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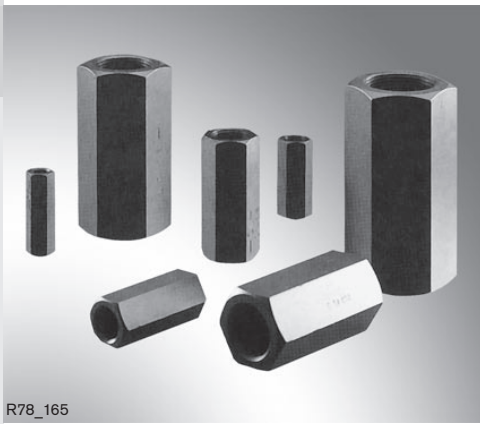
Check valve

RE 20375/12.06 1/4
Replaces: 01.05

Type S

Sizes 6 to 30
Maximum operating pressure 315 bar
Maximum flow 450 l/min


R78_165

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Features

- For threaded connection (screw-in connection)
- Leak-free closure in one direction
- Various cracking pressures, optional (see ordering code)

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

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Ordering code

S		A	•	/	*

Check valve = S

Size 6 = 6
Size 8 = 8
Size 10 = 10
Size 15 = 15
Size 20 = 20
Size 25 = 25
Size 30 = 30

For threaded connection = A

Cracking pressure (see curves on pages 3 and 4)

0 = Without spring
1 = Standard
2 =
3 =
5 =
8 = (Sizes 25 and 30 only)

0 = Revision index (is entered in the factory)

Further details in clear text

Preferred types

Type	Material no.
S 6 A0.0/	R900422880
S 6 A1.0/	R900422881
S 6 A5.0/	R900375858
S 8 A0.0/	R900422885
S 8 A1.0/	R900422886
S 8 A3.0/	R900422888
S 8 A5.0/	R900358268
S 10 A0.0/	R900420530
S 10 A1.0/	R900420531
S 10 A2.0/	R900420532
S 10 A3.0/	R900420534
S 10 A5.0/	R900446476
S 15 A0.0/	R900420536
S 15 A1.0/	R900420537
S 15 A2.0/	R900420520
S 15 A3.0/	R900420521
S 15 A5.0/	R900446477

Type	Material no.
S 20 A0.0/	R900420524
S 20 A1.0/	R900420525
S 20 A2.0/	R900420528
S 20 A3.0/	R900420529
S 20 A5.0/	R900446369
S 25 A1.0/	R900420511
S 25 A3.0/	R900420515
S 25 A5.0/	R900451778
S 30 A0.0/	R900420517
S 30 A1.0/	R900420519
S 30 A2.0/	R900420502
S 30 A3.0/	R900420504
S 30 A5.0/	R900446709

Further preferred types and standard components are listed in the EPS (standard price list).

Symbols


With spring


Without spring

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

General								
Sizes	Size	6	8	10	15	20	25	30
Weight	kg	0.1	0.2	0.3	0.5	1.0	2.0	2.5

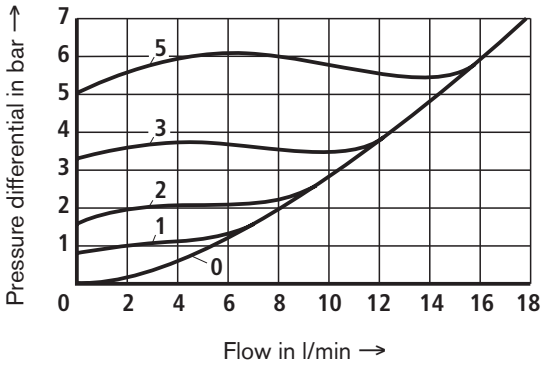
Hydraulic		
Maximum operating pressure	bar	315
Cracking pressure	bar	See characteristic curves below and on page 4
Maximum flow		See characteristic curves below and on page 4
Hydraulic fluid		Mineral oil (HL, HLP) according to DIN 51524; fast bio-degradable hydraulic fluids according to VDMA 24568 (see also RE 90221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic esters); other hydraulic fluids on inquiry
Hydraulic fluid temperature range	°C	–30 to +80
Viscosity range	mm^2/s	2.8 to 500
Max. permissible 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, increases the service life of components.

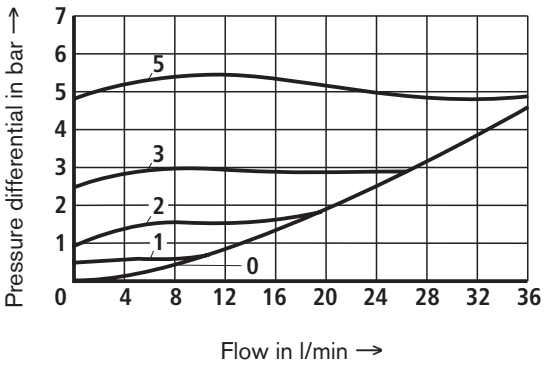
For the selection of filters, see data sheets RE 50070, RE 50076, RE 50081, RE 50086, RE 50087 and RE 50088.

