

CHB	Hydraulic power units	108
ACHB	Accessories for hydraulic power units	110
AC et AS	Spherical accumulators	111
MDP__L	Pressure multipliers in line	112
MDP__M	Modular pressure multipliers	113
FLTM	Filters for pressure multipliers	114
BMP	Pressure maintenance block	115
VDS	Sequence valve	116
RPH et RH	Check valve	117
RDP	Pressure reducer	118
CDIST	Distribution components	119

Caractéristiques techniques

Motor-pump set :

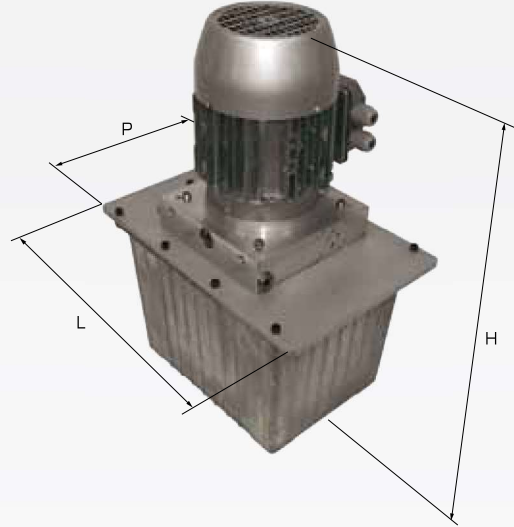
Gear pump

- peak pressure : **300 bar**
- using pressure : **250 bar**

Electric motor

- supply voltage : **220 - 240V - 50 Hz**
380 - 420V - 50 Hz
- speed of rotation : **1450 rpm**
- protection : **IP54**

Duty ratio : **S3**



Tank :

- total capacity : **12 and 20 liters**
- useful capacity : **8 and 14 liters**

Equipment :

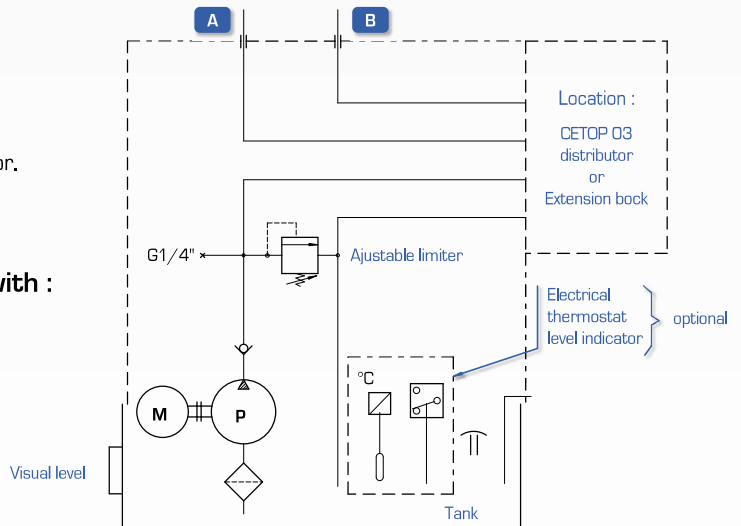
- suction strainer size 150 microns
- filling port
- visual oil level indicator
- breather with air filter

Options :

Electrical minimum oil level indicator with thermostatic sensor.
Order code : **A 36 365**

Connection flange for motor-pump unit equipped with :

- 1 adjustable pressure limiter from 0 to 300 bar
- 1 check valve
- 1 pattern for CETOP O3 distribution
- 1 tapped G1/4" port
- 1 pressure switch, gauge or pressure supply point
- 1 outlet **A** and **B** tapping G3/8"
- 1 direct return tapped port G 3/8"



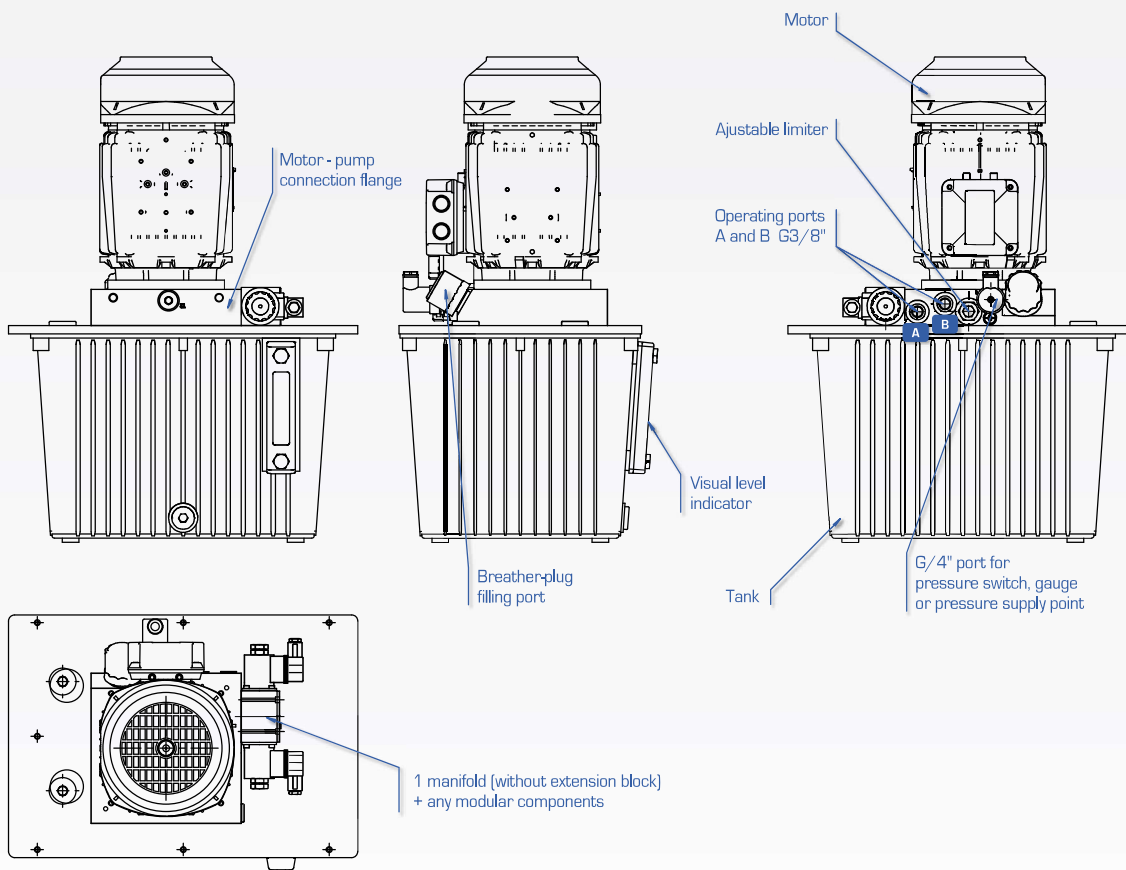
Type	Order code	Pump flow l/mn	Motor power kW	Maximum pressure bar	Tank capacity		H mm	Dimensions	
					Total liters	Useful liters		L mm	P mm
CHB 1.3 - 0.55 - 12	902 230/111	1.3	0.55	250	12	8	493	362	242
CHB 1.3 - 0.55 - 20	902 230/112				20	14	523	419	291
CHB 3.7 - 1.50 - 12	902 230/113	3.7	1.5	250	12	8	552	362	242
CHB 3.7 - 1.50 - 20	902 230/114				20	14	582	419	291
CHB 5 - 2.20 - 12	902 230/115	5.3	2.2	250	12	8	552	362	242
CHB 5 - 2.20 - 12	902 230/116				20	14	582	419	291

