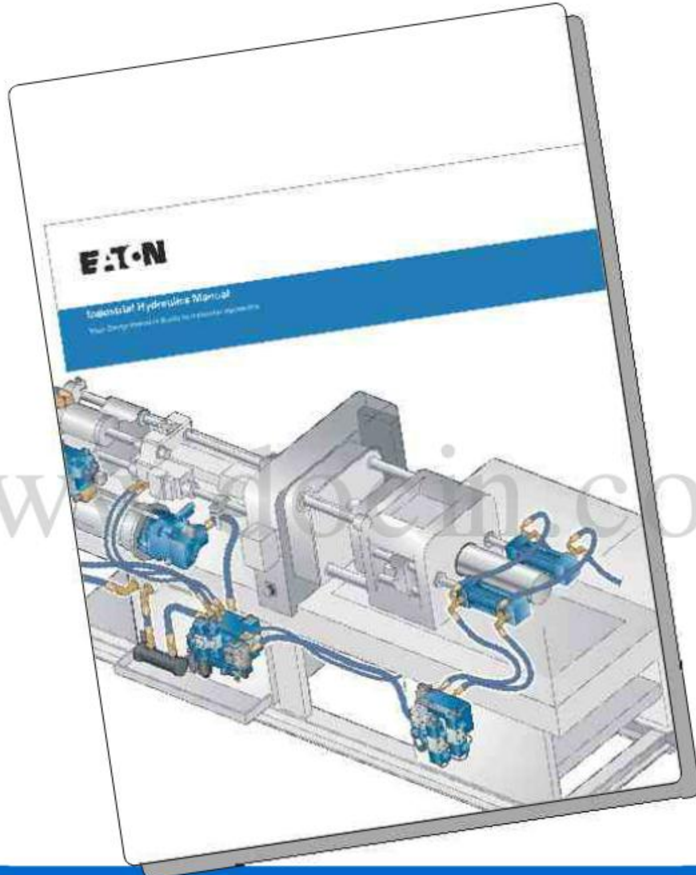
CHAPTER 17

ACCESSORIES



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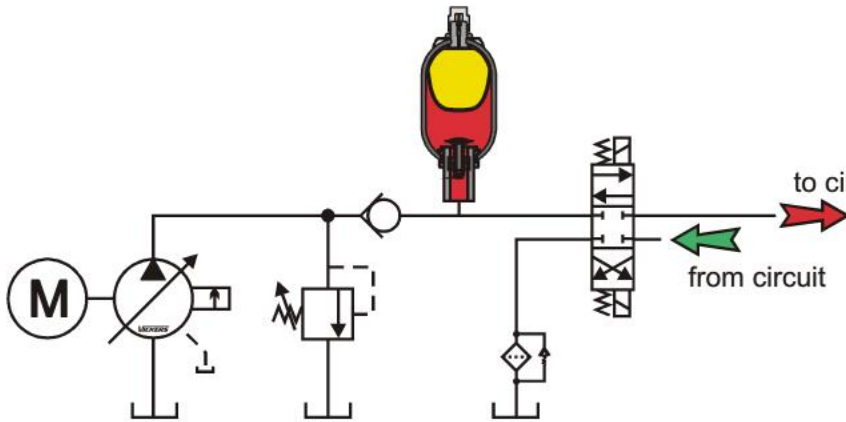

- Energy Source (supplement pump)
- Emergency Power
- Shock Absorption
- Thermal Expansion Protection
- Leakage Compensation
- Pulsation Dampening
- Compensation for Pump yoke Lag

Figure 17-1 Accumulator applications

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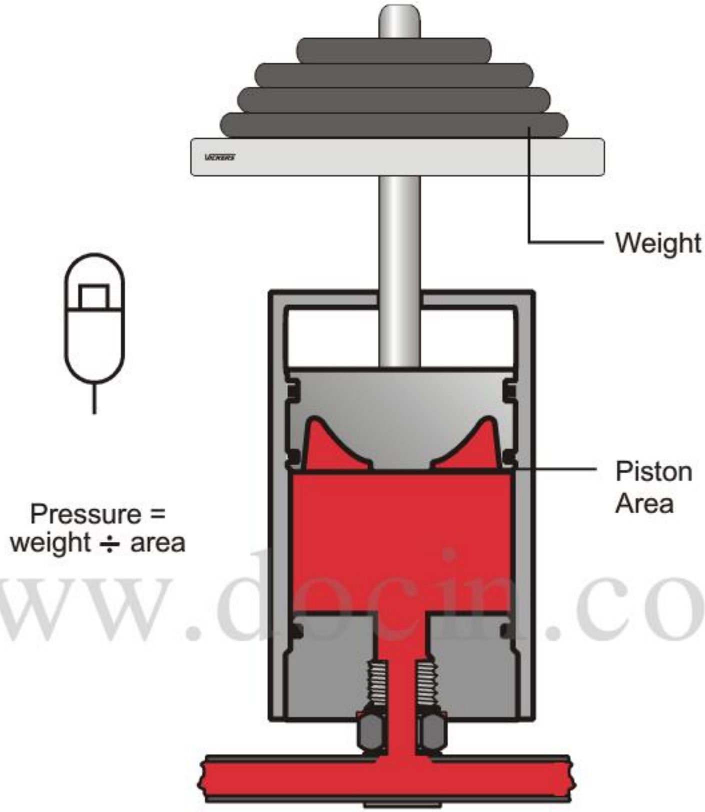

