

Hydril Pressure Control PASAFE™

Pulsation Dampener

Maintenance-free performance for extreme conditions

Product description

Hydril Pressure Control PASAFE™ pulsation dampeners extend pump life and enhance piping system performance by controlling pressure and flow pulsations. Virtually maintenance-free and available in three specialized flow-through designs, PASAFE discharge dampeners and suction stabilizers are engineered specifically to handle abrasive, corrosive, high-temperature and high-pressure fluids in the most extreme environments.

Hydril Pressure Control R-PASAFE dampeners are ideal for high-temperature or chemical applications – including industrial and oil and gas drilling applications – that can cause compatibility problems with elastomers. The flow-through design of every

C-PASAFE unit effectively reduces flow and acceleration-induced pulsations in reverse-osmosis applications. S-PASAFE combination units, with both large liquid volume and gas volume, are particularly well suited for slurry and mine dewatering applications.

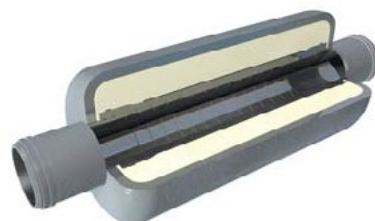
Benefits

- Increase safety and reliability by requiring no gas precharging
- Handle pressure requirements to 15,000 psi without any reduction of pulsation
- Require no replacement of internal parts for greater ease of use and economy of ownership

Key features

Hydril Pressure Control PASAFE dampeners are extremely effective at reducing pulsation created by the stop and start motion of reciprocating pumps, as well as the acceleration-induced water hammer caused by opening and closing of the pump check valve. Their maintenance-free engineering eliminates the need for internal parts replacement – ever – and ensures effective, trouble-free performance even under extreme temperatures and pressures.

- Manufactured, tested and ‘U’ stamped in accordance with ASME Boiler and Pressure Vessel Code
- Available in a variety of materials, including carbon steel, stainless steel, duplex stainless steel, HDPE and others
- Broad capacity range – from 1 to 600 gallons



C-PASAFE



R-PASAFE



The Hydril Pressure Control PASAFE Advantage

Our PASAFE pulsation dampeners represent the largest selection of maintenance-free units available on the market. Engineered with no elastomeric bladders, seals or other wearable goods, PASAFE units offer economical, durable and trouble-free discharge dampening and suction

stabilizing for the extreme conditions found in oil well drilling, slurry pipelines, deep direct lift mine dewatering, chemical processing, water purification and high-pressure water cleaning.

Engineering Data

| Item | Overall Width (inches) | Outside Diameter of Body (inches) | Weight (lbs) |
|-----------|------------------------|-----------------------------------|--------------|
| R12-3600 | 25.00 | 18.00 | 310 |
| R14-3705 | 33.00 | 21.00 | 360 |
| R24-1480 | 35.50 | 24.00 | 550 |
| R80-5000 | 40.00 | 39.50 | 2,325 |
| R120-7500 | 50.00 | 50.00 | 9,900 |

NOTE: R-PASAFEs can be designed with volumes ranging from 1 to 120 gallons and pressure ratings from 285 to 10,000 PSI.

275 PSI PRESSURE RATING

| Model | Connection (inches) | Length (inches)* | Diameter (inches) | Weight (lbs) |
|--------------------|---------------------|------------------|-------------------|--------------|
| C001-1200SS or AXn | 1.00 | 31.00 | 4.50 | 60 |
| C002-1200SS or AXn | 1.50 | 34.00 | 4.50 | 125 |
| C004-1200SS or AXn | 2.00 | 36.50 | 8.60 | 195 |
| C006-1200SS or AXn | 3.00 | 44.00 | 8.62 | 240 |
| C010-1200SS or AXn | 6.00 | 38.50 | 12.75 | 450 |
| C012-1200SS or AXn | 4.00 | 44.00 | 12.75 | 400 |
| C020-1200SS or AXn | 6.00 | 48.00 | 16.00 | 500 |

Length shown for ANSI 600# flange connection. Victaulic connections also available.

275/285 PSI DAMPENERS

| Model | Connection (inches) | Length (inches)* | Diameter (inches) | Weight (lbs) |
|--------------------|---------------------|------------------|-------------------|--------------|
| C006-0275SS or AXn | 3.00 | 47.75 | 8.62 | 190 |
| C012-0275SS or AXn | 4.00 | 36.50 | 12.00 | 250 |
| C015-0285SS or AXn | 4.00 | 42.25 | 14.00 | 300 |
| C020-0275SS or AXn | 6.00 | 37.5 | 16.00 | 400 |

Length shown for ANSI 600# flange connection. Victaulic connections also available.

HDPE SUCTION STABILIZERS

| Model | Connection (inches) | Length (inches)* | Diameter (inches) | Weight (lbs) |
|---------------|---------------------|------------------|-------------------|--------------|
| C003-0100HPE | 2.00 | 46.00 | 7.13 | 35 |
| C004-0100HPE | 3.00 | 46.00 | 10.75 | 45 |
| C006-0100HPE | 4.00 | 46.00 | 14.00 | 70 |
| C0012-0100HPE | 6.00 | 50.00 | 18.00 | 130 |
| C0020-0100HPE | 8.00 | 59.00 | 24.00 | 225 |
| C0020-0100HPE | 10.00 | 59.00 | 24.00 | 225 |

* Length shown for ANSI 600# flange connection. Victaulic connections also available.

