	.51	.12	1.50	.75	.26
DV-08	G1/4 BSP 1/4 NPT 7/16-20 UNF (1/4" SAE)	PG 11	83,5	77,5	27	25	29	19	7	48	24	0,25
			3.29	3.05	1.06	.98	1.14	.75	.28	1.89	.94	.55
DV-10	G3/8 BSP 3/8 NPT 9/16-18 UNF (3/4" SAE)	PG 11	90	83	32	30	29	19	7	58	29	0,40
			3.54	3.27	1.26	1.18	1.14	.75	.28	2.28	1.14	.88
DV-12	G1/2 BSP 1/2 NPT 3/4-16 UNF (1/2" SAE)	PG 11	109,5	99,5	38	35	38	23	7	68	34	0,60
			4.31	3.92	1.50	1.38	1.50	.91	.28	2.68	1.34	1.32
DV-16	G3/4 BSP 3/4 NPT 1-1/16-12 UN (3/4" SAE)	PG 16	128,5	118,5	48	45	38	23	7	78	39	1,10
			5.06	4.67	1.89	1.77	1.50	.91	.28	3.07	1.54	2.43
DV-20	G1 BSP 1 NPT 1-5/16-12 UN (1" SAE)	PG 16	159	146	55	50	49	38	10	108	54	2,40
			6.26	5.75	2.17	1.97	1.93	1.50	.39	4.25	2.13	5.29
DV-25	G1-1/4 BSP 1-1/4 NPT 1-5/8-12 UN (1-1/4" SAE)	PG 29	169	156	65	60	49	38	10	108	54	2,80
			6.65	6.14	2.56	2.36	1.93	1.50	.39	4.25	2.13	6.17
DV-30	G1-1/2 BSP 1-1/2 NPT 1-7/8-12 UN (1-1/2" SAE)	PG 29	175	166	75	70	49	38	10	108	54	3,50
			6.89	6.54	2.95	2.76	1.93	1.50	.39	4.25	2.13	7.72
DV-40	G2 BSP 2 NPT 2-1/2-12 UN (2" SAE)	PG 29	199	186	95	90	49	38	10	120	60	6,30
			7.83	7.32	3.74	3.54	1.93	1.50	.39	4.72	2.36	13.89

Order Codes

DV	-	25	-	P	-	B	-	PM	-	SS
①		②		③		④		⑤		⑥

① Type

Throttle and Shut-Off Valve (In-Line Assembly) **DV**

② Nominal Size DN

06 08 10 12 16 20 25 30 40

③ Sealing Material

NBR (Buna-N®) (standard option) **P**
FPM (Viton®) **V**
EPDM **E**

④ Connection

Female BSP threads (ISO 228) **B**
Female NPT threads (ANSI B1.20.1) **N**
Female UN/UNF thread (SAE J514) **S**

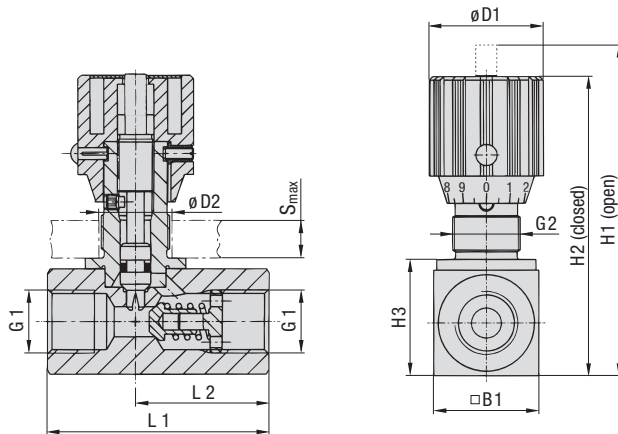
⑤ Panel Mounting Nut

Without panel mounting nut (standard option) **-**
With panel mounting nut **PM**

⑥ Body / Spindle Material

Steel (standard option) **-**
Stainless Steel **SS**

Flow Control Valve ■ Type DRV (In-Line Assembly)



Dimensions

Type + Nominal Size	Thread Options G1	Dimensions (mm/in)										Weight (kg/lbs)
		G2	H1	H2	H3	B1	ØD1	ØD2	S (Max.)	L1	L2	
DRV-06	G1/8 BSP 1/8 NPT	PG 7	64	59	18	16	24	13	3	45	26	0,10
			2.52	2.32	.71	.63	.94	.51	.12	1.77	1.02	.22
DRV-08	G1/4 BSP 1/4 NPT 7/16-20UNF (1/4" SAE)	PG 11	83,5	77,5	27	25	29	19	7	55	34	0,30
			3.29	3.05	1.06	.98	1.14	.75	.28	2.17	1.32	.66
DRV-10	G3/8 BSP 3/8 NPT 9/16-18UNF (3/4" SAE)	PG 11	90	83	32	30	29	19	7	65	41	0,45
			3.54	3.27	1.26	1.18	1.14	.75	.28	2.56	1.61	.99
DRV-12	G1/2 BSP 1/2 NPT 3/4-16UNF (1/2" SAE)	PG 11	109,5	99,5	38	35	38	23	7	73	44	0,70
			4.31	3.92	1.50	1.38	1.50	.91	.28	2.87	1.73	1.54
DRV-16	G3/4 BSP 3/4 NPT 1-1/16-12UN (3/4" SAE)	PG 16	128,5	118,5	48	45	38	23	7	88	57	1,26
			5.06	4.67	1.89	1.77	1.50	.91	.28	3.46	2.24	2.78
DRV-20	G1 BSP 1 NPT 1-5/16-12UN (1" SAE)	PG 16	159	146	55	50	49	38	10	127	77	2,60
			6.26	5.75	2.17	1.97	1.93	1.50	.39	5.00	3.03	5.73
DRV-25	G1-1/4 BSP 1-1/4 NPT 1-5/8-12UN (1-1/4" SAE)	PG 29	169	156	65	60	49	38	10	143	93	3,70
			6.65	6.14	2.56	2.36	1.93	1.50	.39	5.63	3.66	8.16
DRV-30	G1-1/2 BSP 1-1/2 NPT 1-7/8-12UN (1-1/2" SAE)	PG 29	175	166	75	70	49	38	10	143	91	4,76
			6.89	6.54	2.95	2.76	1.93	1.50	.39	5.63	3.58	10.49
DRV-40	G2 BSP 2 NPT 2-1/2-12UN (2" SAE)	PG 29	199	186	95	90	49	38	10	165	111	8,52
			7.83	7.32	3.74	3.54	1.93	1.50	.39	6.50	4.37	18.78