Figure 17-2 Weight loaded accumulator

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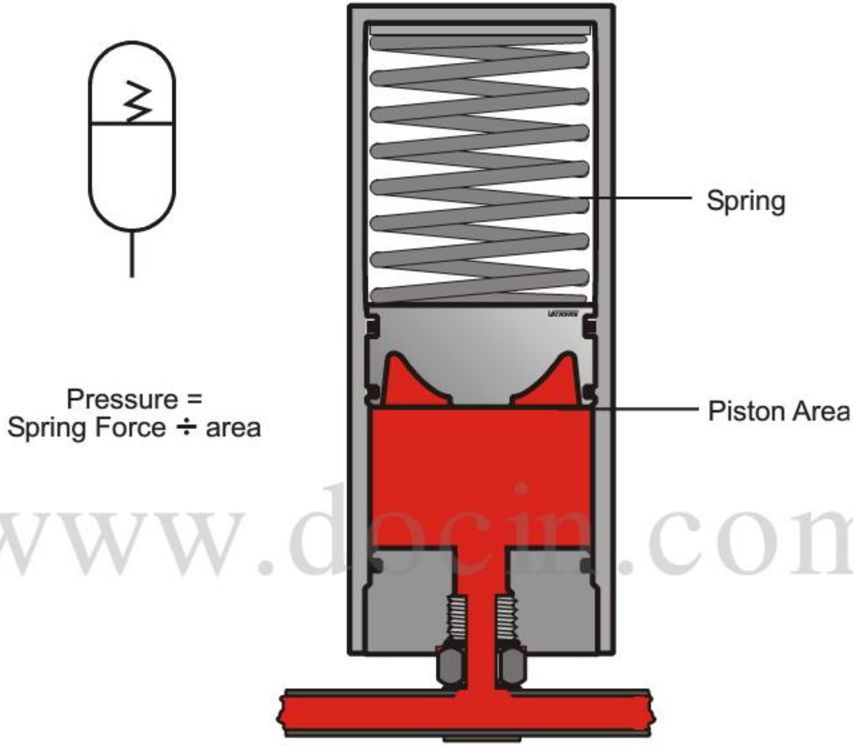

Figure 17-3 Spring loaded accumulator

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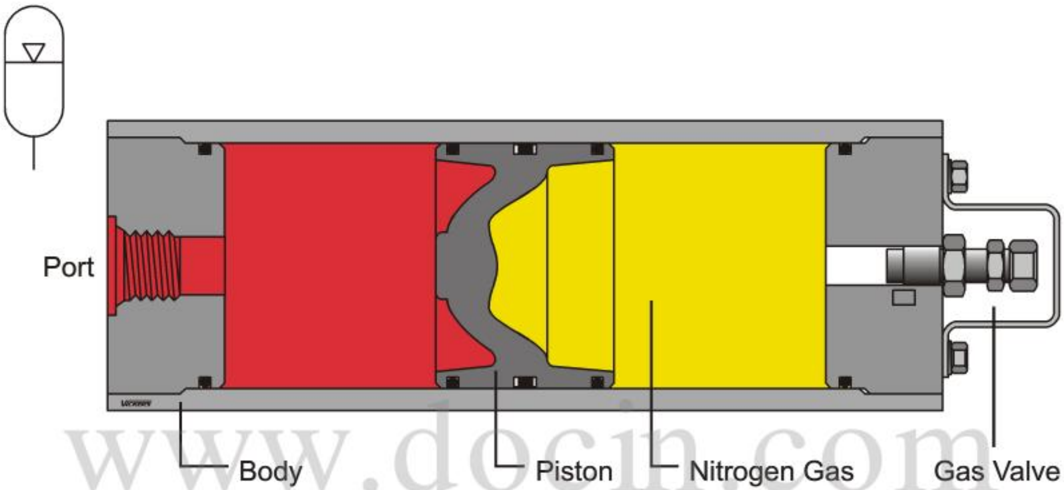

