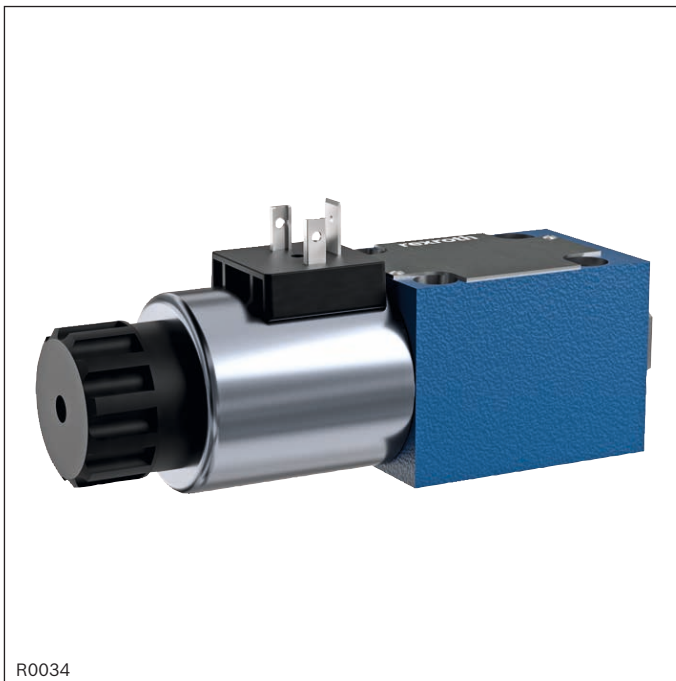


Directional seat valves, direct operated, with solenoid actuation

Type SED



- Size 6
- Component series 1X
- Maximum operating pressure 350 bar
- Maximum flow 25 l/min



Features

- 2/2, 3/2 or 4/2-way version
- Porting pattern according to ISO 4401-03-02-0-05
- Wet-pin DC solenoids with detachable coil (AC voltage possible by means of a rectifier)
- Safe switching also with longer standstill periods under pressure
- High-power solenoid, rotatable by 90°
- The coil can be changed without having to open the pressure-tight chamber
- Concealed manual override, optional
- Spool position monitoring, optional
- CE conformity according to Low-Voltage Directive 2014/35/EU
- Approval according to CSA C22.2 No. 139-10, optional

Contents

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Ordering code

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
M	-		SED	6		1X	/	350	C			K4		/			

01	Mineral oil	M
02	2 main ports	2
	3 main ports	3
	4 main ports	4
03	Seat valve	SED
04	Size 6	6

Symbols

05		2 main ports	NK
			PK
		3 main ports	UK
			CK
		4 main ports	D
			Y

06	Component series 10 ... 19 (10 ... 119: unchanged installation and connection dimensions)	1X
07	Operating pressure 350 bar	350
08	Solenoid, wet (wet-pin), with detachable coil	C

Electrical voltages

09	For ordering code see page 4	e.g. G24
10	Without manual override	No code
	With concealed manual override	N9

Corrosion resistance (outside)

11	None (valve housing primed)	No code
	Improved corrosion protection (240 h salt spray test according to EN ISO 9227) (see page 3)	J3

Ordering code

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
M	-		SED	6		1X	/	350	C			K4		/			

Electrical connection

12	Individual connection	
	For ordering code see page 4.	e.g. K4 ¹⁾

Spool position monitoring

13	Without position switch	No code	◇
	Monitored spool position "a"	QMAG24	
	Monitored spool position "b"	QMBG24	
	For further details, see data sheet 24830		
14	Without check valve insert, without throttle insert	No code	◇
	With check valve insert	P	
	Throttle Ø1.2 mm	B12	
	Throttle Ø1.5 mm	B15	
	Throttle Ø2.0 mm	B20	

Seal material (observe compatibility of seals with hydraulic fluid used, see page 8)

15	NBR seals	No code	◇
	FKM seals	V	
16	Without locating hole	No code	◇
	With locating hole and locking pin ISO 8752-3x8-St	/62	
17	Standard	No code	◇
	Approval according to CSA C22.2 No. 139-10	= CSA	
	Porting pattern according to ANSI B93.9 (if solenoid "a" is energized, channel P is connected to A)	= AN	

Special versions

18	Without	No code	◇
	With lockable manual override	SO290	

¹⁾ Mating connectors, separate order, see page 18 and data sheet 08006.

 **Note:** ◇ = Preferred type

Possible variants with version "J3"

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18			
M	-	2	SED	6	PK	1X	/	350	C	G12	No code	J3	K4	No code	/	No code	No code	No code	No code	No code
		3			NK					G24	N		K40			P	V			
		4			UK					G26 2)			C4			B.				
					CK															
					D															
					Y															

²⁾ Not with version "K4".

Ordering code

DC voltage – individual connection

Electrical connection		Ordering codes (for electrical voltages see page 8)							
		G12	G24 ◇	G26	G96	G110	G205	G220	G240
Connector, 3-pole (2 + PE) according to EN 175301-803	K4 ◇	✓	✓	–	✓	✓	✓	✓	✓
Connector, 2-pole, DT04-2PA (Deutsch type)	K40	✓	✓	✓	–	–	–	–	–
Connector, 4-pole, M12x1 according to EN 61076-2-101 with suppressor diode, coding A	▶ Pin assignment according to DESINA ▶ Standard	K72L	–	✓	–	–	–	–	–
		K73L	–	✓	–	–	–	–	–
Connector 2-pole (Junior-Timer type)	▶ Connector parallel to the valve axis	C4	✓	✓	✓	–	–	–	–

Alternating voltage – individual connection

Electrical connection		Ordering codes (for electrical voltages see page 9)		
		G96	G110	G205
Connector, 3-pole (2 + PE) according to EN 175301-803	K4	✓	✓	✓
Rectifier required (see page 18)		✓	✓	✓



Note: ◇ = Preferred type

Function, section, schematic illustration: 4/2 directional seat valve

With a sandwich plate, the **Plus-1 subplate**, under the 3/2 directional seat valve, the function of a 4/2 directional seat valve is achieved.