Order Codes

DRV	-	25	-	P	-	B	-	PM	-	SS
①		②		③		④		⑤		⑥

① Type

Flow Control Valve (In-Line Assembly) **DRV**

② Nominal Size DN

06 08 10 12 16 20 25 30 40

③ Sealing Material

NBR (Buna-N®) (standard option) P
FPM (Viton®) V
EPDM E

④ Connection

Female BSP threads (ISO 228) B
Female NPT threads (ANSI B1.20.1) N
Female UN/UNF thread (SAE J514) S

⑤ Panel Mounting Nut

Without panel mounting nut (standard option) -
With panel mounting nut PM

⑥ Body / Spindle Material

Steel (standard option) -
Stainless Steel SS

Characteristics

Throttle and shut-off the flow of liquid media in direction A-B (free flow in reverse direction)

Features

- Designed for in-line assembly with female BSP, NPT and SAE threaded connections
- Panel mounting nuts available on request
- Graduated turning knob and coded spindle to accurately control flow
- Set-screw located on side of turning knob to lock valve in position

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

- Body and spindle made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available
- Turning knob made of Polyamide (PA)
- O-rings made of NBR (Buna-N®); FPM (Viton®) and EPDM sealed version available

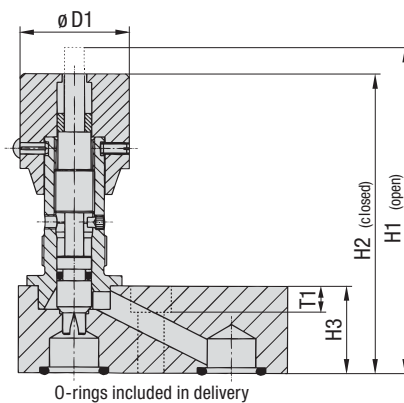
Consult STAUFF for alternative materials.

Technical Data

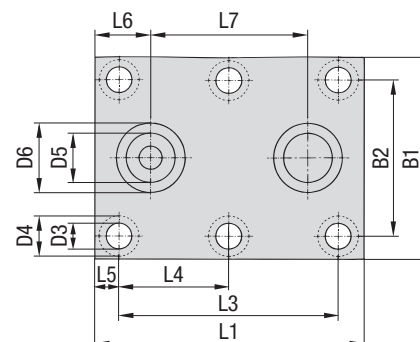
- Opening pressure: 0,5 bar / 7 PSI (4,5 bar / 65 PSI available on request)
- Maximum working pressure: 350 bar / 5000 PSI (for all sizes)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F76 for detailed flow characteristics.

Throttle and Shut-Off Valve ▪ Type DVP (Manifold Assembly)



O-rings included in delivery



Characteristics

Throttle and shut-off the flow of liquid media in both directions

Features

- Designed for manifold mounting
- Panel mounting nuts available on request
- Graduated turning knob and coded spindle to accurately control flow
- Set-screw located on side of turning knob to lock valve in position

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

- Body and spindle made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available
- Turning knob made of Polyamide (PA)
- O-rings made of FPM (Viton®); NBR (Buna-N®) and EPDM sealed version available

Consult STAUFF for alternative materials.

Technical Data

- Maximum working pressure: 350 bar / 5000 PSI (for all sizes)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F76 for detailed flow characteristics.

Recommended Bolts / Tightening Torques

- Socket cap screws according to ISO 4762 or ANSI / ASME B18.3 recommended for installation (not included in delivery):

DVP-06	M6 x 20 - 8.8 (9 N·m) 1/4-20 UNC x 3/4 - Gr. 5 (10 ft·lb)
DVP-08	M6 x 25 - 8.8 (9 N·m) 1/4-20 UNC x 1 - Gr. 5 (10 ft·lb)
DVP-10	M6 x 30 - 10.9 (12 N·m) 1/4-20 UNC x 1-1/4 - Gr. 8 (12 ft·lb)
DVP-12	M6 x 30 - 12.9 (15 N·m) 1/4-20 UNC x 1-1/4 - Gr. 10 (14 ft·lb)
DVP-16	M8 x 35 - 10.9 (30 N·m) 5/16-18 UNC x 1-1/2 - Gr. 8 (24 ft·lb)
DVP-20	M8 x 50 - 12.9 (35 N·m) 5/16-18 UNC x 2 - Gr. 10 (29 ft·lb)
DVP-25	M10 x 50 - 12.9 (70 N·m) 3/8-16 UNC x 2 - Gr. 10 (58 ft·lb)
DVP-30	M12 x 60 - 10.9 (100 N·m) 7/16-14 UNC x 2-1/2 - Gr. 8 (63 ft·lb)

Dimensions

For panel mounting, please see dimensions G2, D2 and S (Max.) on page F68.