Figure 17-4 Gas charged piston accumulator

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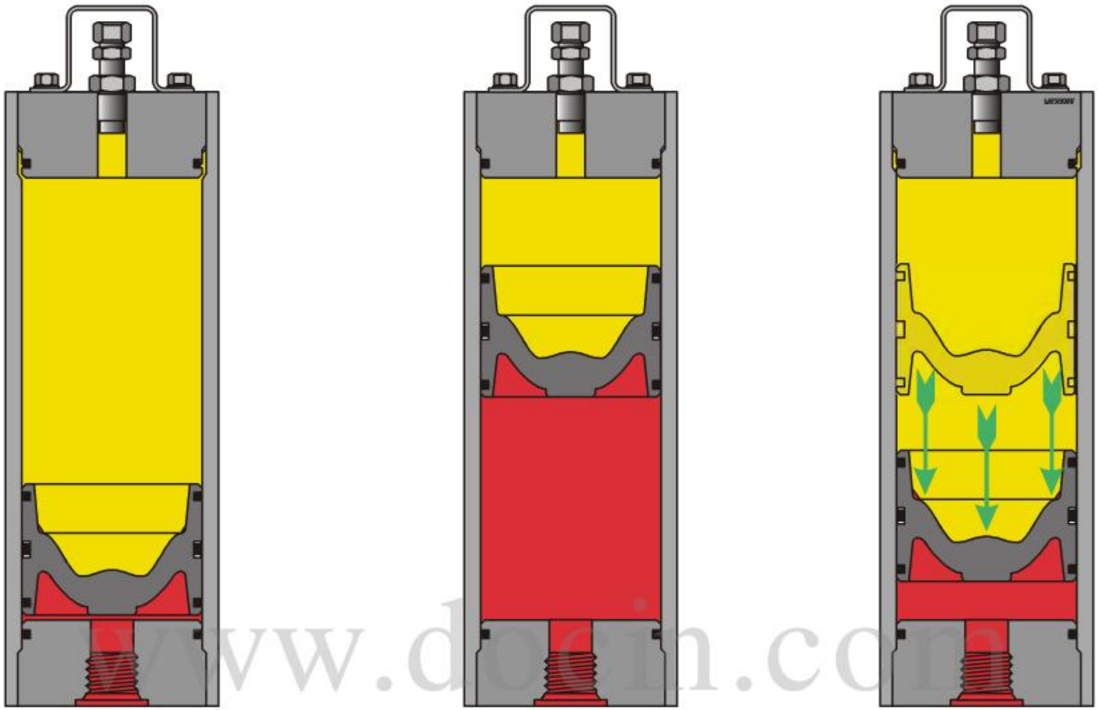

System Pressure
Less Than $p_{precharge}$

System Pressure
at p_{max}

System Pressure
at p_{min}

Figure 17-5 Piston accumulator operating cycle

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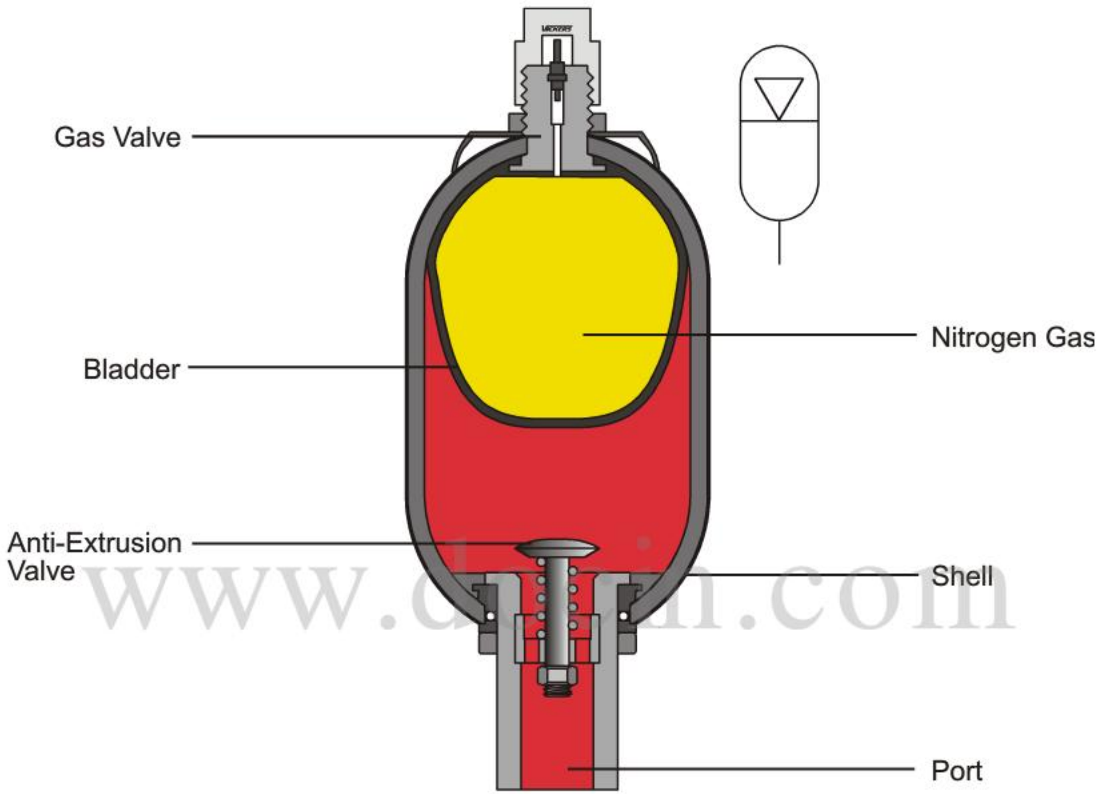