Function of the Plus-1 subplate

► Initial position:

The main valve is not operated. The spring (5) holds the closing element (4) on the seat (11). Port P is blocked and A is connected to T. A control line is connected from A to the large area of the control spool (8), which is thus unloaded to the tank. The pressure applied via P now pushes the ball (9) onto the seat (10). P is thus connected to B, and A is connected to T.

► Transition position:

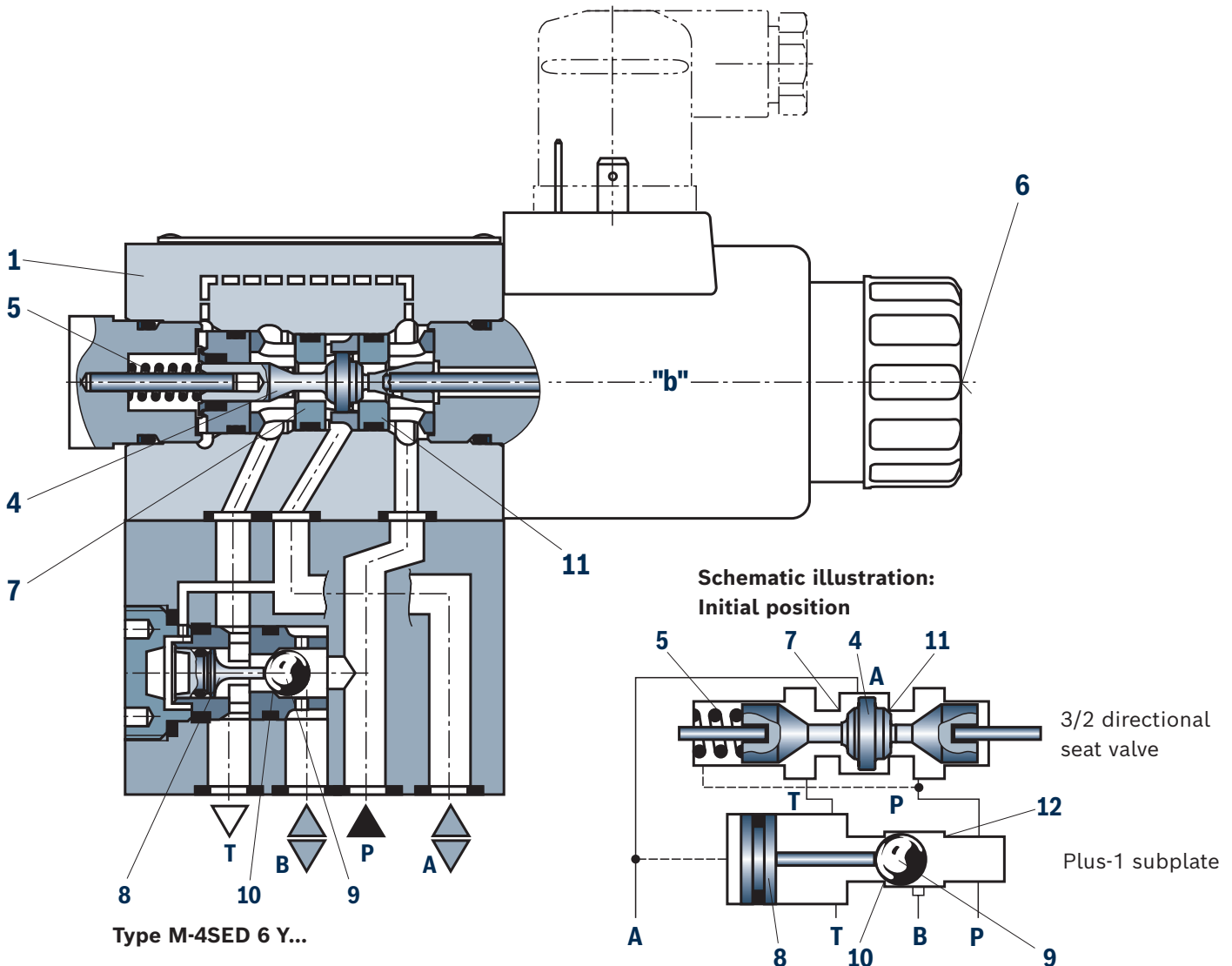
Upon actuation of the main valve, the closing element (4) is shifted against the spring (5) and pressed onto the seat (7). During this, port T is blocked, while P, A, and B are briefly connected to each other.

► Spool position:

P is connected to A. As the pump pressure acts via A on the large area of the control spool (8), the ball (9) is pressed onto the seat (12). B is thus connected to T, and P is connected to A. The ball (9) in the Plus-1 subplate has a "positive spool overlap".

👉 Notice:

If the annulus area of differential cylinders is not connected to port A, a pressure peak is created in port B during the switching process. This pressure peak may exceed the admissible operating pressure.



Technical data

(For applications outside these values, please consult us!)

General			
Type of connection		Subplate mounting	
Porting pattern		ISO 4401-03-02-0-05	
Weight	► 2/2 directional seat valve	kg	1.5
	► 3/2 directional seat valve	kg	1.5
	► 4/2 directional seat valve	kg	2.3
Installation position		Any	
Ambient temperature range		°C	–20 ... +50 (NBR seals) –15 ... +50 (FKM seals)
Maximum storage time		Years	2
Protection class according to EN 60529	► "K4", "K72L", "K73L", "C4"		IP65 (if suitable and correctly mounted mating connectors are used)
	► "K40"		IP69K (if suitable and correctly mounted mating connectors are used)
Maximum surface temperature ¹⁾		°C	120
MTTF _D values according to EN ISO 13849		Years	150 (version "UK" and "CK") (for more information see data sheet 08012)
Conformity	► CE according to Low-Voltage Directive 2014/35/EU, tested according to		EN 60204-1
	► RoHS Directive		2011/65/EU ²⁾

Hydraulic			
Maximum operating pressure		bar	See performance limit on page 11
Hydraulic fluid		See table on page 8	
Hydraulic fluid temperature range (at the valve working ports)		°C	–20 ... +80 (NBR seals) –15 ... +80 (FKM seals)
Viscosity range		mm ² /s	2.8 ... 500
Maximum admissible degree of contamination of the hydraulic fluid; cleanliness class according to ISO 4406 (c)		Class 20/18/15 ³⁾	
Maximum flow		l/min	25

¹⁾ Due to the rising surface temperatures of the solenoid coils, the standards ISO 13732-1 and ISO 4413 must be adhered to.

