

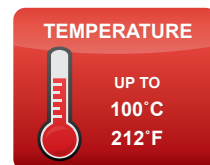
Reduce Pulsation and Increases Batch Yield

DBA Series in-line and top-mount dampeners reduce system pulsation, improve flow control, increase yields, protect components, and minimize downtime for repairs. They are capable of up to 7 Bar (100 psi) air pressures and 100°C (212°F).



Top Mount

In-Line

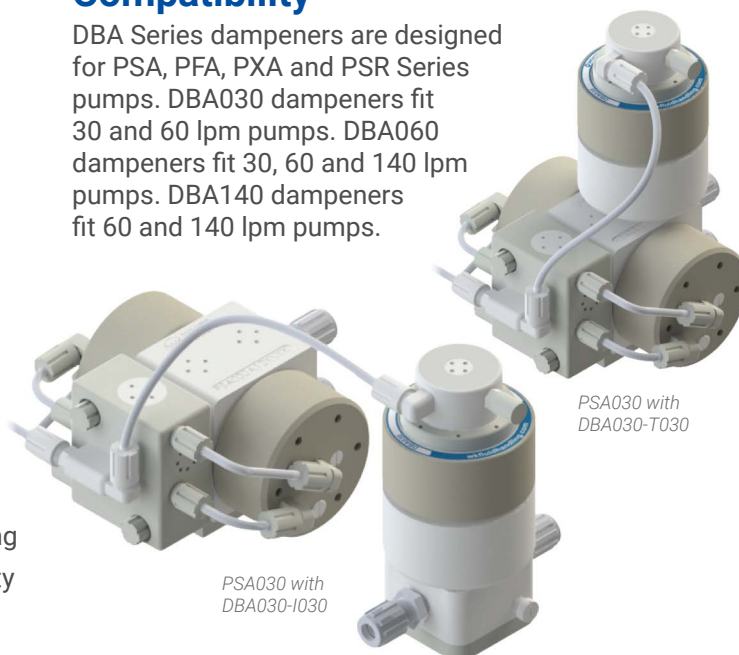


Features & Benefits

- Process-safe PTFE/PFA flow paths
- Up to 93% pulsation reduction minimizes system vibration to protect components, reduce repairs, and increases chip yield
- Top-mount and in-line options in various sizes to increase dampening or reduce footprint
- Flow-specific models for 30, 60, and 140 lpm pumps
- Auto-leveling provides constant, active adjustment for more system control and increased chip yields
- Dead-head capable operation
- Metal-free design provides safe, leak-free operation without possibility of contamination
- Minimal parts for durable design
- Class 100 cleanroom assembly, testing, and packaging
- No preventative maintenance during two-year warranty
- Various liquid connection options
- Easy to install and service

Compatibility

DBA Series dampeners are designed for PSA, PFA, PXA and PSR Series pumps. DBA030 dampeners fit 30 and 60 lpm pumps. DBA060 dampeners fit 30, 60 and 140 lpm pumps. DBA140 dampeners fit 60 and 140 lpm pumps.