Clamping hydraulic power unit : CHB

Electric motor
0.55 à 2.2 kW - 1.3 à 5 l/mn - 250 bar

Hydraulic distribution

The basic plant allows CETOP O3 standard modular components and manifold to fitted.

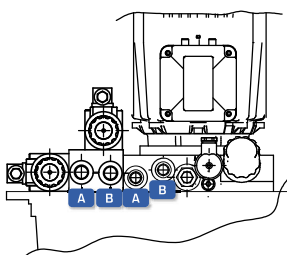


Extension block

Fitting of extension blocks allows additional manifolds to be added.

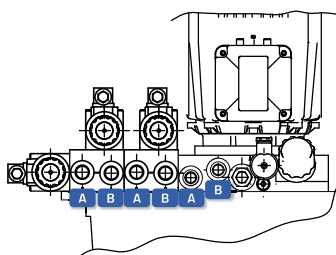
1 Extension block

2 manifolds with or without modular components



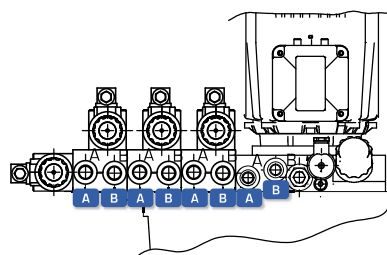
2 Extension blocks

3 manifolds with or without modular components



3 Extension blocks

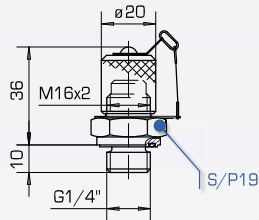
4 manifolds with or without modular components



■ **Complete screw-in supply plug with cap.**

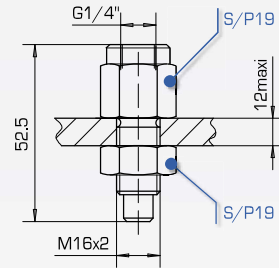
(with built in seals)

Order code : **A 65 035**



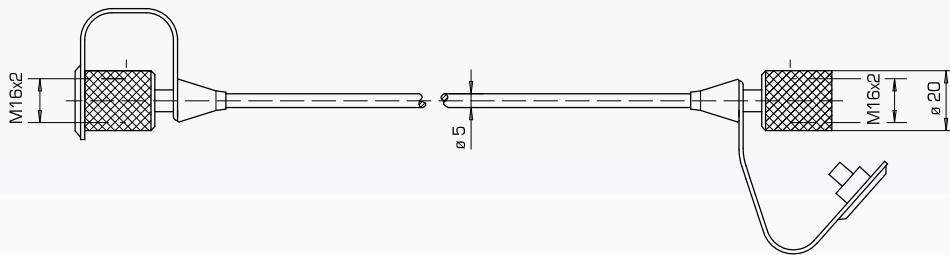
■ **Gauge plug.**

Order code : **A 65 038**

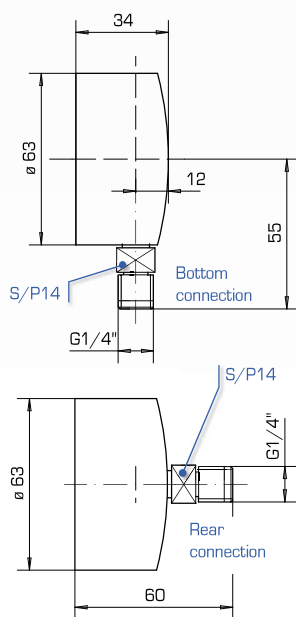


■ **High pressure capillary hose LG.630**

Order code : **A 65 036**

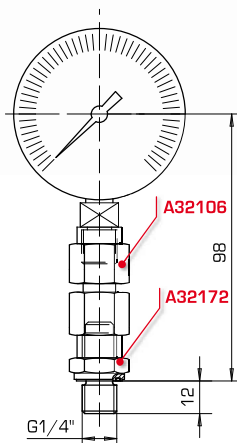


■ **Glycerine filled gauge.**



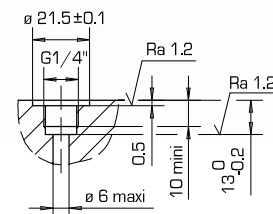
Ajustable

With connections for mounting onto the block (standard G1/4\"/>



Not adjustable

To be screwed directly into the block with aluminium seal **A 51 088** (Housing machining dimensions, see the sketch below)



Graduation	Order code	Connection type
0 to 250 bar	A 69 033	Bottom
0 to 400 bar	A 69 030	Bottom
0 to 250 bar	A 69 251	Rear
0 to 400 bar	A 69 252	Rear

Spherical accumulators : AC & AS

pressure : 210 bar - 250 bar - 400 bar

Principle of operation

The hydro-pneumatic accumulator is a reservoir of power which is called on if needed.

