

Throttle/shut-off valve and throttle check valve

RE 32502/10.07
Replaces: 08.92

1/6

Types DV and DRV

Sizes 6 to 40
Component series 1X
Maximum operating pressure 350 bar
Maximum flow 600 l/min



tb0203

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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:
 - Steel
 - Stainless steel
- Available with fine throttle spindle (please indicate on order)

Information on available spare parts:
www.boschrexroth.com/spc

Technical data (for applications outside these parameters, please consult us!)**General**

Size		Size	6	8	10	12	16	20	25	30	40
Weight	- Type DV	kg	0.12	0.25	0.4	0.7	1.2	2.1	2.8	3.5	5.5
	- Type DRV	kg	0.13	0.3	0.45	0.8	1.3	2.4	3.5	4.6	7.7
Installation position	Optional										
Ambient temperature range	°C		-20 to +80								

Hydraulic

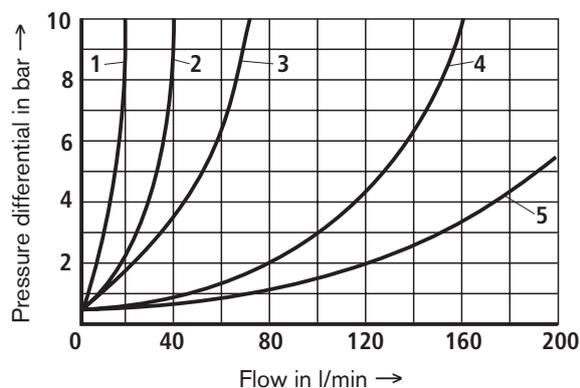
Maximum operating pressure	bar	350
Check valve cracking pressure (type DRV)	bar	0.5 (other cracking pressures on request)
Maximum flow	l/min	See Characteristic curves below and on page 4
Hydraulic fluid	Mineral oil (HL, HLP) to DIN 51524; fast bio-degradable hydraulic fluids to VDMA 24568 (see also RE 90221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic esters); other hydraulic fluids on request	
Hydraulic fluid temperature range	°C	-20 to +100
Viscosity range	mm ² /s	2.8 to 500
Permissible max. degree of contamination of the hydraulic fluid - cleanliness class to ISO 4406 (c)	Class 20/18/15 ¹⁾	

¹⁾ The cleanliness classes specified for components must be adhered to in hydraulic systems. Effective filtration prevents malfunction and, at the same time, prolongs the service life of components.

For the selection of filters, see data sheets RE 50070, RE 50076, RE 50081, RE 50086, RE 50087 and RE 50088.

Characteristic curves (measured with HLP46, $\vartheta_{oil} = 40 \text{ °C} \pm 5 \text{ °C}$)**Type DRV** **Δp - q_v characteristic curves**

Free flow across open check valve (B to A)



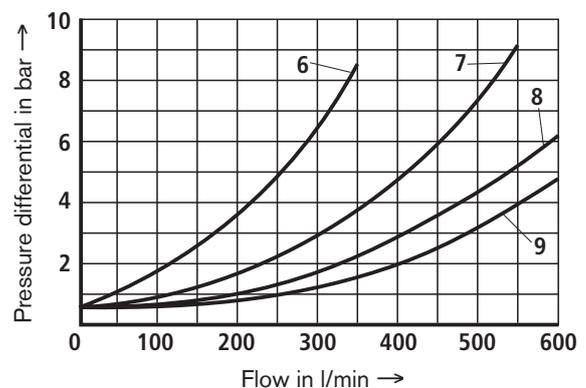
1 Size 06 ...

