

Hydril Pressure Control PASAFE™ Pulsation Dampener

Maintenance-free performance
for extreme conditions

Pressure Control Equipment: Pulsation Dampeners

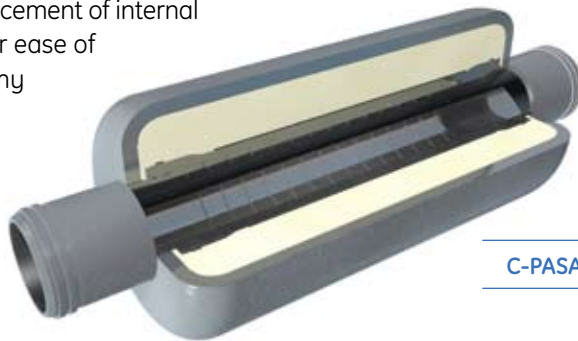
Applications & Benefits

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.

All PASAFE pulsation dampeners:

- 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



C-PASAFE



R-PASAFE



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

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.

3300 North Sam Houston Parkway East, Houston, TX 77032

24/7 customer support: +1 281 449 2000

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GE imagination at work

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