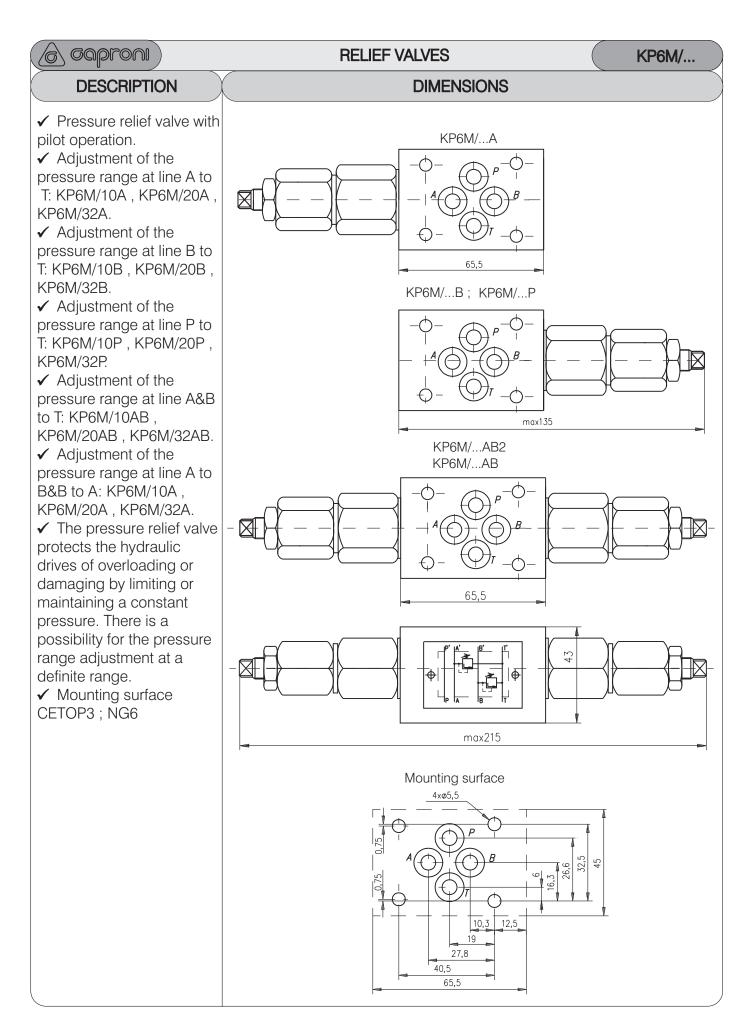
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KP10M/	
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Unloading relief valves:	
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Pressure reducing valves:	
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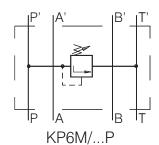


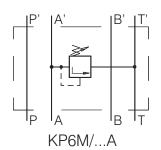


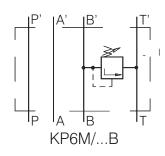
RELIEF VALVES

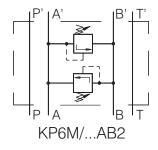
KP6M/...

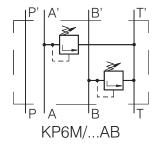
SYMBOL



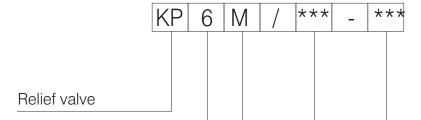








ORDERING CODE



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

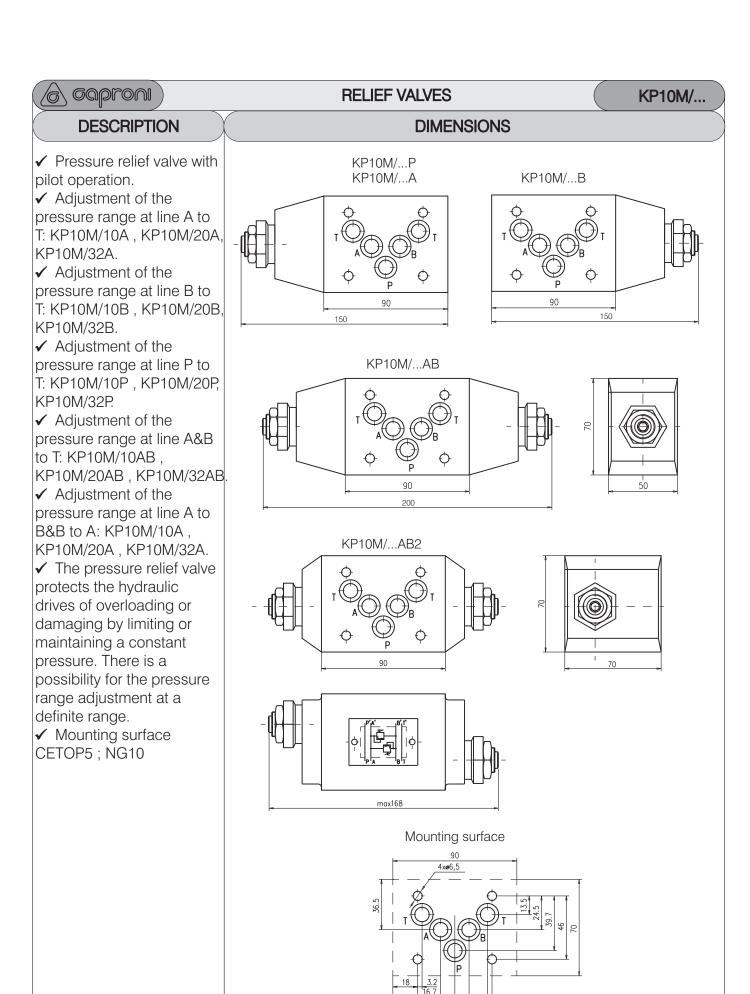
at line B to T - B

at line P to T - P

at line A and B to T - AB

at line A to B & at B to A - AB2

with one relief valve	1,150kg
with two relief valves	1,400 kg
p=2,5 bar.)	20 l/min
Adjustment of pres	ssure range:
P6M/10A, KP6M/10B,	<u> </u>
KP6M10AB2	5100 bar
P6M/20A , KP6M/20B ,	
M/20AB, KP6M20AB2 15200 bar	
P6M/32A , KP6M/32B ,	
KP6M32AB2	20300 bar
Vorking liquid-hydraulic oi	ls with characteristics:
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C
	with two relief valves p=2,5 bar.) Adjustment of pres P6M/10A , KP6M/10B , KP6M10AB2 P6M/20A , KP6M/20B , KP6M20AB2 P6M/32A , KP6M/32B , KP6M32AB2 Vorking liquid-hydraulic oi -viscosity -degree of filtration

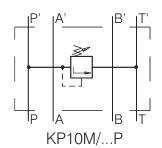


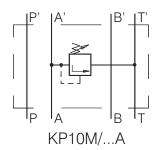


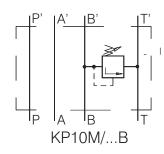
RELIEF VALVES

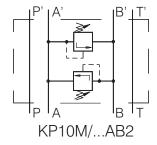
KP10M/...

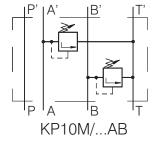
SYMBOL











ORDERING CODE



Relief valve

Nominal bore 10mm.

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

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



RELIEF VALVES-PREFILL TYPE

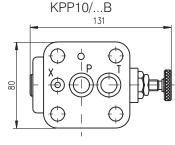
KPP...10/...

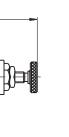
DESCRIPTION

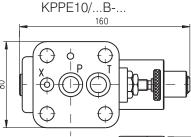
- ✓ Pressure relief valvesprefill type for plate mounting-KPP10/...B, KPPE10/...B-...
- ✓ Pressure relief valvesprefill type for pipe and plate mounting with pilot operation-KPP10/...B, KPP...10/...TB(G).
- ✓ Pressure relief valvesprefill type for pipe and plate mounting with pilot solenoid operation - KPPE10/...B-..., KPPE...10/...TB(G)-...
- ✓ The pressure relief valve protects the hydraulic drives of overloading or damaging by limiting or maintaining a constant pressure. There is a possibility for pressure range adjustment and they allow such an action even during work.

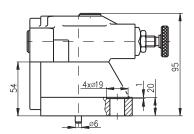
The unloading relief valve can be used when the system pressure is required to be automatically unloaded at reaching the adjusted pressure.

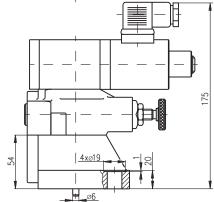
DIMENSIONS

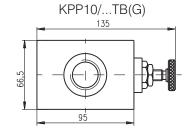


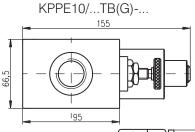


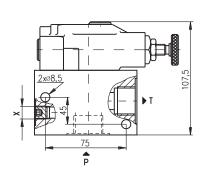


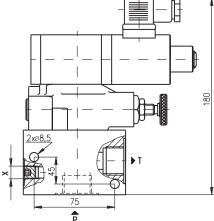


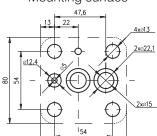














RELIEF VALVES-PREFILL TYPE

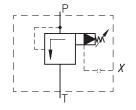
KPP...10/...

*** ***

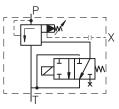
SYMBOL

ORDERING CODE

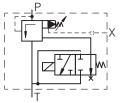
10



KPP10/...B KPP10/...TB



KPPE10/...B-NO KPPE10/...TB-NO (normally open)



KPPE10/...B-NZ KPPE10/...TB-NZ (normally closed)

Relief valve prefill type	
Type of control:	ı
pilot operated	-omit
pilot solenoid operat	ed -E

Nominal bore 10mm.

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

up to 320 bar.-32

for plate mounting Modification: -B for pipe mounting(metric threads M27x1,5 for P & T line and M12x1,5 for X line) for pipe mounting(GAS threads G3/4" for P&T line and G1/4" for X line -TB(G)

Type of control valve:

solenoid valve normally open -NO solenoid valve normally closed -NZ

Supply voltage 12VDC -12 24VDC -24 110VAC -110 220VAC -220

TECHNICAL DATA

Weight KPP10/ KPPE10/E	4,600 kg
KPP10/	TB 4,490 kg
KPPE10/TE	6,200 kg
Max. pressure	320 bar
Rated flow (∆p=2,5 bar.)	160 l/min
Adjustment of press	ure range:
KPP10/10B, KPP10/10TB(G)	4100 bar
KPP10/20B, KPP10/20TB(G)	10200 bar
KPP10/32B, KPP10/32TB(G)	20320 bar
KPPE10/10B, KPPE10/10TB(G)	4100 bar
KPPE10/20B, KPPE10/20TB(G)	10200 bar
KPPE10/32B, KPPE10/32TB(G)	20320 bar
Working liquid-hydraulic oils with cha	racteristics:

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

caproni

UNLOADING RELIEF VALVES

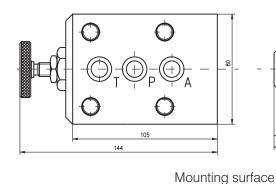
KPR-10/...P

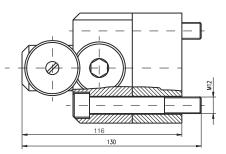
DESCRIPTION

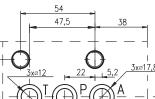
- ✓ Unloading relief valves for plate mounting-KPR-10/...P
- ✓ Unloading relief valves are designed to switch on or switch off automatically the pump in the hydraulic system, depending on the pressure range at the pressure line (at the point after the check valve).

