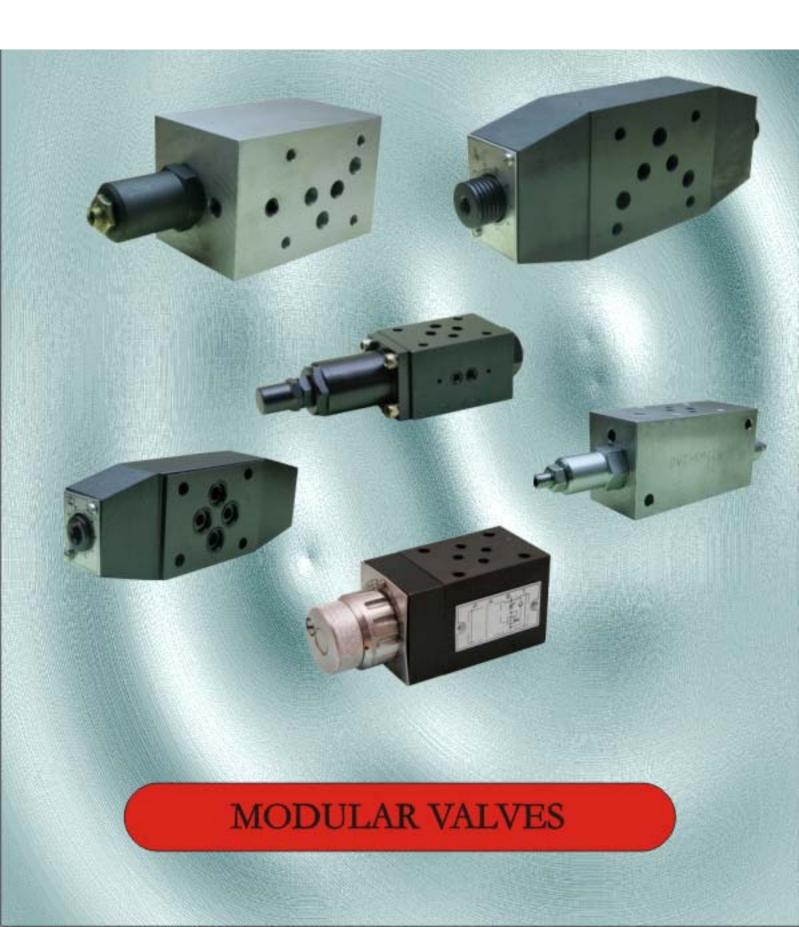
# Bulmach



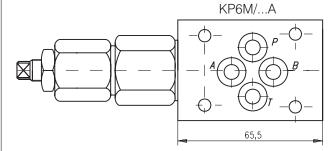
KP6M/...

List: KP6M-1-June 2012

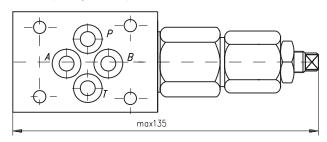
#### **DESCRIPTION**

- ✓ Pressure relief valve with pilot operation.
- ✓ Adjustment of the pressure range at line A to T: KP6M/10A, KP6M/20A, KP6M/32A.
- ✓ Adjustment of the pressure range at line B to T: KP6M/10B, KP6M/20B, KP6M/32B.
- ✓ Adjustment of the pressure range at line P to T: KP6M/10P, KP6M/20P, KP6M/32P.
- ✓ Adjustment of the pressure range at line A&B to T: KP6M/10AB , KP6M/20AB , KP6M/32AB.
- ✓ Adjustment of the pressure range at line A to B&B to A: KP6M/10A, KP6M/20A, KP6M/32A.
- ✓ The pressure relief valve protects the hydraulic drives of overloading or damaging by limiting or maintaining a constant pressure. There is a possibility for the pressure range adjustment at a definite range.
- ✓ Mounting surface CETOP3 (NG6)

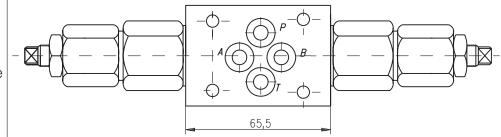
# **DIMENSIONS**

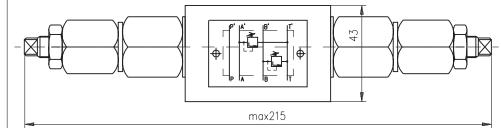


KP6M/...B; KP6M/...P

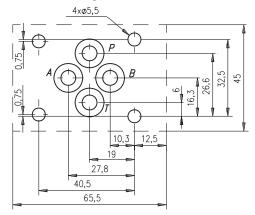


KP6M/...AB2 KP6M/...AB





Mounting surface



We reserve the right to change specifications without notice.