²⁾ The product fulfills the substance requirements of the RoHS Directive 2011/65/EU.

³⁾ The cleanliness classes specified for the components must be adhered to in hydraulic systems. Effective filtration prevents faults and at the same time increases the life cycle of the components.

Technical data

(For applications outside these values, please consult us!)

Hydraulic fluid	Classification	Suitable sealing materials	Standards	Data sheet
Mineral oils	HL, HLP, HLPD, HVLP, HVLPD	NBR, FKM	DIN 51524	90220
Bio-degradable	► Insoluble in water	HETG	ISO 15380	90221
		HEES		
	► Soluble in water	HEPG	ISO 15380	
Flame-resistant	► Water-free	HFDU (glycol base)	ISO 12922	90222
		HFDU (ester base)		
		HFDR		



Important information on hydraulic fluids:

- For further information and data on the use of other hydraulic fluids, please refer to the data sheets above or contact us.
- There may be restrictions on the technical data (temperature, pressure range, life cycle, maintenance intervals, etc.).
- The ignition temperature of the hydraulic fluid used must be 50 K higher than the maximum surface temperature.

► Bio-degradable and flame-resistant – containing water:

If components with galvanic zinc coating (e.g. version "J3" or "J5") or parts containing zinc are used, small amounts of dissolved zinc may get into the hydraulic system and cause an accelerated aging of the hydraulic fluid. Zinc soap may form as a chemical reaction product, which may clog filters, nozzles and solenoid valves – particularly in connection with local heat input.

Electrical – direct voltage

Voltage type			Direct voltage							
Ordering code (voltage)			G12	G24	G26	G96	G110	G205	G220	G240
Supply voltage	► Nominal value	V	12	24	26	96	110	205	220	240
	► Minimum	V	10.8	21.6	23.4	86.4	99	184.5	198	216
	► Maximum	V	13.2	26.4	28.6	105.6	121	225.5	242	264
	► Rated current	A	2.5	1.25	1.16	0.33	0.30	0.16	0.14	0.13
	► Nominal power according to VDE 0580	W	30							
	► Fuse protection, external		The valve must be installed on a surface that is included in the equipotential bonding.							
Relative duty cycle time according to VDE 0580			S1 (continuous operation)							
Maximum switching frequency	► Operating pressure ≤ 350 bar	1/h	15000							
	► Operating pressure > 350 bar		3600							
Protective grounding conductor and screening			See pin assignment, page 17.							
Thermal class (insulation material) according to VDE 0580			F							
Protection class according to EN 61140	► "K4"		I ⁴⁾							
	► "K40", "K72L", "K73L", "C4"		III ⁵⁾							
Overvoltage category according to EN 60664-1			I							
Switching time range according to ISO 6403 ⁶⁾	► ON	ms	40 ... 70							
	► OFF	ms	10 ... 20							

- ⁴⁾ With a properly connected protective grounding conductor (PE) and the valve clamping surface connected to the protective grounding conductor system.
- ⁵⁾ A protective extra-low voltage with isolation transformer (PELV, SELV) is to be provided.
- ⁶⁾ The switching times were determined at a hydraulic fluid temperature of 40 °C and a viscosity of 46 cSt. Deviating hydraulic fluid temperatures can result in different switching times. Switching times change dependent on operating time and application conditions.



Notice:

Solenoid valves induce voltage peaks during switch-off. In order to prevent electro-magnetic interference at the system and damage to the valve control, an interference protection circuit has to be provided on the system side. Alternatively, you can also select a connector with integrated interference protection circuit.

Technical data

(For applications outside these values, please consult us!)

Electrical – AC voltage							
Voltage type			AC voltage				
Ordering code (voltage)			G96		G110	G205	
Supply voltage	► Nominal value	V	100	110	120	230	
	► Minimum	V	90	99	108	207	
	► Maximum	V	110	121	132	253	
	► Frequency	Hz	50/60	50/60	60	50/60	
	► Rectifier required		✓	✓	✓	✓	
	► Rated current	50 Hz	A	0.31	0.34	–	0.16
		60 Hz	A	0.31	0.34	0.30	0.16
Relative duty cycle time according to VDE 0580			S1 (continuous operation)				
Maximum switching frequency			1/h	15000			
Protective grounding conductor and screening			See pin assignment, page 17.				
Thermal class (insulation material) according to VDE 0580			F				
Protection class according to EN 61140			I ⁴⁾				
Overvoltage category according to EN 60664-1			I				
Switching time range according to ISO 6403 ⁶⁾	► ON	ms	40 ... 70				
	► OFF	ms	30 ... 45				

⁴⁾ With a properly connected protective grounding conductor (PE) and the valve clamping surface connected to the protective grounding conductor system.

⁶⁾ The switching times were determined at a hydraulic fluid temperature of 40 °C and a viscosity of 46 cSt. Deviating hydraulic fluid temperatures can result in different switching times. Switching times change dependent on operating time and application conditions.



