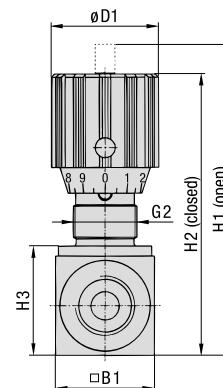
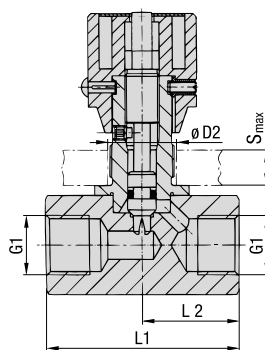


### Throttle and Shut-Off Valve - Type DV (In-Line Assembly)



#### 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

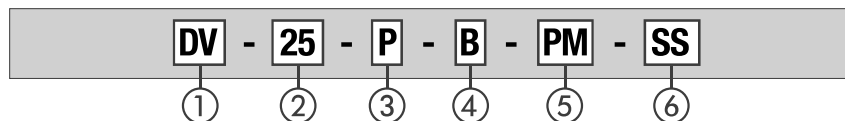
- Maximum working pressure: 350 bar / 5000 PSI (for all sizes)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F88 for detailed flow characteristics.

#### Dimensions

Type + Nominal Size	Thread Options G1	Dimensions (mm/in)	Dimensions (mm/in)										Weight (kg/lbs)
			G2	H1	H2	H3	B1	ØD1	ØD2	S <sub>(Max)</sub>	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 7/16-20UNF (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 9/16-18UNF (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 3/4-16UNF (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 1-1/16-12UN (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 1-5/16-12UN (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 1-5/8-12UN (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 1-7/8-12UN (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 2-1/2-12UN (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



##### 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

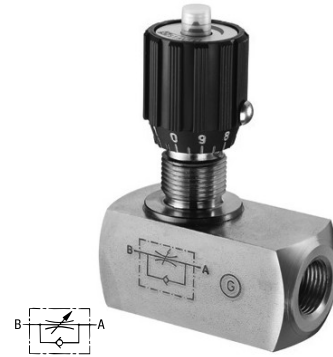
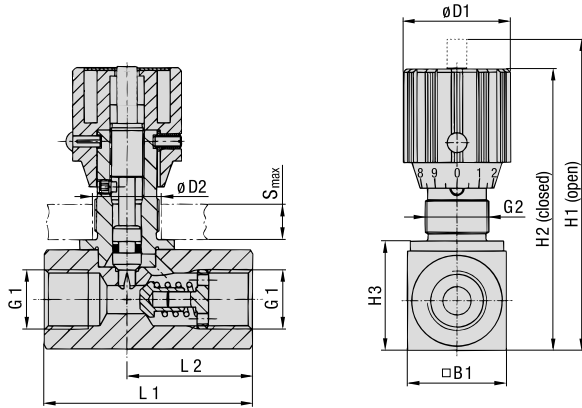
Female BSP threads (ISO 228) **B**  
 Female NPT threads (ANSI B1.20.1) **N**  
 Female UN/UNF thread (SAE J514) **S**

##### 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 7/16-20 UNF (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 9/16-18 UNF (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 3/4-16 UNF (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 1-1/16-12 UN (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 1-5/16-12 UN (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 1-5/8-12 UN (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 1-7/8-12 UN (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 2-1/2-12 UN (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

**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**

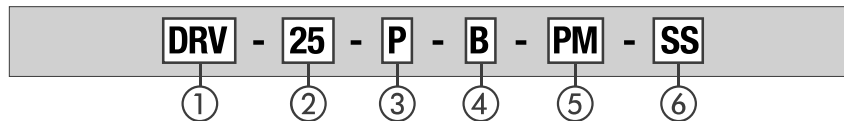
- Body and spindle made of Steel (1.0715), zinc/iron-plated (Fe/Zn Fe Co 8 C) and free of hexavalent chromium CrVI (standard option); Stainless Steel (1.4571) version available
- Turning knob made of Polyamide (PA)
- O-rings made of NBR (Buna-N®); FPM (Viton®) and EPDM sealed version available

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 F88 for detailed flow characteristics.