DIMENSIONS

KPR10/...P

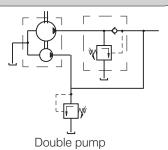


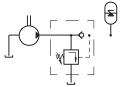




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APPLICATIONS





Single pump / accumulator system

ORDERING CODE

KPR

Unloading relief valve

Nominal bore 10mm.

Rated pressure: up to 63 bar.-6,3

up to 160 bar.-16

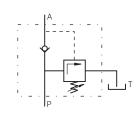
10

Ρ

Valve position - at line P

SYMBOL

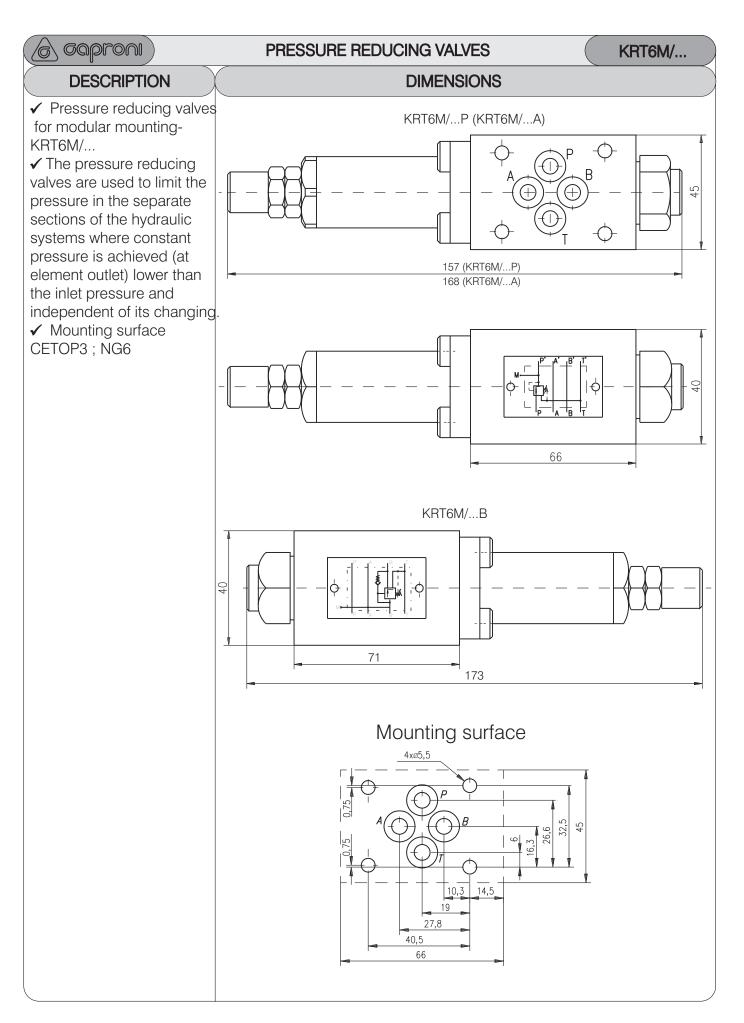
TECHNICAL DATA



Weight		5,440 kg
Max. unloading pressure	KPR-10/6,3P	63 bar
	KPR-10/16P	160 bar
Rated flow ($\Delta p = 2.5$ bar.)		40 l/min

Working liquid-hydraulic oils with characteristics:

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





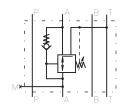
PRESSURE REDUCING VALVES

KRT6M/...

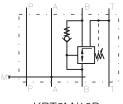
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SYMBOL

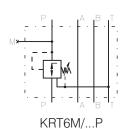
ORDERING CODE



KRT6M/10A



KRT6M/10B



Pressure reducing valve

Nominal bore 6mm.

Modular mounting

Rated pressure: up to 16 bar.-1,6 up to 100 bar.-10

KRT 6

M

Function -

at line P to P' - P

at line A' to A - A

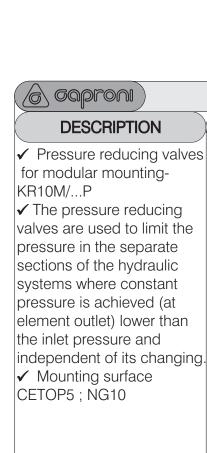
at line B' to B - B

TECHNICAL DATA

Weight		1,165 kg
Max. Pressure		100 bar
Rated flow ($\Delta p=2,5$ bar.)		20 l/min
	Adjustment of pres	ssure reducing range:
KRT6M/10P	Pr(P to P')	10100 bar
	Pr(P to T)	20100 bar
KRT6M/1,6P	Pr(to P')	0,816 bar
	Pr(P to T)	316 bar
KRT6M/10A	Pr(A' to A)	10100 bar
	Pr(A to T)	20100 bar
KRT6M/10B	Pr(B' to B)	10100 bar
	Pr(B to T)	20100 bar

Working liquid-hydraulic oils with characteristics:

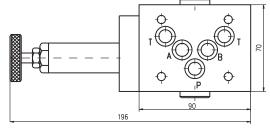
-viscosity 10...400 cSt -degree of filtration 0,025 mm -temperature -20...+80°C

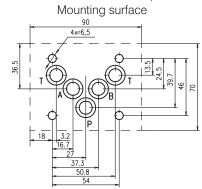


PRESSURE REDUCING VALVES

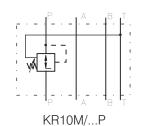
KR10M/...P

DIMENSIONS





SYMBOL



ORDERING CODE

KR

10

M

Pressure reducing valve

Nominal bore 10mm.

Modular mounting

Rated pressure: up to 100 bar.-10

up to 200 bar.-20

up to 200 bar.-32

- at line P to P'-P Function

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



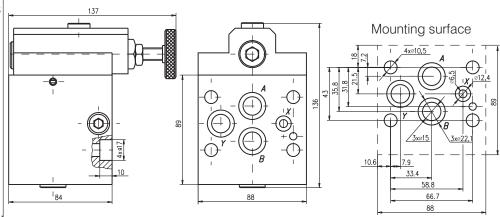
PRESSURE REDUCING VALVES

KRT10P/...

DESCRIPTION

- ✓ Pressure reducing valves for plate mounting-KRT10/...
- ✓ 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.

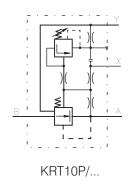
DIMENSIONS



SYMBOL

ORDERING CODE

KRT 10



Pressure reducing valve

Nominal bore 10mm.

Plate mounting

Rated pressure:

up to 100 bar.-10 up to 200 bar.-20

P

up to 320 bar.-**32**

TECHNICAL DATA

Weight	5,470 kg
Max. Pressure	320 bar
Rated flow (∆p=2,5 bar.)	60 l/min
Adjustment of pressure redu	cing range:
KRT10P/10 Pr(A>Y)	12100
Pr(B>A)	8100
KRT10P/20 Pr(A>Y)	15200
Pr(B>A)	8200
KRT10P/32 Pr(A>Y)	18320
Pr(B>A)	8320
Marking liquid by draulia aila with abaracteriation:	

Working liquid-hydraulic oils with characteristics:

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



Gaproni **CHECK VALVES** KO6M/32... **DESCRIPTION DIMENSIONS** ✓ Check valves for modular mounting-KO6M/32... ✓ Check valves give leak free closure in one direction Mounting surface and allow free passing in the 4xØ5,5 45 ✓ Mounting surface CETOP3; NG6 45 10,3 11,7 19 40 $| \bigcirc$ 27,8 40,5 64 **SYMBOL** ORDERING CODE 32 *** KO 6 M Check valve Nominal bore 6mm. KO6M/32PT Modular mounting up to 320 bar.-32 Rated pressure: - at line P to P' - P Function - at line T' to T - T KO6M/32P - at line P to P'&T' to T - PT **TECHNICAL DATA** Weight 0,800 kg Max. Pressure 320 bar Rated flow ($\Delta p = 5$ bar.) 20 I/min KO6M/32T Cracking pressure 0,5 bar



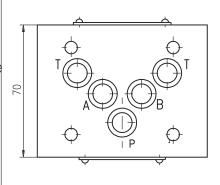
CHECK VALVES

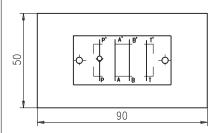
KO10M/32...

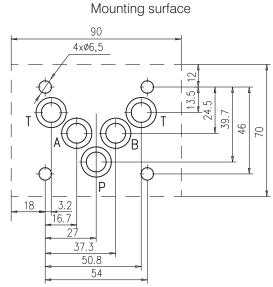
DESCRIPTION

- ✓ 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

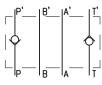
DIMENSIONS



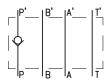




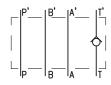
SYMBOL



KO10M/32PT



KO10M/32P



KO10M/32T

ORDERING CODE

KO 10

Check valve Nominal bore 10mm.

Modular mounting

Rated pressure:

Function

up to 320 bar.-32

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

32 ***

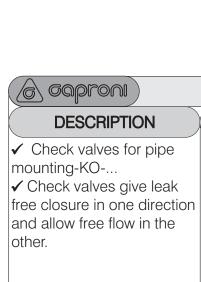
- at line P to P'&T' to T - PT

TECHNICAL DATA

Weight	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:

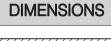
-viscosity 10...400 cSt -degree of filtration 0,025 mm -temperature -20...+80°C

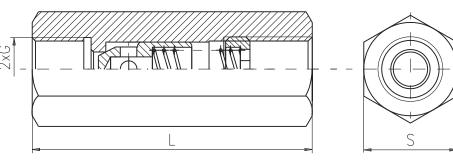


CHECK VALVES

KO-...

-20...+80°C

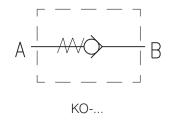


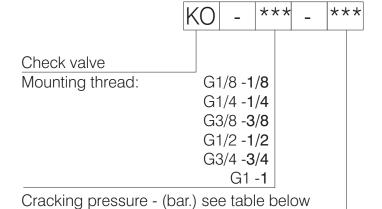


G	1/8	1/4	3/8	1/2	3/4	1
L(mm)	38	56	65	68	80	100
S(mm)	14	19	24	27	36	46

SYMBOL

ORDERING CODE





TECHNICAL DATA

Max. Pressure		320 bar
Rated flow (∆p=5 bar.)	-1/8	10 l/min
	-1/4	20 I/min
	-3/8	40 l/min
	-1/2	60 l/min
	-3/4	90 l/min
	-1	120 l/min
Cracking pressure	-1/8	1 bar
	-1/4	1 bar
	-3/8	0,5 bar
	-1/2	0,6 bar
	-3/4	0,4 bar
	-1	1,2 bar
Working liquid-hydraulic oils with cha	aracteristics	
-viscosity		10400 cSt
-degree of filtration	า	0,025 mm
		0000

-temperature

Gaproni

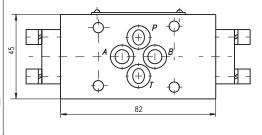
PILOT OPERATED CHECK VALVES

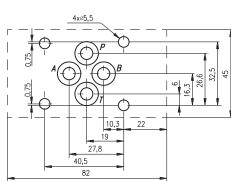
KOHU6M/32-.

