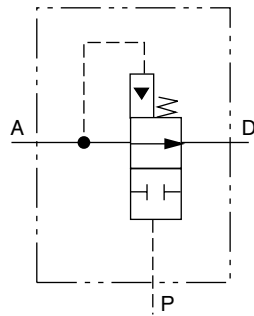
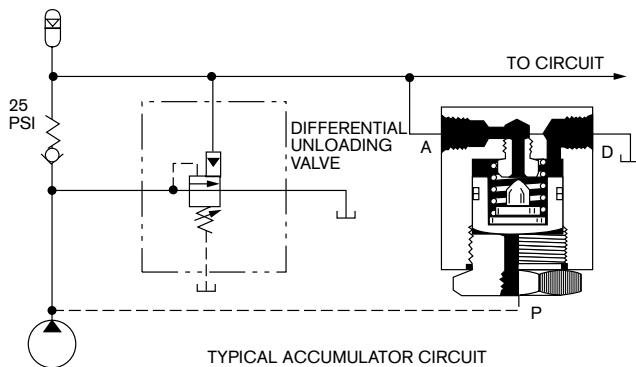


**Accumulator Discharge Valve
3000PSI**



| Specifications | |
|---|---|
| Valve Function | Accumulator Discharge |
| Mounting | Inline not restricted |
| Fluid | Mineral-oil or fluid HFA / B / C / D |
| Viscosity | 60. . . 2500 SUS (10. . . 500 cst) |
| Fluid-temperature | -13 to 176°F (-25 to 80°C) |
| Filtration | Contamination class 10, according to NAS 1638 can be realized with filter $\beta = 75$ |
| Seals | Viton |
| Pressure differential (discharge valve) | 140:1 |
| Pilot pressure (discharge valve) | 65psi (4.5bar) |
| Flow rating | See "Performance Characteristics" |
| Drain | Drain must be connected directly to tank. Back pressure to be less than 10% of setting. |

Pictorial



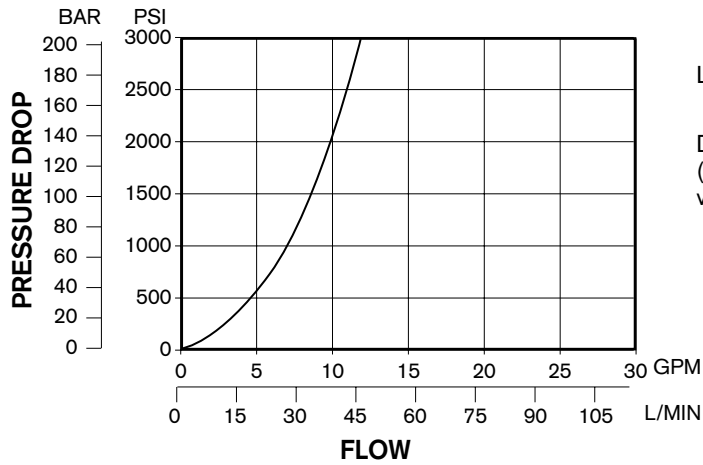
Used in circuits powered by non-pressure compensated pumps, the accumulator discharge valve is designed to automatically discharge the pressurized fluid from the accumulator circuit upon pump shut down. Basically, it is a pilot operated, poppet type 2-way valve.

This "normally open" valve is held in the closed position by the pilot pressure from the outlet port of the pump. The pump pilot pressure is directed against the large piston. Pressure in the accumulator portion of the circuit is sensed directly on the smaller opposing piston.

With a 140:1 area ratio between the two pistons, the valve will remain in the closed position as long as the pump to accumulator pressure ratio is maintained at or above a level that is inversely proportional to the area ratio. When the pump pilot pressure drops below that level, the valve is piloted open by the full pressure of the accumulator circuit and the accumulator is discharged directly to tank.