Type + Nom. Size	Dimensions (mm/in)																							Weight (kg/lbs)
	ØD1	ØD3	ØD4	ØD5	ØD6	L1	L3	L4	L5	L6	L7	B1	B2	T1	H1	H2	H3	O-ring						
DVP-06	24	6,5	10,5	5	9,8	35	19		8	9,5	16	41,5	28,5	6,8	64	59	16	6,35 x 1,78	0,20					
	.94	.26	.41	.20	.39	1.38	.75		.31	.37	.63	1.63	1.12	.27	2.52	2.32	.63		.44					
DVP-08	29	6,5	10,5	7	12,4	47,5	35		6,5	11	25,5	46	33,5	6,8	79	72	20	8,5 x 2	0,40					
	1.14	.26	.41	.28	.49	1.87	1.38		.26	.43	1.00	1.81	1.32	.27	3.11	2.83	.79		.88					
DVP-10	29	6,5	10,5	10	15,7	51	33,5		8,5	12,7	25,5	51	38	6,8	84	78	25	12 x 2	0,60					
	1.14	.26	.41	.39	.62	2.01	1.32		.33	.50	1.00	2.01	1.50	.27	3.31	3.07	.98		1.32					
DVP-12	38	6,5	10,5	13	18,7	75	38		18,5	22,5	30	57,5	44,5	6,8	100	89	25	15 x 2	1,00					
	1.50	.26	.41	.51	.74	2.95	1.50		.73	.89	1.18	2.26	1.75	.27	3.94	3.50	.98		2.20					
DVP-16	38	8,5	13,5	17	23,9	93,5	76	38	8,5	19,5	54	70	54	9	113	103	30	19 x 2,5	1,50					
	1.50	.33	.53	.67	.94	3.68	2.99	1.50	.33	.77	2.13	2.76	2.13	.35	4.45	4.06	1.18		3.31					
DVP-20	49	8,5	13,5	22	30,5	111	95	47,5	8	27	57	76,5	60	9	154	142	45	25 x 3	3,40					
	1.93	.33	.53	.87	1.20	4.37	3.74	1.87	.31	1.06	2.24	3.01	2.36	.35	6.06	5.59	1.77		7.50					
DVP-25	49	10,5	16,5	28,5	37,5	143	120	60	11	32	79,5	100	76	11	154	142	45	32 x 3	5,15					
	1.93	.41	.65	1.12	1.48	5.63	4.72	2.36	.43	1.26	3.13	3.94	2.99	.43	6.06	5.59	1.77		11.35					
DVP-30	49	13	19	35	43,5	171	143	71,5	15	39	95	115	92	13	159	147	50	38 x 3	7,50					
	1.93	.51	.75	1.38	1.71	6.73	5.63	2.81	.59	1.54	3.74	4.53	3.62	.51	6.26	5.79	1.97		16.53					

Order Codes

DVP

-

25

-

P

-

PM

-

SS

①

②

③

④

⑤

① Type

Throttle and Shut-Off Valve (Manifold Assembly) DVP

② Nominal Size DN

06

08

10

12

16

20

25

30

③ Sealing Material

FPM (Viton®) (standard option) V

NBR (Buna-N®) P

EPDM E

④ Panel Mounting Nut

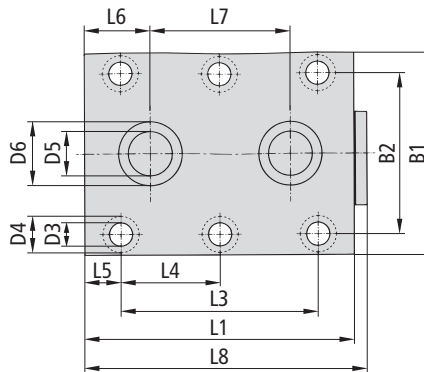
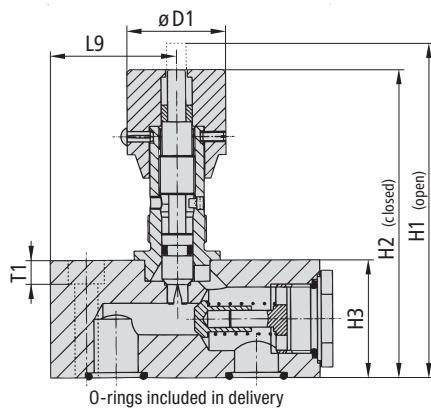
Without panel mounting nut (standard option)

With panel mounting nut PM

⑤ Body / Spindle Material

Steel (standard option)

Stainless Steel SS

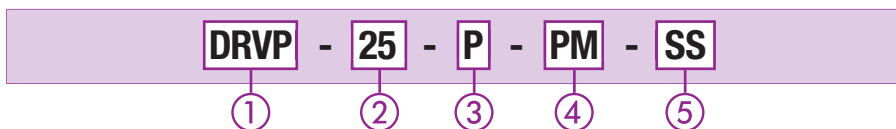


Dimensions

For panel mounting, please see dimensions G2, D2 and S (Max.) on page F69.