DESCRIPTION

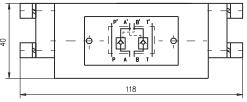
- ✓ Check valves with hydraulic operation for modular mounting-KOHU6M/32-...
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (A' to A , B' to B) and at availability of control signal in the opposite direction (A to A', B to B'). The valve ensures 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

DIMENSIONS

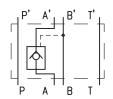




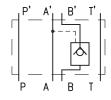
Mounting surface



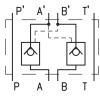
SYMBOL



KOHU6M/32-2A



KOHU6M/32-2B



KOHU6M/32-2C

ORDERING CODE



Nominal bore 6mm.

Modular mounting

Rated pressure: up to 320 bar.-32

Modification

Valve position:

at line A - A at line B - B

at line A and B - C

Max. Pressure	320 bar
Rated flow ($\Delta p=2,5$ bar.)	20 I/min
Cracking pressure (for check valve)	0,7 bar
Area ratio A1/A2(check valve/piston)	1/2
Working liquid-hydraulic oils with characteristics:	
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

@ caproni

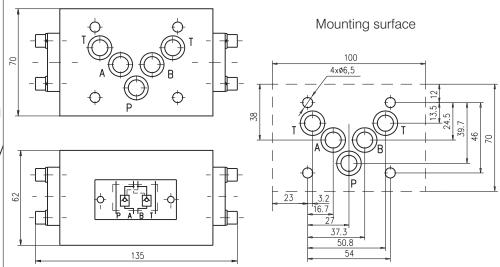
PILOT OPERATED CHECK VALVES

KOHU10M/32-.

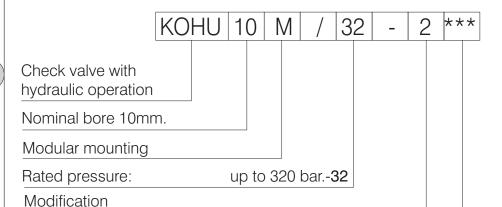
DESCRIPTION

- ✓ 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

DIMENSIONS



ORDERING CODE

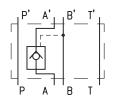


Valve position:

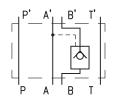
at line A - A at line B - B

at line A and B - C

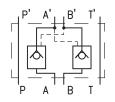
SYMBOL



KOHU10M/32-2A



KOHU10M/32-2B



KOHU10M/32-2C

Max. Pressure	320 bar
Rated flow ($\Delta p=2,5$ bar.)	40 l/min
Cracking pressure (for check valve)	0,5 bar
Area ratio A1/A2(check valve/piston)	1/2
Working liquid-hydraulic oils with characteristics:	
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C



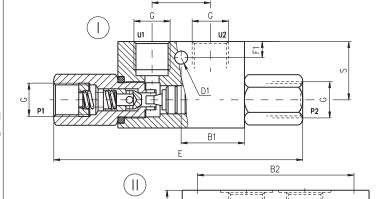
PILOT OPERATED CHECK VALVES

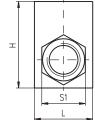
KOHU...

DESCRIPTION

- ✓ Check valves with hydraulic operation for pipe mounting-KOHU...
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (U₁ to P₁, U₂ to P₂) and at availability of control signal in the opposite direction (P₁ to U₁, P₂ to U₂). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. Providing their stability under load at neutral position of the directional control valve.

DIMENSIONS

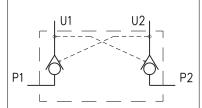






LITPE	rig.						mm							
KOHU 1/4	I	29	31,5		6,5		127	8		G1/4	43	29	29	22
KOHU 3/8	I	29	31,5		6,5		127	8		G3/8	43	29	29	22
KOHU 1/2	II	40		75		8,5	174		17	G1/2	60	39	40	32
KOHU 1/4-K1	I	29	31,5		6,5		106	8		G1/4	43	29	29	22
KOHU 3/8-L	I	38	40		6,5		128	8		G3/8	40	29	26	24

SYMBOL



ORDERING CODE

KOHU

Check valve with hydraulic operation

Connecting threads: G1/4 - 1/4

G3/8 - **3/8**

G1/2 - 1/2

Modification: normal version - omit

K1

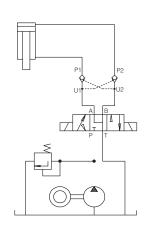
320 bar

-20...+80°C

see table of dimensions

Max. Pressure

APPLICATIONS



TECHNICAL DATA

KOHU1/4	12 l/min						
KOHU3/8	20 l/min						
KOHU1/2	45 l/min						
KOHU1/4-K1	12 l/min						
KOHU3/8-L	20 I/min						
for all types	0,5 bar						
for all types	1/4						
Working liquid-hydraulic oils with characteristics:							
	10400 cSt						
	0,025 mm						
	KOHU3/8 KOHU1/2 KOHU1/4-K1 KOHU3/8-L for all types for all types						

-temperature



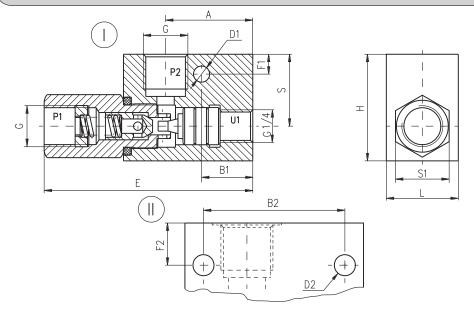
PILOT OPERATED CHECK VALVES

KOHU...-S

DESCRIPTION

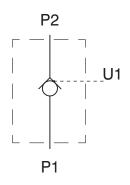
- ✓ Check valves with hydraulic operation for pipe mounting-KOHU...-S
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (P₂to P₁) and at availability of control signal in the opposite direction (P₁to P₂). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. providing their stability under load at neutral position of the directional control valve.

DIMENSIONS

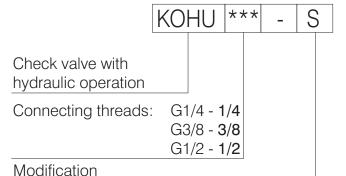


TYPE	fig.	Α	B1	В2	С	D1	D2	Е	F1	F2	G	Н	L	S	S1
1117	ng.		mm												
KOHU 1/4-S	I	37	22,5		15	ø6,5		86	8		G1/4	43	29	29	22
KOHU 3/8-S	I	37	22,5		15	ø6,5		86	8		G3/8	43	29	29	22
KOHU 1/2-S	II	47		57	24		ø8,5	114		17	G1/2	60	39	40	32

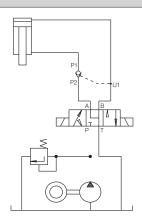
SYMBOL



ORDERING CODE



APPLICATIONS



Max. Pressure		320 bar
Rated flow	KOHU1/4-S	12 l/min
	KOHU3/8-S	20 l/min
	KOHU1/2-S	45 l/min
Cracking pressure (for check valve)	for all types	0,5 bar
Area ratio A1/A2(check valve/piston)	for all types	1/4
Working liquid-hydraulic oils with cha	aracteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C

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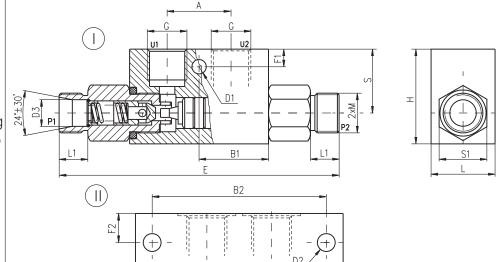
PILOT OPERATED CHECK VALVES

KOHU...-E...

DESCRIPTION

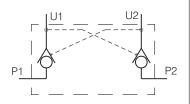
- ✓ Check valves with hydraulic operation for pipe mounting-KOHU...-E...
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (U₁ to P₁, U₂ to P₂) and at availability of control signal in the opposite direction (P₁ to U₁, P₂ to U₂). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. Providing their stability under load at neutral position of the directional control valve.

DIMENSIONS

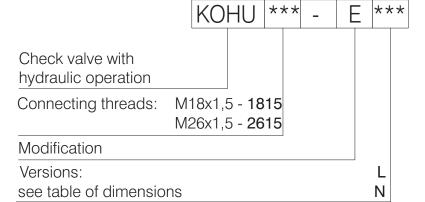


TYPE	fig.	Α	B1	B2	D1	D2	D3	F1	F2	L	L1	G	М	Н	S	S1	Ε
TIFE	ng.		mm														
K0HU1815-E	I	29	31,5		ø6,5		ø12	8		30	13	G3/8"	M18x1,5	43	29	24	130
KOHU1815-EL	I	38	40		M8x20		ø12	8		30	13	G3/8"	M18x1,5	40	26	24	130
KOHU1815-EN	I	29	31,5		ø6,5		ø12	8		30	13	G3/8"	M18x1,5	43	29	24	130
K0HU2615-E	II	40		75		ø8,5	ø18		17	40	14	G1/2"	M26x1,5	60	40	32	174

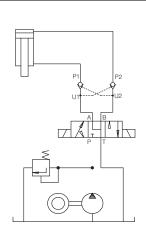
SYMBOL



ORDERING CODE



APPLICATIONS



Max. Pressure		320 Dar						
Rated flow	w KOHU1815-E							
K	KOHU1815-EL							
KC	30 I/min							
<u> </u>	KOHU2615-E	45 l/min						
Cracking pressure (for check valve)	for all types	0,5 bar						
Area ratio A1/A2(check valve/piston)	for all types	1/4						
Working liquid-hydraulic oils with cha	racteristics:							
-viscosity		10400 cSt						
-degree of filtration		0,025 mm						
-temperature		-20+80°C						



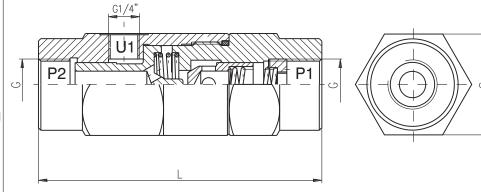
PILOT OPERATED CHECK VALVES

KOHU...-SA

DESCRIPTION

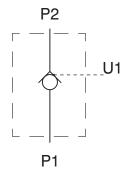
- ✓ Check valves with hydraulic operation for pipe mounting-KOHU...-SA
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (P2 to P₁), and at availability of control signal in the opposite direction (P_1 to P_2). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. providing their stability under load at neutral position of the directional control valve.