Notice:

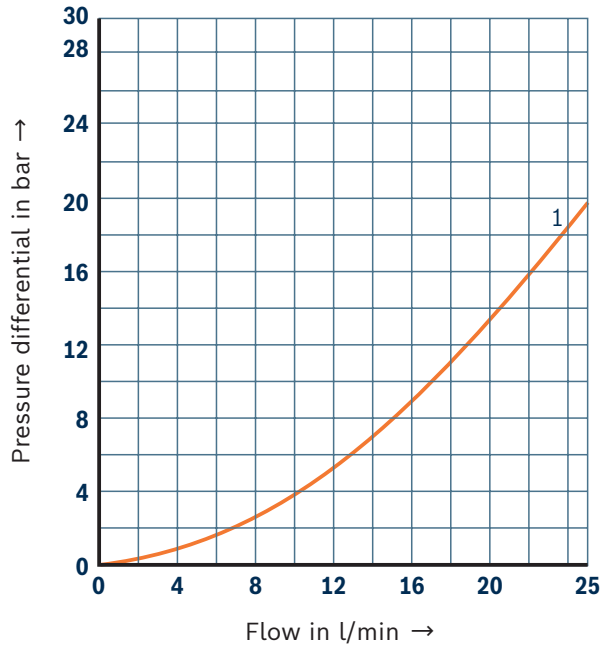
Solenoid valves induce voltage peaks during switch-off. In order to prevent electro-magnetic interference at the system and damage to the valve control, an interference protection circuit has to be provided on the system side. Alternatively, you can also select a connector with integrated interference protection circuit.

Characteristic curves

(measured with HLP46, $\vartheta_{oil} = 40 \pm 5 \text{ }^{\circ}\text{C}$)

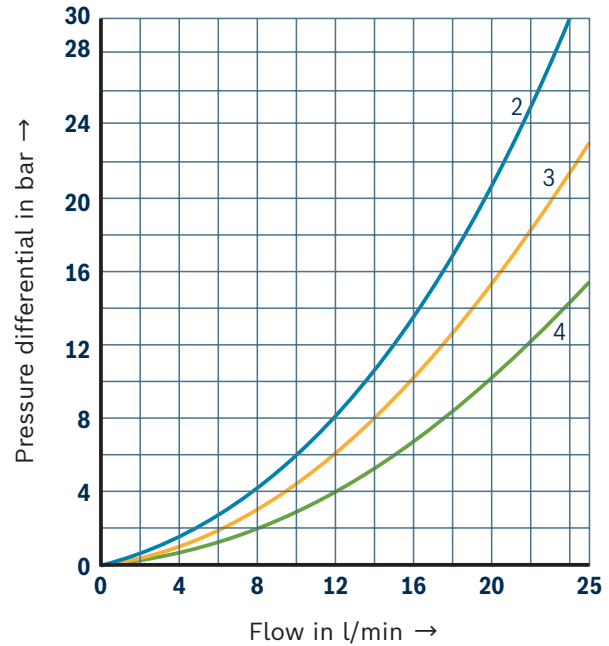
Δp - q_v characteristic curves

2/2 and 3/2 directional seat valve



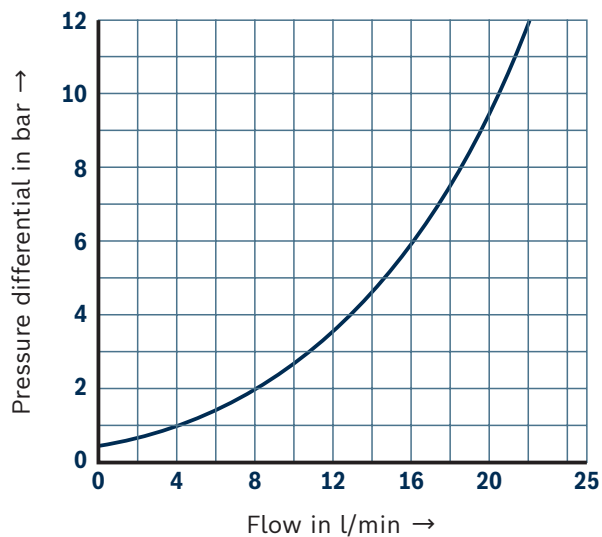
- 1 P→A ("2SED")
P→A, A→T ("3SED")

4/2 directional seat valve

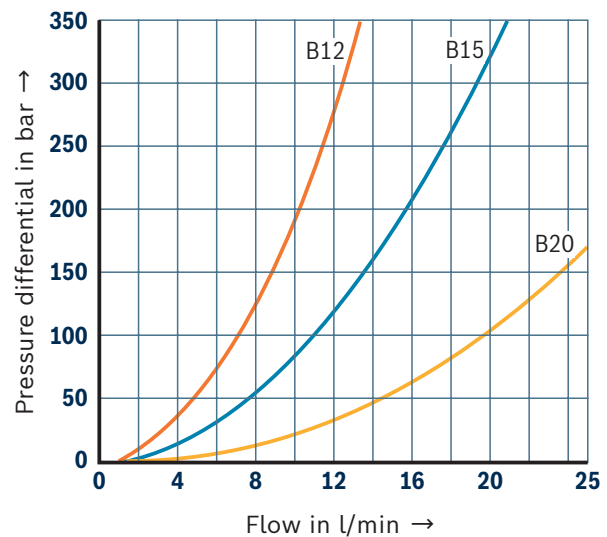


- 2 A→T
3 P→A
4 B→T, P→B

Check valve insert



Throttle insert

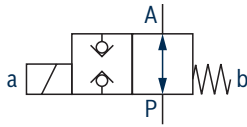
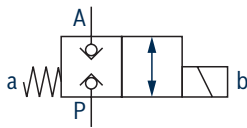
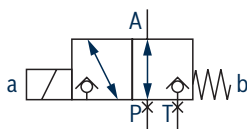
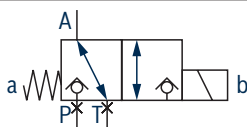
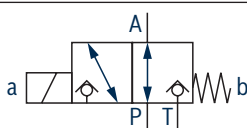
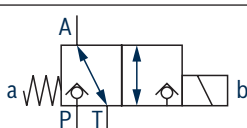
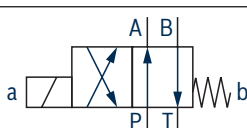
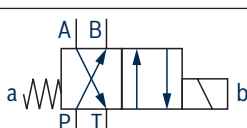


Notice:

Typical characteristic curves which are subject to tolerance variations.