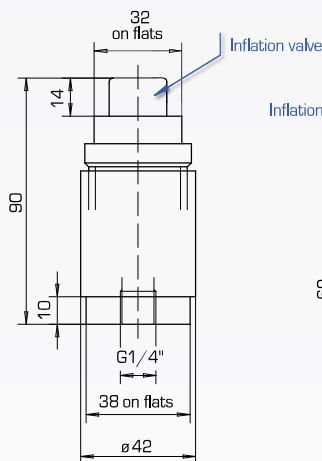
Characteristics

- membrane accumulator
- recommended pre-pressurisation with nitrogen : **0,8 x la pression de service**

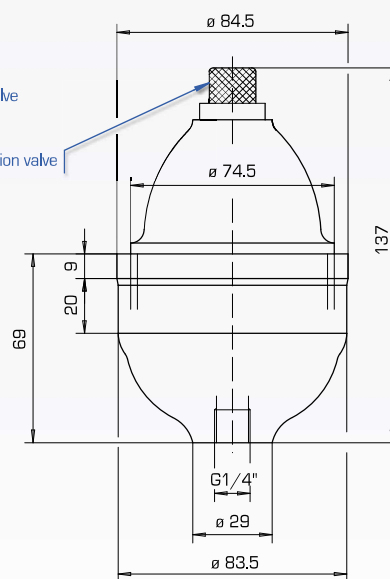
400 bar accumulators



Type AC 020



Type AC 200

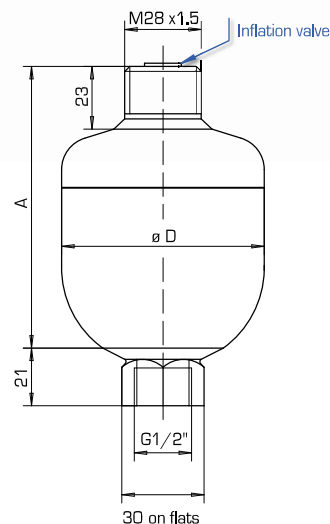


Type	Order code	Maxi pressure	Capacity	Weight
		bar	cm ³	Kg
AC 020	A 66 316	400	20	0.64
AC 200	A 66 317	400	200	1.20

210 - 250 bar accumulators



Type AS 075 - AS 160



Type	Order code	Maxi pressure	Capacity	A	øD	Weight
		bar	cm ³	mm	mm	Kg
AS 075	A 66 314	250	75	91	64	0.7
AS 160	A 66 318	210	160	103	74	0.8



Description

The MDP is a oscillating hydraulic pressure multiplier which increases the output pressure. It maintains this pressure whilst automatically compensating for the consumption in any receivers that may be mounted on the high pressure side.

The MDP operates within a supply pressure range of from 20 to 200 bar and delivers an output pressure which is proportionnal to the supply pressure (800 bar max). The outlet pressure is adjusted by adjusting the input pressure.

The MDP includes a controlled check valve 'CAR' which maintains the pressure in the system and allows decompression by reversing the distributor.

Characteristics

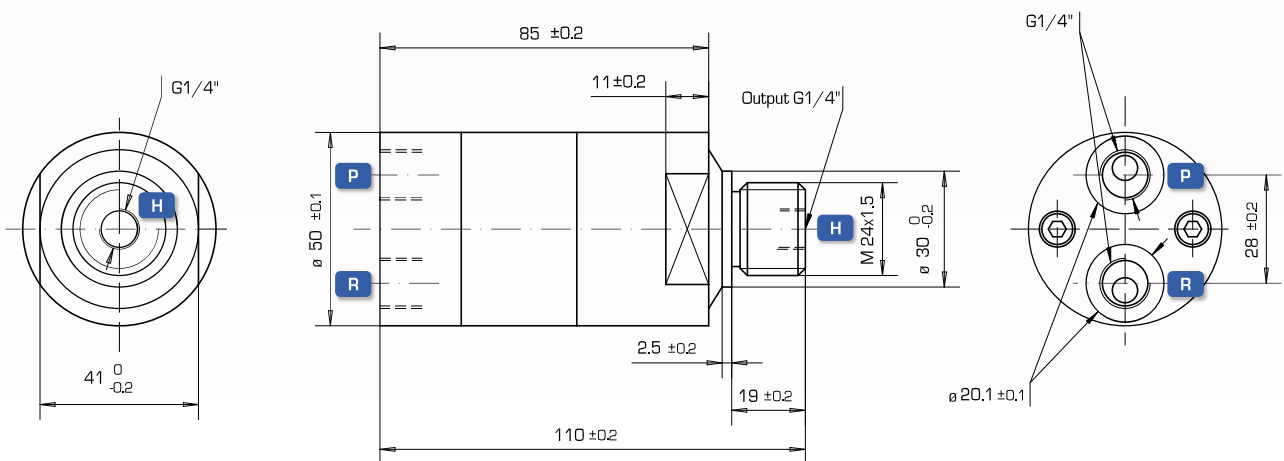
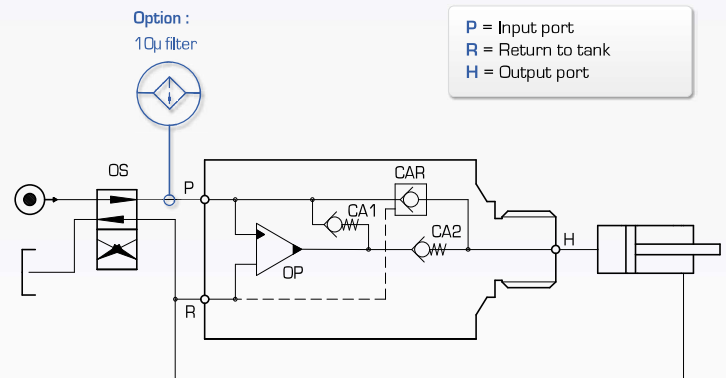
- supply pressure from 20 to 200 bar
- maximum output pressure 500 bar
- temperature from -40°C to +120°C
- filtration 10 µm max. 19/16 as per ISO 4406
- zinc plated body
- the MDP contains no hydraulic seal