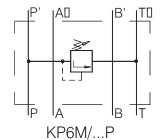
Bulmach.pl

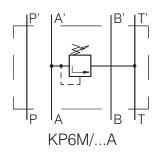
KP6M-1-June 2012

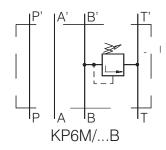
KP6M/...

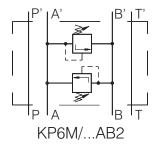
# SYMBOL

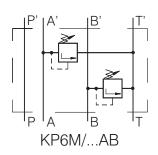
# **ORDERING CODE**











	KP	6	М	/	***	-	***
Relief valve							
Nominal bore 6mm							
Modular mounting							

Rated pressure: up to 100 bar.-10 up to 200 bar.-20

up to 320 bar.-32

Function: at line A to T - A

at line B to T -  ${\bf B}$ 

at line P to T - P

at line A and B to T - AB at line A to B & at B to A - AB2

# **TECHNICAL DATA**

Weight	with one relief valve	1,150kg
	with two relief valves	1,400 kg
Rated flow (	1p=2,5 bar.)	20 l/min
	Adjustment of pres	ssure range:
KP6M/10P, k	KP6M/10A , KP6M/10B ,	
KP6M/10AB,	, KP6M10AB2	5100 bar
KP6M/20P, k	KP6M/20A , KP6M/20B ,	
KP6M/20AB,	, KP6M20AB2	15200 bar
KP6M/32P, k	KP6M/32A , KP6M/32B ,	
KP6M/32AB,	, KP6M32AB2	20300 bar
	Working liquid-hydraulic oi	s with characteristics:
	-viscosity	10400 cSt
	-degree of filtration	0,025 mm
	-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KP6M-1-June 2012

KP10M/...

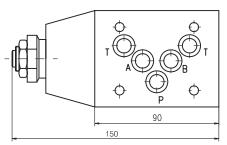
List: KP10M-1-June 2012

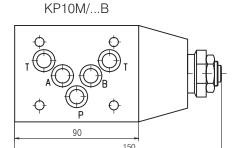
#### **DESCRIPTION**

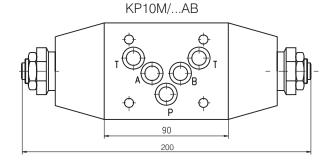
- ✓ Pressure relief valve with pilot operation.
- ✓ Adjustment of the pressure range at line A to T: KP10M/10A , KP10M/20A, KP10M/32A.
- ✓ Adjustment of the pressure range at line B to T: KP10M/10B , KP10M/20B, KP10M/32B.
- ✓ Adjustment of the pressure range at line P to T: KP10M/10P, KP10M/20P, KP10M/32P.
- ✓ Adjustment of the pressure range at line A&B to T: KP10M/10AB , KP10M/20AB , KP10M/32AB.
- ✓ Adjustment of the pressure range at line A to B&B to A: KP10M/10A, KP10M/20A, KP10M/32A.
- ✓ The pressure relief valve protects the hydraulic drives of overloading or damaging by limiting or maintaining a constant pressure. There is a possibility for the pressure range adjustment at a definite range.
- ✓ Mounting surface CETOP5 (NG10)

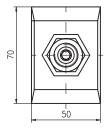
#### **DIMENSIONS**

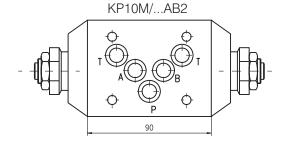
KP10M/...P KP10M/...A

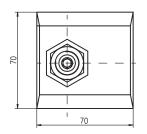


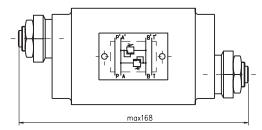




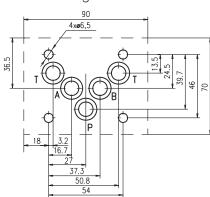








Mounting surface



We reserve the right to change specifications without notice.

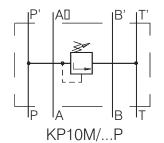
Bulmach.pl

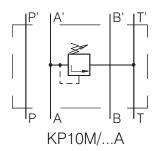
KP10M-1-June 2012

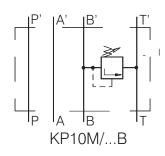
KP10M/...