**Order Codes**

**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**

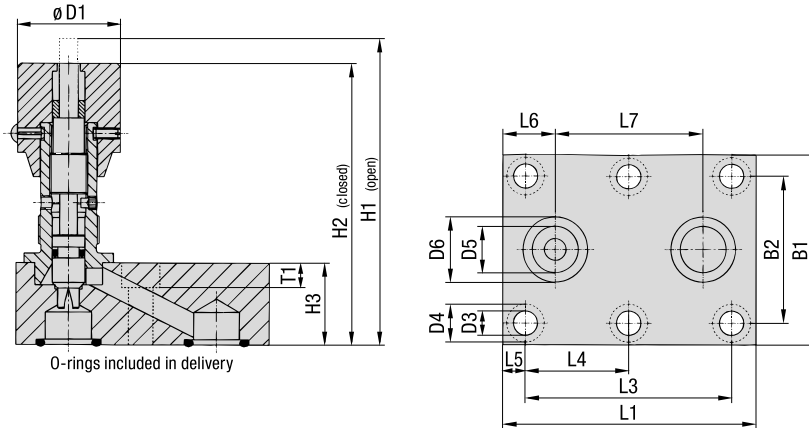
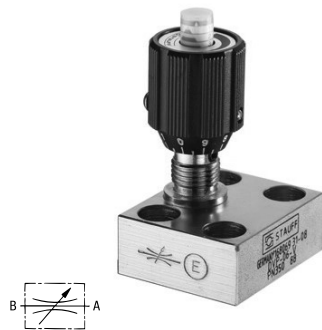
**⑤ Panel Mounting Nut**

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

**⑥ Body / Spindle Material**

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

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



#### 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 F88 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):

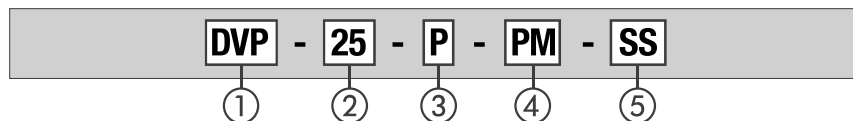
<b>DVP-06</b>	M6 x 20 - 8.8 (9 N-m) 1/4-20 UNC x 3/4 - Gr. 5 (10 ft-lb)
<b>DVP-08</b>	M6 x 25 - 8.8 (9 N-m) 1/4-20 UNC x 1 - Gr. 5 (10 ft-lb)
<b>DVP-10</b>	M6 x 30 - 10.9 (12 N-m) 1/4-20 UNC x 1-1/4 - Gr. 8 (12 ft-lb)
<b>DVP-12</b>	M6 x 30 - 12.9 (15 N-m) 1/4-20 UNC x 1-1/4 - Gr. 10 (14 ft-lb)
<b>DVP-16</b>	M8 x 35 - 10.9 (30 N-m) 5/16-18 UNC x 1-1/2 - Gr. 8 (24 ft-lb)
<b>DVP-20</b>	M8 x 50 - 12.9 (35 N-m) 5/16-18 UNC x 2 - Gr. 10 (29 ft-lb)
<b>DVP-25</b>	M10 x 50 - 12.9 (70 N-m) 3/8-16 UNC x 2 - Gr. 10 (58 ft-lb)
<b>DVP-30</b>	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 F80.

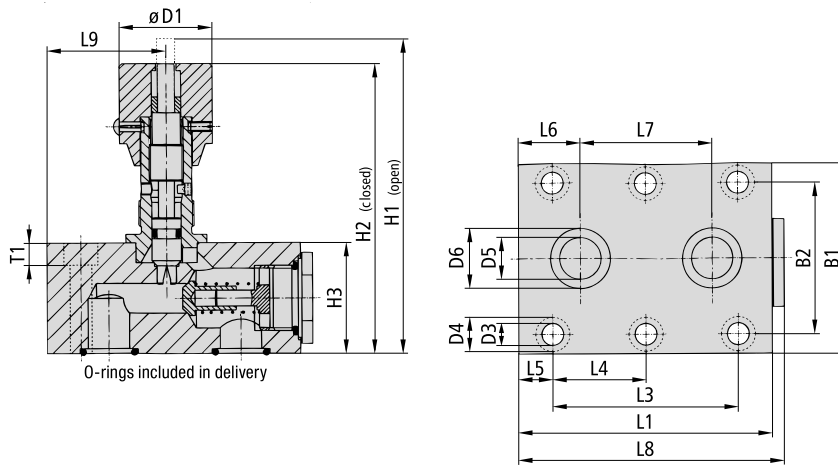
Type + Nom. Size	Dimensions (mm/in)																	O-ring	Weight (kg/lbs)
	ØD1	ØD3	ØD4	ØD5	ØD6	L1	L3	L4	L5	L6	L7	B1	B2	T1	H1	H2	H3		
DVP-06	24	6,5	10,5	5	9,8	35	19		8	9,5	16	41,5	28,5	6,8	64	59	16	6,35 x 1,78	0,20
	.94	.26	.41	.20	.39	1.38	.75		.31	.37	.63	1.63	1.12	.27	2.52	2.32	.63		.44
DVP-08	29	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