Type + Nom. Size	Dimensions ^(mm/in)																				Weight (kg/lbs)
	ØD1	ØD3	ØD4	ØD5	ØD6	L1	L3	L4	L5	L6	L7	L8	L9	B1	B2	T1	H1	H2	H3	O-ring	
DRVP-06	24	6,5	10,5	5	9,8	41,5	19		6,4	8	16	47	13,5	41,5	28,5	6,8	64	59	16	6,35 x 1,78	0,26
	.94	.26	.41	.20	.39	1.63	.75		.25	.31	.63	1.85	.53	1.63	1.12	.27	2.52	2.32	.63		.57
DRVP-08	29	6,5	10,5	7	12,4	63,5	35		14,2	18,7	25,5	70	31	46	33,5	6,8	79	72	20	8,5 x 2	0,50
	1.14	.26	.41	.28	.49	2.50	1.38		.56	.74	1.00	2.76	1.22	1.81	1.32	.27	3.11	2.83	.79		1.10
DRVP-10	29	6,5	10,5	10	15,7	70	33,5		18	22,0	25,5	75	29,5	51	38	6,8	84	78	25	12 x 2	0,80
	1.14	.26	.41	.39	.62	2.76	1.32		.71	.87	1.00	2.95	1.16	2.01	1.50	.27	3.31	3.07	.98		1.76
DRVP-12	38	6,5	10,5	13	18,7	80	38		21	25,0	30	86	36,5	57,5	44,5	6,8	107	96	32	15 x 2	1,20
	1.50	.26	.41	.51	.74	3.15	1.50		.83	.98	1.18	3.39	1.44	2.26	1.75	.27	4.21	3.78	1.26		2.65
DRVP-16	38	8,5	13,5	17	23,9	104	76	38	14	25,4	54	110	49	70	54	9	128	118	45	19 x 2,5	2,50
	1.50	.33	.53	.67	.94	4.09	2.99	1.50	.55	1.00	2.13	4.33	1.93	2.76	2.13	.35	5.04	4.65	1.77		5.51
DRVP-20	49	8,5	13,5	22	30,5	127	95	47,5	16	35	57	133	49	76,5	60	9	159	147	50	25 x 3	3,90
	1.93	.33	.53	.87	1.20	5.00	3.74	1.87	.63	1.38	2.24	5.24	1.93	3.01	2.36	.35	6.26	5.79	1.97		8.60
DRVP-25	49	10,5	16,5	28,5	37,5	165	120	60	15	35,6	79,5	171	77	100	76	11	164	152	55	32 x 3	6,70
	1.93	.41	.65	1.12	1.48	6.50	4.72	2.36	.59	1.40	3.13	6.73	3.03	3.94	2.99	.43	6.46	5.98	2.17		14.77
DRVP-30	49	13	19	35	43,5	186	143	71,5	15	38,8	95	192	85	115	92	13	184	172	75	38 x 3	11,00
	1.93	.51	.75	1.38	1.71	7.32	5.63	2.81	.59	1.53	3.74	7.56	3.35	4.53	3.62	.51	7.24	6.77	2.95		24.25
DRVP-40	49	13	19	47,5	57,5	192	133,5	67,5	16	41,5	89	197	64	140	111	13	209	197	100	52 x 3	18,80
	1.93	.51	.75	1.87	2.26	7.56	5.25	2.66	.63	1.63	3.50	7.76	2.52	5.51	4.37	.51	8.23	7.76	3.94		41.45

Order Codes



① Type

Flow Control Valve (Manifold Assembly)	DRVP
--	------

② Nominal Size DN

06	08	10	12	16	20	25	30	40
----	----	----	----	----	----	----	----	----

③ Sealing Material

FPM (Viton®) (standard option)	V
NBR (Buna-N®)	P
EPDM	E

④ Panel Mounting Nut

Without panel mounting nut (standard option)	-
With panel mounting nut	PM

⑤ **Body / Spindle Material**

Steel (standard option)	-
Stainless Steel	SS

Characteristics

Throttle and shut-off the flow of liquid media in direction A-B (free flow in reverse direction)

Features

- Designed for manifold mounting
- Panel mounting nuts available on request
- Graduated turning knob and coded spindle to accurately control flow
- Set-screw located on side of turning knob to lock valve in position

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

- Body and spindle made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available
- Turning knob made of Polyamide (PA)
- O-rings made of FPM (Viton®); NBR (Buna-N®) and EPDM sealed version available

Consult STAUFF for alternative materials.

Technical Data

- Opening pressure: 0,5 bar / 7 PSI
(4,5 bar / 65 PSI available on request)
- Maximum working pressure:
350 bar / 5000 PSI (for all sizes)
- Operating temperature range:
-20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F76 for detailed flow characteristics.