Options

In order to prevent leaks due to contamination by metallic particles, we recommend that a **filter** is fitted to the inlet P. To choose the filter, see page 114.

Recommendations

The assembly design study must take into account the fact that the multiplier represents an internal loss between P and R.



Type	Order code	Multiplication ratio or gain	Maximum input flow	Maximum output flow	Weight
MDP 2.0 L	A 66 331	2.0	8.0 l/mn	0.8 l/mn	1 Kg
MDP 3.2 L	A 66 332	3.2	15.0 l/mn	2.5 l/mn	1 Kg
MDP 4.0 L	A 66 273	4.0	14.0 l/mn	2.0 l/mn	1 Kg
MDP 5.0 L	A 66 333	5.0	14.0 l/mn	1.6 l/mn	1 Kg

Modular dynamic

Description

The MDP is a oscillating hydraulic pressure multiplier which increases the output pressure. It maintains this pressure whilst automatically compensating for the consumption in any receivers that may be mounted on the high pressure side.

The MDP operates within a supply pressure range of from 20 to 200 bar and delivers an output pressure which is proportionnal to the supply pressure (800 bar max). The outlet pressure is adjusted by adjusting the input pressure.

The MDP includes a controlled check valve 'CAR' which maintains the pressure in the system and allows decompression by reversing the distributor.



Characteristics

- supply pressure from 20 to 200 bar
- maximum output pressure 500 bar
- temperature from -40°C to +120°C
- filtration 10 μ max. 19/16 as per ISO 4406
- zinc plated body
- the MDP contains no internal hydraulic seal
- base fitted with o-rings

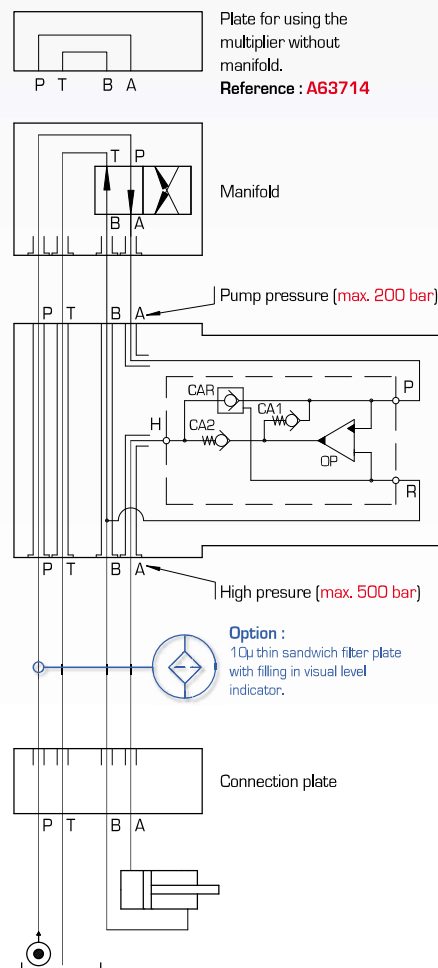
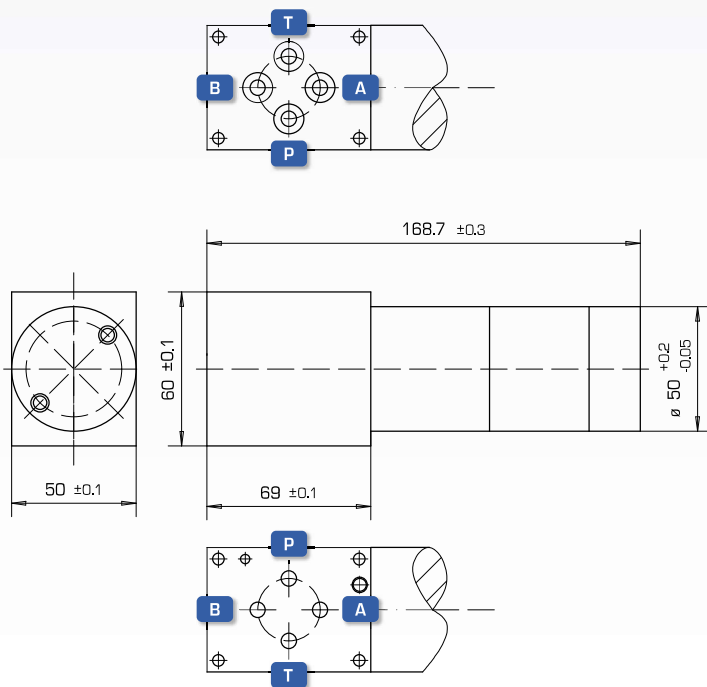
Options

- 10 μ thin **sandwich filter plate** with filling in visual level indicator. To choose the filter, see page 114.

Recommendations

The assembly design study must take into account the fact that the multiplier represents an internal loss between P and R.