Performance limits

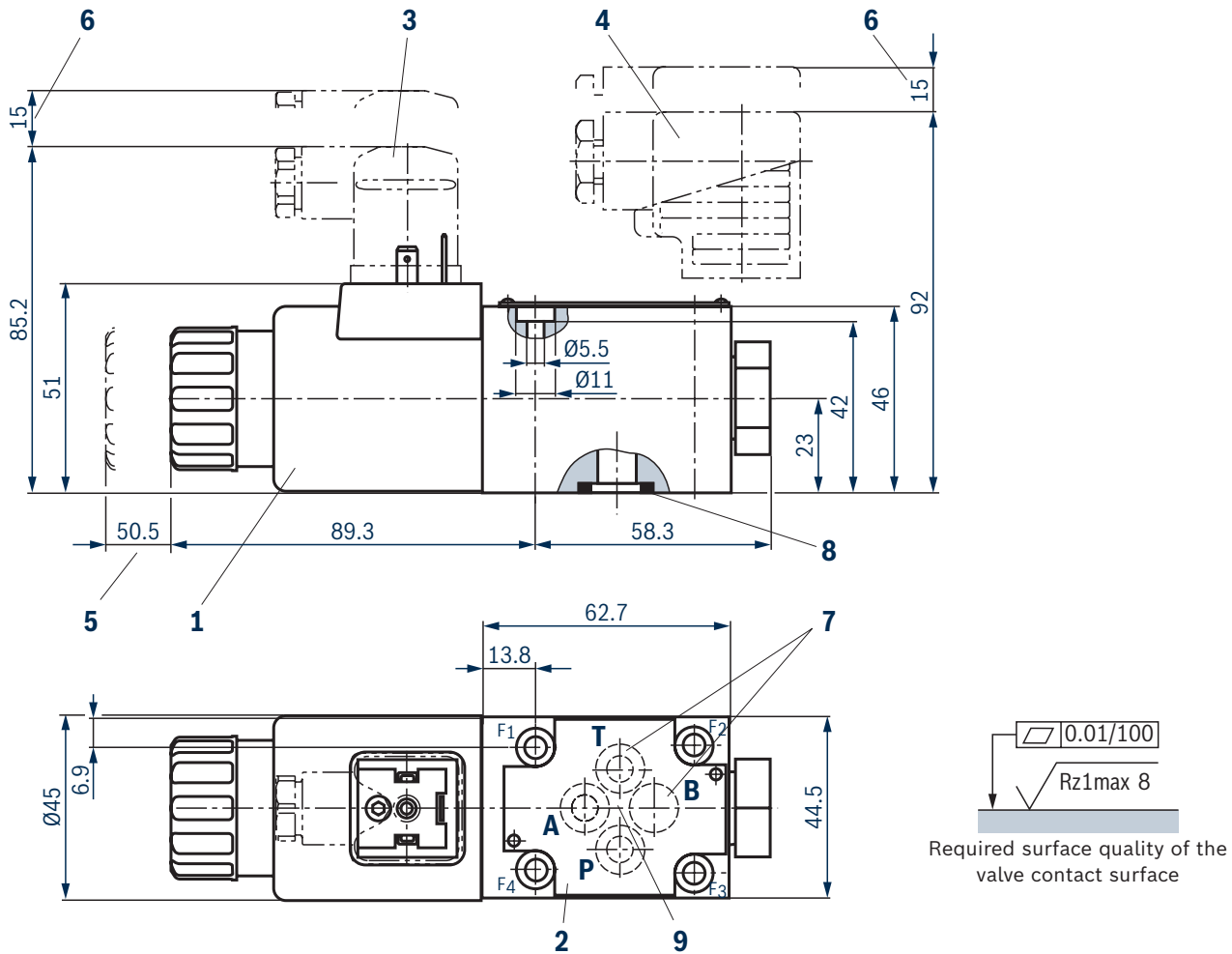
(measured with HLP46, $\vartheta_{oil} = 40 \pm 5 \text{ }^{\circ}\text{C}$)

	Symbol		Comment	Maximum operating pressure in bar			
				P	A	B	T
2-way circuit (2/2 directional seat valve)	PK			350	350		
	NK			350	350		
2-way circuit (3/2 directional seat valve)	UK		With 2/2-way circuits, port P or T must be closed by the customer.	350	350		350
	CK			350	350		350
3-way circuit	UK			350	350		350
	CK			350	350		350
4-way circuit (flow only possible in direction of arrow)	D		3/2 directional valve (symbol "UK") in connection with Plus-1 subplate: $p_P \geq p_A \geq p_B \geq p_T$	350	350	350	$p_P/p_A/p_B$ -40
	Y		3/2 directional valve (symbol "CK") in connection with Plus-1 subplate: $p_P \geq p_A \geq p_B \geq p_T$	350	350	350	$p_P/p_A/p_B$ -40

Information:

- Observe "Project planning information" on page 19.
- The performance limit was determined when the solenoids were at operating temperature, at 10% undervoltage and without tank preloading.

Dimensions: 2/2 directional seat valve ("PK") and 3/2 directional seat valve ("UK")
(Dimensions in mm)



- 1 Solenoid "a"
- 2 Name plate
- 3 Mating connector without circuitry (separate order, see page 18)
- 4 Mating connector with circuitry (separate order, see page 18)
- 5 Space required to remove the coil
- 6 Space required for removing the mating connector
- 7 ► With 2/2 and 3/2 directional seat valves, port B is present as blind counterbore.
► With 2/2 directional seat valves, port T is closed internally.
- 8 Identical seal rings for ports A, B, and T; seal ring for port P
- 9 Porting pattern according to ISO 4401-03-02-0-05 (with or without locating hole).