DIMENSIONS



TYPF	G	S	L
'''		rr	ım
KOHU 1/4-SA	G1/4"	36	98
KOHU 3/8-SA	G3/8"	40	106
KOHU 1/2-SA			118

SYMBOL



ORDERING CODE

KOHU

Check valve with hydraulic operation

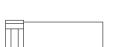
Connecting threads: G1/4 - 1/4

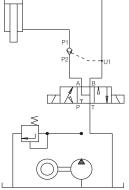
G3/8 - 3/8

G1/2 - 1/2

Modification

APPLICATIONS





TECHNICAL DATA

Max. Pressure		320 bar
Rated flow	KOHU1/4-SA	12 l/min
	KOHU3/8-SA	20 l/min
	KOHU1/2-SA	45 l/min
Cracking pressure (for check valve)	for all types	0,5 bar
Area ratio A1/A2(check valve/piston)	KOHU1/4-SA	1/7
	KOHU3/8-SA	1/6
	KOHU1/2-SA	1/5
Working liquid-hydraulic oils with ch	aracteristics:	

-viscosity

-degree of filtration

-temperature

10...400 cSt 0,025 mm

SA

-20...+80°C



PILOT OPERATED CHECK VALVES

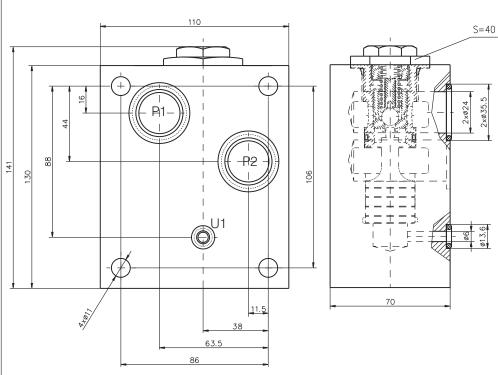
KOHU16P

320 bar

DESCRIPTION

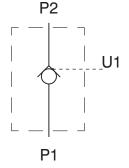
- ✓ Check valves with hydraulic operation for plate mounting-KOHU16P
- ✓ Hydraulically operated check valve is designed to allow working liquid passing in one direction freely (P₂ to P₁), and at availability of control signal in the opposite direction (P₁to P₂). The valve ensures hydraulic "locking" of the hydraulic cylinders, i.e. providing their stability under load at neutral position of the directional control valve.

DIMENSIONS



SYMBOL

....



ORDERING CODE

KOHU 16

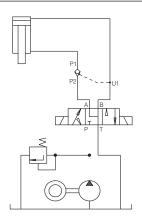
Check valve with hydraulic operation

Nominal bore-16 mm

Pipe mounting

Max. Pressure

APPLICATIONS



Rated flow	160 l/min
Cracking pressure (for check valve)	0,8 bar
Area ratio A1/A2(check valve/piston)	1/1,5
Working liquid-hydraulic oils with characteristics:	
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20 +80°C



"OVERCENTER" VALVES WITH INTERNAL PILOT OPERATION

OWC-...E/L...

mm

56

65 13,5

65 13,5

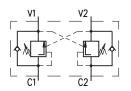
38

30 56 9

DESCRIPTION

- ✓ "OVERCENTER" valves with internal pilot operation for pipe mounting-OWC-...E/L...
- ✓ The "OVERCENTER" valves are designed to control moving loads and to prevent loads from running ahead of pump. They lock the load at any position without drift and protect of overloading and thermal expansion by open center control valves.

SYMBOL

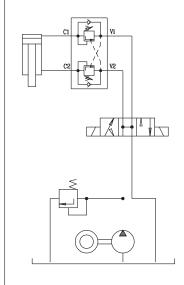


OWC-DE/L...

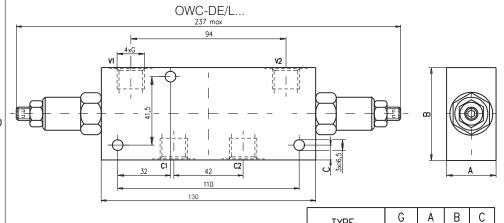


OWC-SE/L...

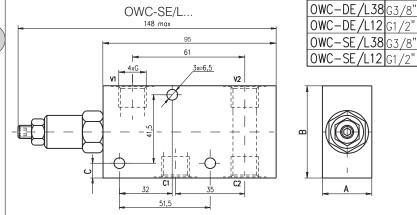
APPLICATIONS



DIMENSIONS



TYPE



ORDERING CODE



	40250 bar							
for all types	35 l/min							
for all types	4/1							
Working liquid-hydraulic oils with characteristics:								
	10400 cSt							
	0,025 mm							
	-20+80°C							
	for all types							

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"OVERCENTER" VALVES WITH INTERNAL PILOT OPERATION

OWC6M/25...

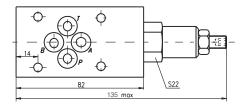
DESCRIPTION

- ✓ "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

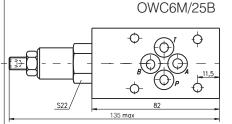
DIMENSIONS

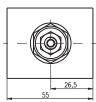
OWC6M/25A

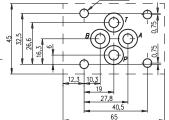




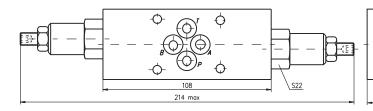
Mounting surface



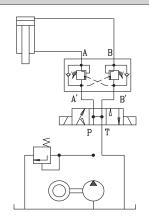




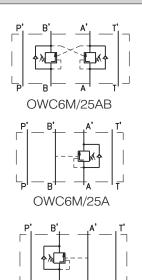
OWC6M/25AB



APPLICATIONS



SYMBOL



OWC6M/25B

ORDERING CODE

OWC 6 M / 25 ***

"OVERCENTER"

Nominal bore 6mm

Modular mounting

Rated pressure up to 250 bar.

Valve position:

at line A - A at line B - B

at line A&B - AB

Rated pressure		40250 bar
Rated flow	for all types	20 l/min
Pressure ratio P _w /P _P (work/pilot)	for all types	4/1
Working liquid-hydraulic oils with ch	naracteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C



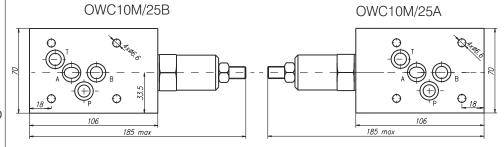
"OVERCENTER" VALVES WITH INTERNAL PILOT OPERATION

OWC10M/25..