Pattern location CETOP3



Type	Order code	Multiplication ratio or gain	Maximum input flow	Maximum output flow	Weight
MDP 2.0 M	A 66 329	2.0	8.0 l/mn	0.8 l/mn	2.5 Kg
MDP 3.2 M	A 66 330	3.2	15.0 l/mn	2.5 l/mn	2.5 Kg
MDP 4.0 M	A 66 241	4.0	14.0 l/mn	2.0 l/mn	2.5 Kg
MDP 5.0 M	A 66 328	5.0	14.0 l/mn	1.6 l/mn	2.5 Kg

Filters for multipliers : **FLTM**

In line or NG6

T 10µ filter - R 1/4" or R 3/8"

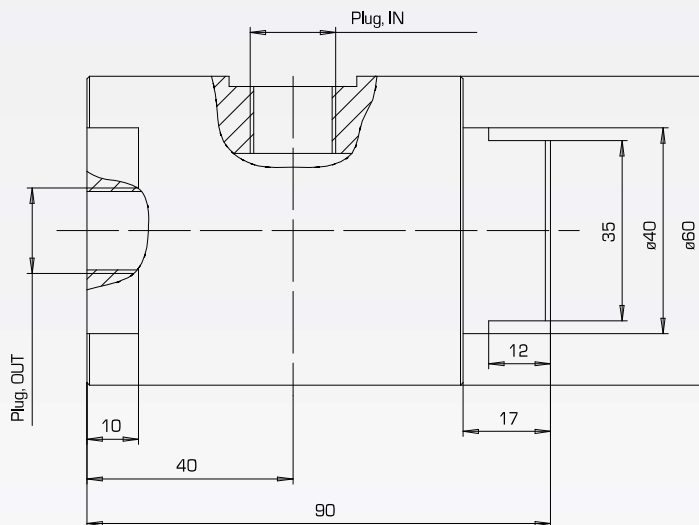
Max pressure : 350 bar

The filter cartridge is detachable and cleanable.

R 1/4" - Order code : **A 36 428**

R 3/8" - Order code : **A 36 414**

Filter cartridge - Order code : **A 36 429**

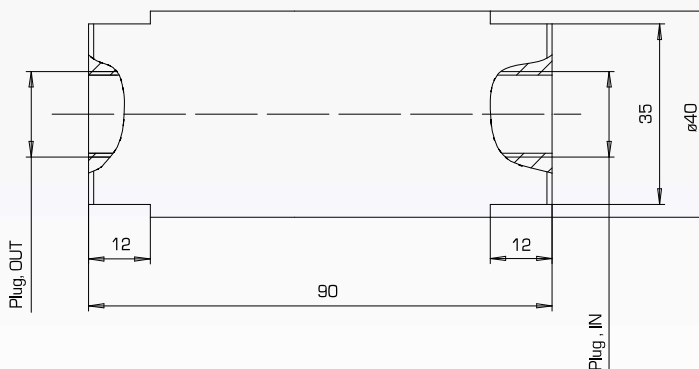


In-line 10µ filter

Max pressure : 350 bar

R 1/4" - Order code : **A 68 457**

R 3/8" - Order code : **A 68 458**

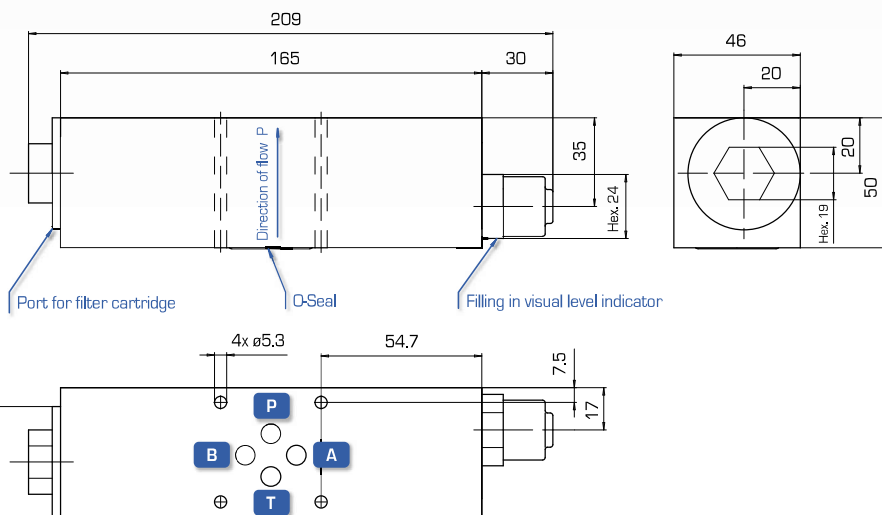


NG6 filter

Max pressure : 200 bar

(with filling in visual level indicator)

Order code : **A 63 715**



Pressure maintenance block : **BMP**

Sandwich assembly
Pattern location NG6



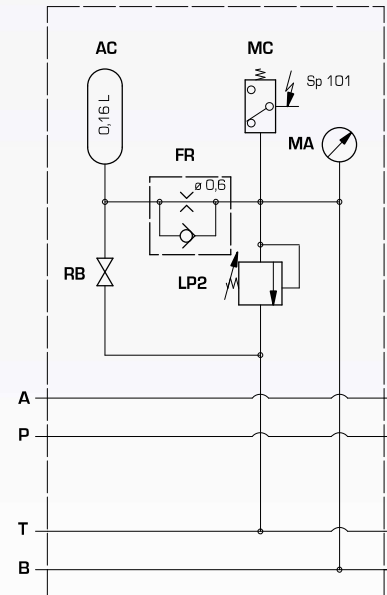
www.quiri.com

Pressure maintenance block with accumulator

Order code : **834 A97/100**

Includes :

- 1 gauge allowing the pressure to be visually checked (**MA**)
- 1 pressure switch (**MC**) to :
 - Stop the motor when the using pressure is reached
 - Restart if the pressure falls by about 10%
- 1 accumulator to maintain the pressure and prevents over-frequent start-up of the motor during a long clamping period (**AC**)
- 1 safety pressure limiter (**LP2**)
- 1 decompression valve with nozzle (**RB**)
- 1 brake on the discharge from the accumulator (**FR**)



Example of assembly :