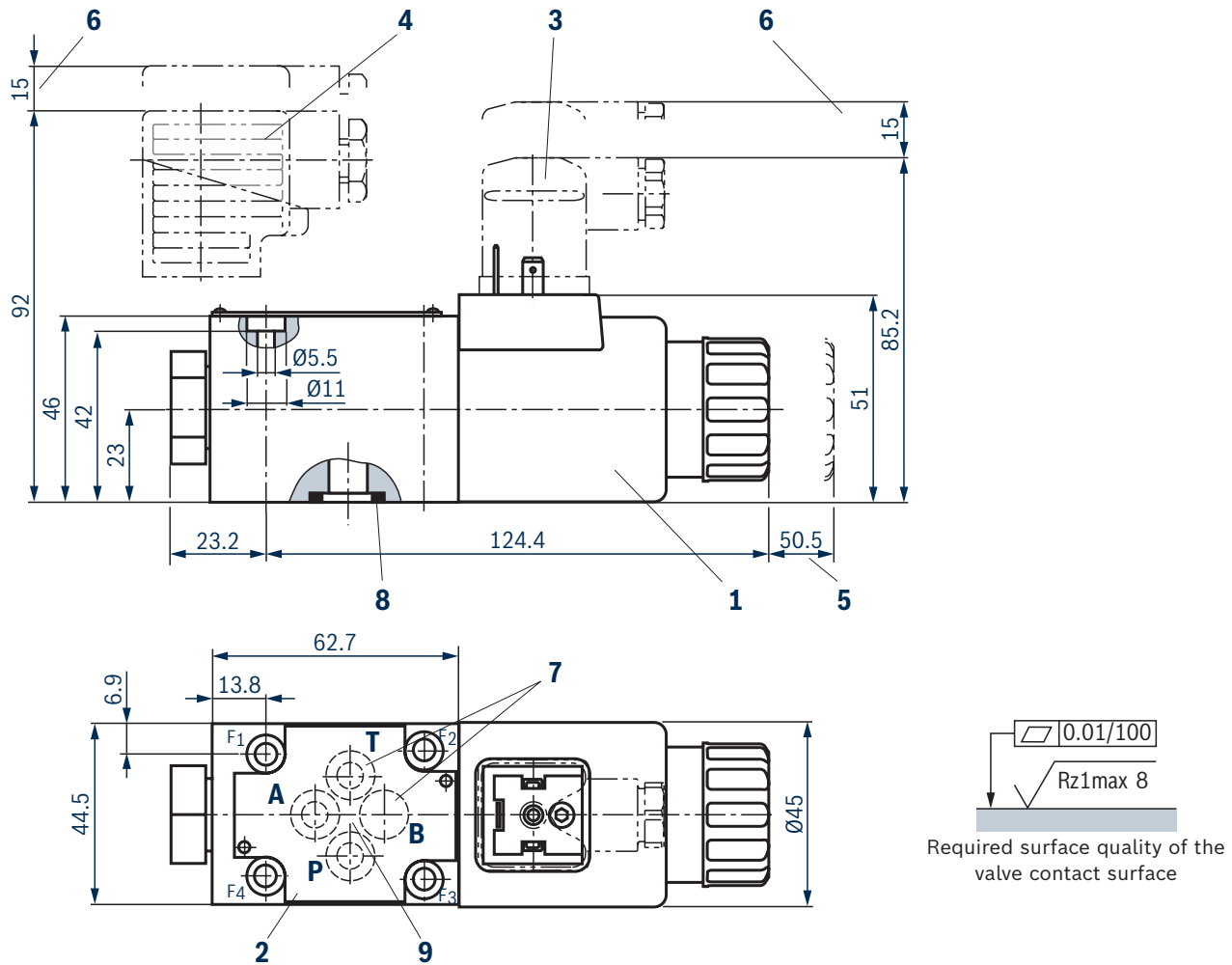
Valve mounting screws and subplates, see page 16.



Notice:

The dimensions are nominal dimensions which are subject to tolerances.

Dimensions: 2/2 directional seat valve ("NK") and 3/2 directional seat valve ("CK")
(Dimensions in mm)



- 1 Solenoid "b"
- 2 Name plate
- 3 Mating connector without circuitry (separate order, see page 18)
- 4 Mating connector with circuitry (separate order, see page 18)
- 5 Space required to remove the coil
- 6 Space required for removing the mating connector
- 7 ▶ With 2/2 and 3/2 directional seat valves, port B is present as blind counterbore.
▶ With 2/2 directional seat valves, port T is closed internally.
- 8 Identical seal rings for ports A, B, and T; seal ring for port P
- 9 Porting pattern according to ISO 4401-03-02-0-05 (with or without locating hole).