① Type Throttle and Shut-Off Valve (Manifold Assembly) <b>DVP</b>	④ Panel Mounting Nut Without panel mounting nut (standard option) <b>-</b> With panel mounting nut <b>PM</b>
② Nominal Size DN <b>06 08 10 12 16 20 25 30</b>	⑤ Body / Spindle Material Steel (standard option) <b>-</b> Stainless Steel <b>SS</b>
③ Sealing Material FPM (Viton®) (standard option) <b>V</b> NBR (Buna-N®) <b>P</b> EPDM <b>E</b>	

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



#### Dimensions

For panel mounting, please see dimensions G2, D2 and S (Max.) on page F81.

Type + Nom. Size	Dimensions (mm/in)																ØD1	ØD3	ØD4	ØD5	ØD6	L1	L3	L4	L5	L6	L7	L8	L9	B1	B2	T1	H1	H2	H3	O-ring	Weight (kg/lbs)
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																

#### 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

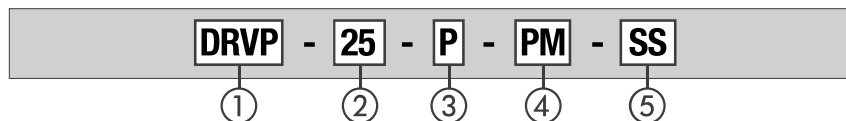
Please see page F88 for detailed flow characteristics.

#### Recommended Bolts / Tightening Torques

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

<b>DRVP-06</b>	M6 x 20 - 8.8 (9 N-m) 1/4-20 UNC x 3/4 - Gr. 5 (10 ft-lb)
<b>DRVP-08</b>	M6 x 25 - 8.8 (9 N-m) 1/4-20 UNC x 1 - Gr. 5 (10 ft-lb)
<b>DRVP-10</b>	M6 x 30 - 10.9 (12 N-m) 1/4-20 UNC x 1-1/4 - Gr. 8 (12 ft-lb)
<b>DRVP-12</b>	M6 x 35 - 12.9 (15 N-m) 1/4-20 UNC x 1-1/2 - Gr. 10 (14 ft-lb)
<b>DRVP-16</b>	M8 x 50 - 10.9 (30 N-m) 5/16-18 UNC x 2 - Gr. 8 (24 ft-lb)
<b>DRVP-20</b>	M8 x 55 - 12.9 (35 N-m) 5/16-18 UNC x 2-1/4 - Gr. 10 (29 ft-lb)
<b>DRVP-25</b>	M10 x 60 - 12.9 (70 N-m) 3/8-16 UNC x 2-1/2 - Gr. 10 (58 ft-lb)
<b>DRVP-30</b>	M12 x 85 - 10.9 (100 N-m) 7/16-14 x 3-1/2 - Gr. 8 (63 ft-lb)
<b>DRVP-40</b>	M12 x 100 - 12.9 (130 N-m) 7/16-14 x 4 - Gr. 10 (70 ft-lb)

#### 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**

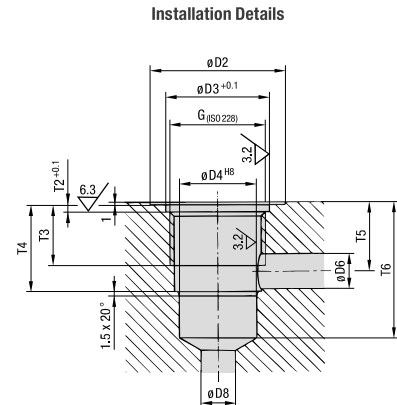
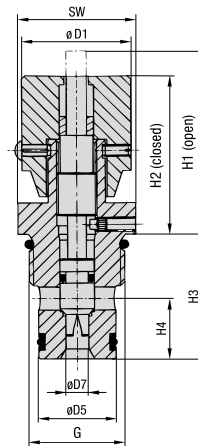
#### ④ Panel Mounting Nut