Recommended Bolts / Tightening Torques

- Socket cap screws according to ISO 4762 or ANSI / ASME B18.3 recommended for installation (not included in delivery):

DRVP-06 M6 x 20 - 8.8 (9 N·m)
1/4-20 UNC x 3/4 - Gr. 5 (10 ft·lb)

DRVP-08 M6 x 25 - 8.8 (9 N·m)
1/4-20 UNC x 1 - Gr 5 (10 ft·lb)

DRVP-10 M6 x 30 - 10.9 (12 N·m)
1/4-20 UNC x 1-1/4 - Gr. 8 (12 ft·lb)

DRVP-12 M6 x 35 - 12.9 (15 N·m)
1/4-20 UNC x 1-1/2 - Gr. 10 (14 ft·lb)

DRVP-16 M8 x 50 - 10.9 (30 N·m)
5/16-18 UNC x 2 - Gr. 8 (24 ft·lb)

DRVP-20 M8 x 55 - 12.9 (35 N·m)
5/16-18 UNC x 2-1/4 - Gr. 10 (29 ft·lb)

DRVP-25 M10 x 60 - 12.9 (70 N·m)
3/8-16 UNC x 2-1/2 - Gr. 10 (58 ft·lb)

DRVP-30 M12 x 85 - 10.9 (100 N·m)
7/16-14 x 3-1/2 - Gr. 8 (63 ft·lb)

DRVP-40 M12 x 100 - 12.9 (130 N·m)
7/16-14 x 4 - Gr. 10 (70 ft·lb)

Throttle and Shut-Off Valve ▪ Type DVE (Cartridge Assembly)



Characteristics

Throttle and shut-off the flow of liquid media in both directions

Features

- Designed for direct installation into hydraulic manifolds with male BSP threaded stud
- Graduated turning knob and coded spindle to accurately control flow
- Set-screw located on side of turning knob to lock valve in position

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

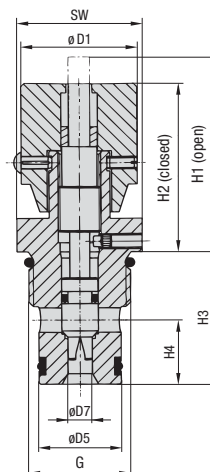
- Body and spindle made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available
- Turning knob made of Polyamide (PA)
- O-rings made of NBR (Buna-N®); FPM (Viton®) and EPDM sealed version available

Consult STAUFF for alternative materials.

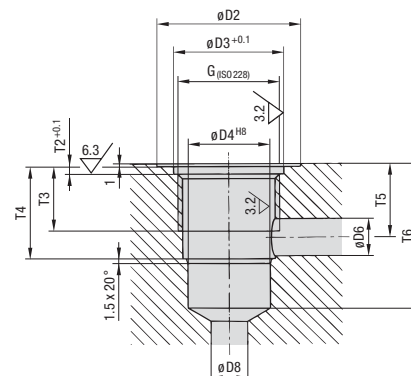
Technical Data

- Maximum working pressure: 350 bar / 5000 PSI (for all sizes)
- Operating temperature range: -20°C ... +100°C / -4°F ... +212°F

Please see page F76 for detailed flow characteristics.



Installation Details



Dimensions

Type + Nom. Size	Thread Options G	Dimensions (mm/in)																		Weight (kg/lbs)
		H1	H2	H3	H4	ØD1	ØD2	ØD3	ØD4	ØD5	ØD6	ØD7	ØD8	SW	T2	T3	T4	T5	T6	
DVE-08	G1/2 BSP	47	41	28	12,0	29	32	24	14	14	5	5	5	27	1,9	14	17,5	15	29	0,15
		1.85	1.61	1.08	.47	1.14	1.26	.94	.55	.55	.20	.20	.20	1.06	.07	.55	.69	.59	1.14	.33
DVE-10	G1/2 BSP	64	54	31	14,5	38	32	24	16	16	8	6	8	27	1,9	14	20,5	17	33	0,25
		2.52	2.13	1.21	.57	1.50	1.26	.94	.63	.63	.31	.24	.31	1.06	.07	.55	.81	.67	1.30	.55
DVE-12	G3/4 BSP	65	55	40	17,5	38	37	30	19	19	10	8	10	32	1,9	21	29,0	24	43	0,50
		2.56	2.17	1.57	.69	1.50	1.46	1.18	.75	.75	.39	.31	.39	1.26	.07	.83	1.14	.94	1.69	1.10
DVE-16	G1 BSP	65	55	44	21,1	38	47	36	27	27	12	8	12	41	1,9	21	30,0	24	47	0,70
		2.56	2.17	1.71	.83	1.50	1.85	1.42	1.06	1.06	.47	.31	.47	1.61	.07	.83	1.18	.94	1.85	1.54

Order Codes

DVE - 16 - P - B - SS

① ② ③ ④ ⑤

① Type

Throttle and Shut-Off Valve (Cartridge Assembly) **DVE**

② Nominal Size DN

08 10 12 16

③ Sealing Material

NBR (Buna-N®) (standard option) **P**
 FPM (Viton®) **V**
 EPDM **E**

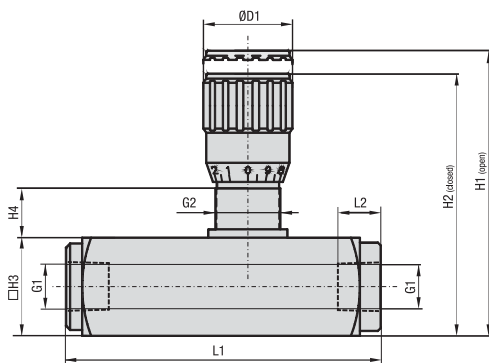
④ Connection

Male BSP thread (ISO 228) **B**

⑤ Body / Spindle Material

Steel (standard option) **-**
 Stainless Steel **SS**

Pressure Compensated Flow Control Valve ■ Type PNDRV (In-Line Assembly)