PSA030 with DBA030-T030

PSA030 with DBA030-T030

<https://wkfluidhandling.com/dba-series/>



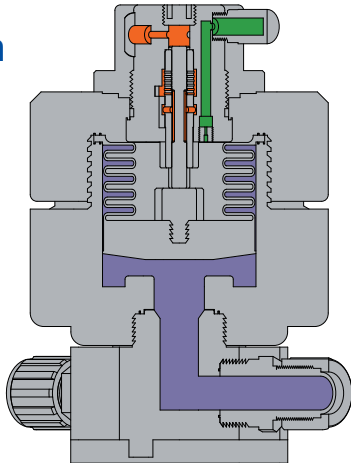
WHITE KNIGHT®

.....engineer approved™

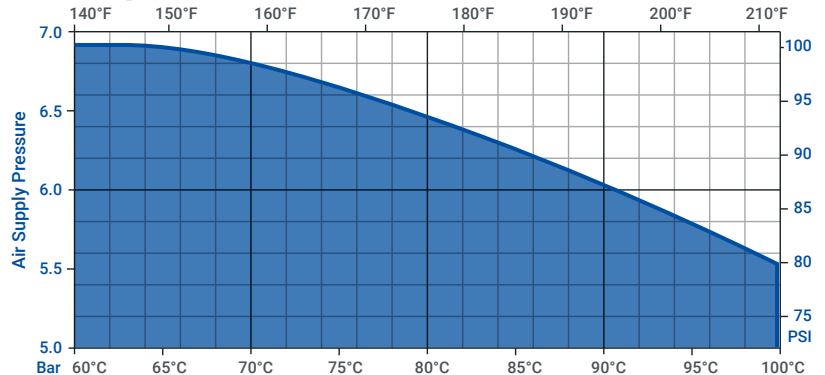
DBA Series Pulse Dampeners

Operation

- Supply Air
- Exhaust Air
- Liquid



Temperature Limitations

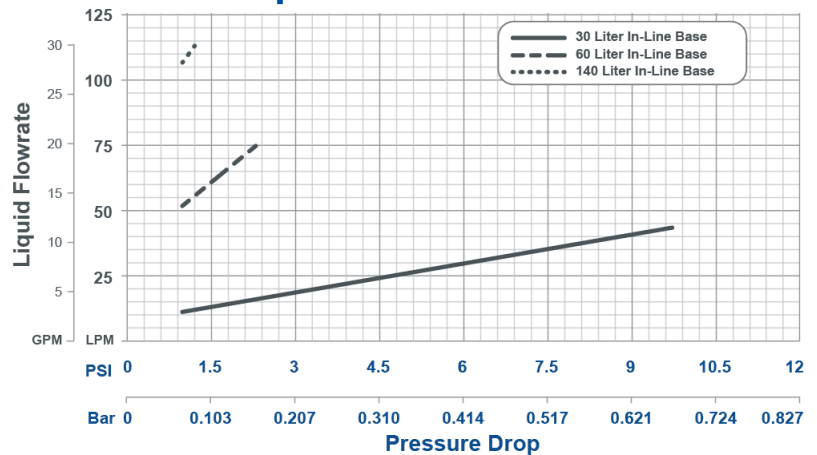


Specifications

Model	DBA030	DBA060	DBA140
Max Fluid Temperature	100°C (212°F)	100°C (212°F)	100°C (212°F)
Max Supply Air Pressure	7 Bar (100 psi)	7 Bar (100 psi)	7 Bar (100 psi)
Pulsation Removed	≤ 76%	≤ 84%	≤ 93%
Cv (in-line only)			
-with I030 base	3	3	n/a
-with I060 base	14	14	14
-with I140 base	n/a	28	28
Air Consumption* Max/Min (SCFM)	3.5 / 0.2	4.0 / 0.2	5.62 / 0.57
Fluid Path Materials	PTFE, PFA	PTFE, PFA	PTFE, PFA

*Utilizing same size pump at 100 psi / 20 psi

Pressure Drop

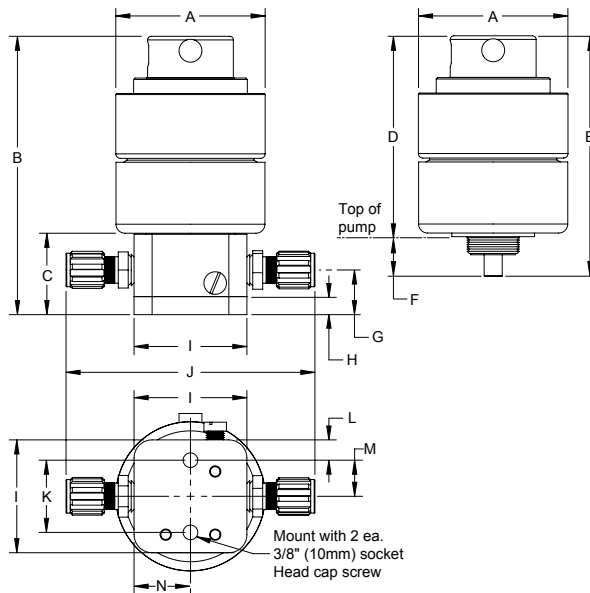


Dimensions

Dimensions: mm (in)

	DBA030	DBA060	DBA140
A	105 (Ø4.1)	140 (Ø5.5)	222 (Ø8.7)
B	210 (8.3)	220 (8.7)	253 (10.0)
C	57 (2.3)	57 (2.3)	80 (3.2)
D	161 (6.3)	168 (6.6)	188 (7.4)
E	188 (7.4)	196 (7.7)	230 (9.0)
F	27 (1.1)	28 (1.1)	42 (1.6)
G	31 (1.2)	35 (1.4)	42 (1.6)
H	13 (0.5)	13 (0.5)	13 (0.5)
I	79 (3.1)	79 (3.1)	79 (3.1)
J	175 (6.9)	198 (7.8)	238 (9.4)
K	51 (2.0)	51 (2.0)	51 (2.0)
L	14 (0.6)	14 (0.6)	14 (0.6)
M	25 (1.0)	25 (1.0)	25 (1.0)
N	40 (1.5)	40 (1.5)	40 (1.5)
O	111 (4.4)	111 (4.4)	135 (5.3)

*DBA030 dimensions 'D' and 'E' increase by 0.27 in. when configured to a 60 liter pump (configuration DBA030-T060).