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

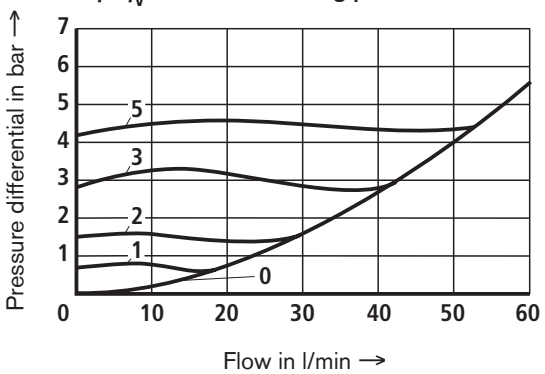
Δp-q_V curves at cracking pressure – size 6



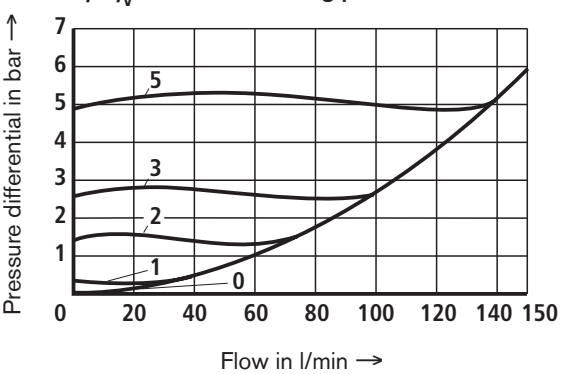
Δp-q_V curves at cracking pressure – size 8



Δp-q_V curves at cracking pressure – size 10



Δp-q_V curves at cracking pressure – size 15



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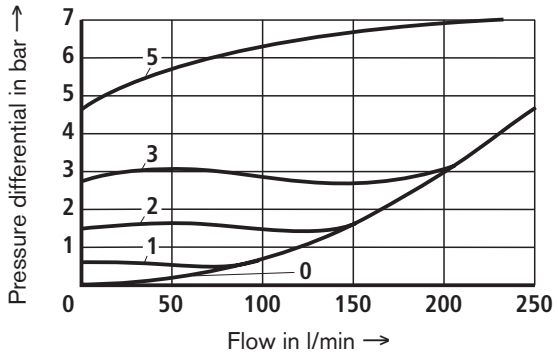
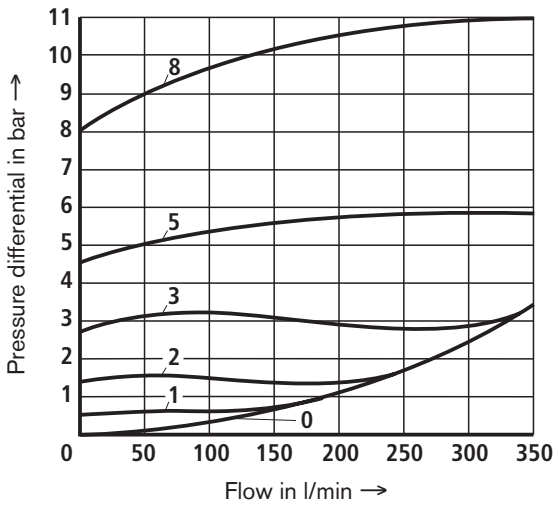
Characteristic curves (measured with HLP46, $\vartheta_{oil} = 40\ °C \pm 5\ °C$)

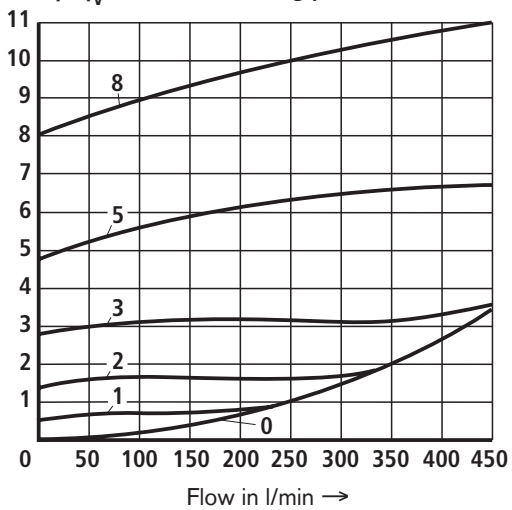
Δp-q_V curves at cracking pressure – size 20



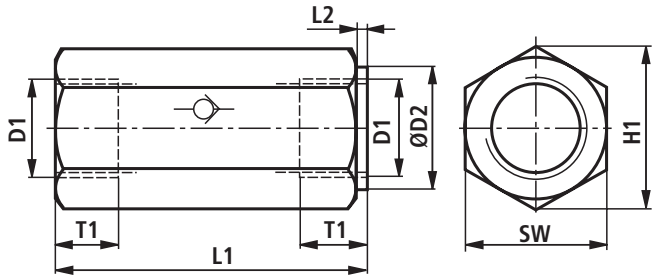
Δp-q_V curves at cracking pressure – size 25



Δp-q_V curves at cracking pressure – size 30



Unit dimensions (nominal dimensions in mm)



Pipe thread "G" to ISO 228-1

	Size						
	6	**8**	**10**	**15**	**20**	**25**	**30**
D1	G1/4	G3/8	G1/2	G3/4	G1	G1 1/4	G1 1/2
ØD2	19	24	30	36	46	60	65
H1	22	28	34,5	41,5	53	69	75
L1	58	58	72	85	98	120	132
L1 [1)]	–	–	–	–	–	160 [1)]	168 [1)]
L2	2	2	2	2	2	2	2
T1	12	12	14	16	18	20	22
SW	19	24	30	36	46	60	65

[1)] Option **„A8.0“**

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
Fax +49 (0) 93 52 / 18-23 58
documentation@boschrexroth.de
www.boschrexroth.de

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