Dimensions

Type + Nominal Size	Thread Options G1	Dimensions (mm/in)		L1	L2	H1	H2	H3	H4	G2	Weight (kg/lbs)
PNDRV-08	G1/4 BSP			94	12,5	88,5	81,5	30	15	M20 x 1	0,58
	1/4 NPT										
	7/16-20 UNF (1/4" SAE)			3.70	.49	3.48	3.21	1.18	.59		.77
PNDRV-10	G3/8 BSP			110,5	13	103	94,5	35	17	M25 x 1,5	0,94
	3/8 NPT										
	9/16-18 UNF (3/4" SAE)			4.35	.51	4.06	3.72	1.38	.67		2.09
PNDRV-12	G1/2 BSP			137	15,5	122	112	45	18	M30 x 1,5*	1,83
	1/2 NPT										
	3/4-16 UNF (1/2" SAE)			5.39	.61	4.80	4.41	1.77	.71		4.07
PNDRV-16	3/4 NPT			163	17	150	138	55	24	M40 x 1,5	3,35
	G3/4 BSP										
	1-1/16-12 UN (3/4" SAE)			6.42	.67	5.91	5.43	2.17	.94		7.44

* M25 x 1,5 for version with female UN/UNF thread (SAE J514)

Order Codes

PNDRV	-	12	-	P	-	B	-	PM
①		②		③		④		⑤

① Type

Pressure Compensated Flow Control Valve (In-Line Assembly) **PNDRV**

② Nominal Size DN

08 **10** **12** **16**

③ Sealing Material

NBR (Buna-N®) (standard option) **P**
FPM (Viton®) **V**
EPDM **E**

④ Connection

Female BSP thread (ISO 228) **B**
Female NPT thread (ANSI B1.20.1) **N**
Female UN/UNF thread (SAE J514) **S**

⑤ Panel Mounting Nut

Without panel mounting nut (standard option) **-**
With panel mounting nut **PM**

Characteristics

Throttle and shut-off the flow of liquid media in direction A-B (free flow in reverse direction) with pressure compensating feature via built-in compensating piston

Features

- Designed for in-line assembly with female BSP, NPT and SAE threaded connections
- Panel mounting nuts available on request
- Graduated turning knob to accurately control flow
- Set-screw located on side of turning knob to lock valve in position

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

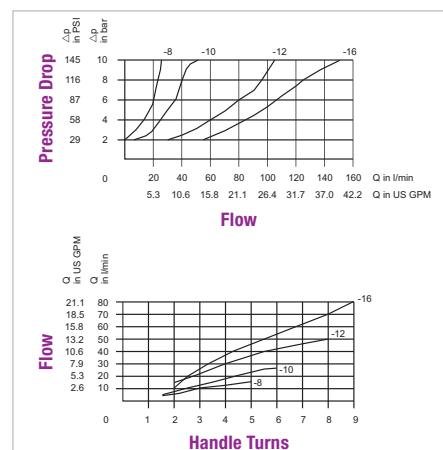
- Body made of Steel, phosphated
- Internal components made of Stainless Steel
- Turning knob made of Aluminium
- O-rings made of NBR (Buna-N®)
- Anti-extrusion ring made of PTFE

Consult STAUFF for alternative materials.

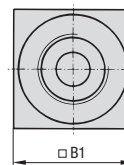
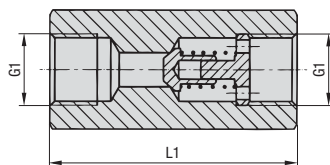
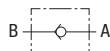
Technical Data

- Maximum working pressure: 210 bar / 3000 PSI (for all sizes)
- Operating temperature range: -20°C ... +120°C / -4°F ... +248°F
- Minimum filtration grade: 25 µm (absolute) to ensure the correct functioning, reduce wear and tear and increase the service life of the valve

Flow Characteristics



Heavy-Duty Check Valve ■ Type RV (In-Line Assembly)



Characteristics

Allows a single-directional flow only

Features

- Designed for in-line assembly with female BSP, NPT and SAE threaded connections
- Metal-to-metal seat

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

Materials

- Body made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available

Technical Data

- Opening pressure: 0,5 bar / 7 PSI (4,5 bar / 65 PSI available on request)
- Maximum working pressure: 500 bar / 7250 PSI (depending on size)
- Operating temperature range: -20°C ... +100°C / -4°F ... +212°F

Please see page F76 for detailed flow characteristics.

Dimensions

Type + Nominal Size	Thread Options G1	Dimensions (mm/in)		Working Pressure PN (bar/PSI)	Weight (kg/lbs)
		L1	B1		
RV-06	G1/8 BSP 1/8 NPT	45	16	500	0,10
		1.77	.63	7250	.22
RV-08	G1/4 BSP 1/4 NPT 7/16-20 UNF (1/4" SAE)	55	25	500	0,20
		2.17	.98	7250	.44
RV-10	G3/8 BSP 3/8 NPT 9/16-18 UNF (3/4" SAE)	65	30	500	0,40
		2.56	1.18	7250	.88
RV-12	G1/2 BSP 1/2 NPT 3/4-16 UNF (1/2" SAE)	73	35	500	0,70
		2.87	1.38	7250	1.54
RV-16	G3/4 BSP 3/4 NPT 1-1/16-12 UN (3/4" SAE)	88	45	500	1,20
		3.46	1.77	7250	2.64
RV-20	G1 BSP 1 NPT 1-5/16-12 UN (1" SAE)	127	50	500	2,00
		5.00	1.97	7250	4.40
RV-25	G1-1/4 BSP 1-1/4 NPT 1-5/8-12 UN (1-1/4" SAE)	143	60	400	3,30
		5.63	2.36	5800	7.26
RV-30	G1-1/2 BSP 1-1/2 NPT 1-7/8-12 UN (1-1/2" SAE)	143	70	315	4,20
		5.63	2.75	4500	9.24
RV-40	G2 BSP 2 NPT 2-1/2-12 UN (2" SAE)	165	90	315	7,20
		6.49	3.54	4500	15.84

Order Codes

RV	-	25	-	07	-	B	-	SS
①		②		③		④		⑤

① Type

Heavy-Duty Check Valve (In-Line Assembly) **RV**

② Nominal Size DN

06 08 10 12 16 20 25 30 40

③ Opening Pressure

0,5 bar / 7 PSI (standard option) **07**
4,5 bar / 65 PSI **65**

Consult STAUFF for alternative opening pressures.

