

# Accumulator safety valves

## Size 6 and 10



Systemtechnik  
GmbH

**Directly-controlled**  
**with TÜV type approval according to DGR 97/23/EG, cartridge-type**



**PN [p<sub>max.</sub>] = 10 to 350 bar**

7501406.06.01.06

### Description (standard units)

#### Design

The accumulator safety valves of Type D B C are directly-operated seat valves, and have TÜV type approval. The maximum pressure is limited by a lead-sealed stop. The setting of the maximum pressure is carried out in the factory. To prevent unauthorized resetting to another pressure, the cover hood is secured by a lead seal. Accumulator safety valves are used to protect the hydraulic accumulator against excessive pressure. The accumulator safety valve should be chosen such that the pump delivery is equal to or less than the permissible blowoff of the particular valve, taking into account the operating pressure.



#### Features

- High blowoff
- Tightly-closing seat valve

#### Type key

##### Accumulator safety valve

<b>D</b>	<b>B</b>	<b>C</b>	<b>...</b>	<b>HK</b>	<b>E</b>	<b>...</b>	<b>017</b>	<b>...</b>	<b>O</b>	<b>...</b>
			1			2		3		4

1 Size: **6** see table  
**10**

2 Operating-pressure: **10** – 10 bar  
**61** – 63 bar  
**70** – 100 bar  
**75** – 150 bar  
**80** – 210 bar  
**85** – 250 bar  
**89** – 300 bar  
**90** – 315 bar

3 Engineering version: **1**

4 Sealing material: **O** – Perbunan

#### Ordering

When ordering, please state type No. along with catalog No. listed in the type survey overleaf.

#### Example of how to order

Wanted: Accumulator safety valve size 6, pressure setting 210 bar, blowoff max. 61 l/min.

##### Order: Accumulator safety valve,

Type No.: D B C 6 HK E 80 017 1 O O  
Cat. No.: **6014339**

#### Parameters according to VDI 3276

Type designation	D B C 6 ..	D B C 10 ..
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#### General parameters

Designation	Accumulator safety valve	
Symbol		
Design	Seat valve, directly controlled	
Mounting position	Optional	
Flow direction	From P to T	
Ambient temperature range	$\vartheta_u$ max. [°C] –10 bis +50	
Size	NG	6      10

#### Hydraulic parameters

Operating pressure range	$p_e$ [bar]	Pressure stage 10: 10 Pressure stage 61: 63 Pressure stage 70: 100 Pressure stage 75: 150 Pressure stage 80: 210 Pressure stage 81: 235 Pressure stage 85: 250 Pressure stage 89: 300 Pressure stage 90: 315 Pressure stage 91: 350
Pressure fluid temperature	$\vartheta_m$ max. [°C]	+70
Viscosity range	$\nu$ [mm <sup>2</sup> /s]	From 12 to 500
Blowoff	G [l/min]	See type survey

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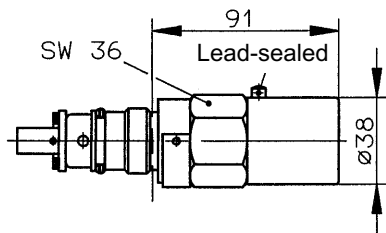
www.herion-systemtechnik.de  
info@herion-systemtechnik.de