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

#### ⑤ Body / Spindle Material

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

### 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

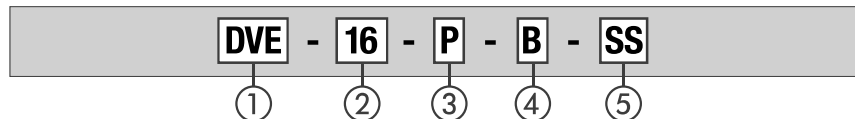
- Maximum working pressure: 350 bar / 5000 PSI (for all sizes)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F88 for detailed flow characteristics.

#### 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



##### 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**

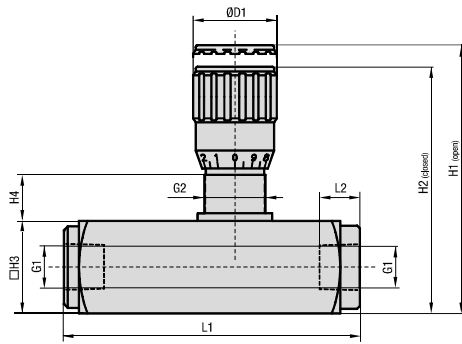
##### ④ Connection

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)							Weight (kg/lbs)
		L1	L2	H1	H2	H3	H4	G2	
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 (3/8" 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)

### 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

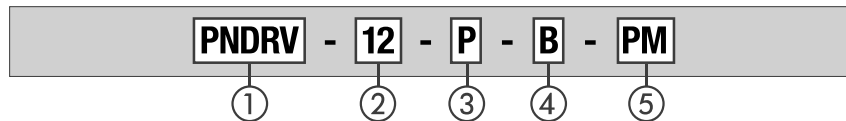
- Body made of Steel, phosphated
- Internal components made of Stainless Steel
- Turning knob made of Aluminium
- O-rings made of NBR (Buna-N®)
- Anti-extrusion ring made of PTFE

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

### Order Codes



#### 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**

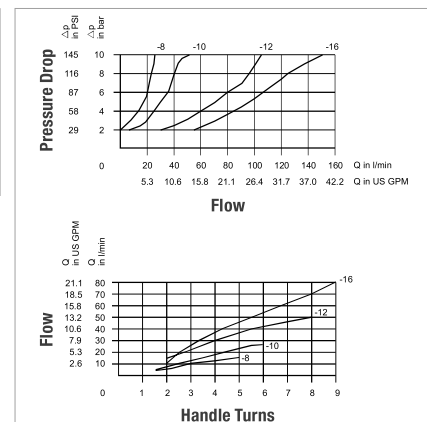
#### ④ Connection

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

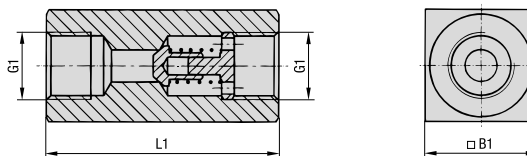
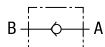
#### ⑤ Panel Mounting Nut

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

### 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

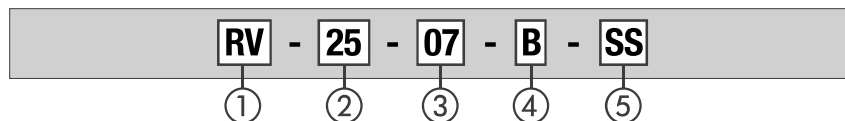
- Opening pressure: 0,5 bar / 7 PSI (4,5 bar / 65 PSI available on request)
- Maximum working pressure: 500 bar / 7250 PSI (depending on size)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Please see page F88 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	45	16	500	0,10
	1/8 NPT	1.77	.63	7250	.22
RV-08	G1/4 BSP	55	25	500	0,20
	1/4 NPT 7/16-20 UNF (1/4" SAE)	2.17	.98	7250	.44
RV-10	G3/8 BSP	65	30	500	0,40
	3/8 NPT 9/16-18 UNF (3/8" SAE)	2.56	1.18	7250	.88
RV-12	G1/2 BSP	73	35	500	0,70
	1/2 NPT 3/4-16 UNF (1/2" SAE)	2.87	1.38	7250	1.54
RV-16	G3/4 BSP	88	45	500	1,20
	3/4 NPT 1-1/16-12 UN (3/4" SAE)	3.46	1.77	7250	2.64
RV-20	G1 BSP	127	50	500	2,00
	1 NPT 1-5/16-12 UN (1" SAE)	5.00	1.97	7250	4.40
RV-25	G1-1/4 BSP	143	60	400	3,30
	1-1/4 NPT 1-5/8-12 UN (1-1/4" SAE)	5.63	2.36	5800	7.26
RV-30	G1-1/2 BSP	143	70	315	4,20
	1-1/2 NPT 1-7/8-12 UN (1-1/2" SAE)	5.63	2.75	4500	9.24
RV-40	G2 BSP	165	90	315	7,20
	2 NPT 2-1/2-12 UN (2" SAE)	6.49	3.54	4500	15.84