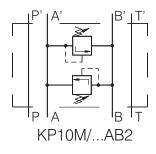
# SYMBOL

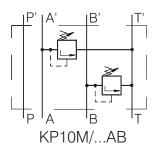
# **ORDERING CODE**











	KP	10	) \	1	/	***	-	***
Relief valve								
Nominal bore 10mm	n.							
Modular mounting								

Rated pressure: up to 100 bar.-10 up to 200 bar.-20

up to 320 bar.-**32** 

Function: at line A to T - A at line B to T - B at line P to T - P

at line A and B to T - AB at line A to B & at B to A - AB2

# TECHNICAL DATA

Weight	with one relief valve	2,700kg
	with two relief valves	3,050 kg
Rated flow (	$\Delta p = 2,5 \text{ bar.}$	40 l/min
	Adjustment of press	sure range:
KP10M/10P	, KP10M/10A , KP10M/10B ,	
KP10M/10Al	B , KP10M10AB2	5100 bar
KP10M/20P	, KP10M/20A , KP10M/20B ,	
KP10M/20A	B , KP10M20AB2	15200 bar
KP10M/32P	, KP10M/32A , KP10M/32B ,	
KP10M/32AI	B , KP10M32AB2	20320 bar
	Working liquid-hydraulic oils	with characteristics:
	-viscosity	10400 cSt
	-degree of filtration	0,025 mm
	-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KP10M-1-June 2012

# PRESSURE REDUCING VALVE

KRT6M/...

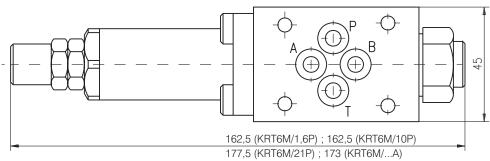
List: KRT6M-1-June 2012

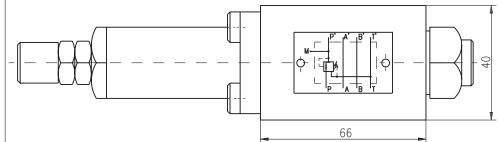
#### **DESCRIPTION**

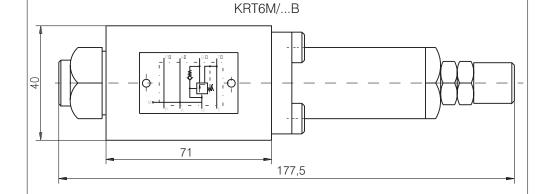
- ✓ Pressure reducing valves for modular mounting-KRT6M/...
- ✓ The pressure reducing valves are used to limit the pressure in the separate sections of the hydraulic systems where constant pressure is achieved (at element outlet) lower than the inlet pressure and independent of its changing.
- ✓ Mounting surface CETOP3 (NG6)

#### **DIMENSIONS**

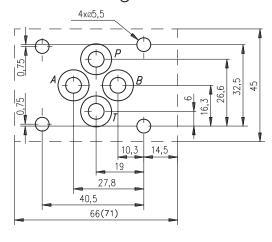
KRT6M/1,6P; KRT6M/10P; KRT6M/21P; (KRT6M/...A)







# Mounting surface



We reserve the right to change specifications without notice.

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KRT6M-1-June 2012

# PRESSURE REDUCING VALVE

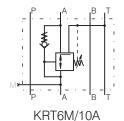
KRT6M/...

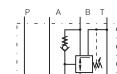
\*\*\* \*\*\*

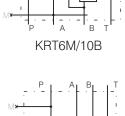
# **SYMBOL**

# **ORDERING CODE**

KRT 6







KRT6M/...P

Pressure reducing valve

Nominal bore 6mm.

Modular mounting

Pressure reducing range: up to 16 bar.-1,6

up to 100 bar.-10

M

up to 210 bar.- **21** 

Function - Pressure reducing in line P to P - P

in line A to A - A

in line B to B - B

# **TECHNICAL DATA**

Weight		1,165 kg
		1,4 kg (KRT6M/21P)
Max. inlet pressure		320 bar
Rated flow ( $\Delta p=2,5b$	ar)	20 l/min
	Pressure reducing range:	Safety pressure range:
KRT6M/1,6P	0,816 bar	316 bar
KRT6M/10P	10100 bar	20100 bar
KRT6M/21P	20210 bar	30210 bar
KRT6M/10A	10100 bar	20100 bar
KRT6M/10B	10100 bar	20100 bar

Working liquid-hydraulic oils with characteristics:

-viscosity 10...400 cSt -degree of filtration 0,025 mm -temperature -20...+80°C

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KRT6M-1-June 2012

# PRESSURE REDUCING VALVE

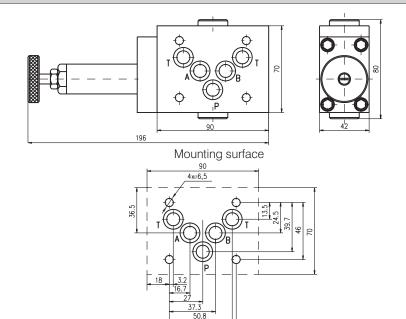
KR10M/...P

List: KR10M-1-June 2012

#### **DESCRIPTION**

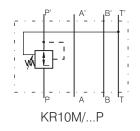
- ✓ Pressure reducing valves for modular mounting-KR10M/...P
- ✓ The pressure reducing valves are used to limit the pressure in the separate sections of the hydraulic systems where constant pressure is achieved (at element outlet) lower than the inlet pressure and independent of its changing.
  ✓ Mounting surface

# **DIMENSIONS**



#### SYMBOL

CETOP5 (NG10)



### **ORDERING CODE**

KR

10

M

Pressure reducing valve

Nominal bore 10mm.

