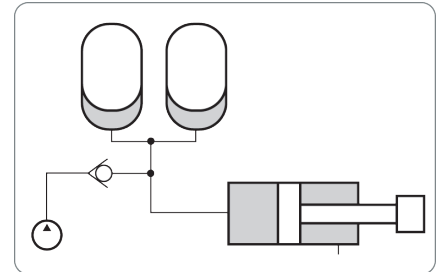


Accumulator Application 蓄壓器應用

1. Energy Storage

An Accumulator stores the surplus fluid discharged from a pump, and releases the fluid instantaneously when actuators require oil volume intermittently above the pump discharge capacity.

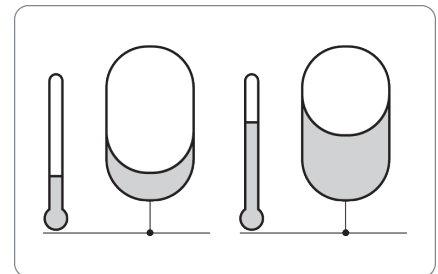
Therefore, the pump can be miniaturized and the noise and the temperature of hydraulic fluid can be decreased by ON-OFF operation. Moreover, the heat exchanger and the electric facility can also be miniaturized, and generally at least 20% of energy can be saved.



2. Pressure maintenance circuit

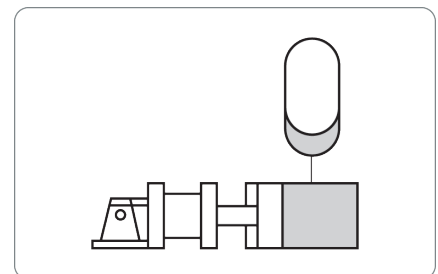
Temperature Compensation

In a closed hydraulic system, the volume of fluid expands when there is a rise in system temperature (it shrinks when temperature drops). If the expansion of the fluid is great enough, it may cause damage to the system components. Accumulators can be used to absorb this expansion of the fluid.



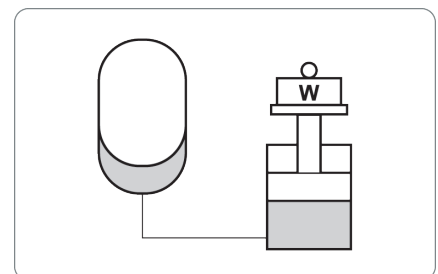
Leakage compensation

An Accumulator can also be used to make up fluid lost through leakage, cold temperatures, and other change in fluid volume. So, the constant system pressure can be obtained.



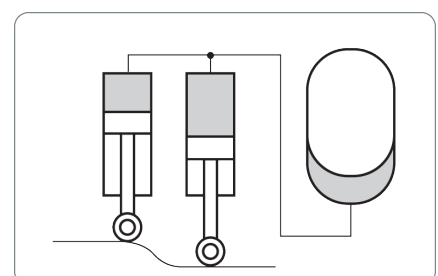
Counter Balance

An Accumulator settled in conjunction with a hydraulic cylinder can be used to absorb energy from the cylinders and acts as a counter balance for a large load.



Shock absorption

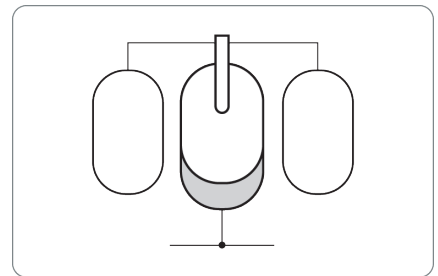
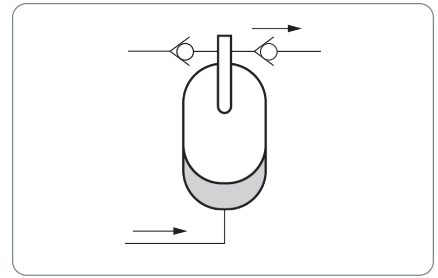
An Accumulator acts as a gas spring and can be used to absorb shocks between the wheels and the body of a vehicle.