Performance Characteristics (typical)

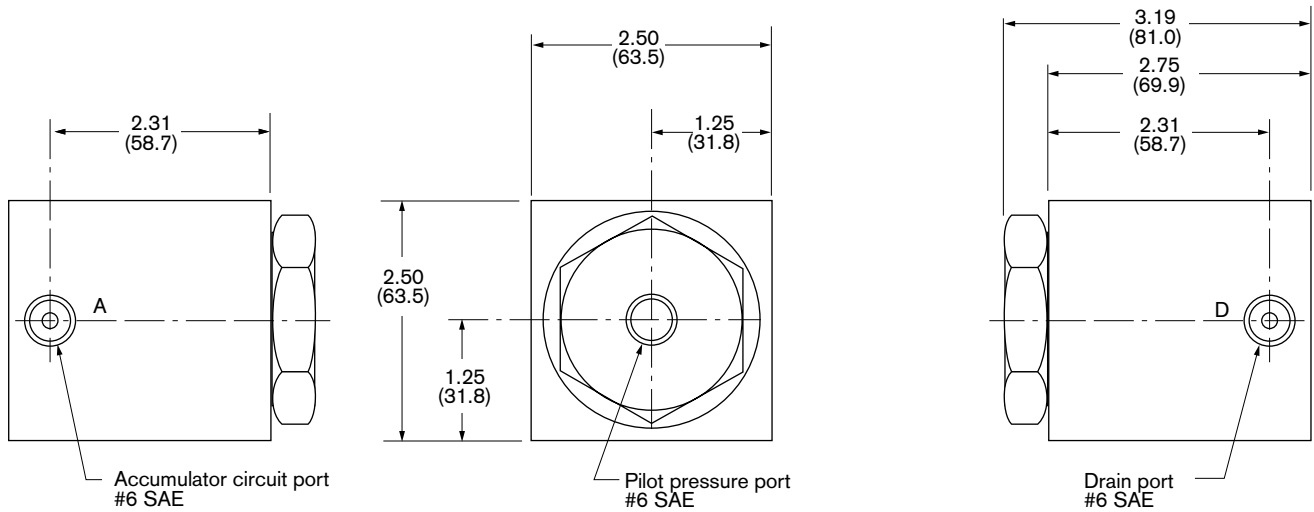
DISCHARGE RATE



Leakage at 3000 psi: 10 drops per minute.

Data plotted at oil temperature of 120°F (48.8°C), using oil with 200 SUS (43cSt) viscosity at 100°F (37.7°C).

Dimensional Data

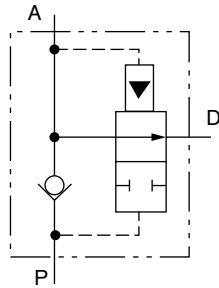


NOTE:
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE NOMINAL

How to Order

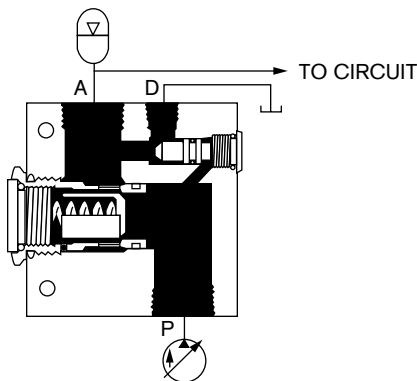
AD - P1 - 51 - F - 10 | 982378

**Accumulator Discharge Valve
WITH INTEGRAL CHECK
3000PSI**



| Specifications | |
|---|--|
| Valve Function | Accumulator Discharge with check |
| Mounting | Inline not restricted |
| Fluid | Mineral-oil or fluid HFA / B / C / D |
| Viscosity | 60. . . 2500 SUS (10. . . 500 cst) |
| Fluid-temperature | -13 to 176°F (-25 to 80°C) |
| Filtration | Contamination class 10, according to NAS 1638 can be realized with filter $\beta = 75$ |
| Seals | Viton |
| Pressure differential (discharge valve) | 4:1 |
| Flow rating | See "Performance Characteristics" |

Pictorial



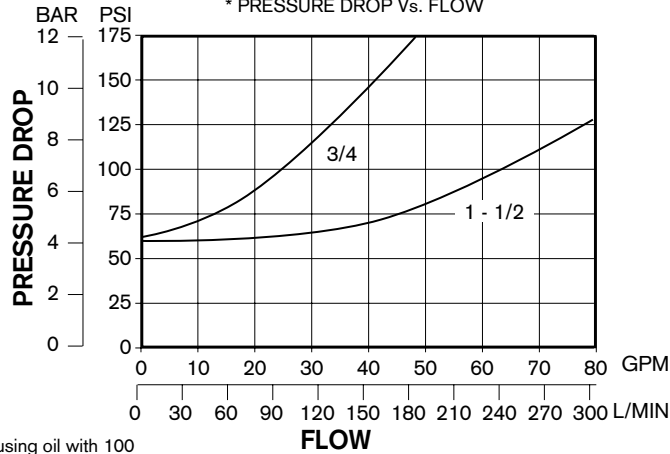
The accumulator discharge valve with integral check is designed to be utilized in accumulator circuits powered by pressure compensated pumps. This valve will automatically discharge the pressurized fluid in the accumulator upon pump shutdown. Basically, it is a pilot operated, poppet type 2-way with an integral check.