Sequence valve : VDS

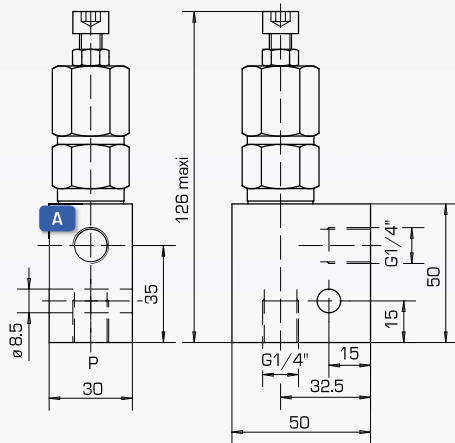
With check valve

Maximum service pressure : 350 bar

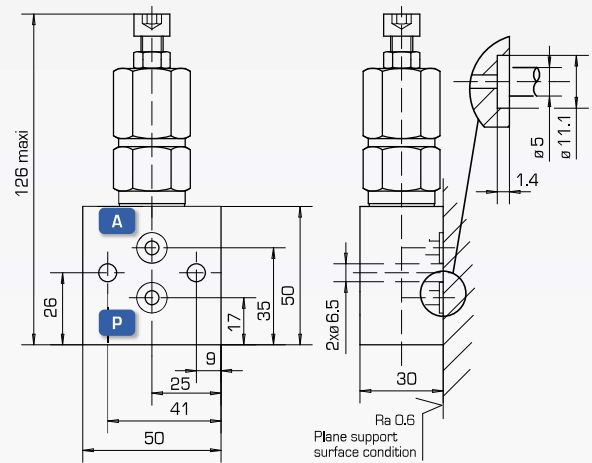
Principle of operation

The sequence valve allows a secondary circuit to be supplied when the pre-set pressure is reached in the primary circuit. It is used to sequence the movement of cylinders, or, for example, to clamp a component before anti-vibration mounting provide support. At the end of the cycle the pressure in the secondary circuit is equal to the pressure in the primary one.

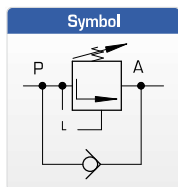
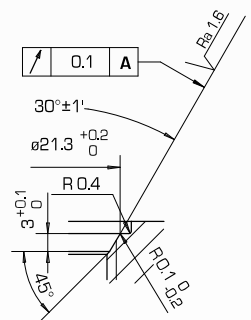
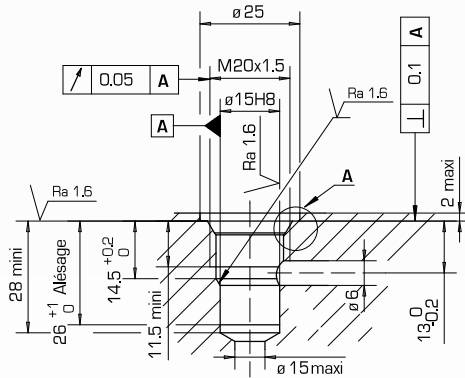
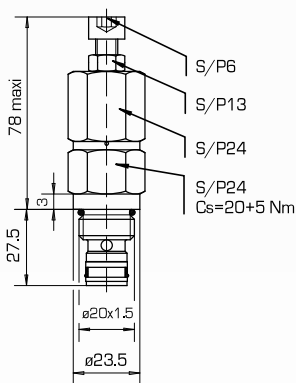
Type VDS 5_T



Type VDS 5_P



Type VDS 5_C



Type	Order code	Pressure range	Max flow
		bar	l/mn
VDS 5 1 T	354 007/100	10 to 100	12
VDS 5 2 T	354 007/200	50 to 250	12
VDS 5 1 P	354 008/100	10 to 100	12
VDS 5 2 P	354 008/200	50 to 250	12
VDS 5 1 C	A 66 257	10 to 100	12
VDS 5 2 C	A 66 258	50 to 250	12

Controlled check valve : **HRP & RH**



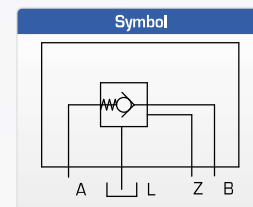
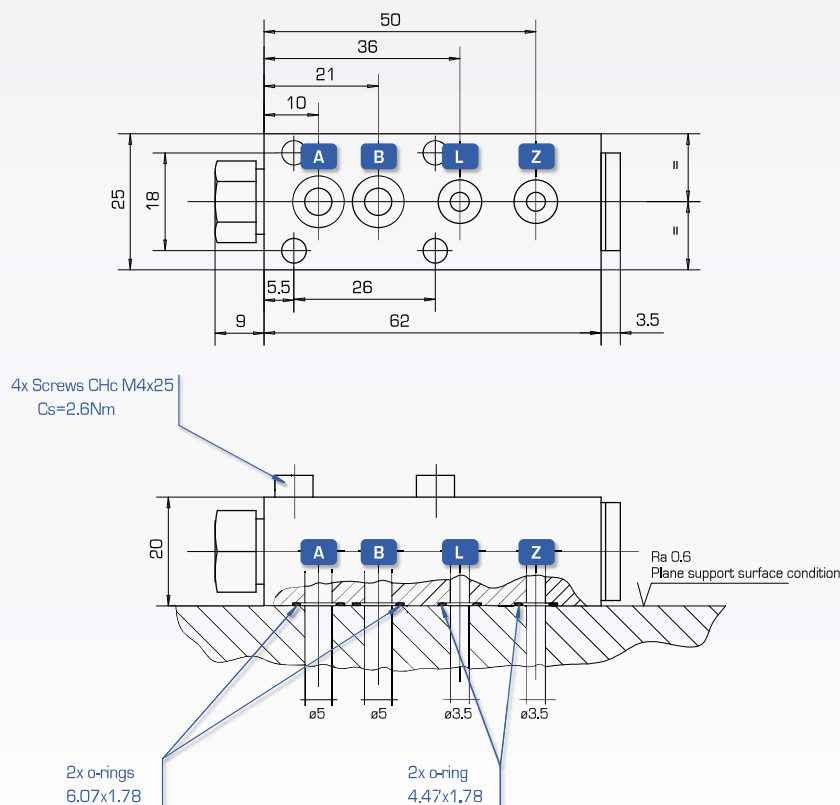
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On a plate or in-line assembly