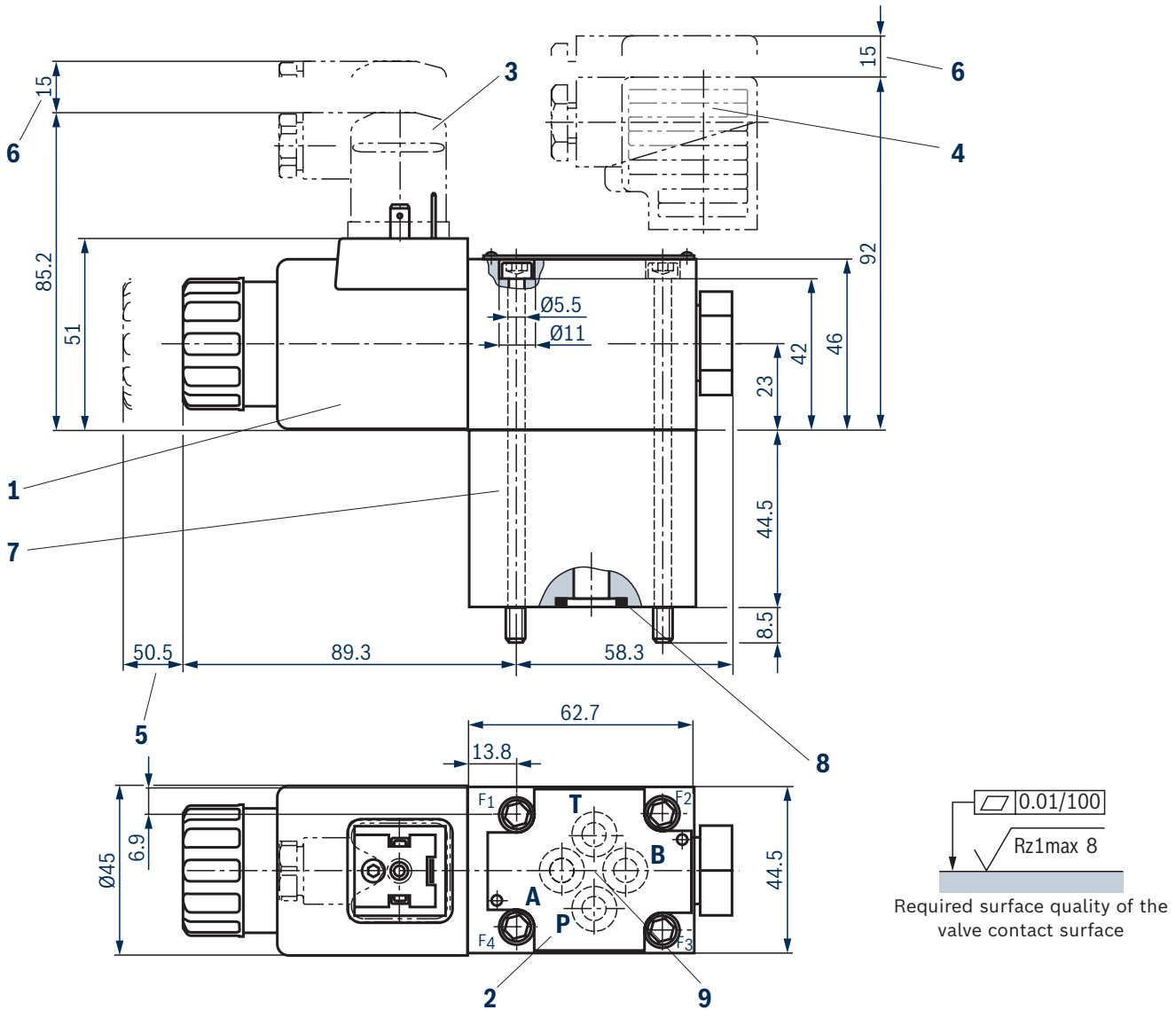
Valve mounting screws and subplates, see page 16.



Notice:

The dimensions are nominal dimensions which are subject to tolerances.

Dimensions: 4/2 directional seat valve ("D") (Dimensions in mm)



- 1 Solenoid "a"
- 2 Name plate
- 3 Mating connector without circuitry (separate order, see page 18)
- 4 Mating connector with circuitry (separate order, see page 18)
- 5 Space required to remove the coil
- 6 Space required for removing the mating connector
- 7 Plus-1 subplate
- 8 Identical seal rings for ports A, B, and T; seal ring for port P
- 9 Porting pattern according to ISO 4401-03-02-0-05 (with or without locating hole).

Valve mounting screws and subplates, see page 16.



Notice:

The dimensions are nominal dimensions which are subject to tolerances.

Dimensions

Valve mounting screws (separate order)

Version	Quantity	Hexagon socket head cap screws	Material number
"2" and "3"	4	ISO 4762 - M5 x 50 - 10.9 Friction coefficient $\mu_{total} = 0.09 \dots 0.14$; tightening torque $M_A = 7 \text{ Nm} \pm 10\%$	R913043758
	or		
	4	ISO 4762 - M5 x 50 - 10.9 Friction coefficient $\mu_{total} = 0.12 \dots 0.17$; tightening torque $M_A = 8.1 \text{ Nm} \pm 10\%$	Not included in the Rexroth delivery range
"4"	4	ISO 4762 - M5 x 95 - 10.9 Friction coefficient $\mu_{total} = 0.09 \dots 0.14$; tightening torque $M_A = 7 \text{ Nm} \pm 10\%$	R913051579
	or		
	4	ISO 4762 - M5 x 95 - 10.9 Friction coefficient $\mu_{total} = 0.12 \dots 0.17$; tightening torque $M_A = 8.1 \text{ Nm} \pm 10\%$	Not included in the Rexroth delivery range

Subplates (separate order) with porting pattern according to ISO 4401-03-02-0-05 see data sheet 45100.

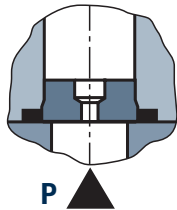
Throttle insert

The use of a throttle insert is required if, due to prevailing operating conditions, flows which exceed the performance limit of the valve can occur during the switching processes.

- Examples:
- Accumulator operation,
 - Use as pilot control valve with internal pilot fluid tapping.

3/2 directional seat valve
The throttle insert is inserted into port P of the seat valve.

4/2 directional seat valve
The throttle insert is inserted into port P of the Plus-1 subplate.

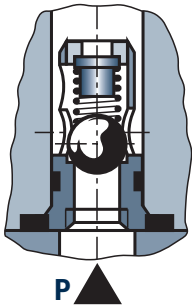


Check valve insert

The check valve insert allows free flow from P → A and closes A → P in a leakage-free form.

3/2 directional seat valve
The check valve insert is inserted into port P of the seat valve.

4/2 directional seat valve
The check valve insert is inserted into port P of the Plus-1 subplate.