Figure 17-6 Bladder-type accumulator

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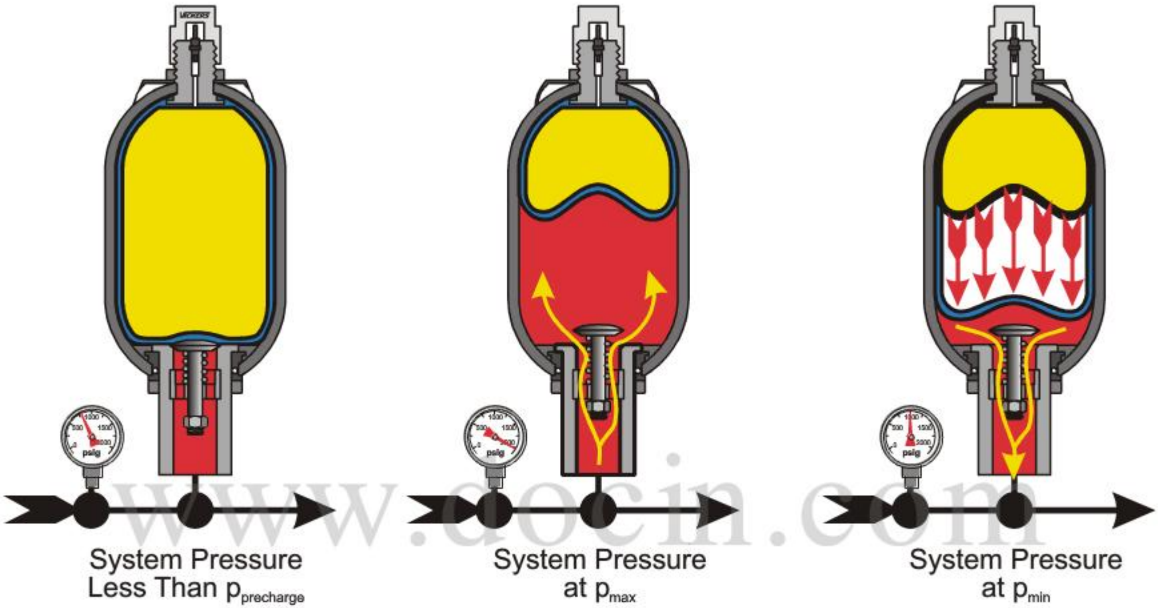

Figure 17-7 Bladder accumulator operation

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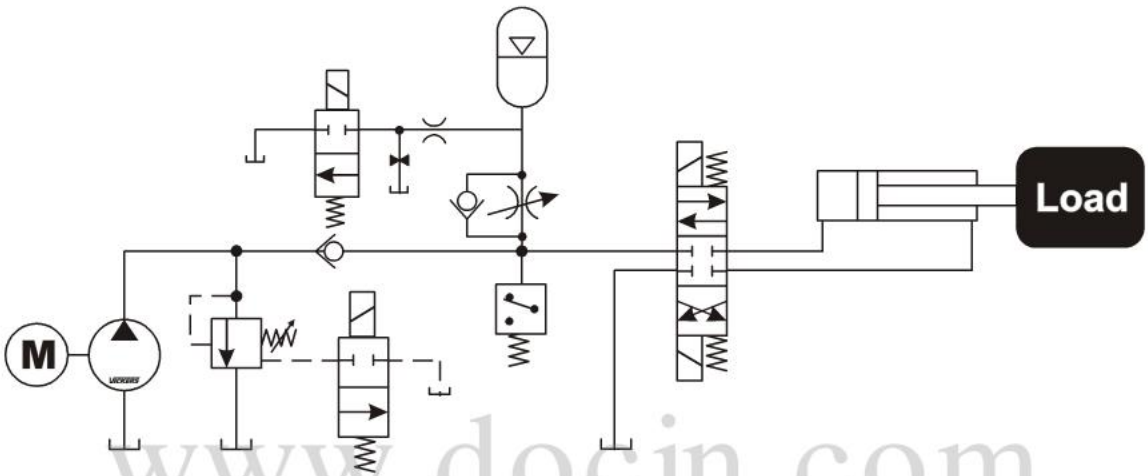