2 Size 08 ...

3 Size 10 ...

4 Size 12 ...

5 Size 16 ...



6 Size 20 ...

7 Size 25 ...

8 Size 30 ...

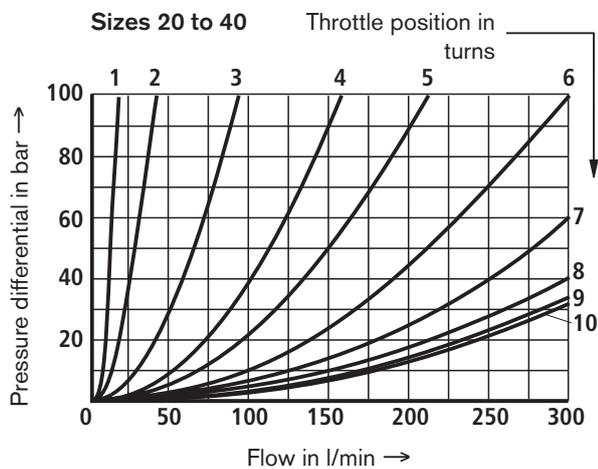
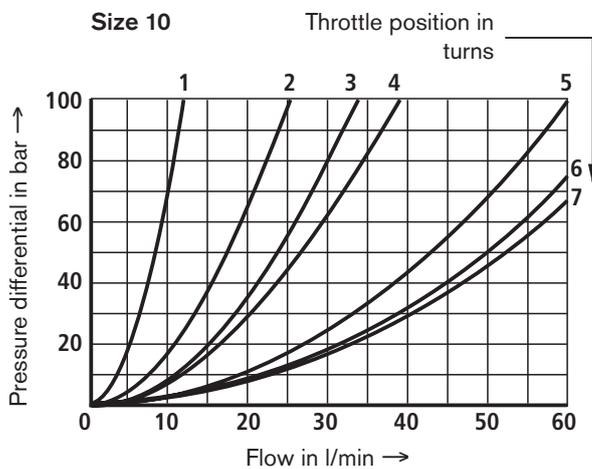
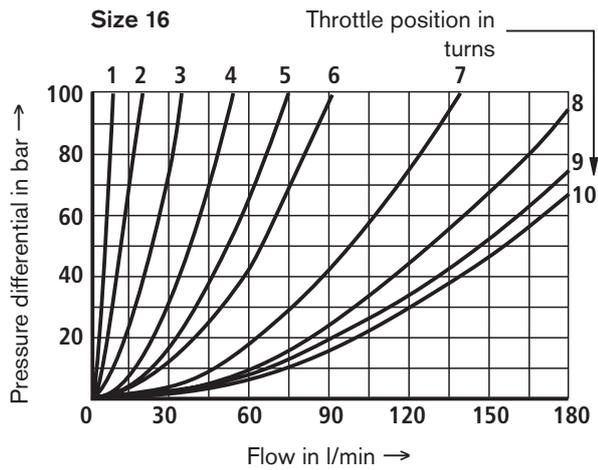
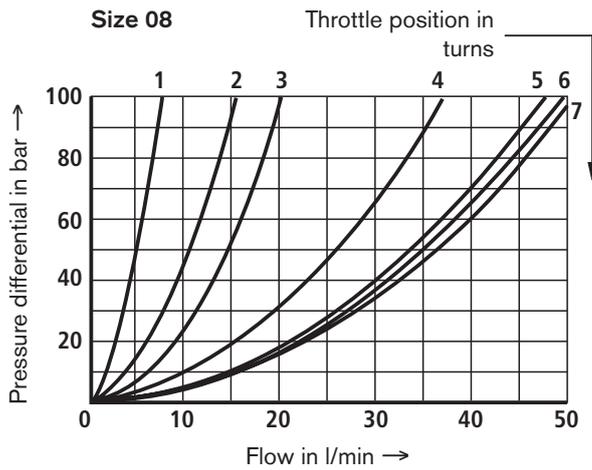
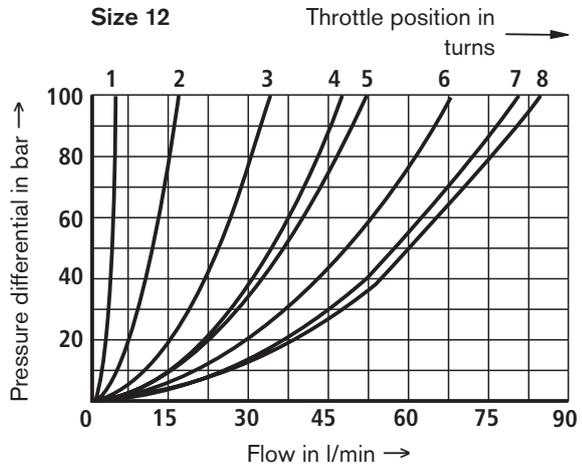
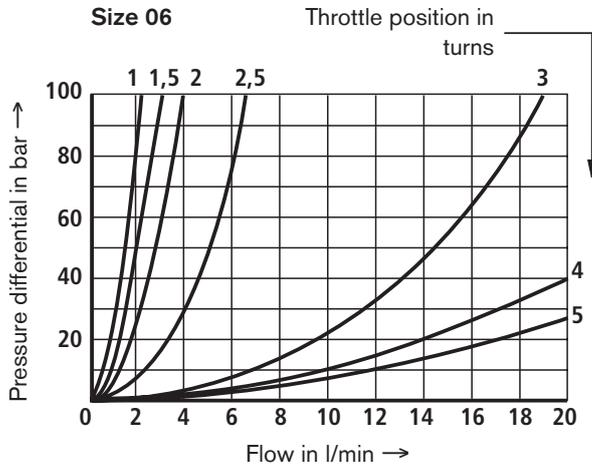
9 Size 40 ...

