



This valve assembly is meant to charge an accumulator using a fixed displacement pump. When the pressure reaches the set point of the valve, the pump is unloaded. When the pressure drops to the value determined by the fixed percentage of the pilot valve, the pump is brought back on line to recharge the accumulator. The ventable relief serves a dual purpose as a main stage to unload the pump and as a system over-pressure relief. The assembly has two additional features; a simple circuit that softens the unloading of the pump and provisions for remote sensing of the accumulator pressure.

**TECHNICAL DATA** NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Body Type	Line mount
Mounting Hole Diameter	.41 in.
Mounting Hole Depth	Through
Mounting Hole Quantity	2

- NOTES:**
- Some applications may require additional volume for a smoother shift. Should this become necessary, an auxillary port has been provided to attach a length of hose for additional volume.
  - Remote sensing of accumulator charge pressure can be achieved by interchanging cavity plugs XZCC and XZOC, and connecting RS port to Accumulator.
  - Important:** Carefully consider the maximum system pressure. The pressure rating of the manifold is dependent on the manifold material, with the port type/size a secondary consideration. Manifolds constructed of aluminum are not rated for pressures higher than 3000 psi (210 bar), regardless of the port type/size specified.
  - For detailed information regarding the cartridges contained in this assembly, click on the models codes shown in the Included Components tab.



MODEL  
**XQCH**

Accumulator sense, pump unload assembly  
**CAPACITY: 10 gpm**

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**CONFIGURATION OPTIONS**

**Model Code Example: XQCHLANBK**

CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N)
L Standard Screw Adjustment	A 1000 - 3000 psi (70 - 210 bar), 1000 psi (70 bar) Standard Setting	N Buna-N	
C Tamper Resistant - Factory Set		V Viton	
K Handknob			

**PRIMARY CARTRIDGE** (B)

B 20% (with QPAB primary cartridge, 20%, accumulator sense, pump unload valve - pilot capacity)
E 10% (with QPAE primary cartridge, 10%, accumulator sense, pump unload valve - pilot capacity)
D 50% (with QPAD primary cartridge, 50%, accumulator sense, pump unload valve - pilot capacity)
C 30% (with QPAC primary cartridge, 30%, accumulator sense, pump unload valve - pilot capacity)
A 15% (with QPAA primary cartridge, 15%, accumulator sense, pump unload valve - pilot capacity)

**INCLUDED COMPONENTS**

Part	Description	Quantity
A330-006-006*	SAE Plug	2
A330-006-012*	SAE Plug	1
CXDAXCN	Cartridge	1
LPBDXDN	Cartridge	1
QPABLAN	Cartridge - Primary	1
RVCFXAN	Cartridge	1
XZCCXXN	Cartridge	1
XZOCXXN	Cartridge	1