Figure 17-8 Accumulator circuit operation

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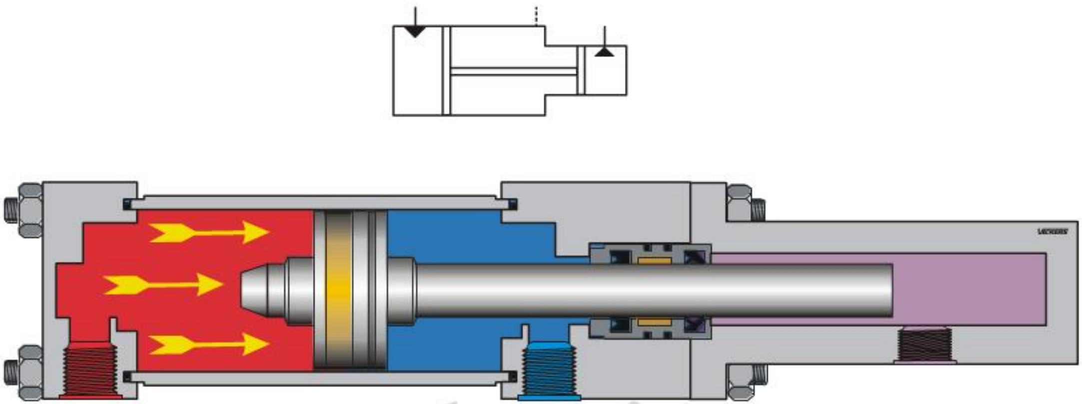

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Figure 17-9 Typical Pressure Intensifier

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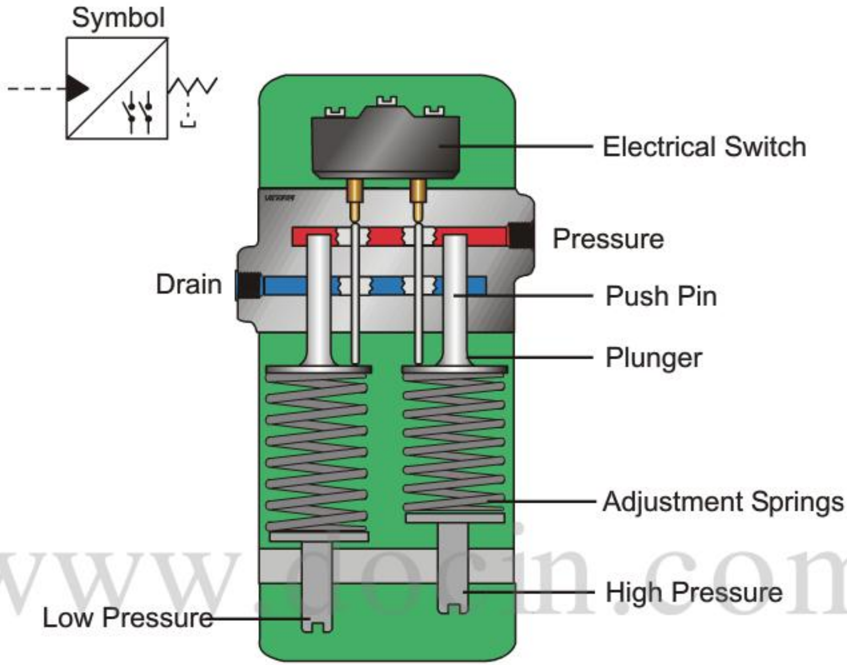