3. Transfer Barrier

A transfer barrier type Accumulator can be used as a substitute for a hydraulic pump by transferring or transmitting fluids, with the bladder being operated as a piston to let a fluid (oil or gas) flow into and out of the Accumulator intermittently.

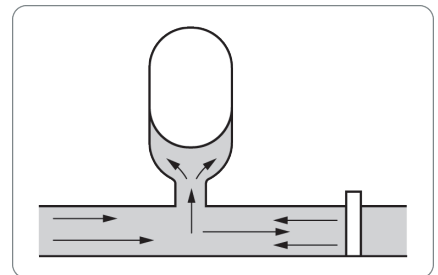
By adding backup nitrogen gas bottles to the systems, a transfer barrier type Accumulator can discharge a greater volume of fluid even when the difference between the maximum and minimum system pressure is small.



4. Shock Dampening

Rapid opening and closing of valves can create shock waves in a hydraulic system. These shock conditions can create noise, damage, and premature failure to hoses, fittings, and other components.

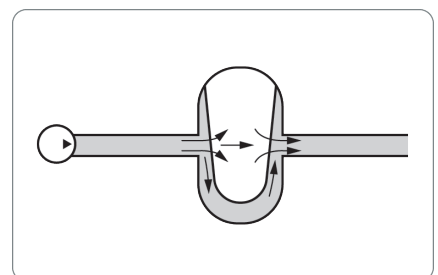
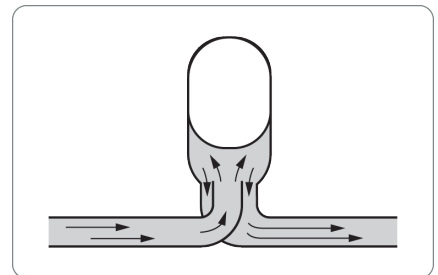
An Accumulator can be used to eliminate the shock in a hydraulic system.

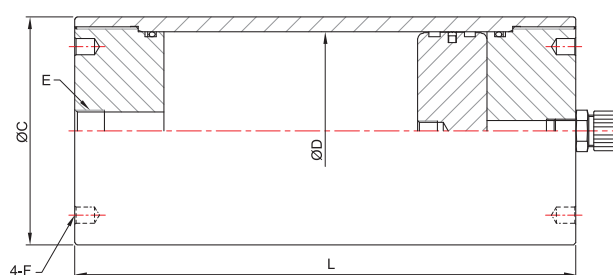
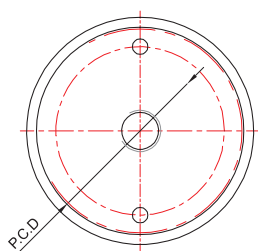


5. Pulsation Dampening

To obtain efficiencies of “energy storage”, “shock dampening”, and “pulsation dampening” at the same time, an Accumulator with “Super Pulse Damper” or “Pulse Damper” is suitable.

An Accumulator can be used to dampen shocks and pulsations caused by pumps, protect a hydraulic system from surge and vibration, and eliminate noise. An in-line type Accumulator is most effective for pulsation dampening application.





MODEL CODE

SERIES

D=Piston Accumulators

MAX WORKING PRESSURE(bar)

150=150bar=PISTON DIAMETER 100mm
260=260bar

MATERIAL OF SEALS

S=NBR/PU
Q=NBR/PTFE compound
V=FKM/PTFE compound

PISTON DIAMETER

04=40mm **05**=50mm
08=80mm **10**=100mm

CERTIFICATE CODE

U=PED 2014/68/EU

NOMINAL VOLUME(LITRE)

002=0.02L **005**=0.05L **01**=0.1L **02**=0.2L
03=0.3L **05**=0.5L **07**=0.7L **10**=1L
15=1.5L **20**=2L **25**=2.5L **30**=3L

FLUID CONNECTION

S=Standard

GAS SIDE CONNECTION

S=Standard

PRE-CHARGE PRESSURE (bar)

000=0bar
030=30bar

D 260 - Q - 08 - U - 10 - S S - 000

SPECIAL SIZES AND SPECIAL VERSIONS ON REQUEST.