Modular mounting

Pressure reducing range: up to 100 bar.-10

up to 200 bar.-20

\*\*\*

up to 200 bar.-32

Function - at line P to P'-P

#### **TECHNICAL DATA**

Weight	1,165 kg
Max. inlet pressure	320 bar
Rated flow ( $\Delta p=2,5$ bar.)	40 l/min
Adjustment of	pressure reducing range:
KR10M/10P Pr	(P>P') 3100 bar
KR10M/20P Pi	r(P>P') 10200 bar
KRT10M/32P Pr	(P>P') 20320 bar
Working liquid-hydraulic oils with character	ristics:
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KR10M-1-June 2012

# **CHECK VALVE**

KO6M/32...

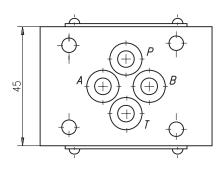
List: KO6M-1-June 2012

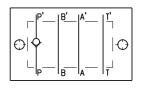
#### **DESCRIPTION**

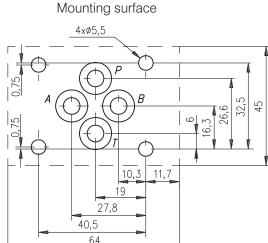
# ✓ Check valves for modular mounting-KO6M/32...

- ✓ Check valves give leak free closure in one direction and allow free passing in the other.
- ✓ Mounting surface CETOP3 (NG6)

#### **DIMENSIONS**



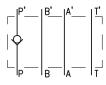




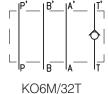
# **SYMBOL**



KO6M/32PT



KO6M/32P



# **ORDERING CODE**

KO

6

Check valve
Nominal bore 6mm.

Modular mounting

Rated pressure:

Function

up to 320 bar.-**32** 

M

- at line P to P' - P - at line T' to T - T

32 \*\*\*

- at line P to P'&T' to T - PT

# **TECHNICAL DATA**

Weight	0,800 kg
Max. Pressure	320 bar
Rated flow (∆p=5 bar.)	30 l/min
Cracking pressure	0,5 bar

Working liquid-hydraulic oils with characteristics:

-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KO6M-1-June 2012

# **CHECK VALVE**

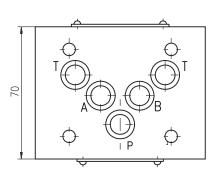
KO10M/32...

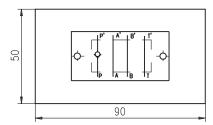
List: KO10M-1-June 2012

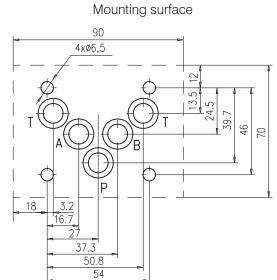
#### **DESCRIPTION**

- ✓ Check valves for modular mounting-KO10M/32...
- ✓ Check valves give leak free closure in one direction and allow free passing in the other.
- ✓ Mounting surface CETOP5 (NG10)

#### **DIMENSIONS**

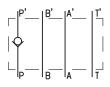




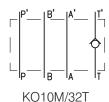


# **SYMBOL**

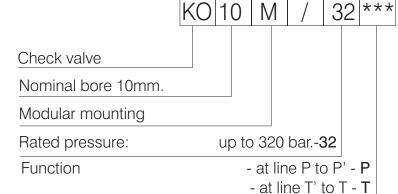
KO10M/32PT



KO10M/32P



# **ORDERING CODE**



#### **TECHNICAL DATA**

- at line P to P'&T' to T - PT

Weight	2,300 kg
Max. Pressure	320 bar
Rated flow (∆p=5 bar.)	40 l/min
Cracking pressure	0,8 bar

Working liquid-hydraulic oils with characteristics:

-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KO10M-1-June 2012

# PILOT OPERATED CHECK VALVE

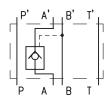
KOHU6M/32-..