Characteristic curves (measured with HLP46, $\vartheta_{oil} = 40\text{ °C} \pm 5\text{ °C}$)

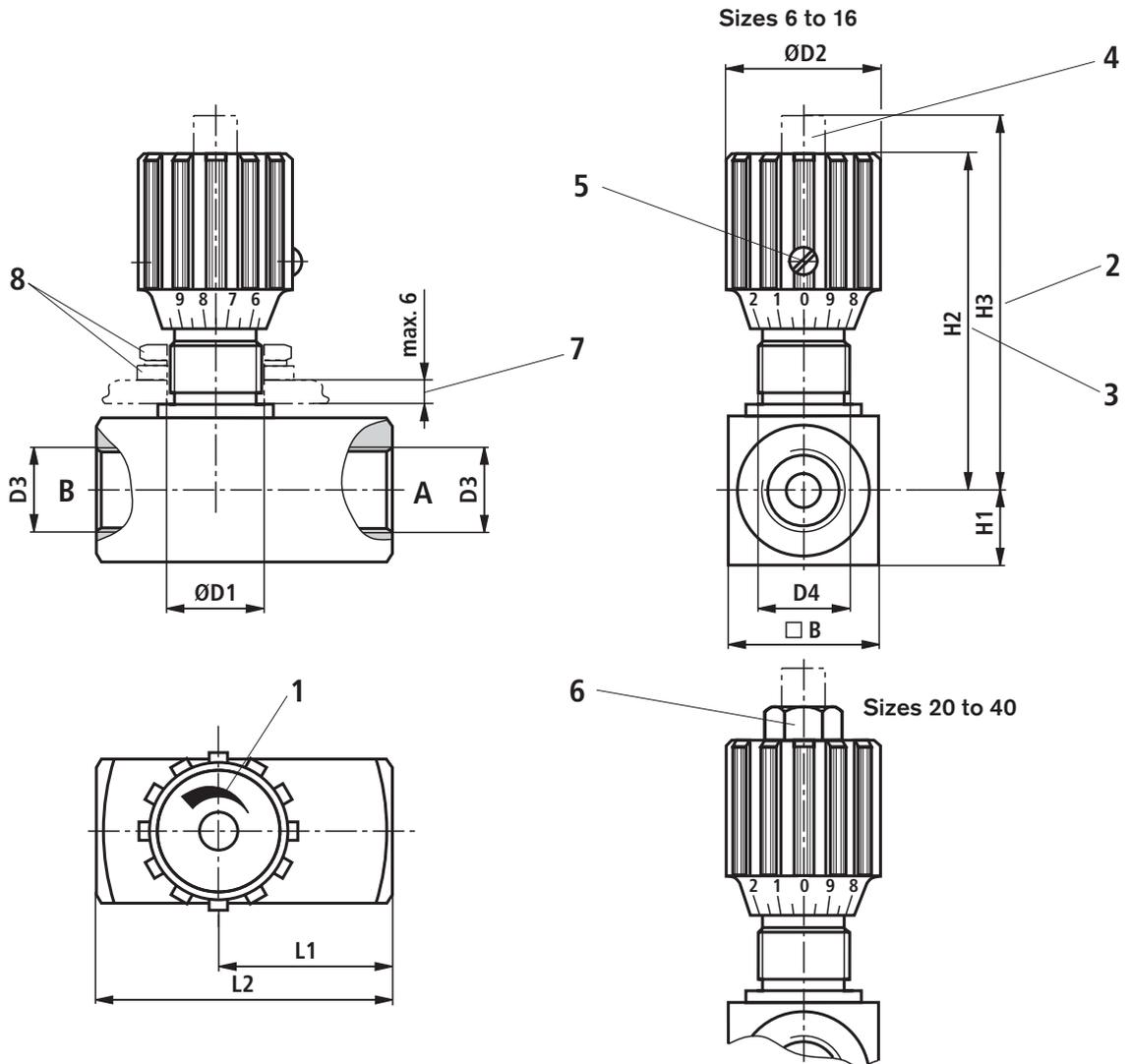
Type DV/DRV

Δp - q_v characteristic curves

with constant throttle position (A to B)



Unit dimensions (dimensions in mm)



1 - Counter-clockwise turning → increase in flow
 - Clockwise turning → reduction in flow

2 Throttle fully open

3 Throttle closed

4 Color scale for repeat setting

5 Clamping screw as locking mechanism

6 Width across flats 19 A/F

7 Control panel thickness

8 Nut and toothed lock washer

Size	□B	ØD1	ØD2	D3	D4	H1	H2		H3		L1		L2	
							DV	DRV	DV	DRV	DV	DRV	DV	DRV
6	16	13	24	G1/8	Pg 7	8	50	50	55	55	19	26	38	45
8	25	19	29	G1/4	Pg 11	12.5	65	65	72	72	24	33.5	48	55
10	30	19	29	G3/8	Pg 11	15	67	67	74	74	29	41	58	65
12	35	23	38	G1/2	Pg 16	17.5	82	82	92	92	34	44	68	73
16	45	23	38	G3/4	Pg 16	22.5	96	96	106	106	39	57	78	88
20	50	38	49	G1	Pg 29	25	128	128	145	145	54	77	108	107
25	60	38	49	G1 1/4	Pg 29	30	133	133	150	150	54	93	108	143
30	70	38	49	G1 1/2	Pg 29	35	138	142	155	159	54	108	108	143
40	90	38	49	G2	Pg 29	45	148	148	165	165	65	130	180	165

Notes

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