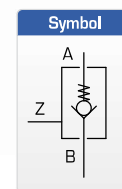
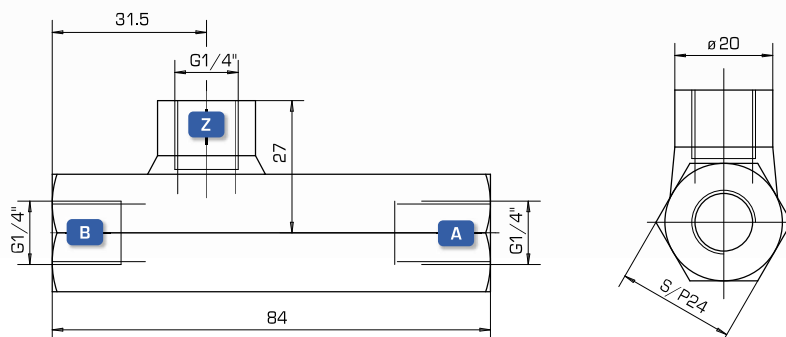
Principle of operation

The check allows free flow in the B to A direction, and prevents passage from A to B. Opening of A to B occurs under the hydraulic control Z. The pipe L is provided for decompression of the valve and must be connected to the return circuit (no pressure).

Check valve HRP1



Check valve RH1



Type	Order code	Port pressure				Max flow	Weight	Pressure ratio : (Control / A)
		A	B	Z	L			
		bar	bar	bar	bar	l/min	Kg	
HRP 1	A 64 034	700	700	700	0	20	0.25	1/3
RH 1	A 64 383	700	700	700	-	15	0.40	1/2

Hydraulic power units and components

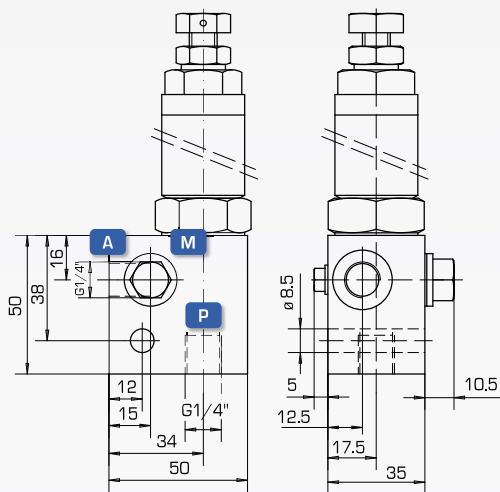
Pressure reducer : RDP

Sealed with check valves
Max using pressure : 400 bar

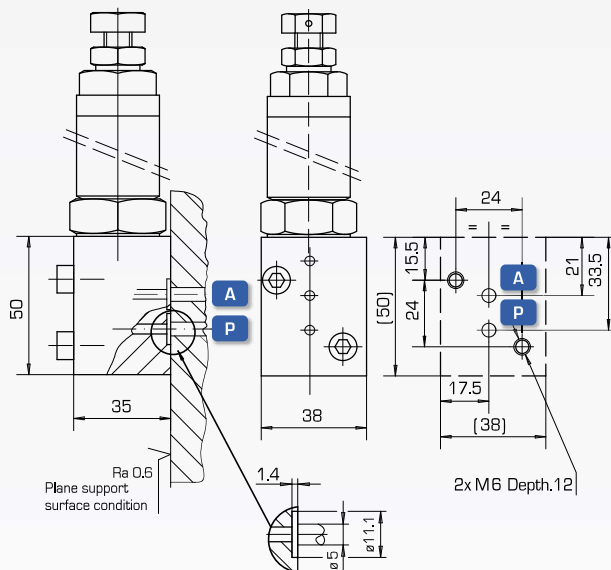
Principle of operation

The function of the pressure reducer is to maintain a constant receiver side pressure (secondary circuit) in spite of there being a higher variable inlet pressure (primary circuit). This model is made up of a check valve with no leak in close state (does not require any drainage oil port). When the primary pressure level at P is less than the secondary pressure at A, reversed circulation A to P for the valve (which is then open) is possible.

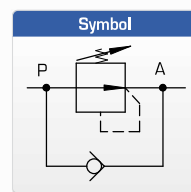
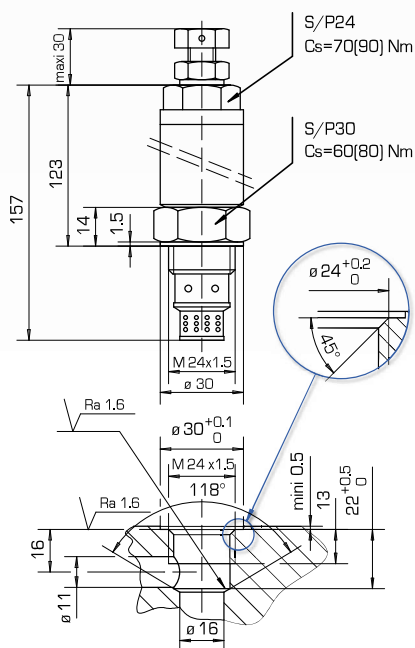
Type RDP 3_T



Type RDP 3_P



Type RDP 3_C



Type	Order code	Pressure range	Max flow
		bar	l/min
RDP 3	1	A 66 277	15 à 130
	2 T	A 66 325	20 à 200
	3	A 66 324	30 à 300
RDP 3	1	A 66 323	15 à 130
	2 P	A 66 288	20 à 200
	3	A 66 322	30 à 300
RDP 3	1	A 66 319	15 à 130
	2 C	A 66 320	20 à 200
	3	A 66 321	30 à 300