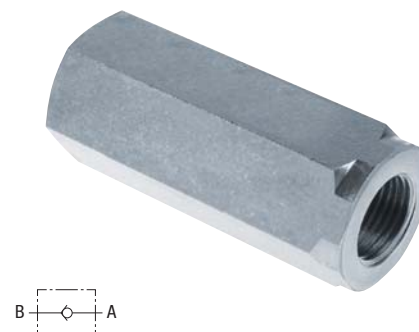
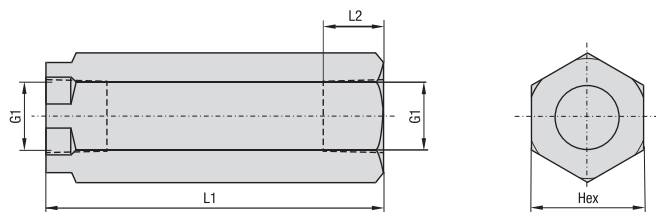
④ Connection

Female BSP thread (ISO 228) **B**
Female NPT thread (ANSI B1.20.1) **N**
Female UN/UNF thread (SAE J514) **S**

⑤ Body Material

Steel (standard option) **-**
Stainless Steel **SS**

Medium-Duty Check Valve ▪ Type RVM (In-Line Assembly)



Dimensions

Type + Nominal Size	Thread Options G1	Dimensions (mm/in)			Working Pressure PN (bar/PSI)	Weight (kg/lbs)
		L1	L2	Hex		
RVM-08	G1/4 BSP 1/4 NPT	63,0	12,5	22	400	0,17
		2.48	.49	.87	5800	.38
RVM-10	G3/8 BSP 3/8 NPT	69,0	12,5	27	400	0,26
		2.72	.49	1.06	5800	.58
RVM-12	G1/2 BSP 1/2 NPT	80,5	15,5	32	400	0,42
		3.17	.61	1.26	5800	.93
RVM-16	G3/4 BSP 3/4 NPT	99,5	17,0	36	400	0,61
		3.92	.67	1.42	5800	1.36

Characteristics

Allows a single-directional flow only

Features

- Designed for in-line assembly with female BSP and NPT threaded connections
- Ideal for medium-duty applications
- Metal-to-metal seat

Media Compatibility

- Suitable for hydraulic fluids

Please consult STAUFF before using with other media.

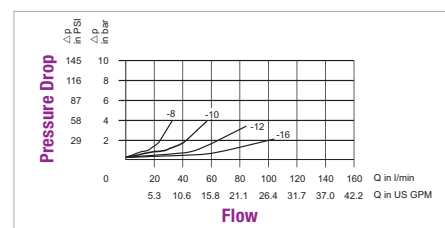
Materials

- Body made of Steel, zinc/nickel-coated (free of hexavalent chromium CrVI)
- Ball made of Stainless Steel

Technical Data

- Opening pressure: 0,5 bar / 7 PSI
- Field replaceable springs with a pressure setting of 2 bar / 30 PSI or 4 bar / 60 PSI
- Maximum working pressure: 400 bar / 5800 PSI (for all sizes)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Flow Characteristics



Order Codes

RVM - 12 - 07 - B			
①	②	③	④

① Type

Medium-Duty Check Valve (In-Line Assembly) **RVM**

② Nominal Size DN

08 **10** **12** **16**

③ Opening Pressure

0,5 bar / 7 PSI (standard option)	07
2 bar / 30 PSI	30
4 bar / 60 PSI	60

Consult STAUFF for alternative opening pressures.

④ Connection

Female BSP thread (ISO 228)	B
Female NPT thread (ANSI B1.20.1)	N

Accessories / Spare Parts

Field replaceable springs

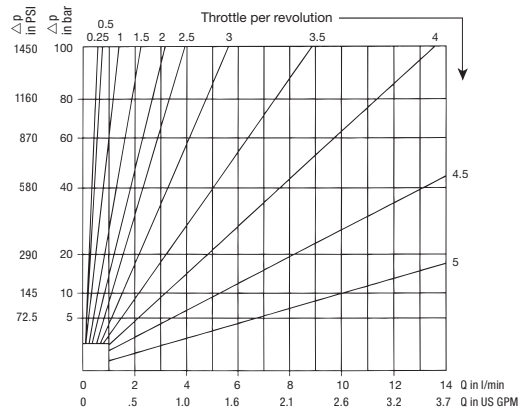
▪ for RVM-08 (setting of 2 bar / 30 PSI):	RVM-08-30
▪ for RVM-08 (setting of 4 bar / 60 PSI):	RVM-08-60
▪ for RVM-10 (setting of 2 bar / 30 PSI):	RVM-10-30
▪ for RVM-10 (setting of 4 bar / 60 PSI):	RVM-10-60
▪ for RVM-12 (setting of 2 bar / 30 PSI):	RVM-12-30
▪ for RVM-12 (setting of 4 bar / 60 PSI):	RVM-12-60
▪ for RVM-16 (setting of 2 bar / 30 PSI):	RVM-16-30
▪ for RVM-16 (setting of 4 bar / 60 PSI):	RVM-16-60

Consult STAUFF for alternative pressure settings.