Pressurized fluid from the pump is ported into the valve at Port "P". Port "A" is connected to the accumulator circuit; Port "D" is connected to drain or tank. Fluid from the upstream side of the check is directed to the large area of the discharge poppet while fluid from the downstream side of the check is directed against the small area of the poppet. With a 4:1 area ratio between the two ends of the poppet, the valve is piloted closed and will remain closed as long as the pump to accumulator pressure ratio remains at or above a level inversely proportional to the area ratio. When the pressure ratio drops below that level, such as on pump shutdown, the discharge poppet is piloted open, discharging the accumulator directly to tank.

Performance Characteristics (typical)

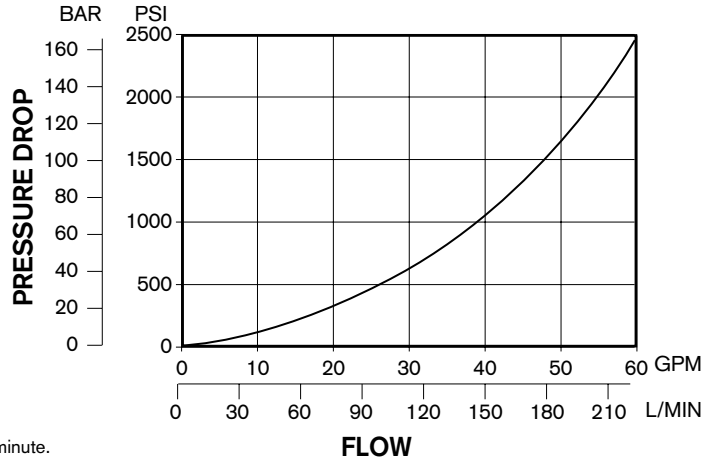
PRESSURE DROP

* PRESSURE DROP Vs. FLOW



* ACROSS CHECK Data plotted using oil with 100 SUS (21cSt) viscosity at 120°F (48.8°C)