DIMENSION

LITRE	L	ØC	ØD	E	F	P.C.D
0.02	96	50	40	G 3/8	Ø 6.1	30
0.05	120	50	40	G 3/8	Ø 6.1	30
0.1	160	50	40	G 3/8	Ø 6.1	30
0.2	240	50	40	G 3/8	Ø 6.1	30
0.3	320	50	40	G 3/8	Ø 6.1	30
0.5	480	50	40	G 3/8	Ø 6.1	30
0.1	141	60	50	G 3/8	Ø 6.1	40
0.2	192	60	50	G 3/8	Ø 6.1	40
0.3	243	60	50	G 3/8	Ø 6.1	40
0.5	345	60	50	G 3/8	Ø 6.1	40
0.7	447	60	50	G 3/8	Ø 6.1	40
1	600	60	50	G 3/8	Ø 6.1	40
0.3	170	95	80	G 1/2	Ø 8.1	65
0.5	210	95	80	G 1/2	Ø 8.1	65
0.7	250	95	80	G 1/2	Ø 8.1	65
1	310	95	80	G 1/2	Ø 8.1	65
1.5	410	95	80	G 1/2	Ø 8.1	65
2	510	95	80	G 1/2	Ø 8.1	65
0.5	177	114	100	G 1/2	Ø 8.1	85
1	241	114	100	G 1/2	Ø 8.1	85
1.5	305	114	100	G 1/2	Ø 8.1	85
2	369	114	100	G 1/2	Ø 8.1	85
2.5	433	114	100	G 1/2	Ø 8.1	85
3	497	114	100	G 1/2	Ø 8.1	85

TECHNICAL DATA

Operating pressure : Max.260bar
Operating temperature : NBR -30°C to +80°C
Mounting type : any position
Note : Piston diameter 100mm only limited to pressure 150 bar

STANDARD CONSTRUCTION CHARACTERISTICS

Gas connection valve : 5/8"-18UNF
Painting : anti-rust primer
Test : standard factory tested
Piston speed : standard 0.5m/s

STANDARD CONSTRUCTION CHARACTERISTICS

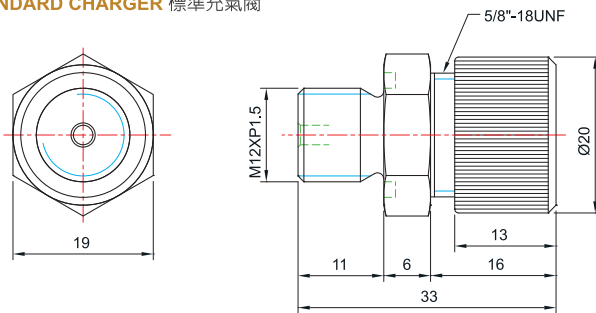
- D260 series is ideal for light applications.
- Excellent dynamic sealing performance can continue to maintain low friction operation.
- Excellent extrusion resistance.
- Preferred option for media separation, such as fluid and gas.
- High cost performance.

特點和優勢

- D260 系列非常適合輕型應用。
- 卓越的動態密封性能可持續保持低摩擦運行。
- 出色的抗擠壓性。
- 介質分離的首選選項，例如液體和氣體。
- 高性價比。

CHARGER

■ STANDARD CHARGER 標準充氣閥



STANDARD CONSTRUCTION CHARACTERISTICS

- Operating pressure : Max.280bar.
 - Gas connection port thread : 5/8"-18UNF
 - Painting : anti-rust primer
 - Test : standard factory tested
 - Description : STANDARD CHARGER
- Not only can provide gas filling and discharge function, but also effectively prevent gas leakage.

標準充氣閥可提供氣體充填及排放功能，能有效防止氣體洩漏。

■ Pressure gauge model 壓力計轉接頭

GAS Side connection on the piston accumulator for permanent monitoring of the pre-charge pressure