Distribution components : **CDIST**

Modular check valve and pressure reducer
Pressure switch - Intermediate block



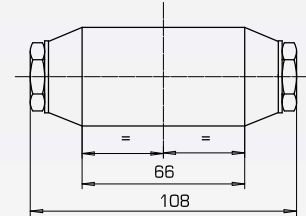
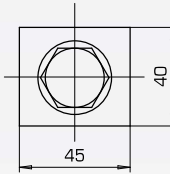
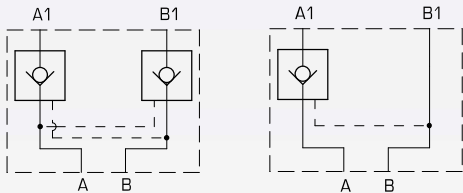
www.quiri.com

Modular check valve - CETOP O3

Valve reference on A and B : **A 64 463**

Valve reference on A : **A 64 464**

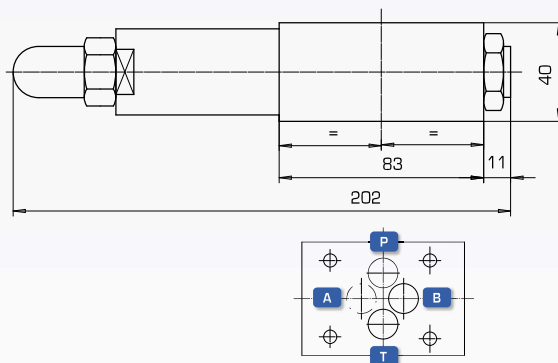
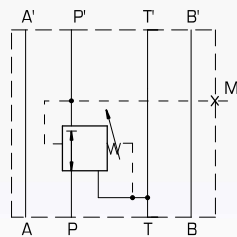
Valve reference on B : **A 64 471**



Modular pressure reducer - CETOP O3

Order code for adjustable pressure from 20 to 100 bar : **A 66 327**

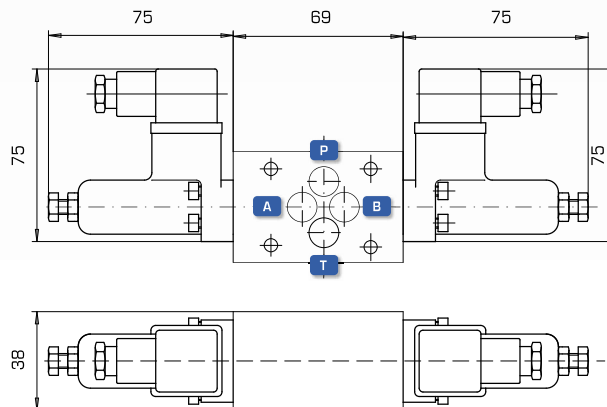
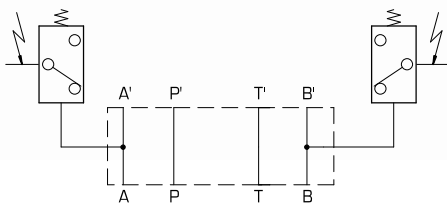
Order code for adjustable pressure from 50 to 210 bar : **A 66 326**



Pressure switch

Order code for adjustable pressure from 20 to 250 bar : **A 63 528**

Order code for adjustable pressure from 100 to 400 bar : **A 63 362**



Intermediate block

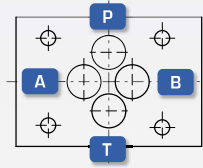
Order code : **834 A95/000**

Solenoid block assembly

Characteristics

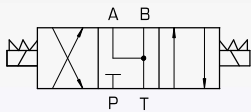
- maximum pressure : **315 bar**
- maximum flow : **60 l/mn**
- fluid : **hydraulic mineral oil**
- control voltage : **24 V**
- electrical power : **33 W**

P = Pressure
A, B = Services
B = Tank

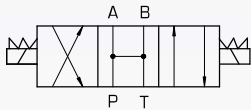


■ Solenoid block assembly DN6 - CETOP 03

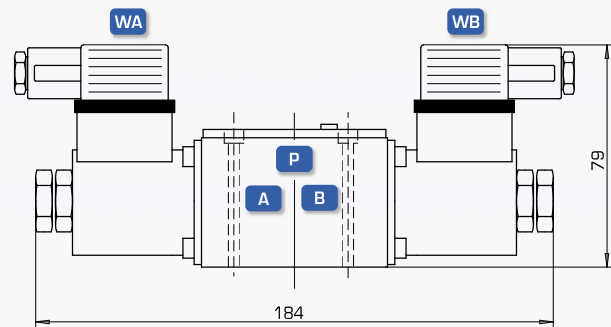
2 solenoids - 3 positions - centred by spring.



Order code : **A 63 699**

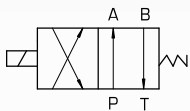


Order code : **A 63 702**

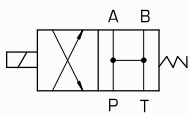


■ Solenoid block assembly DN6 - CETOP 03

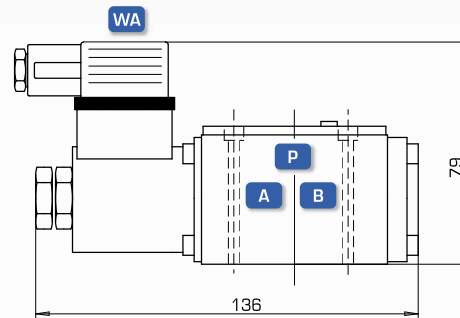
1 solenoid - 2 positions - return by spring.



Order code : **A 63 703**

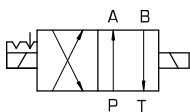


Order code : **A 63 698**



■ Solenoid block assembly DN6 - CETOP 03

2 solenoids - 2 end positions with slots.



Order code : **A 63 704**