#### Order Codes



##### 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.

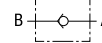
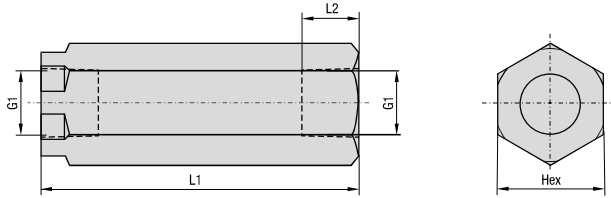
##### ④ Connection

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.

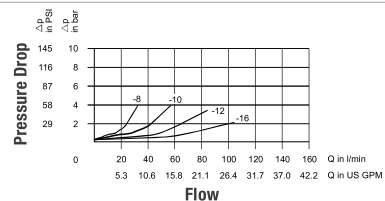
#### Materials

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

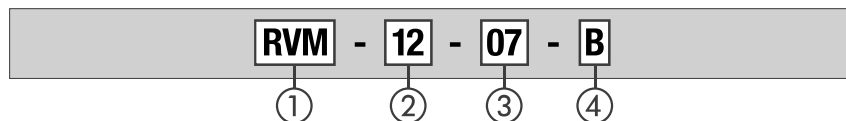
#### Technical Data

- 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



#### 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

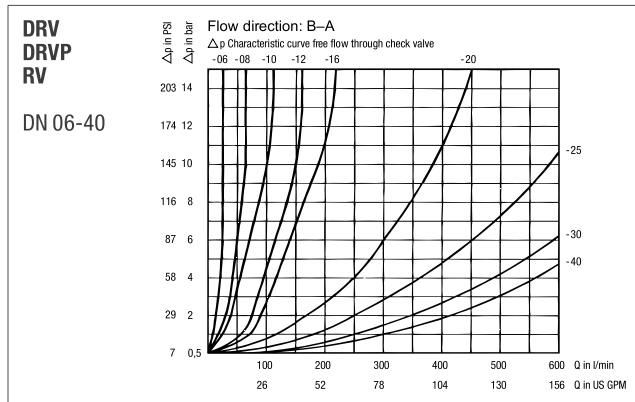