Figure 17-10 Typical pressure switch

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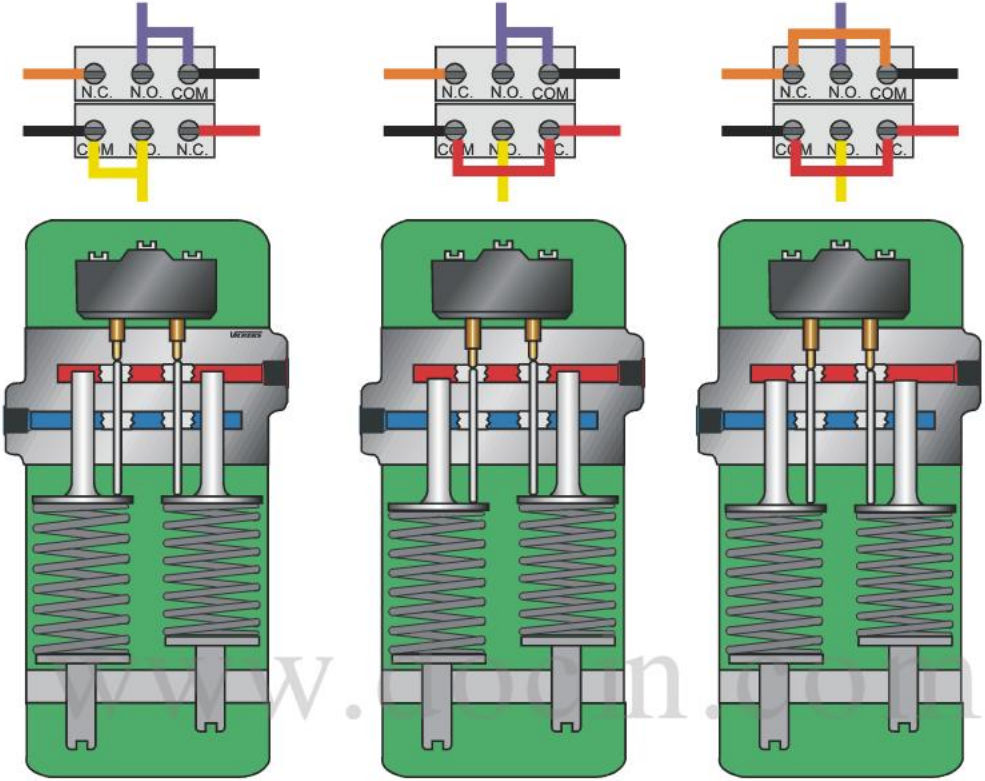

No Switches Made

Low Pressure Switch Made

Both Switches Made

Figure 17-11 Pressure switch operation

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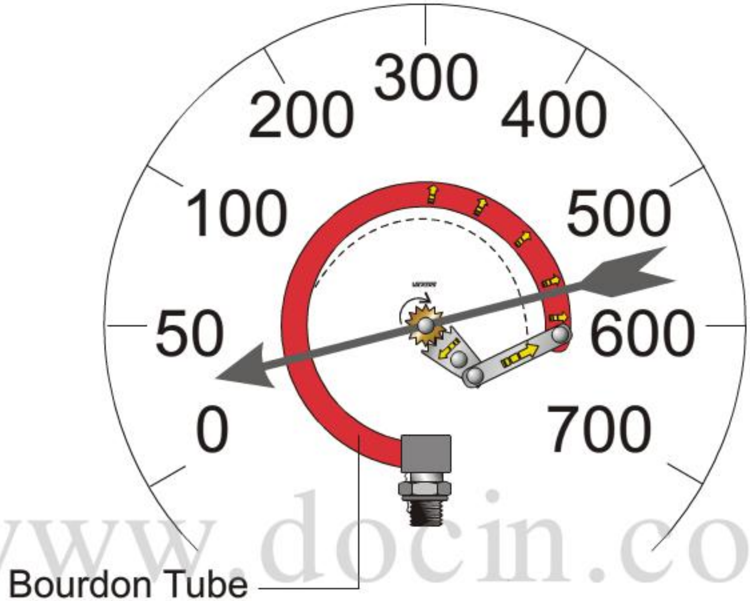

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Figure 17-12 The bourdon tube gauge

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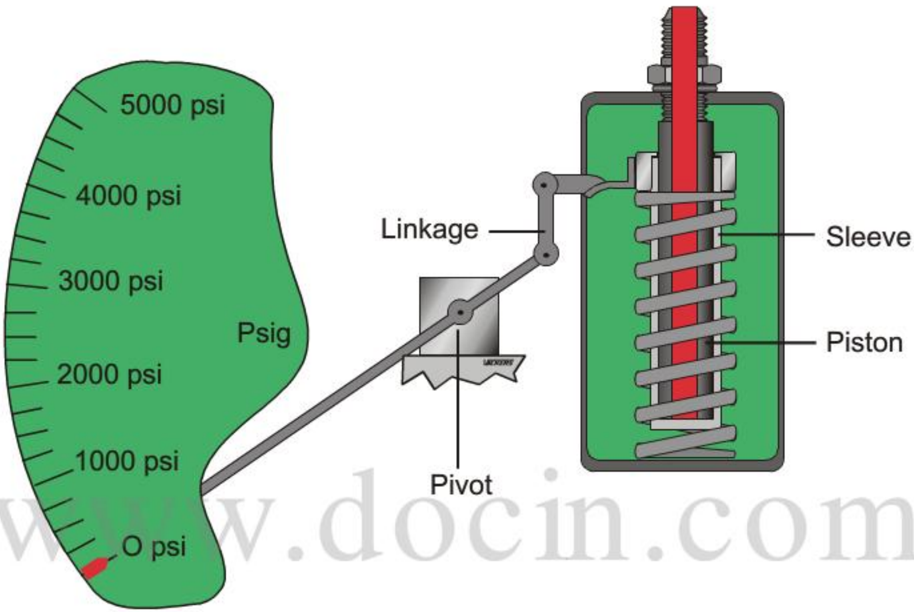