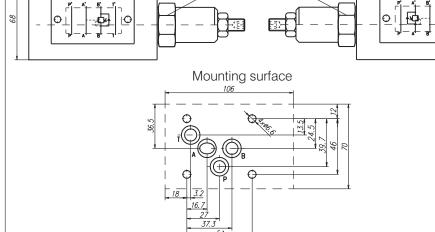
DESCRIPTION

- ✓ "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

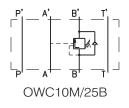


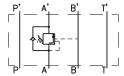
s = 30



s = 30

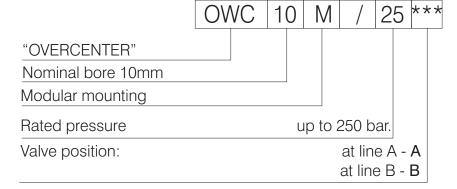
SYMBOL



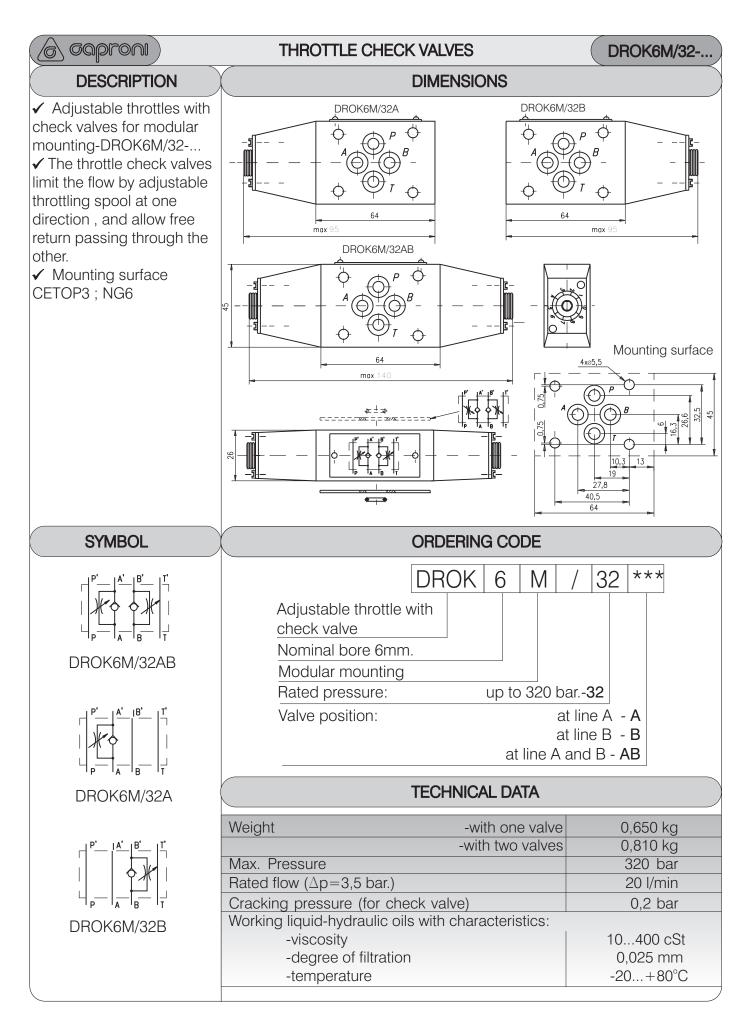


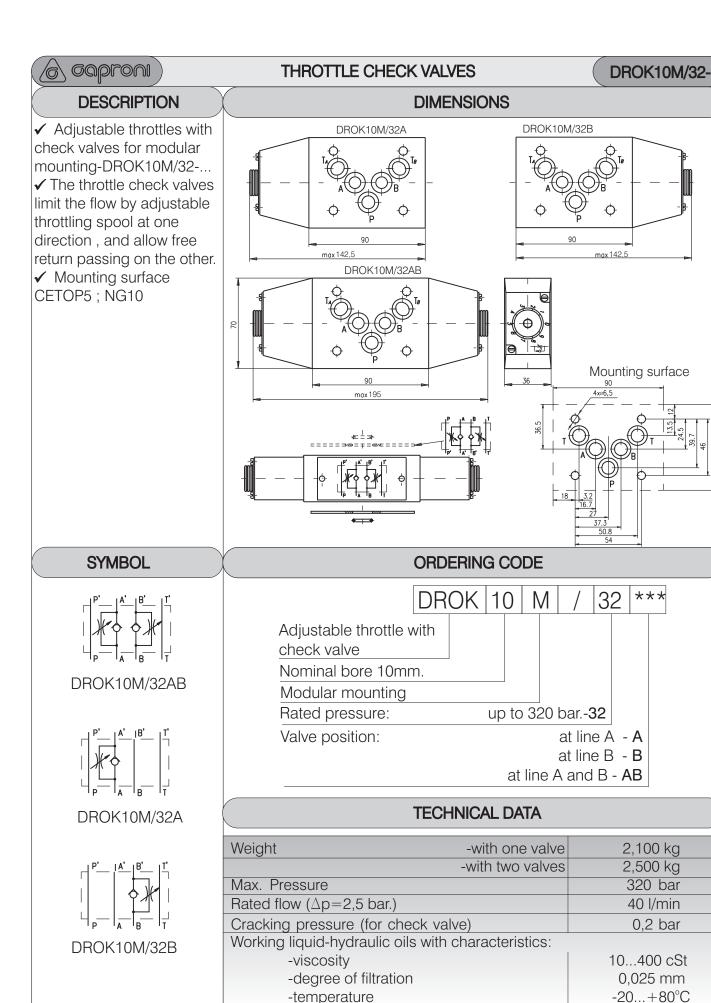
OWC10M/25A

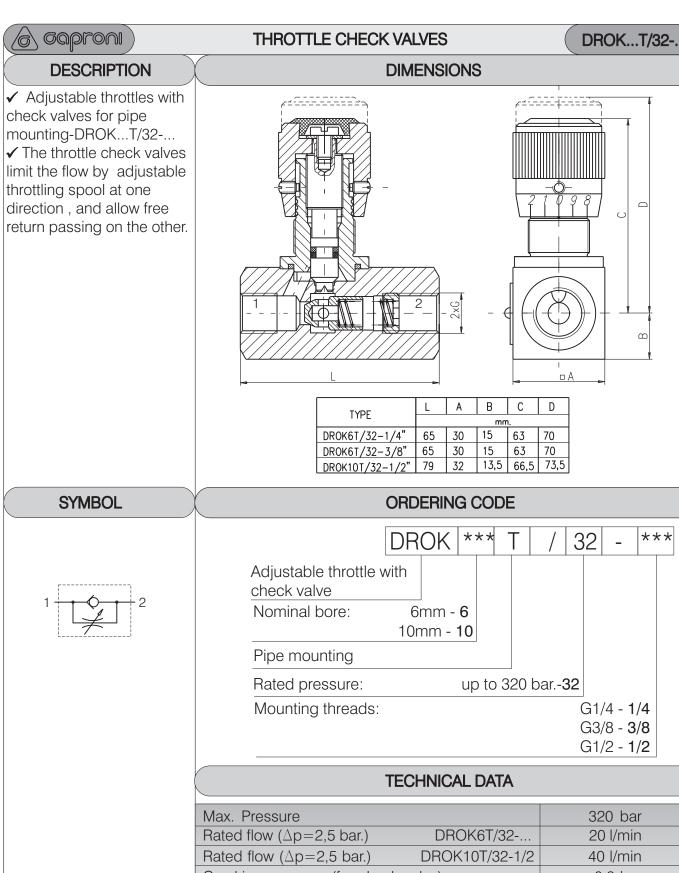
ORDERING CODE



Rated pressure		40250 bar
Rated flow	for all types	80 l/min
Pressure ratio P _w /P _P (work/pilot)	for all types	4,2/1
Working liquid-hydraulic oils with cha	aracteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C









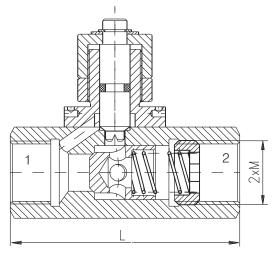
THROTTLE CHECK VALVES

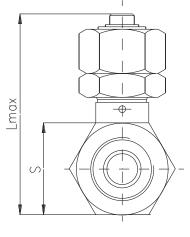
DROK...T/25

DESCRIPTION

- ✓ Adjustable throttles with check valves for pipe mounting-DROK...T/25
- ✓ The throttle check valves limit flow by adjustable throttling spool at one direction, and allow free return passing on the other.

DIMENSIONS





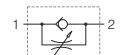
25

TYPF	L	Lmax	S	М
	mm,			
DROK12T/25	68	59	27	18x1,5
DROK16T/25	82	62	30	22x1,5
DROK20T/25	92	68	36	27x2

SYMBOL

ORDERING CODE

DROK



Adjustable throttle with check valve

Nominal bore: 12mm - 12

16mm - **16**

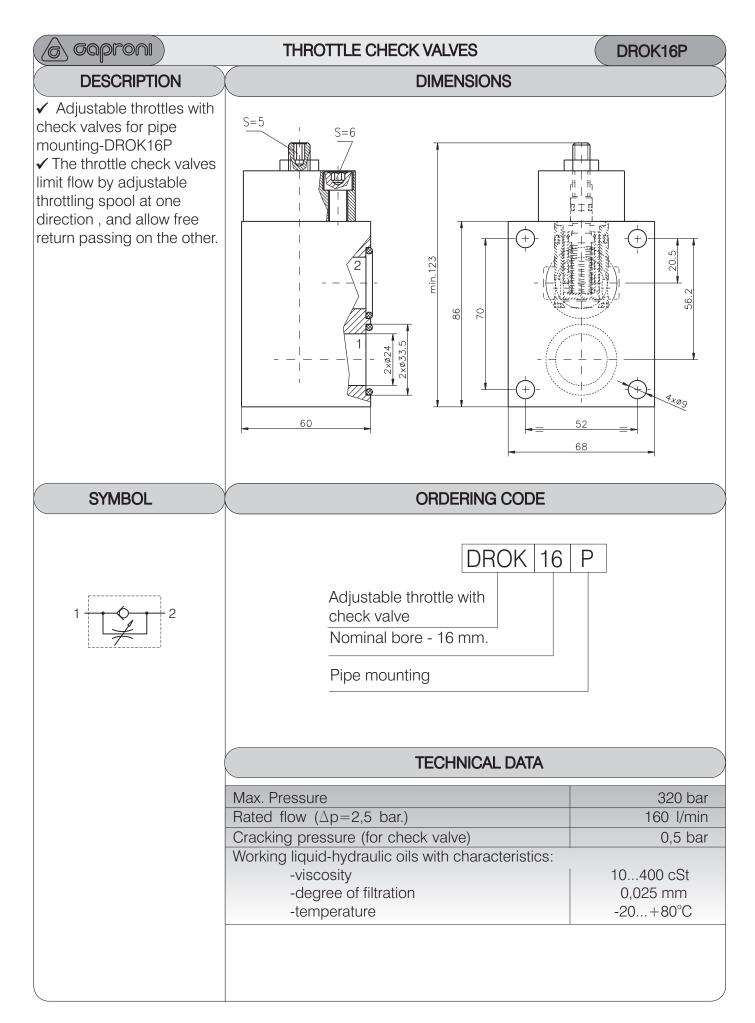
20mm - 20

Pipe mounting

Rated pressure:

up to 250 bar.-25

Max. Pressure		250 bar
Rated flow ($\Delta p=2,5$ bar.)	DROK12T/25	25 I/min
	DROK16T/25	40 l/min
	DROK20T/25	63 l/min
Cracking pressure (for check valve)		0,3 bar
Working liquid-hydraulic oils wit	h characteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C



Caproni

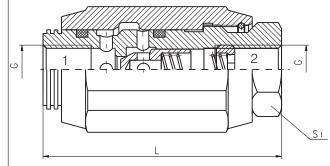
THROTTLE CHECK VALVES

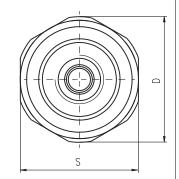
DROK-...

DESCRIPTION

- ✓ Adjustable throttles with check valves for pipe mounting-DROK-...
- ✓ The throttle check valves limit flow by adjustable throttling spool at one direction, and allow free return passing on the other.

DIMENSIONS



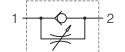


TYPE	L	S	S1	D	G
2		mı	m,		
DROK-1/4"	65	32	22	34	1/4"
DROK-3/8"	65	36	24	38	3/8"
DROK-1/2"	82	42	29	44	1/2"
DROK-3/4"	100	52	36	55	3/4"
DROK-1"	126	65	45	70	1"

SYMBOL

ORDERING CODE





Adjustable throttle with check valve

Mounting threads:

G1/4-1/4"

G3/8-3/8"

G1/2-1/2"

G3/4-3/4"

G1-1"

TECHNICAL DATA

Max. Pressure		320 bar		
Rated flow (∆p=2,5 bar.)	-1/4	12 l/min		
	-3/8	20 l/min		
	-1/2	45 l/min		
	-3/4	80 l/min		
	-1	160 l/min		
Working liquid-hydraulic oils with characteristics:				

-viscosity

-degree of filtration

-temperature

10...400 cSt 0,025 mm

-20...+80°C



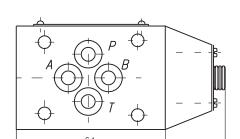
ADJUSTABLE THROTTLES

DIMENSIONS

DR6M/32...

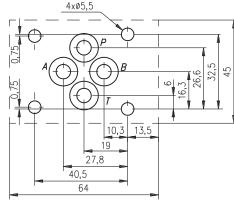
DESCRIPTION

- ✓ 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

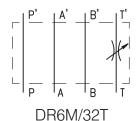


max 84

Mounting surface

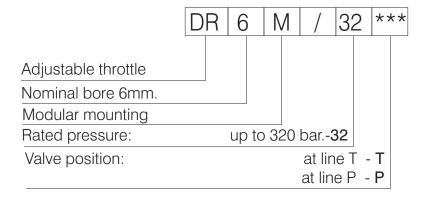


SYMBOL

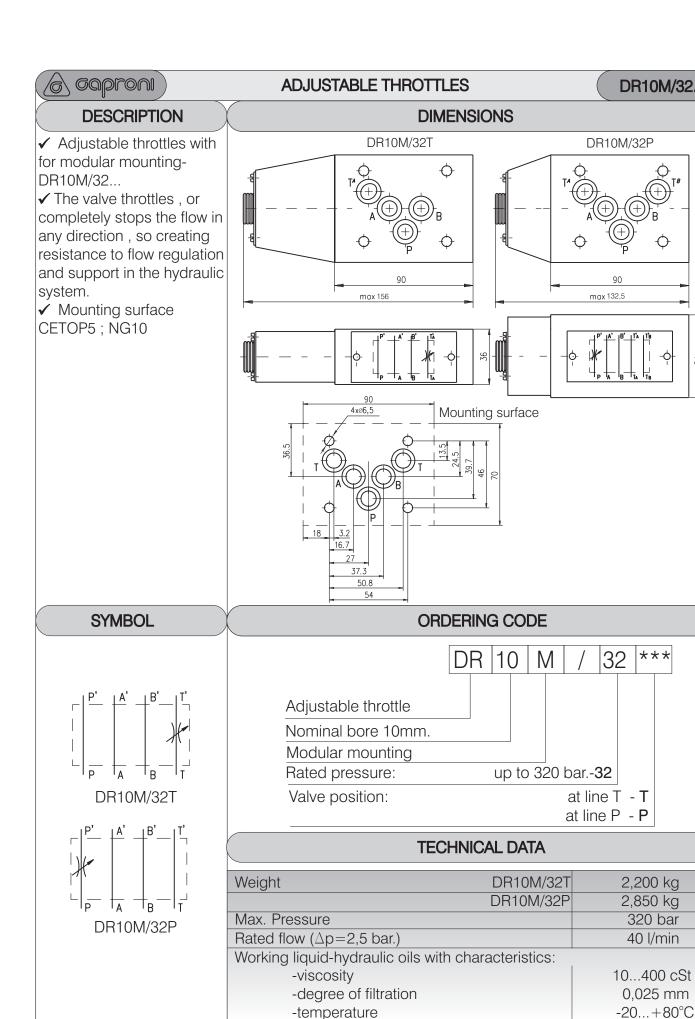


DR6M/32P

ORDERING CODE



	6M/32T	0,710 kg
DR	6M/32P	0,710 kg
Max. Pressure		320 bar
Rated flow ($\Delta p=2,5$ bar.)		20 I/min
Working liquid-hydraulic oils with character		
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C



DR10M/32...

54

2,200 kg

2,850 kg

320 bar

40 l/min

0,025 mm



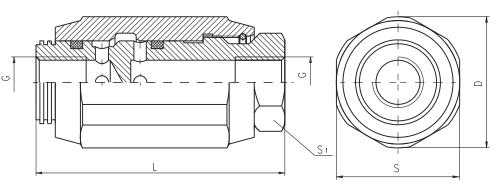
ADJUSTABLE THROTTLES

DR-...

DESCRIPTION

- ✓ Adjustable throttle for pipe mounting-DR-...
- ✓ The valve throttles , or ... completely stops the flow in any direction, so creating resistance to flow regulation and support in the hydraulic system.