Nominal Flow Rate vs. Pressure Drop

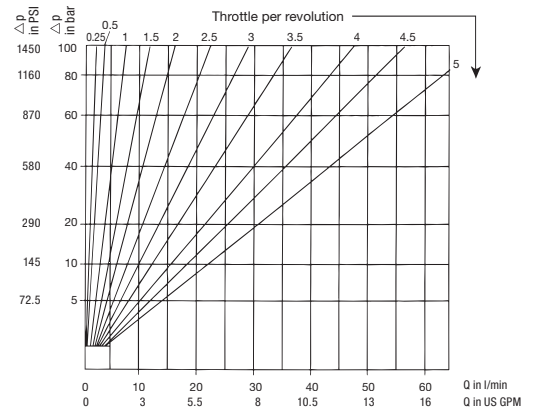
DV
DRV
DVP
DRVP
DVE

DN 06



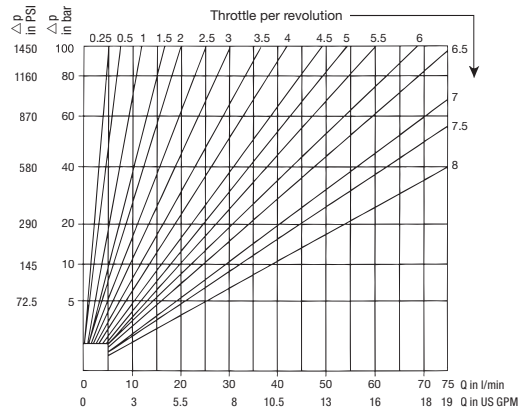
DV
DRV
DVP
DRVP
DVE

DN 08



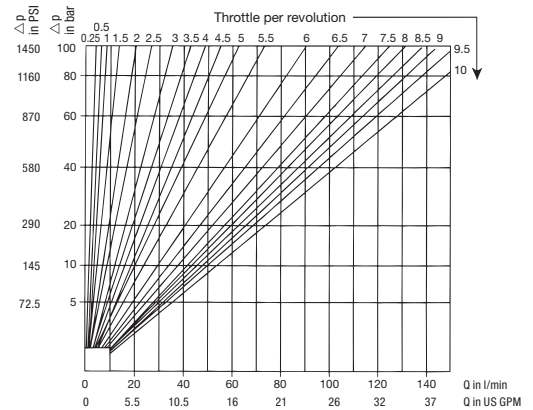
DV
DRV
DVP
DRVP
DVE

DN 10



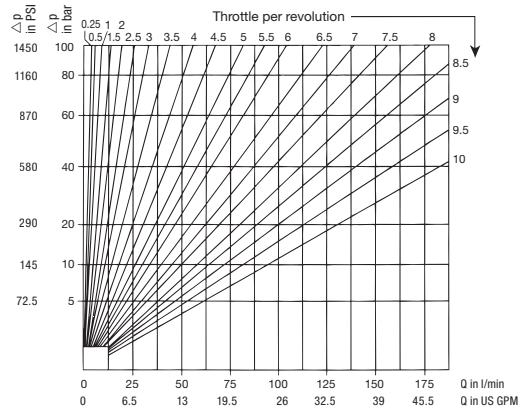
DV
DRV
DVP
DRVP
DVE

DN 12



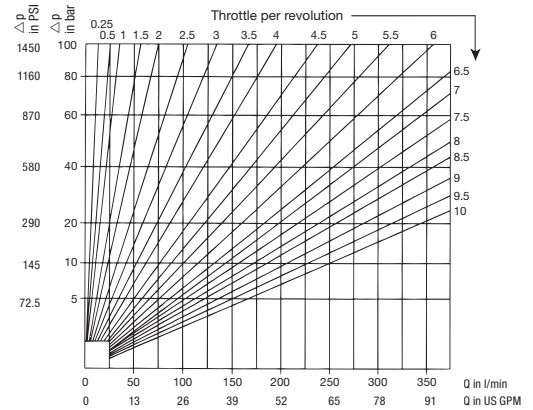
DV
DRV
DVP
DRVP
DVE

DN 16



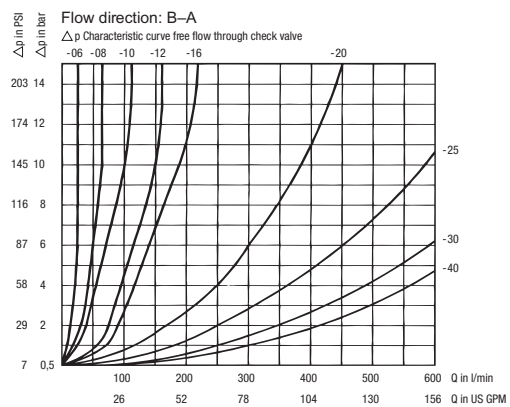
DV
DRV
DVP
DRVP
DVE

DN 20-40



DRV
DRVP
RV

DN 06-40



Please note: The flow characteristics mentioned on this page are valid for mineral oils with a density of 0,86 kg/dm³ and the kinematic viscosity of 35 mm²/s (35 cSt). The characteristics have been determined in accordance to ISO 3968.