

12.1.1 TECHNICAL DATA

MAX OPERATING PRESSURE (PS): 360 bar

PRESSURE TEST (PT): 1.43 x PS

WORKING TEMPERATURE: -40 ÷ +150 °C

FLUID VISCOSITY RANGE: 10 ÷ 400 cSt

RECOMMENDED VISCOSITY: 36 cSt

BODY MATERIAL: - phosphated carbon steel or galvanized carbon steel in compliance with Directive 2002/95/CE (RoHS)

- to resist to corrosion.
- nickel coating 25 40 µ
- stainless steel AISI 316L

DIMENSIONS: see Table 12.1h

WEIGHT: see Table 12.1h



12.1a

12.1e

12.1.3 HYDRAULIC SYMBOL

Ρ

12.1.2 APPLICATIONS

The pulsation damper is particularly suitable for: hydraulic systems, displacement pumps of all types, sensitive measurement and control instruments and manifolds in process circuits in the chemical industry. The EPE pulsation damper prevents pipe breaks caused by material fatigue, pipe oscillations and irregular flow rates; it protects valves, control devices and other instruments and improves noise level damping.

without damper



12.1b

with accumulator

(standard connection bladder accumulator)



with accumulator and pulsation dumper



12.1.4 DESCRIPTION

The pulsation damper adapters has two fluid connections and can therefore be fitted directly inline and connected directly to the accumulator (bladder or diaphragm ones).

Α

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The flow is directed straight to the bladder or diaphragm by diverting it in the fluid valve. This causes direct contact of the flow with the bladder or diaphragm which, in an almost inertia less operation and balances the flow rate fluctuations via the gas volume.

It particularly compensates higher frequency pressure oscillations. The pre-charge pressure is adjusted to individual operating conditions.

Installation

As close as possible to the pulsation source. Mounting position preferably vertical (gas valve pointing upwards).

12.1d

12.1c



12.1.5 SEALS-TEMPERATURE-LIQUID COMPATIBILITY

When selecting the pulsation damper variant, observe the following non-binding notes with regard to hydraulic fluid, diaphragm material and the permissive temperature range.

Code letter	Polymer	ISO	Temperature range (°C)	Some of the liquids compatible with the polymer		
Р	Standard nitrile (Perburan)	NBR	-20 ÷ +80	Aliphatic hydrocarbons (propane, butane, gasoline, oils, mineral grea- ses, diesel fuel, fuel oil, kerosene), mineral greases and oils, HFA - HFB - HFC fluids, many dilute acids, alkalis, saline solutions, water, water glycol.		
F	Low temperature nitrile	NBR	-40 ÷ +70	The same as with standard nitrile + a number of different types of Freon. (This contains less acrylonitrile than the standard and is there- fore more suitable for low temperatures, but its chemical resistance is slightly lower).		
K	Hydrogenated nitrile	HNBR	-30 ÷ +130	The same as with standard nitrile but with excellent performance at high and low temperatures.		
В	Butyl	IIR	-30 ÷ +100	Hot water up to 100°C, glycol-based brake fluids, many acids and bases, salt solutions, polar solvents such as alcohols, ketones and esters, polyglycol-based hydraulic fluids (HFC fluids) and bases of esters of phosphoric acid (HFD-R fluids), silicone oils and greases, Skydol 500 and 7000, resistance to ozone, aging and weathering.		
E	Ethylene-Propylene	EPDM	-30 ÷ +100	Hot water up to 100°C, glycol-based brake fluids, many organic and inorganic acids, detergents, solutions of sodium and potassium, pho- sphate ester-based hydraulic fluids, (HFD-R), silicone oils and greases, many polar solvents (alcohol, ketones, esters), Skydrol 500 and 7000, resistance to ozone, aging and weathering.		
Y	Epichloridrin	ECO	-30 ÷ +110	Mineral oils and greases, aliphatic hydrocarbons (propane, butane and gasoline), silicone oils and greases, water at room temperature, resistance to ozone, aging and weathering.		
V	Fluorocarbon	FPM	-10 ÷ +150	Mineral oils and greases, non-flammable fluids of HFD group, silicone oils and greases, animal and vegetable oils and greases, aliphatic hydrocar- bons (gasoline, butane, propane, natural gas), aromatics hydrocarbons (benzene, toluene), chlorinated hydrocarbons (Tetrachloroethylene, car- bon tetrachloride), fuel (regular, super and containing methanol), excellent resistance to ozone, weathering and aging.		

For other hydraulic fluid and/or temperatures, please contact us.

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12.1f



12.1.6 ORDER CODE



Special variants on request

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12.1.7 DIMENSIONS



Pulsation dumper order code	A mm	B mm	C mm	ØD BSP	ØE BSP	F mm	G mm	Seal order code	Weigth Kg
TA360A9G8-**/*	120	38	22	2"	1" 1/2	⊠ 70	95	0010R3218-*	3.3
TA360A7G6-**/*	90	27	18	1" 1/4	1"	⊠ 50	70	0010R3150-*	1.3
TA360A5G5-**/*	65	19	14	3/4"	3/4"	⊠ 40	53	0010R2093-*	0.54
TA360G5G5-**/*	00							0012B27.05x35.05x2.5-**/*	
TA360G4G4-**/*	46	16	12	1/2"	1/2"	⊠ 30	43	0012B21.5x28.7x2.5-**/*	0.24
TA30A13G11-**/*	240	112	21	4"	3"	Ø114.5	190	0010R4425-*	3.3
TA60A10G9-**/*	180	82	22	2" 1/2	2"	Ø73.5	141	0010R3281-*	2.8
TA60A9G8-**/*	150	70	22	2"	1" 1/2	Ø60.5	122	0010R3218-*	2.3

* Gasket material

** Component material

12.1h

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