DIMENSIONS



TYPE	L	S	S1	D	G
2		mı	m,		
DR-1/4"	65	32	22	34	1/4"
DR-3/8"	65	36	24	38	3/8"
DR-1/2"	82	42	29	44	1/2"
DR-3/4"	100	55	36	59	3/4"
DR-1"	126	65	45	70	1"

SYMBOL

ORDERING CODE



Adjustable throttle Mounting thread: G1/4 -1/4

G3/8 -3/8 G1/2 -1/2

DR

G3/4 -3/4

G1 -**1**

TECHNICAL DATA

Max. Pressure		320 bar	
Rated flow ($\Delta p=2.5$ bar.)	-1/4	12 l/min	
	-3/8	20 l/min	
	-1/2	45 l/min	
	-3/4	80 l/min	
	-1	160 l/min	
Working liquid-hydraulic oils with characteristics:			

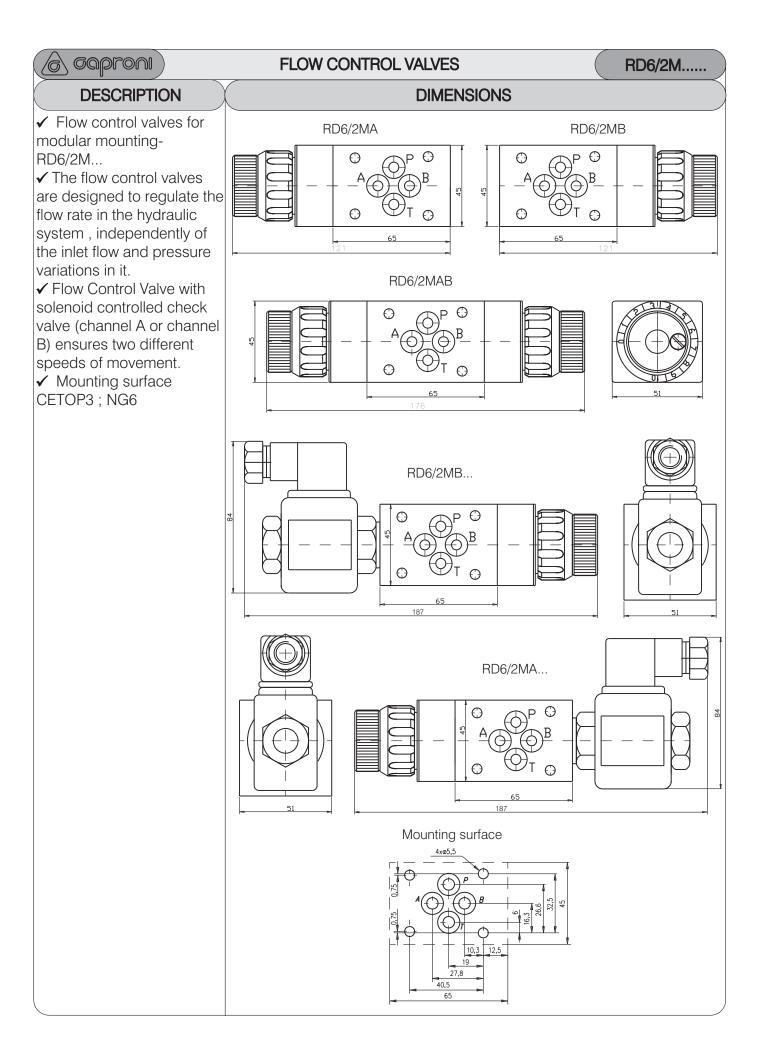
-viscosity

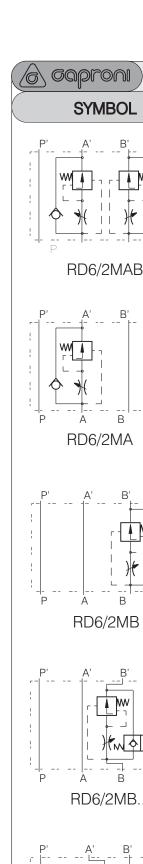
-degree of filtration

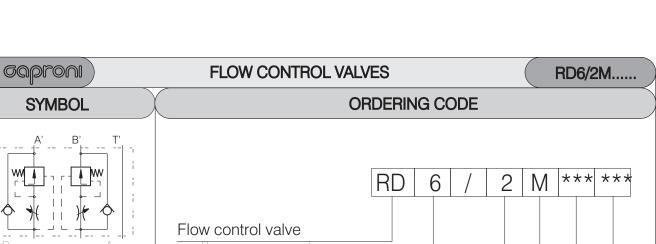
-temperature

10...400 cSt 0,025 mm

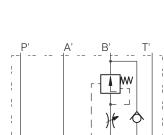
-20...+80°C



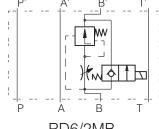




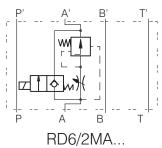
RD6/2MA



RD6/2MB



RD6/2MB...



Nominal bore 6mm. 2 - way valve Modular mounting Valve position: at line A - A at line B - B

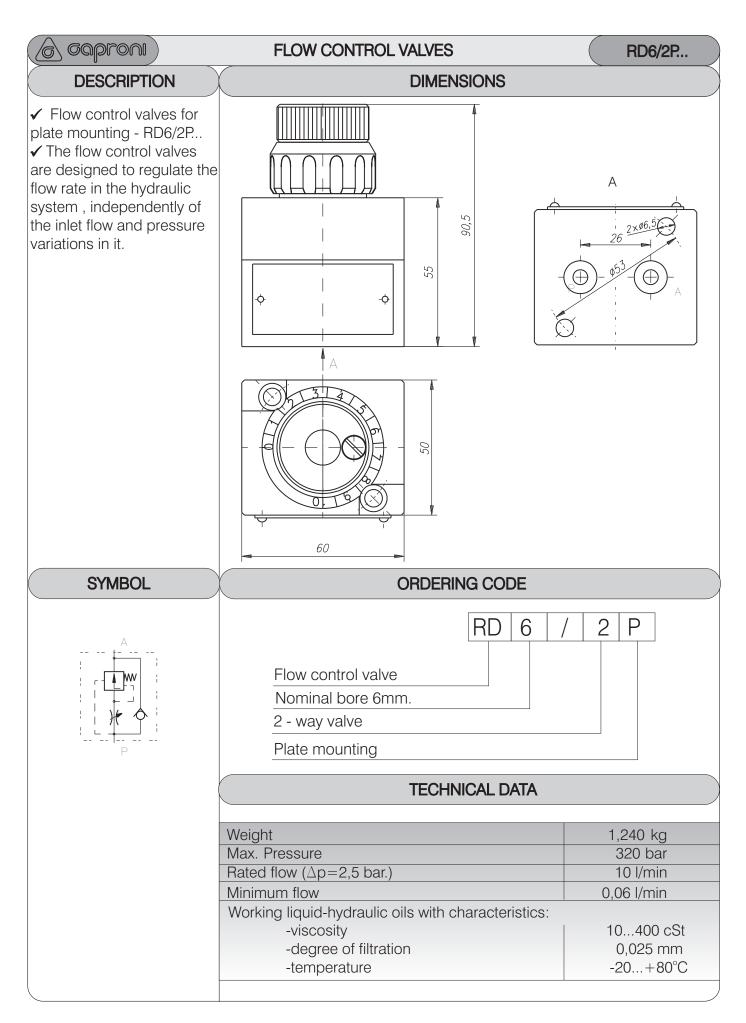
Solenoid operated check valve: - without check valve - omit

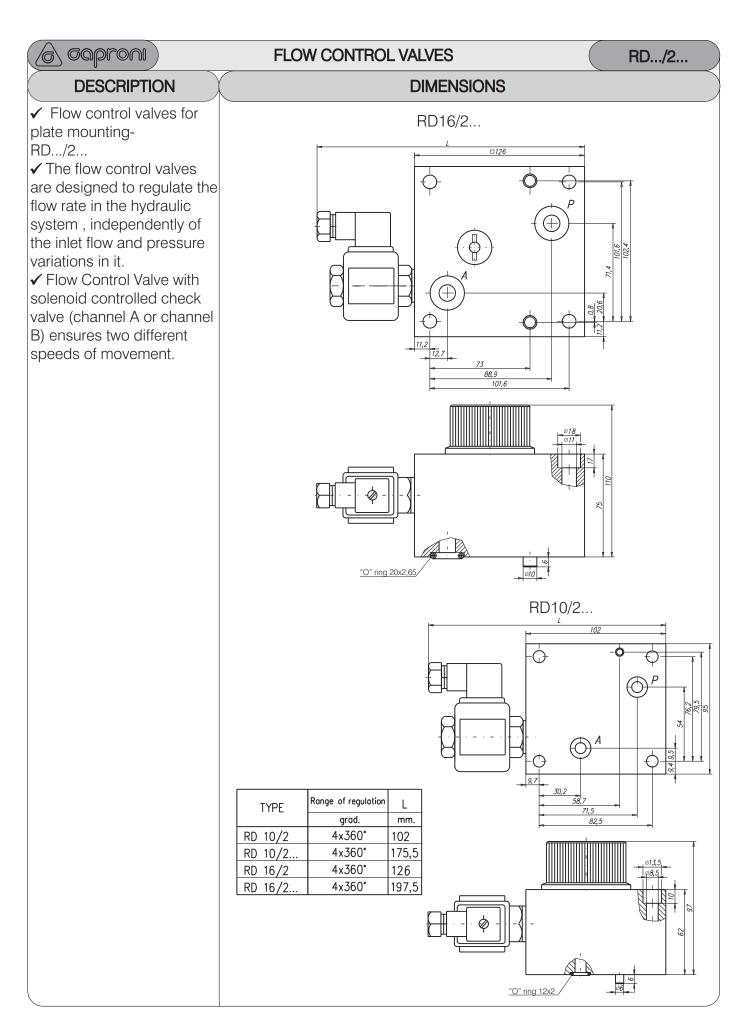
-operated voltage 12VDC - 1

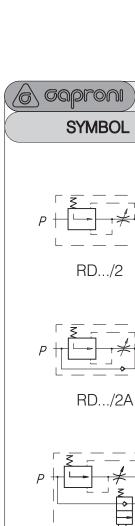
at line A&B - AB

- -operated voltage 24VDC 2
- -operated voltage 110VAC 3
- -operated voltage 220VAC 4

Weight RD6/2MAB	1,825 kg
RD6/2MA & RD6/2MB	1,485 kg
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
	·







FLOW CONTROL VALVES

RD.../2...

ORDERING CODE



- standard modification - omit Modifications:

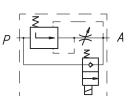
-with build in check valve - A

-with build in solenoid check valve : operated voltage-12VDC - 1

operated voltage-24VDC - 2

-operated voltage 110VAC - 3

-operated voltage 220VAC - 4



RD.../2...