List: KOHU6M-1-June 2012

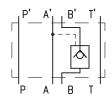
#### **DESCRIPTION**

- ✓ Check valves with hydraulic operation for modular mounting-KOHU6M/32-...
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (A' to A, B' to B) and at availability of control signal in the opposite direction (A to A', B to B'). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. Provides their stability under load at neutral position of the directional control valve.
- ✓ Mounting surface CETOP3 (NG6)

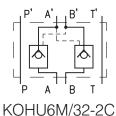
# **SYMBOL**



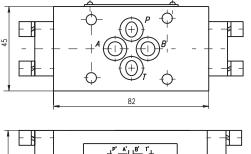
KOHU6M/32-2A

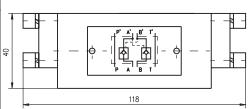


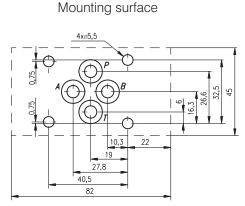
KOHU6M/32-2B



#### **DIMENSIONS**







32

#### **ORDERING CODE**

M

Check valve with hydraulic operation

Nominal bore 6mm.

Modular mounting

Rated pressure: up to 320 bar.-32

KOHU

Modification

Valve position:

at line A - A at line B - B

\*\*\*

at line A and B - C

#### TECHNICAL DATA

Max. Pressure	320 bar
Rated flow ( $\Delta p=2,5$ bar.)	20 l/min
Cracking pressure (for check valve)	0,4 bar
Pilot ratio	1/8

Working liquid-hydraulic oils with characteristics:

ig liquid-riyuradile olis with characteristics.	
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KOHU6M-1-June 2012

# PILOT OPERATED CHECK VALVE

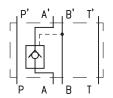
KOHU10M/32-.

List: KOHU10M-1-June 2012

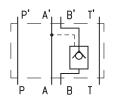
#### **DESCRIPTION**

- ✓ Check valves with hydraulic operation for modular mounting-KOHU10M/32-...
- ✓ Hydraulically operated check valve is designed to allow working liquid passing inone direction freely (A' to A, B' to B) and at availability of control signal in the opposite direction (A to A', B to B'). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. Provids their stability under load at neutral position of the directional control valve.
- ✓ Mounting surface CETOP5 (NG10)

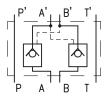
# **SYMBOL**



KOHU10M/32-2A

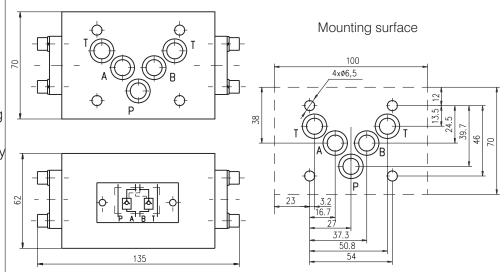


KOHU10M/32-2B

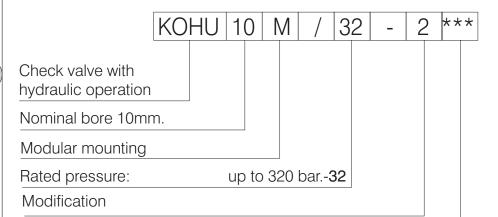


KOHU10M/32-2C

#### **DIMENSIONS**



# **ORDERING CODE**



Valve position:

#### **TECHNICAL DATA**

Max. Pressure	320 bar
Rated flow ( $\Delta p=2,5$ bar.)	40 l/min
Cracking pressure (for check valve)	0,5 bar
Pilot ratio	1/16
Working liquid-hydraulic oils with characteristics:	
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

We reserve the right to change specifications without notice.

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KOHU10M-1-June 2012

at line A - A at line B - B

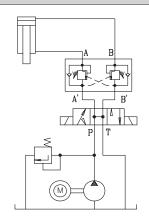
at line A and B - C

List: OWC6M-1-June 2012

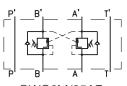
#### **DESCRIPTION**

- ✓ "OVERCENTER" valves with internal pilot operation for modular mounting-OWC6M/25...
- ✓ The "OVERCENTER" valves are designed to control moving loads and to prevent loads from running ahead of pump. They lock the load in any position without drift and protect of overloading and thermal expansion by open center control valves.
- ✓ Mounting surface CETOP3 (NG6)