### Type survey (standard designs)

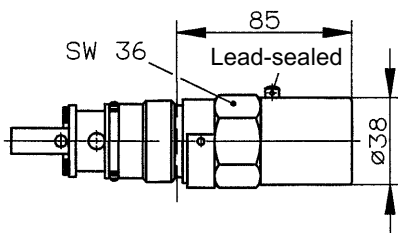
Size	Operating pressure $p_e$ [bar]	Blowoff G [l/min]	TÜV type approval	Type	Cat. No.
6	30-39	5			will be compiled when ordering
	40-49	10			will be compiled when ordering
	50-62	13			will be compiled when ordering
	63	20	TÜV.SV.00.527.6.F.63.20	D B C 6 HK E 61 017 1 O O	<b>6014336</b>
	64-69	13			will be compiled when ordering
	70-79	14			will be compiled when ordering
	80-89	17			will be compiled when ordering
	90-99	23			will be compiled when ordering
	100	45	TÜV.SV.00.527.6.F.100.45	D B C 6 HK E 70 017 1 O O	<b>6014337</b>
	101-110	45			will be compiled when ordering
	111-129	17			will be compiled when ordering
	130-149	25			will be compiled when ordering
	150	40	TÜV.SV.00.527.6.F.150.40	D B C 6 HK E 75 017 1 O O	<b>6014338</b>
	151-159	39			will be compiled when ordering
	160	39	TÜV.SV.00.527.6.F.160.39	D B C 6 HK E 76 017 1 O O	<b>6016119</b>
	160-174	39			will be compiled when ordering
	175-189	46			will be compiled when ordering
	190-209	52			will be compiled when ordering
	210	61	TÜV.SV.00.527.6.F.210.61	D B C 6 HK E 80 017 1 O O	<b>6014339</b>
	211-219	35			will be compiled when ordering
	220-229	40			will be compiled when ordering
	230-239	45			will be compiled when ordering
	235	50	TÜV.SV.00.527.6.F.235.50	D B C 6 HK E 81 017 1 O O	<b>6014753</b>
	240-249	50			will be compiled when ordering
	250	55	TÜV.SV.00.527.6.F.250.55	D B C 6 HK E 85 017 1 O O	<b>6014340</b>
	250-274	55			will be compiled when ordering
	275-299	60			will be compiled when ordering
	300	65	TÜV.SV.00.527.6.F.300.65	D B C 6 HK E 89 017 1 O O	<b>6014341</b>
	300-329	65			will be compiled when ordering
	330-350	70			will be compiled when ordering
350	70	TÜV.SV.00.527.6.F.350.70	D B C 6 HK E 91 017 1 O O	<b>6015209</b>	
10	10	24	TÜV.SV.00.620.10.F.24.10	D B C 10 HK E 10 017 1 O O	<b>6015871</b>
	63	90	TÜV.SV.00.620.10.F.90.63	D B C 10 HK E 61 017 1 O O	<b>6014744</b>
	100	110	TÜV.SV.00.620.10.F.110.100	D B C 10 HK E 70 017 1 O O	<b>6014745</b>
	150	130	TÜV.SV.00.620.10.F.130.150	D B C 10 HK E 75 017 1 O O	<b>6014610</b>
	210	150	TÜV.SV.00.620.10.F.150.210	D B C 10 HK E 80 017 1 O O	<b>6014746</b>
	250	160	TÜV.SV.00.620.10.F.160.250	D B C 10 HK E 85 017 1 O O	<b>6014747</b>
	300	150	TÜV.SV.00.620.10.F.150.300	D B C 10 HK E 89 017 1 O O	<b>6014748</b>
	310	150	TÜV.SV.00.620.10.F.150.310	D B C 10 HK E 99 017 1 O O	<b>6015799</b>
	315	150	TÜV.SV.00.620.10.F.150.315	D B C 10 HK E 90 017 1 O O	<b>6015810</b>

## Dimensional drawings

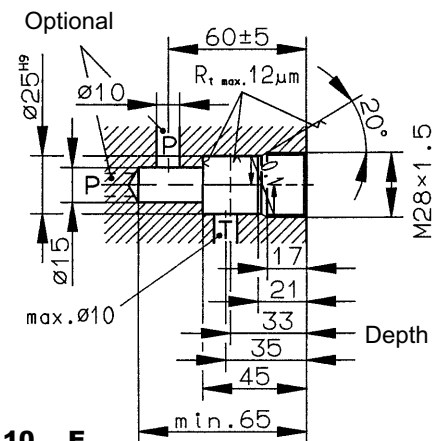
### Pressure valve D B C 6 .. E ..



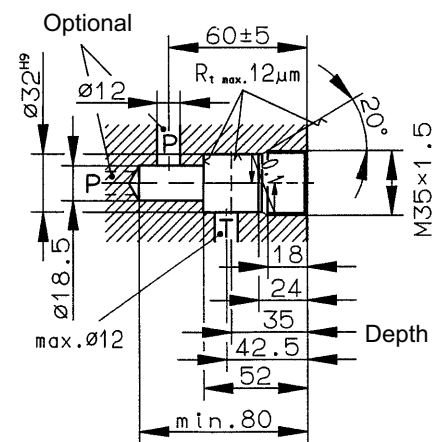
### D B C 10 .. E ..



### Receiving bore For D B C 6 .. E ..

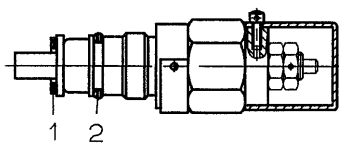


### For D B C 10 .. E ..

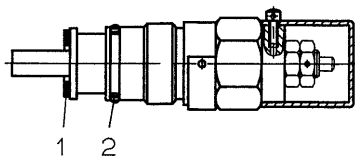


## Spare parts drawings

### D B C 6 HK ..



### D B C 10 HK ..



## Spare parts

Part	Qty.	Designation	Cat. No.
1	1	Usit-ring (17,4 x 24 x 1,5)	<b>0657121</b>
2	1	O-ring (20,3 x 2,6)	<b>0701514</b>

1 Set of spare parts consists of parts 1 and 2.  
These spare parts are not available separately.

Part	Qty.	Designation	Cat. No.
1	1	Usit-ring (22,7 x 30 x 2)	<b>0659044</b>
2	1	O-ring (26,7 x 2,6)	<b>0701518</b>

1 Set of spare parts consists of parts 1 and 2.  
These spare parts are not available separately.

**Notice:**

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