TECHNICAL DATA

Max. Pressure		320 bar
Rated flow (∆p=5 bar.)	RD10/2	24 l/min
Rated flow (∆p=8 bar.)	RD16/2	80 I/min
Minimum flow	RD10/2	0,05 l/min
Minimum flow	RD16/2	0,1 l/min
Working liquid-hydraulic oils with cha	aracteristics:	
-viscosity		10400 cSt
-degree of filtration		0,025 mm
-temperature		-20+80°C



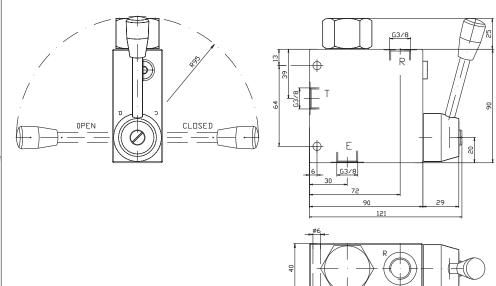
FLOW CONTROL VALVES

RD10/3T

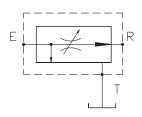
DESCRIPTION

- ✓ Three way flow control valves for pipe mounting -RD10/3T
- ✓ 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. Priority flow regulator gives priority of the adjusted flow to pass entirely to bypass, tank or a separate system.

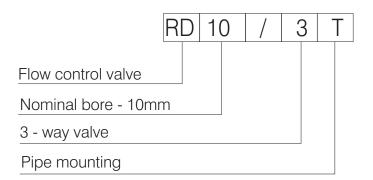
DIMENSIONS



SYMBOL



ORDERING CODE



TECHNICAL DATA

Max. Pressure	210 bar	
Rated flow	30 l/min	
Minimum flow	4 l/min	
Working liquid-hydraulic oils with characteristics:		
-viscosity	10400 cSt	
-degree of filtration	0,025 mm	
-temperature	-20+80°C	



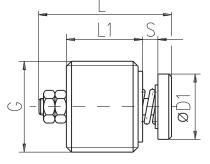
HOSE BURST CHECK VALVES

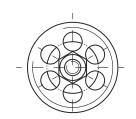
HC870...

DESCRIPTION

- ✓ Hose burst check valves for pipe mounting-HC870...
- ✓ Hose burst check valves prevent against an uncontrollable, accelerated movement of a loaded hydraulic actuator, when the back pressure is lost (as a result of damage or rupture in the pressurized line or pipe connections). The valve is screwed directly into the pressurized inlet port of the hydraulic actuator.

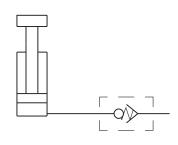
DIMENSIONS





TYPE	G	L	L ₁	Ø D ₁
2		mm		
HC870-1/4	G1/4"	21	12	9,5
HC870-3/8	G3/8''	23	14	12
HC870-1/2	G1/2"	27	16	15
HC870-3/4	G3/4"	36	24	18,5

APPLICATIONS



ORDERING CODE

Hose burst check valve
Modification

G3/8 -3/8

G1/4 -1/4

G1/2 -1/2 G3/4 -3/4

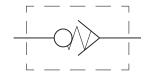
320 bar

*Other available threads: (metric) on request

Max. Pressure

Mounting thread:

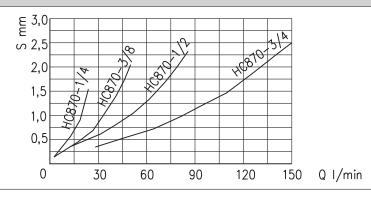
SYMBOL

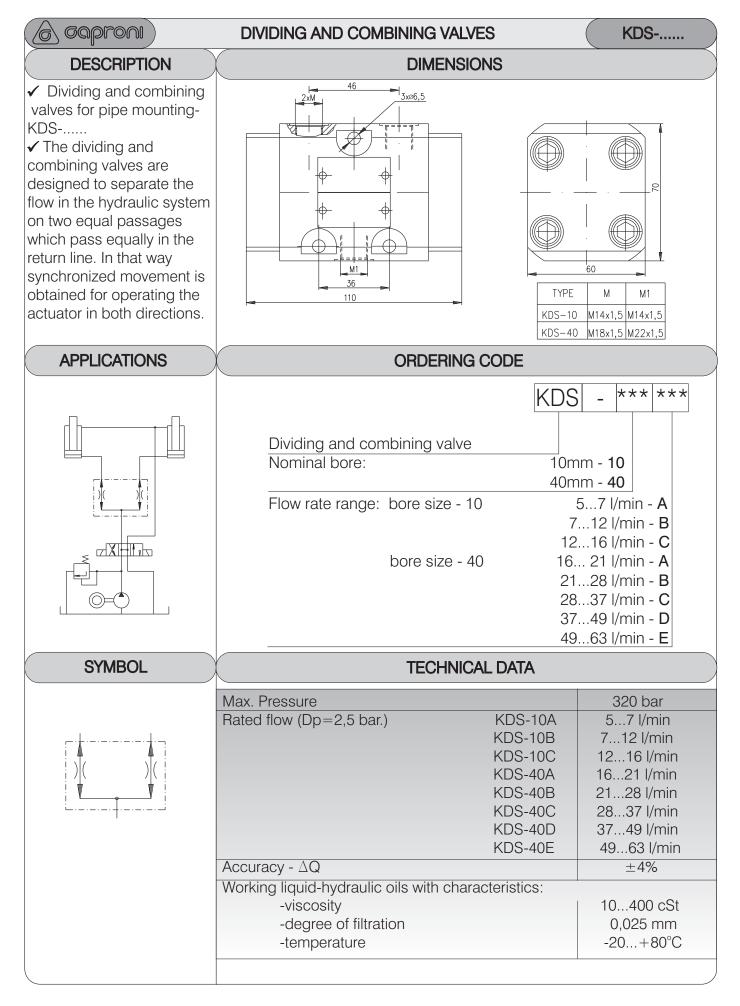


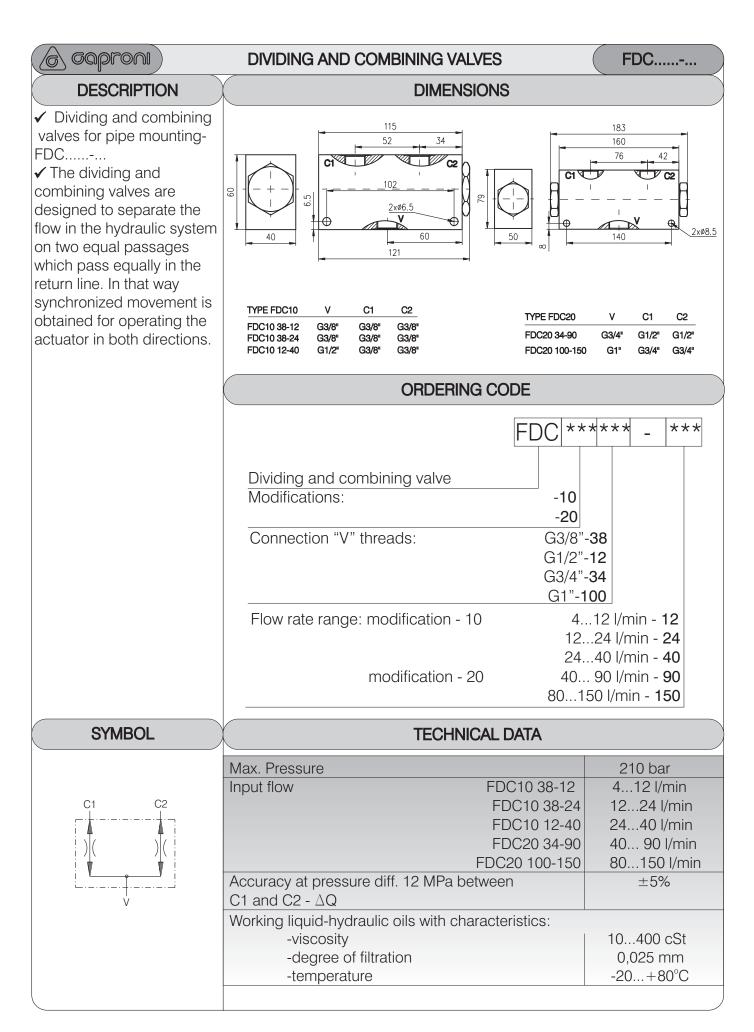
TECHNICAL DATA

Rated flow - see characteristics	
Working liquid-hydraulic oils with characteristics	:
-viscosity	10400 cSt
-degree of filtration	0,025 mm
-temperature	-20+80°C

CHARACTERISTICS









VALVE APPLICATIONS

HYDRAULIC POWER PACKS

FEATURES

- ✓ Compact power units design.
- ✓ Right power pack size for each application and suitable circuit.
- ✓ Required functions for all control problems.
- ✓ Stable steel reservoir with visual oil level, filling plug with air filter and drain plug.
- ✓ Suitable devices for all additional requests such as e.q. accumulator; heat exchangers; level, pressure and filtration supervising apparatus etc.
- ✓ Arrangement for service maintenance.
- ✓ Individual adjustment is possible.
- ✓ Additional options at request.

TECHNICAL DATA

Drive power units supply hydraulic consumers for various application. Customized hydraulic power units are consisted of:

-Electric motor: three phases , V220/380 , 50Hz , shape V1 , B5 or B3/B5 , B14 and power from 0,37 to 18,5kW.

- -Hydraulic external gear pump: displacement from 1 to 60cm³, pressure up to 250bar.
 - -Reservoir with capacity: from 20 to 400 liters or more.
- -Manifolds for distribution and regulation of hydraulic power according to the specific application.

Customized circuits can be easily realized by means of modular plates, modular valves - size 06 and 10; solenoid valves and directional control valves.

Installation position	horizontal
-electric motor with vertical axis and pump	
submersed	
-electric motor installed on the reservoir cover	
with horizontal axis and pump	
Ambient temperature	-20+70°C
Working liquid-hydraulic oils with parameters:	
-viscosity	10400 cSt
-recommended viscosity	2080 cSt
-degree of filtration	0,025 mm
-temperature	up to 80°C
-fluid contamination class	ISO 19/16

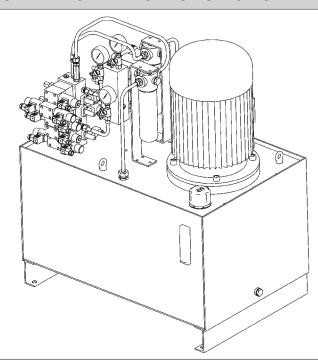
DESCRIPTION

Hydraulic power pack supply 6 consumers:

- -el. motor power 7,5kW
- -triple pump 20/16/16 I/min
 - -reservoir 200 l

Manifold with modular valves size 06.
Pressure filter
Glycerin filled pressure gauge with shut-off valve;
Pressure indicators.

CUSTOMIZED POWER PACK FOR SPECIFIC APPLICATIONS





VALVE APPLICATIONS

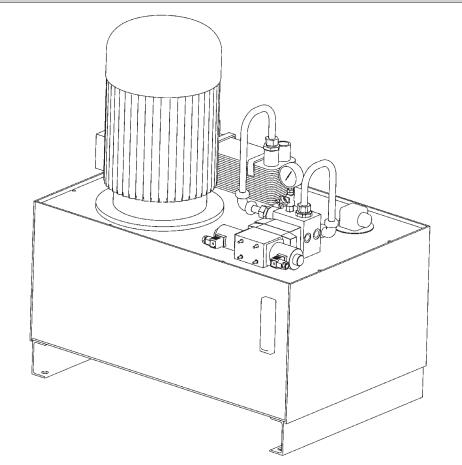
HYDRAULIC POWER PACKS

DESCRIPTION

CUSTOMIZED POWER PACK FOR SPECIFIC APPLICATIONS

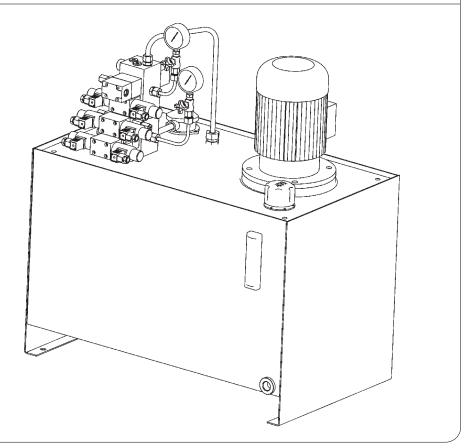
Hydraulic power pack for 1 consumer.