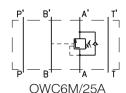
#### **APPLICATIONS**

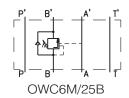


#### **SYMBOL**



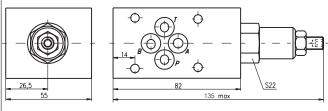
OWC6M/25AB



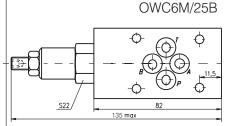


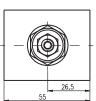
#### **DIMENSIONS**

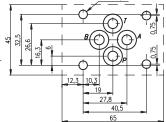
#### OWC6M/25A



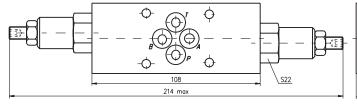
#### Mounting surface

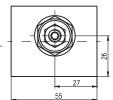






#### OWC6M/25AB





# **ORDERING CODE**

OWC 6 M / 25 \*\*\*

OVERCENTER

Nominal bore 6mm

Modular mounting

Rated pressure Valve position:

up to 250 bar.

at line A - **A** at line B - **B** 

at line A&B - AB

# TECHNICAL DATA

Rated pressure		250 bar
Pressure adjustment range		40250 bar.
Rated flow	for all types	20 l/min
Pilot ratio		4/1
Working liquid-hydraulic oils with char	acteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C

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OWC6M-1-June 2012

#### OVERCENTER VALVE WITH INTERNAL PILOT OPERATION

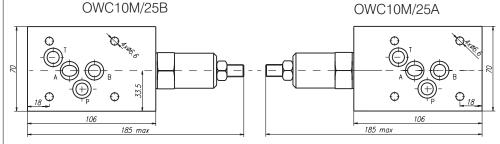
OWC10M/25-..

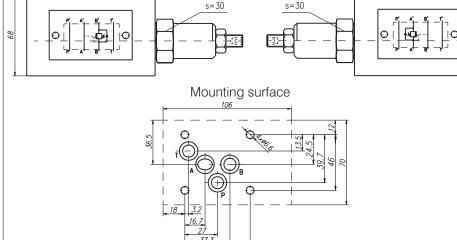
List: OWC10M-1-June 2012

#### **DESCRIPTION**

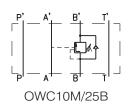
- ✓ "OVERCENTER" valves with internal pilot operation for modular mounting-OWC10M/25...
- ✓ The "OVERCENTER" valves are designed to control moving loads and to prevent loads from running ahead of pump. They lock the load in any position without drift and protect of overloading and thermal expansion by open center control valves.
- ✓ Mounting surface CETOP5 (NG10)

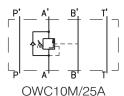
#### **DIMENSIONS**



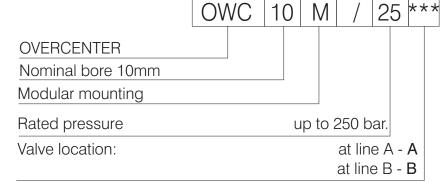


#### **SYMBOL**





# **ORDERING CODE**



#### TECHNICAL DATA

Rated pressure		250 bar
Pressure adjustment range		20250 bar
Rated flow	for all types	80 I/min
Pilot ratio	for all types	4,2/1
Working liquid-hydraulic oils with characteristics:		
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C

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OWC10M-1-June 2012

#### THROTTLE CHECK VALVE

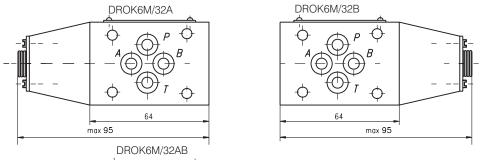
DROK6M/32-..

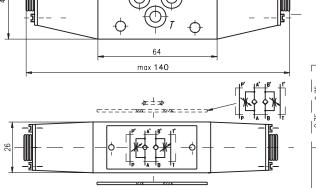
List: DROK6M-1-June 2012

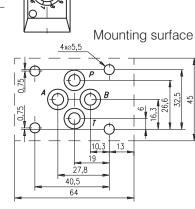
#### **DESCRIPTION**

- ✓ Adjustable throttles with check valves for modular mounting-DROK6M/32-...
- ✓ The throttle check valves limit the flow by adjustable throttling spool at one direction, and allow free return passing through the other.
- ✓ Mounting surface CETOP3 (NG6)

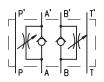
# **DIMENSIONS**



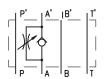




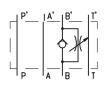
# **SYMBOL**



DROK6M/32AB



DROK6M/32A



DROK6M/32B

# **ORDERING CODE**

DROK 6 M / 32 \*\*
Adjustable throttle with

check valve

Nominal bore 6mm.

