

3.3 Hidracar® Pulsation Dampers

Pulsation dampers are used to stabilize the flow and the pressure in circuits with dosing pumps.

A pulsation damper is a vessel with gas inside, normally Nitrogen. In the pulsation dampers there is an element to isolate the gas from the circuit liquid. Its main function is to avoid the gas loss. This piece that separates both fluids is made basically with 2 materials: rubber (Nitrile, EPDM, FPM, Butyl, Silicone, etc.), and a thermoplastic material (usually PTFE).

When rubber is used, the dampener is named bladder or bag type. And if PTFE is used, we talk of membrane or bellows type, according to the separator element shape. The choice of one type or other will depend on the special performances of the circuit such as; the pressure, the temperature and the possible corrosive effect that could be produced by the liquid of the circuit.

Part No.

U001A01E1-PC 10 Bar EPDM Bladder PVC

U001A01V1-PC 10 Bar Viton Bladder PVC

U002A01E1-PC 10 Bar EPDM Bladder PVC

U002A01V1-PC 10 Bar Viton Bladder PVC

U003A01E1-PC 10 Bar EPDM Bladder PVC

U003A01V1-PC 10 Bar Viton Bladder PVC

U007A01E1-PC 10 Bar EPDM Bladder PVC

U007A01V1-PC 10 Bar Viton Bladder PVC

U010A01E1-PC 10 Bar EPDM Bladder PVC

U010A01V1-PC 10 Bar Viton Bladder PVC

U015A01E1-PC 10 Bar EPDM Bladder PVC

U015A01V1-PC 10 Bar Viton Bladder PVC

U001E-PC Bladder Insert EPDM Pulsation Damper

U002E-PC Bladder Insert EPDM Pulsation Damper

U003E-PC Bladder Insert EPDM Pulsation Damper

U007E-PC Bladder Insert EPDM Pulsation Damper

U015E-PC Bladder Insert EPDM Pulsation Damper

U001V-PC Bladder Insert Viton Pulsation Damper

U002V-PC Bladder Insert Viton Pulsation Damper

U003V-PC Bladder Insert Viton Pulsation Damper

U007V-PC Bladder Insert Viton Pulsation Damper

U015V-PC Bladder Insert Viton Pulsation Damper

BV010A1TM Filling kit ... 10 bar

BV(010)(100)A1TM Filling Kit with 2 Pressure Gauges ... 10 bar

ADACNEU.5 Filling Adapter ... 10 bar

BT010A-A1 + 004-A1 Charging valve and pressure gauge

Note: 100 bar Filling kits are available

DRB.A/B Damper dismantling tool



Note: Dampers are supplied uncharged & have to be filled according to the pressure in the system they will be installed in with either dry nitrogen or air. As a rule of thumb 70% of line pressure.

Other charging sizes & materials are available. For more information contact Sydney office.

Recommended sizes (for more information see next page)

All Beta, Gala		U001 volume 0.075 l
Delta & GXLa	up to 0730	U001 volume 0.075 l
Delta & GXLa	0450 & 0280	U002 volume 0.150 l
Sigma 1	up to 35 lph	U001 volume 0.075 l
Sigma 1	42 lph & above	U002 volume 0.150 l
Sigma 2	up to 109 lph	U002 volume 0.150 l
Sigma 2	above 120 lph	U003 volume 0.350 l
Sigma 3	up to 330 lph	U007 volume 0.650 l
Sigma 3	410 lph & above	U015 volume 1.400 l