Figure 17-13 Schrader gauge operation

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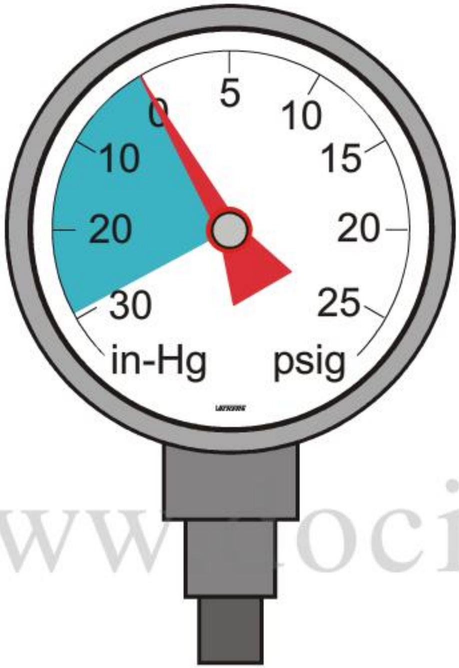

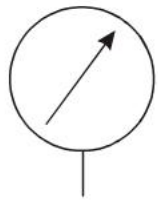

Figure 17-14 Vacuum gauge calibrated in inches of mercury

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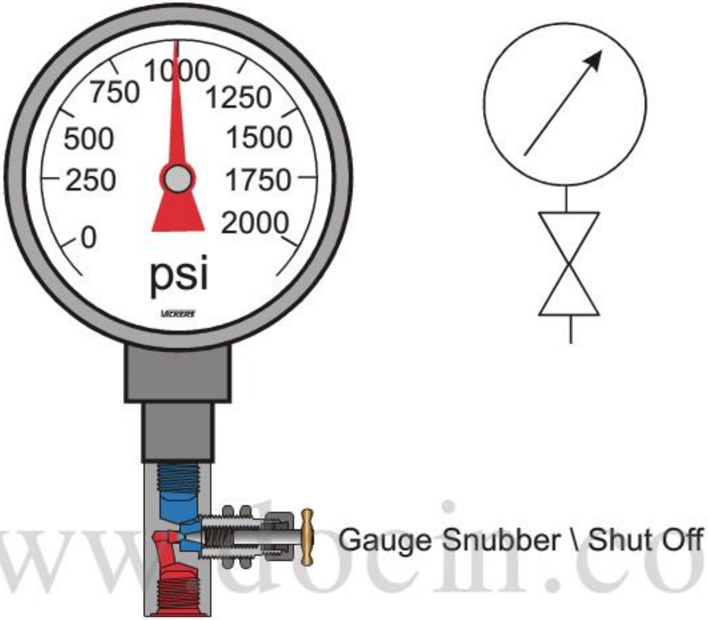

Figure 17-15   Gauge installed with shutoff valve and snubber

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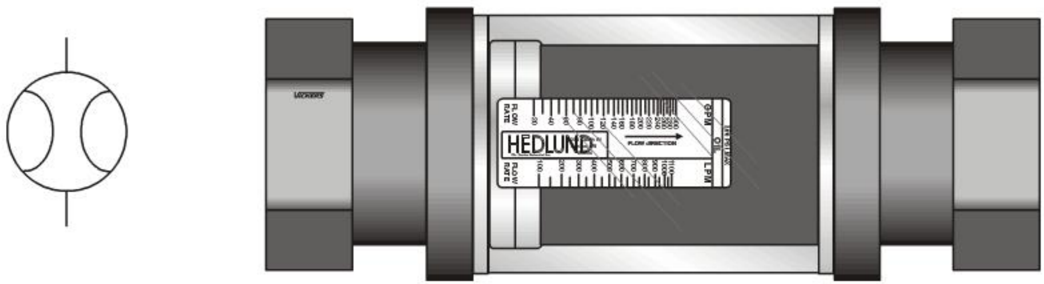

Figure 17-16 Typical flow meter courtesy of hedland

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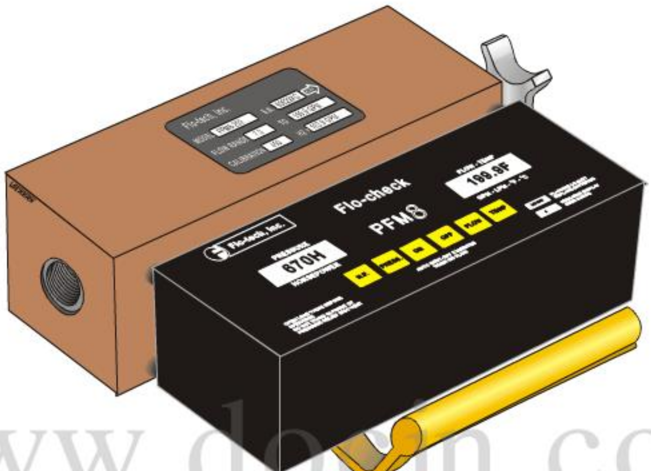