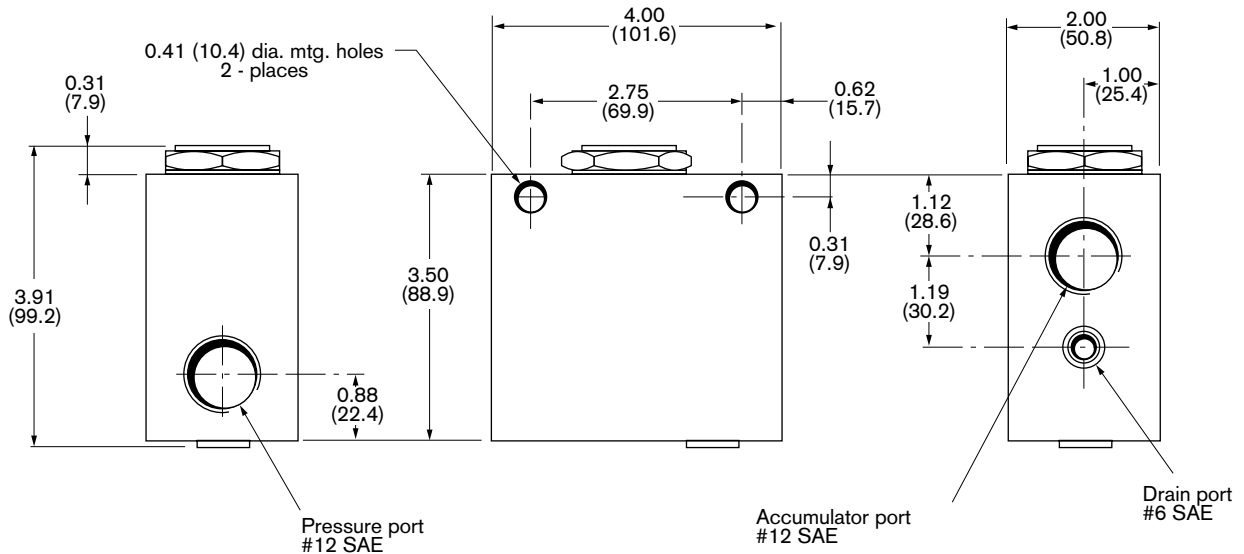
DISCHARGE RATE



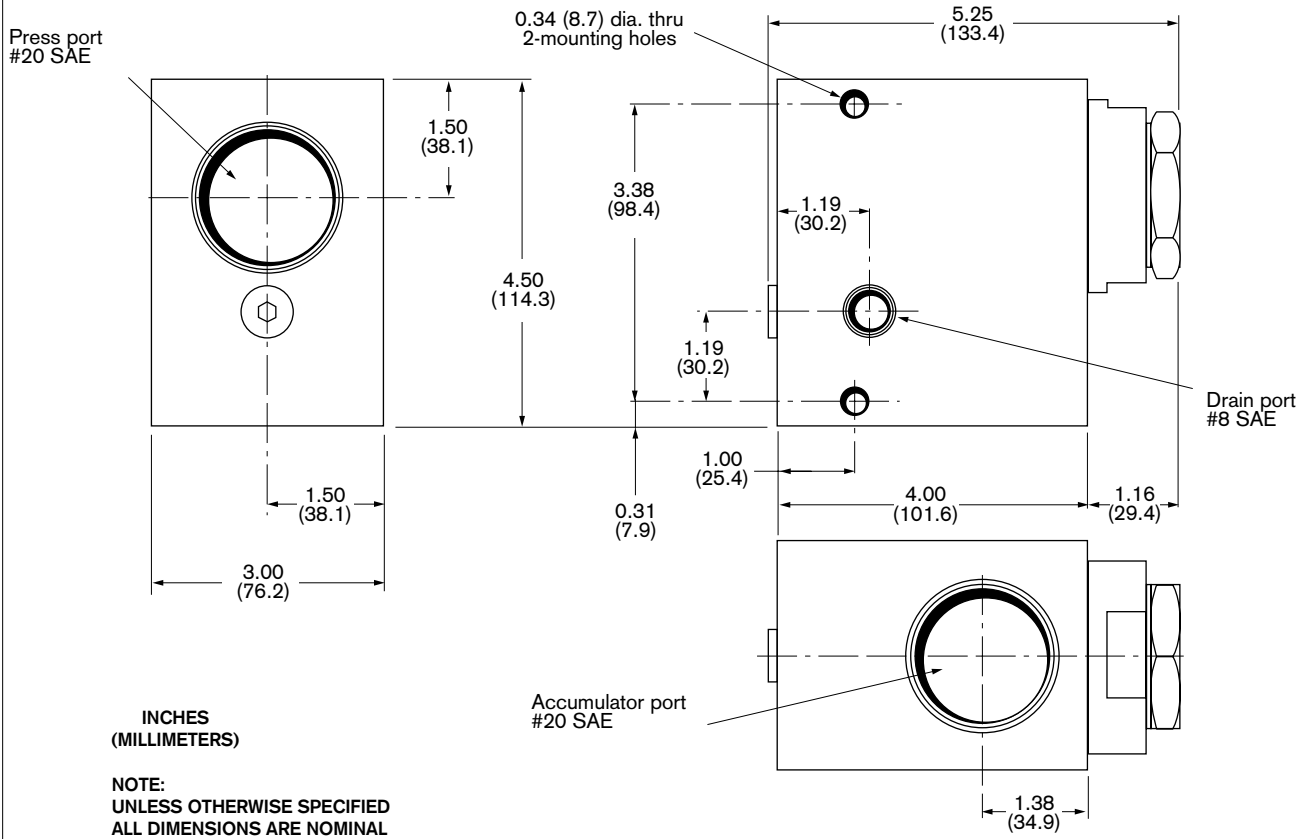
Leakage at 3000 psi : 10 drops per minute.

Data plotted at oil temperature of 120°F (48.8°C), using oil with 200 SUS (43cSt) viscosity at 100°F (37.7°C).

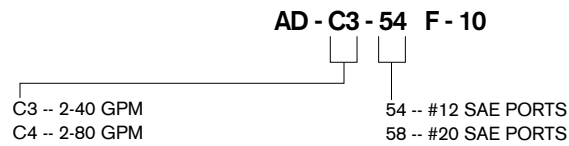
Dimensional Data C-3 Valve



Dimensional Data C-4 Valve



How to Order



| | |
|--------------|--------|
| AD-C3-54F-10 | 982285 |
| AD-C3-58F-10 | 982379 |