Modular mounting

Rated pressure: up to 320 bar.-32

Valve location:

at line A - A at line B - B

at line A and B - AB

#### **TECHNICAL DATA**

Weight	DROK6M/32A and DROK6M/32A	0,650 kg
	DROK6M32/AB	0,810 kg
Max. Pressure		320 bar
Rated flow (∆p=3,5 bar.)		20 l/min
Cracking pressure (for check valve)		0,2 bar
Working liquid-hydraulic oils with characteristics:		
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C

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DROK6M-1-June 2012

#### THROTTLE CHECK VALVE

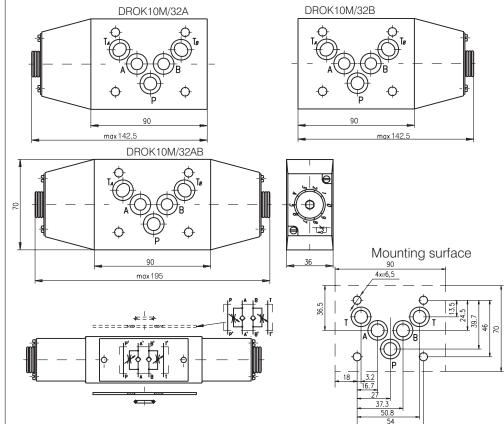
DROK10M/32-..

List: DROK10M-1-June 2012

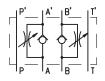
#### **DESCRIPTION**

- ✓ Adjustable throttles with check valves for modular mounting-DROK10M/32-...
- ✓ The throttle check valves limit the flow by adjustable throttling spool at one direction, and allow free return passing on the other.
- ✓ Mounting surface CETOP5 (NG10)

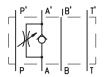
#### **DIMENSIONS**



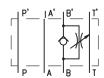
#### **SYMBOL**



DROK10M/32AB



DROK10M/32A



DROK10M/32B

# **ORDERING CODE**

Adjustable throttle with check valve
Nominal bore 10mm.
Modular mounting
Rated pressure: up to 320 bar.-32

Valve location:

at line A - A at line B - B

\*\*\*

at line A and B - AB

#### **TECHNICAL DATA**

Weight	DROK10M/32A and DROK10M/32B	2,100 kg
	DROK10M32/AB	2,500 kg
Max. Pressure		320 bar
Rated flow (∆p=2,5 bar.)		40 l/min
Cracking pressure (for check valve)		0,2 bar
Working liquid-hydraulic oils with characteristics:		
-viscosity		10400 cSt
-degree of filtration		0,025 mm

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DROK10M-1-June 2012

-20...+80°C

-temperature

# ADJUSTABLE THROTTLE

DR6M/32...

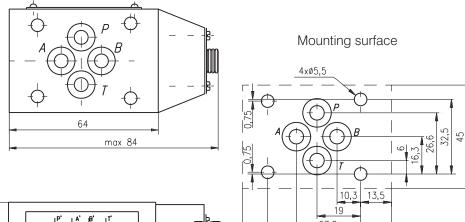
List: DR6M-1-June 2012

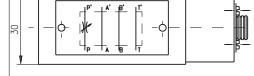
#### **DESCRIPTION**

# ✓ Adjustable throttles for modular mounting-DR6M/32...

- ✓ The valve throttles , or completely stops the flow in any direction, so creating resistance to flow regulation and support in the hydraulic system.
- ✓ Mounting surface CETOP3 (NG6)

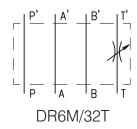
#### **DIMENSIONS**

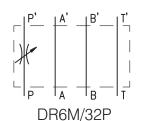


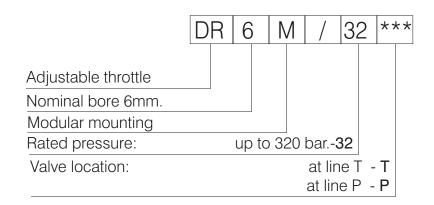


#### **SYMBOL**

# **ORDERING CODE**







#### Weight DR6M/32T 0,710 kg DR6M/32P 0,710 kg Max. Pressure 320 bar Rated flow ( $\Delta p = 2.5$ bar.) 20 I/min Working liquid-hydraulic oils with characteristics:

**TECHNICAL DATA** 

-viscosity 10...400 cSt -degree of filtration 0,025 mm -temperature -20...+80°C

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DR6M-1-June 2012

# **ADJUSTABLE THROTTLE**

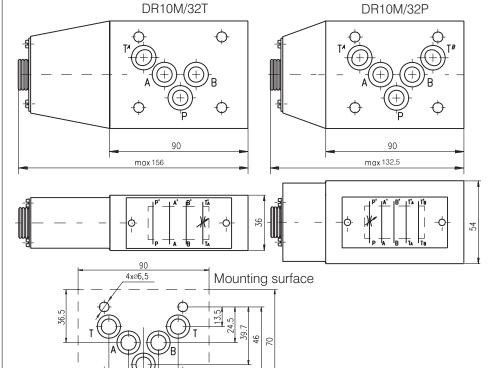
DR10M/32...