Electrical connections, assignment

Ordering code for connector		Top view	Circuit diagram	Pin	Connections, assignment
Connector, 3-pole (2 + PE) according to EN 175301-803	K4			1	Solenoid coil, polarity-independent
				2	
Connector, 2-pole, DT04-2PA (Deutsch type)	K40 ¹⁾			1	Solenoid coil, polarity-independent
				2	
Connector, 4-pole, M12x1 according to EN 61076-2-101 with suppressor diode, pin assignment according to DESINA	K72L			1	Internal bridge
				2	
				3	Solenoid coil GND
				4	Solenoid coil 24 VDC supply voltage
				5	Without function
Connector, 4-pole, M12x1 according to EN 61076-2-101 with suppressor diode	K73L			1	Without function
				2	
				3	Solenoid coil GND
				4	Solenoid coil 24 VDC supply voltage
				5	Without function
Connector, 2-pole, parallel to the valve axis (Junior-Timer type)	C4 ¹⁾			1	Solenoid coil, polarity-independent
				2	

¹⁾ Plug-in system suitable for mobile applications

When establishing the electrical connection, the protective grounding conductor (PE ) must be connected correctly.

Information:

- The protective grounding conductor must have a cross-section greater than or equal to that of the voltage supply. Protective grounding conductor cross-section max. 1.5 mm².
- The valve mounting surface must be connected to the protective grounding conductor system.
- Connectors are not intended to be plugged in or disconnected during normal operation under load and must be locked during operation.

Accessories (separate order)

Mating connectors

Item ¹⁾	Designation	Version	Short designation	Material number	Data sheet
3, 4	Mating connector; for valves with "K4" connector, 2-pole + PE, design A	Without circuitry, M16 x 1.5, 0 ... 250 V, "a"	Z4	R901017010	08006
		Without circuitry, M16 x 1.5, 0 ... 250 V, "b"		R901017011	
		Without circuitry, NPT 1/2", 0 ... 250 V, "a"	Z45	R900004823	
		Without circuitry, NPT 1/2", 0 ... 250 V, "b"		R900011039	
		With indicator light, M16 x 1.5, 12 ... 48 V	Z5L	R901560501	
		With indicator light, NPT 1/2", 12 ... 48 V	Z55L	R901560512	
		With rectifier, M16 x 1.5, 24 ... 240 V	RZ5	R901563568	
		With rectifier, NPT 1/2", 24 ... 240 V	RZ55	R901563573	
		With indicator light and Z-diode-suppressor, M16 x 1.5, 24 V	Z5L1	R901017026	
		With indicator light and protective diode, M16 x 1.5, 24 V	Z5L2	R900057453	
		With indicator light and protective diode, PG11, 20 ... 30 V		1834484138	
		With indicator light and rectifier, M16 x 1.5, 24 ... 240 V	RZ5L	R901563566	
		With indicator light and rectifier, NPT 1/2", 24 ... 240 V	RZ55L	R901563569	
-	Mating connectors; for sensors and valves with "K24", "K35", "K72" and "K73" connectors, 4-pole	Straight, PG7	4PZ24	R900773042	08006
		Straight, PG9		R900031155	
		Angled, PG7		R900779509	
		Angled, PG9		R900082899	
-	Mating connectors; for directional valves with connector "C4" and "C4Z" (AMP Junior-Timer)	10 ... 32 V, 5 A	2P JUNIOR D2 2	R901022127	08006
		10 ... 32 V, 5 A	2P D1.2 JUNIOR	R900313533	
-	Mating connectors; for directional valves with "K40" connector (Deutsch plug)	10 ... 32 V, 5 A	2P DT06 K40AWG14	R900733451	08006
		10 ... 32 V, 5 A	2P DT06 K40AWG16	R901017847	

1) See dimensions page 12 ... 15.

Project planning information

- ▶ Seat valves can be used according to the spool symbols as well as the assigned operating pressures and flows (see performance limits on page 11).
- ▶ In order to ensure safe functioning, it is absolutely necessary to observe the following:
 - Seat valves have a negative spool overlap, i.e. leakage oil occurs during the switching process. However, this process takes place within such a short time that it is irrelevant in nearly all cases of use.
 - The specified maximum flow must not be exceeded (use a throttle insert for flow limitation, if necessary, see page 16).
 - The solenoid coils must not be painted.
 - Actuation of the manual override is only possible up to a tank pressure of approx. 50 bar. Avoid damage to the bore of the manual override. (Special tool for operation, separate order, material no. **R900024943**).
 - Use cables that are approved for a working temperature above 50 °C.
 - If the standard environmental conditions according to VDE 0580 cannot be provided, the valve must be especially protected.
- Solenoid valves induce voltage peaks during switch-off. In order to prevent electro-magnetic interference on the system and damage to the valve control, an interference protection circuit has to be provided on the system side (recommendation: 2 x nominal value of supply voltage). Alternatively, you can also select a connector with integrated interference protection circuit.
- ▶ **Plus-1 subplate:**
 - If the Plus-1 subplate (4/2 directional function) is used, the following lower operating values have to be observed: $p_{\min} = 8 \text{ bar}$, $q_V > 3 \text{ l/min}$.
 - Ports P, A, B and T are clearly determined according to their tasks. They must not be arbitrarily exchanged or closed.
 - Port T must always be connected.
 - The pressure level and the pressure distribution are to be observed.
 - The flow is only admissible in the direction of arrow.

Further information

- | | |
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| ▶ Subplates | Data sheet 45100 |
| ▶ Inductive position switch and proximity sensors (contactless) | Data sheet 24830 |
| ▶ Hydraulic fluids on mineral oil basis | Data sheet 90220 |
| ▶ Environmentally compatible hydraulic fluids | Data sheet 90221 |
| ▶ Flame-resistant, water-free hydraulic fluids | Data sheet 90222 |
| ▶ Flame-resistant hydraulic fluids – containing water (HFAE, HFAS, HFB, HFC) | Data sheet 90223 |
| ▶ Reliability characteristics according to EN ISO 13849 | Data sheet 08012 |
| ▶ Mating connectors and cable sets for valves and sensors | Data sheet 08006 |
| ▶ CE declaration of conformity according to Low-Voltage Directive 2014/35/EU | Upon request |
| ▶ Hydraulic valves for industrial applications | Operating instructions 07600-B |
| ▶ Information on available spare parts | www.boschrexroth.com/spc |

Notes

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