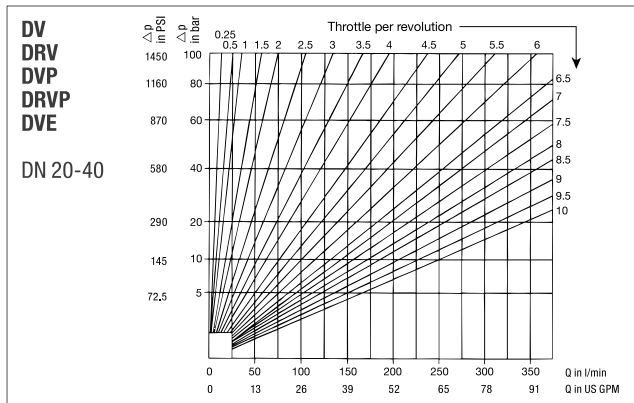
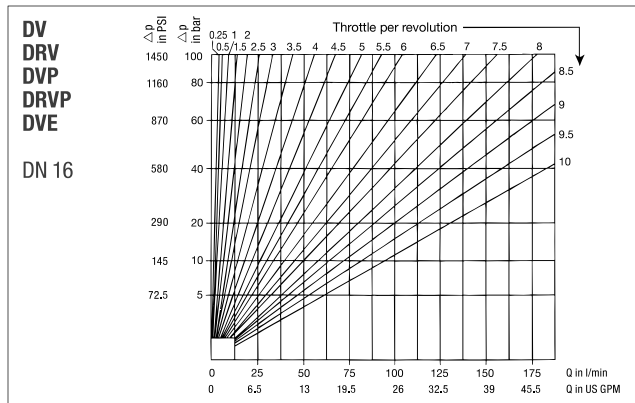
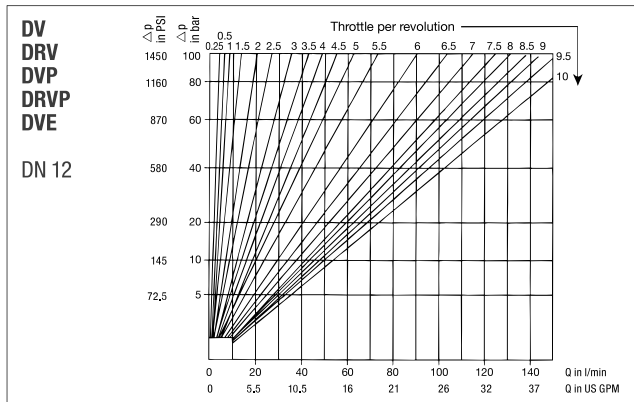
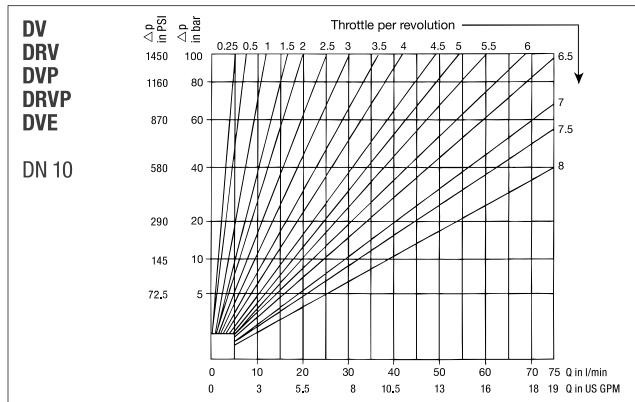
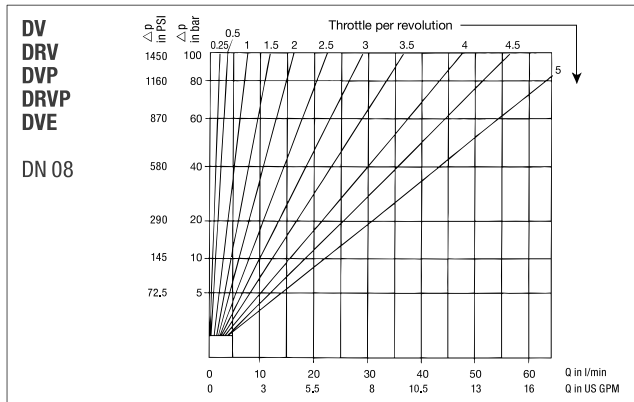
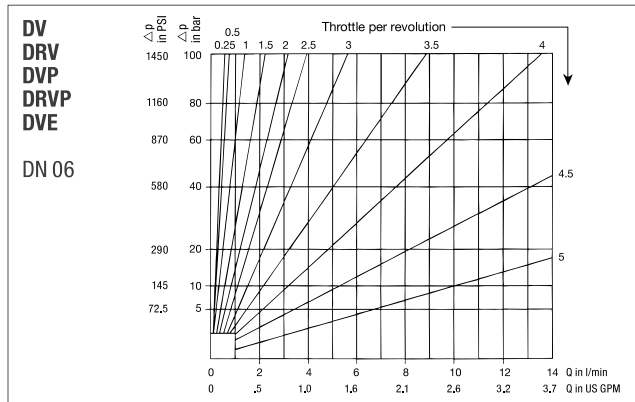
#### Field replaceable springs

- 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



Please note: The flow characteristics mentioned on this page are valid for mineral oils with a density of 0,86 kg/dm<sup>3</sup> and the kinematic viscosity of 35 mm<sup>2</sup>/s (35 cSt). The characteristics have been determined in accordance to ISO 3968.