List: DR10M-1-June 2012

#### **DESCRIPTION**

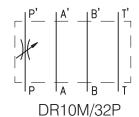
- ✓ Adjustable throttles with for modular mounting-DR10M/32...
- ✓ The valve throttles, or completely stops the flow in any direction, so creating resistance to flow regulation and support in the hydraulic system.
- ✓ Mounting surface CETOP5 (NG10)

# **DIMENSIONS**

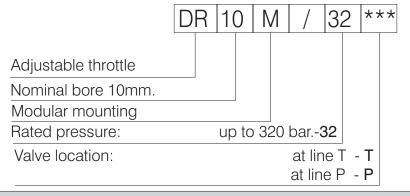


# **SYMBOL**

# $\begin{bmatrix} P' & A' & B' & T' \\ P & A & B & T \end{bmatrix}$ DR10M/32T



# **ORDERING CODE**



#### **TECHNICAL DATA**

Weight DR10M/32T	2,200 kg	
DR10M/32P	2,850 kg	
Max. Pressure	320 bar	
Rated flow ( $\Delta p=2,5$ bar.)	40 l/min	
Working liquid-hydraulic oils with characteristics:		
-viscosity	10400 cSt	
-degree of filtration	0,025 mm	
-temperature	-20+80°C	

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DR10M-1-June 2012

# FLOW CONTROL VALVE

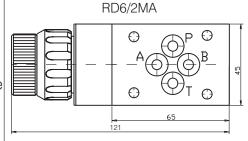
RD6/2M...

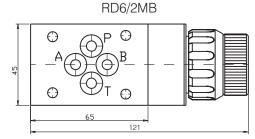
List: RD6/2M-1-June 2012

#### **DESCRIPTION**

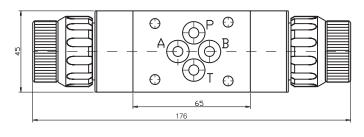
- ✓ Flow control valves for modular mounting-RD6/2M...
- ✓ The flow control valves are designed to regulate the flow rate in the hydraulic system, independently of the inlet flow and pressure variations in it.
- ✓ Flow Control Valve with solenoid controlled check valve (channel A or channel B) ensures two different speeds of movement.
- ✓ Mounting surface CETOP3 (NG6)

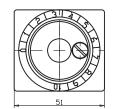
# **DIMENSIONS**

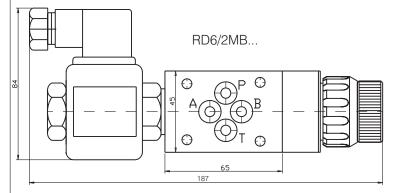


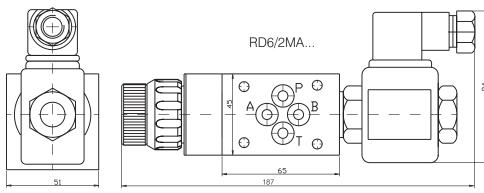


#### RD6/2MAB

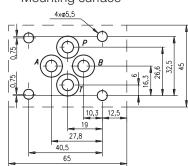








Mounting surface



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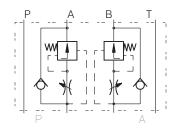
RD6/2M-1-June 2012

# FLOW CONTROL VALVE

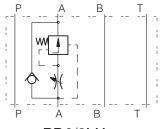
RD6/2M...

\*\*\* \*\*\*

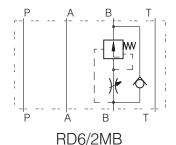
# **SYMBOL**



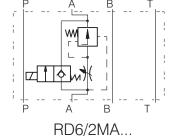
RD6/2MAB



RD6/2MA



RD6/2MB...



#### **ORDERING CODE**

RD

Flow control valve

Nominal bore 6mm.

2 - way valve

Modular mounting

Valve position:

at line A - A at line B - B

at line A&B - AB

Solenoid operated check valve:

- without check valve - omit

-operated voltage 12VDC - 1

-operated voltage 24VDC - 2

-operated voltage 110VAC - 3 -operated voltage 220VAC - 4

#### **TECHNICAL DATA**

Weight	RD6/2MAB	1,825 kg
	RD6/2MA & RD6/2MB	1,485 kg
F	RD6/2MA&D6/2MB	1,885 kg
Max. Pressure		320 bar
	with solenoid valve	250 bar
Rated flow ( $\Delta p=2,5$ bar.)		10 l/min
Minimum flow		0,06 l/min
Working liquid-hydraulic oils	with characteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C

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RD6/2M-1-June 2012