Figure 17-17 Multifunction test instrument courtesy of hedland

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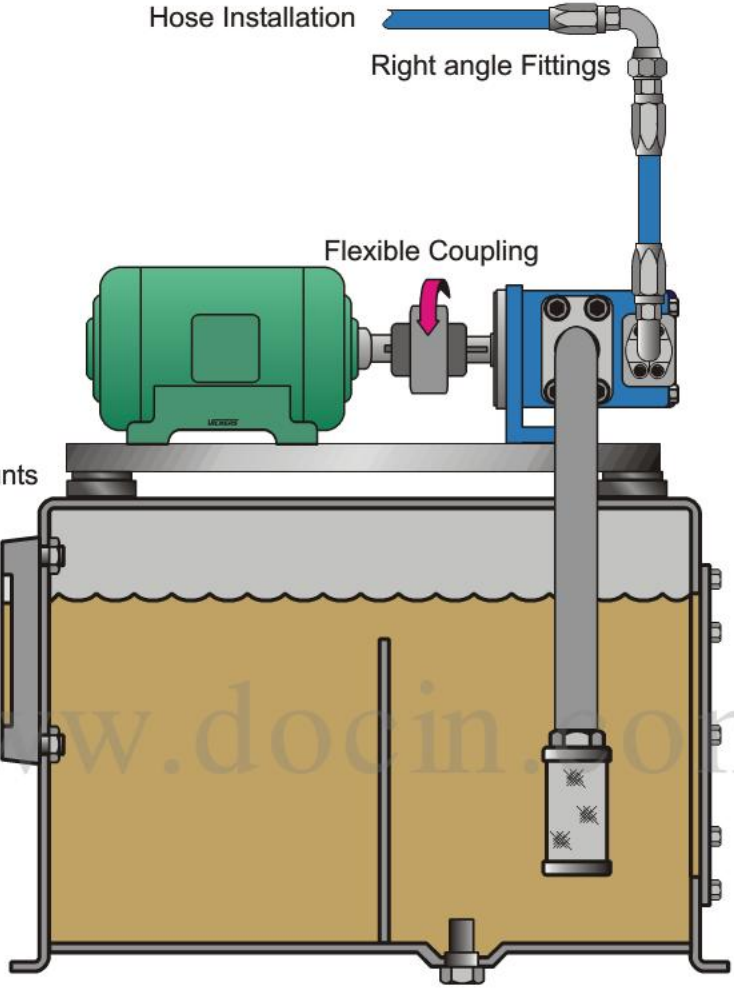

Figure 17-18 Noise isolation of a typical power unit

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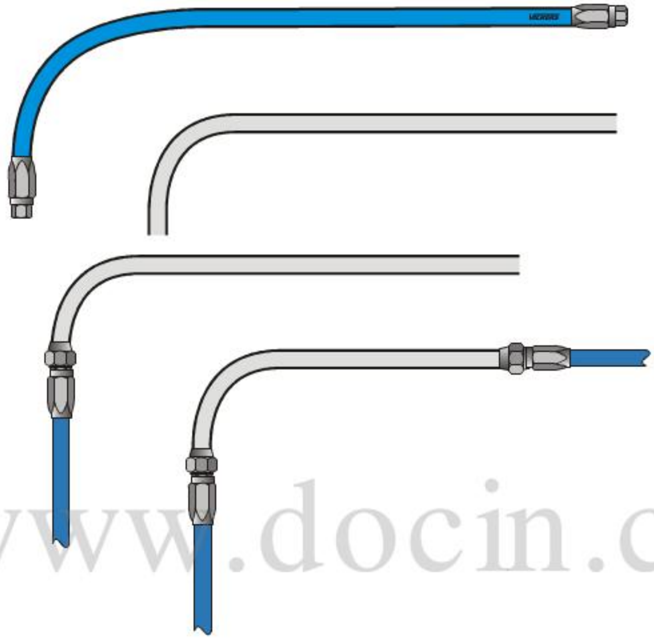

Figure 17-19 Sound and vibration isolation using hose

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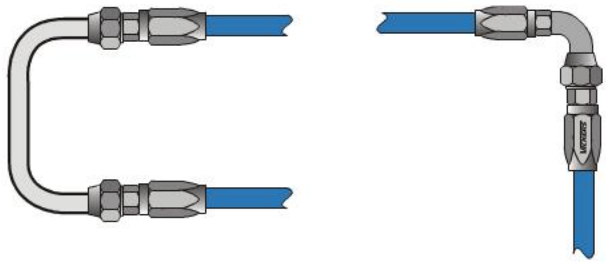

Figure 17-20 Preferred short line configuration

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