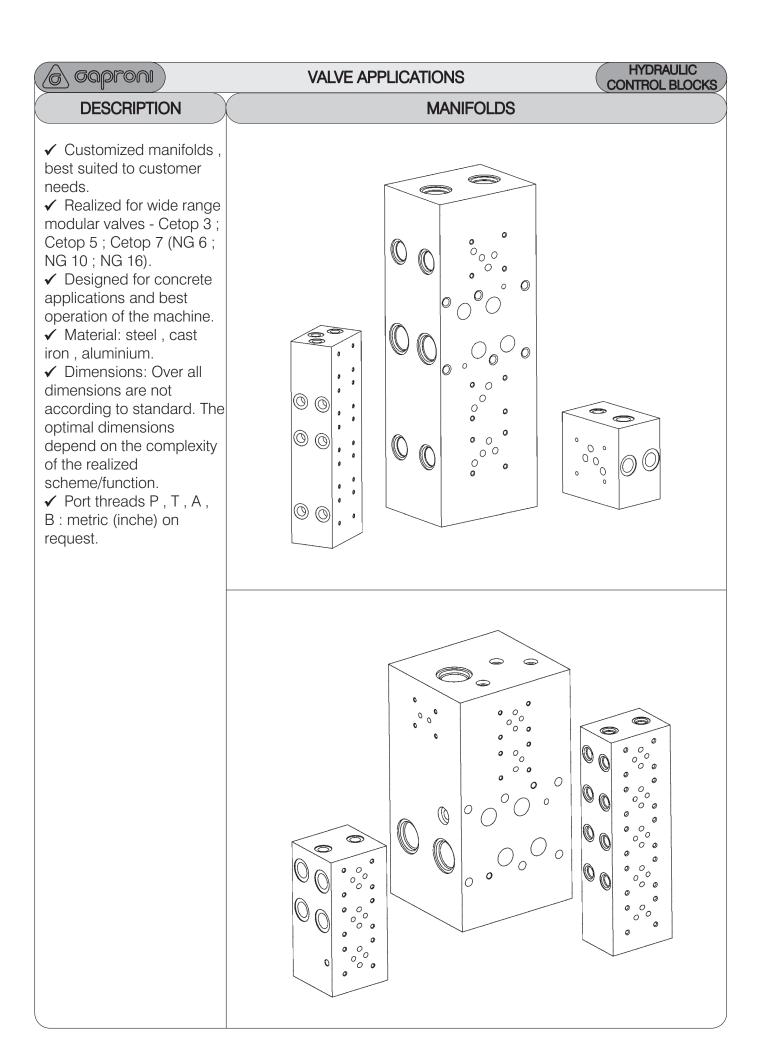
- -el. motor power -18,5kW
- -pump 42 l/min
- -reservoir 150 l
- -heat exchanger with water circulation.



Hydraulic power pack for 3 consumers.

- -el. motor power 3kW
- -tandem pump -
- 16/7 l/min
 - -reservoir 150 l
 - -return line filter







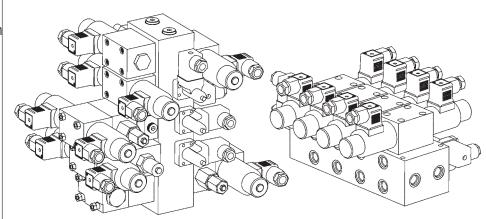
VALVE APPLICATIONS

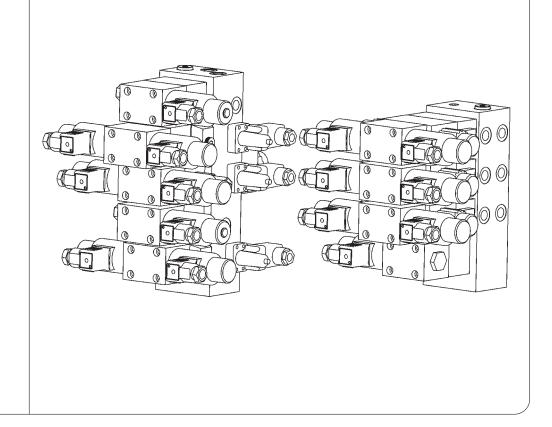
HYDRAULIC CONTROL BLOCKS

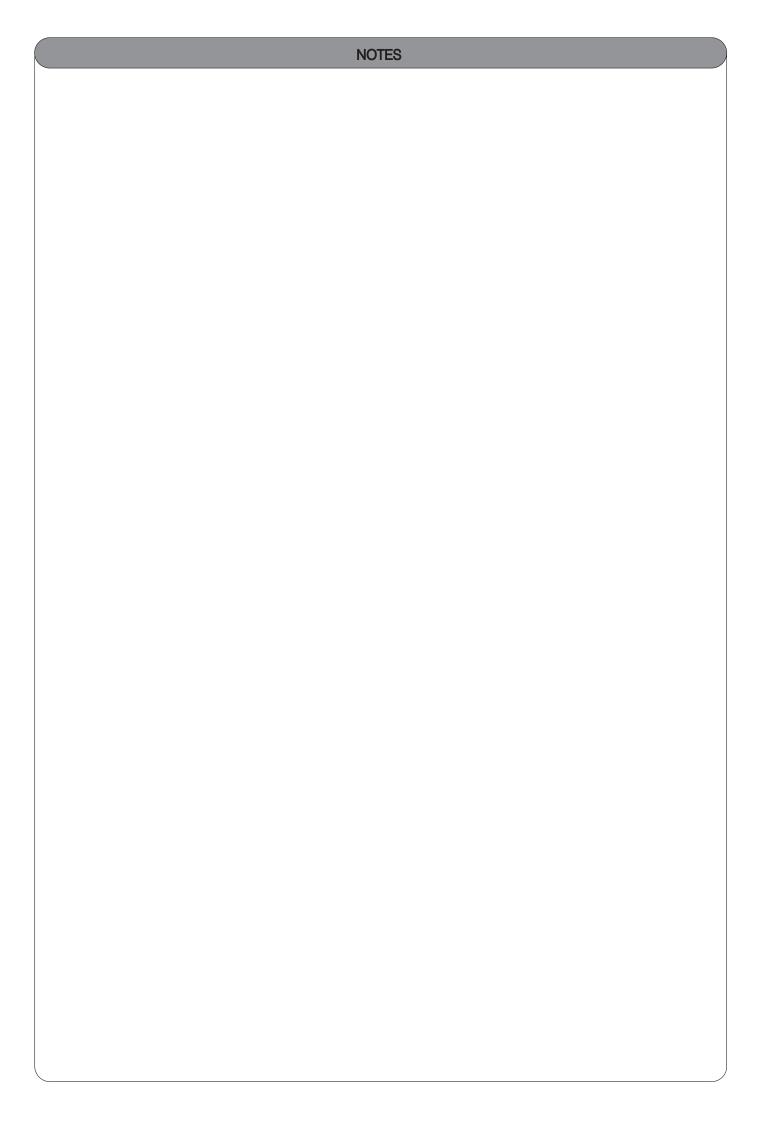
DESCRIPTION

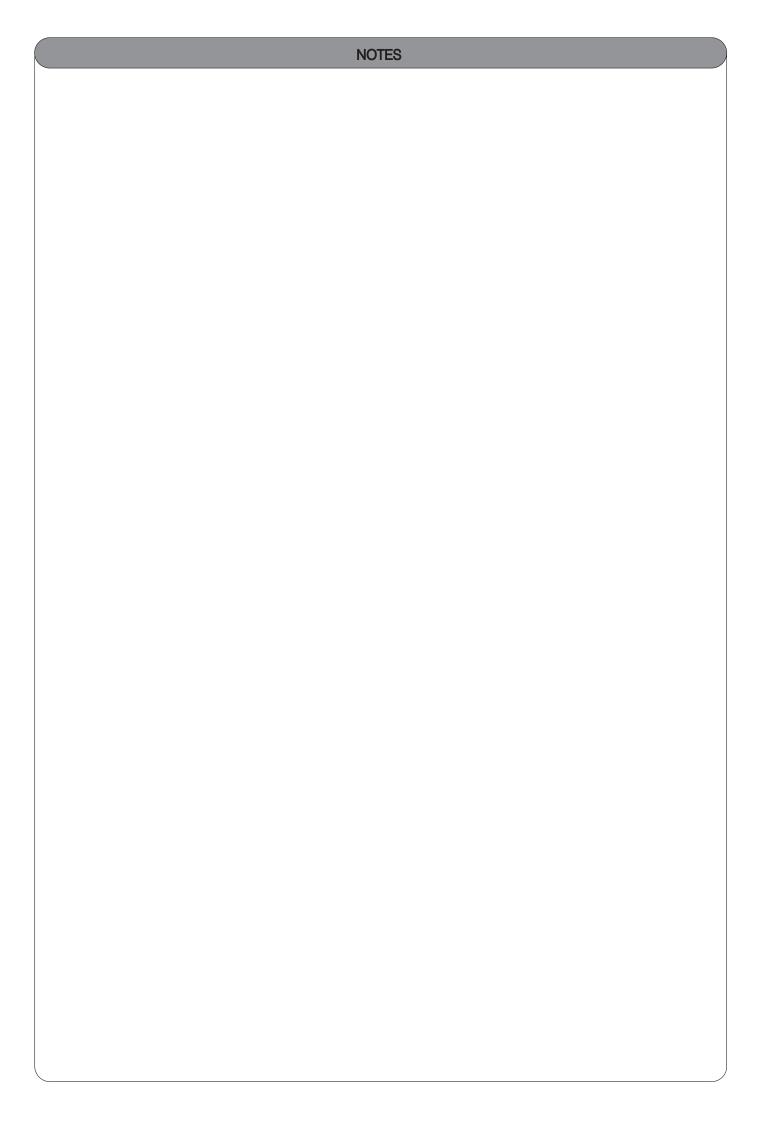
MANIFOLDS ASSEMBLY

- ✓ Tailored for concrete applications and specific requirements.
- ✓ Tested and preset for integration in the hydraulic systems.
- ✓ The modular conception of manifolds assembly ensures reliability of the systems, easy assembly, operation and service.









APPENDIX

CONVERSION TABLE

_					
	Unit	\approx	Factor	X	Unit
	1 in	\approx	25.4		mm
	1 PSI	\approx	0.07		bar
	1 USGPM	\approx	3.79		l/min
	1 in ³	\approx	16.66		cm ³
	1 cSt	\approx	1		mm²/s
	1 lbft	\approx	1.347		Nm
	5(°F-32)/9	\approx	1		°C

ADDITIONAL INFORMATION

All specifications, descriptions and illustrations contained herein, refer to the products at the time of printing. "CAPRONI" reserves its right to discontinue models, modify or revise the specifications without notice. For current information contact our distributors or local office. Additional functional symbols can be given in case of request.

February 2010



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