Configuration

DBA 030 - I 030 - F12 See ordering instructions for details.

- ① Dampener Type**
DBA = Capable up to 100°C
(See DBH and DBU Series pulsation dampeners for higher temperatures.)
- ② Dampener Size**
030 = 30 lpm (8 gpm) max flow
060 = 60 lpm (16 gpm) max flow
140 = 140 lpm (36 gpm) max flow
- ③ Base Options**
T = Top-mount
I = In-line
- ④ Base Size**
030 = fits 30 lpm pumps
060 = fits 60 lpm pumps
140 = fits 140 lpm pumps
- ⑤ Fitting Style**
F = Flaretek® compatible
T = Tube Out
W = Weldable
P = Pillar S-300®
N = Female NPT (FNPT)
(Use for in-line models only)
- ⑥ Fitting Size**
04 = 1/4 in
06 = 3/8 in
08 = 1/2 in
12 = 3/4 in
16 = 1 in
20 = 1-1/4 in

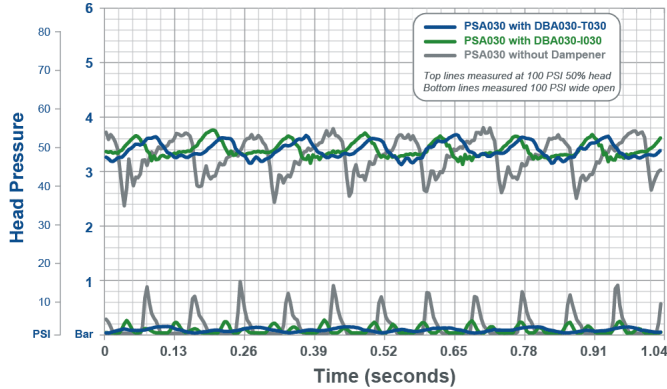
All bases not available with all dampener sizes.
All fitting sizes not available with all dampeners.
Leak detection and outlet fitting options available.



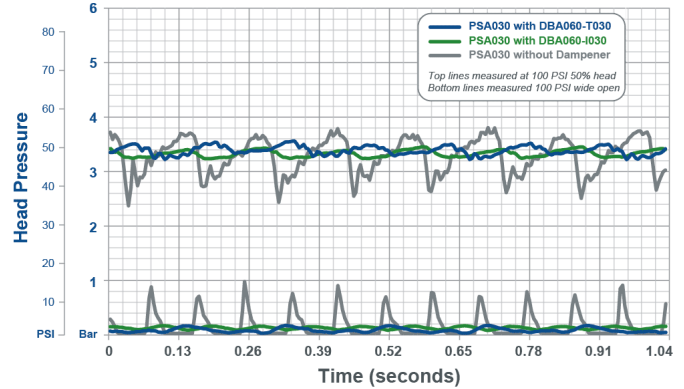


Pulsation Data: DBA Series with PSA030

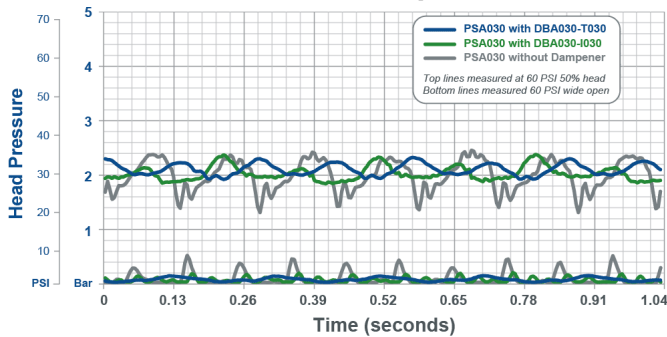
PSA030 with DBA030 at 100 psi



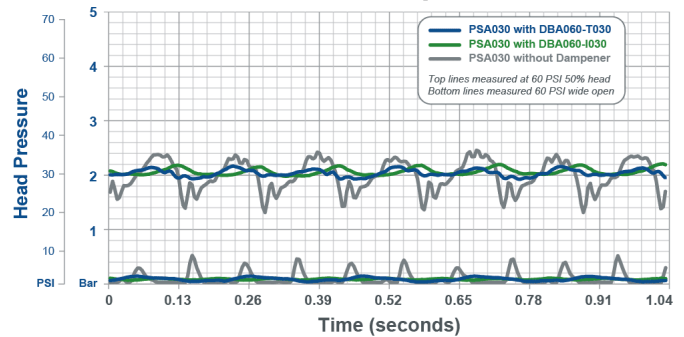
PSA030 with DBA060 at 100 psi



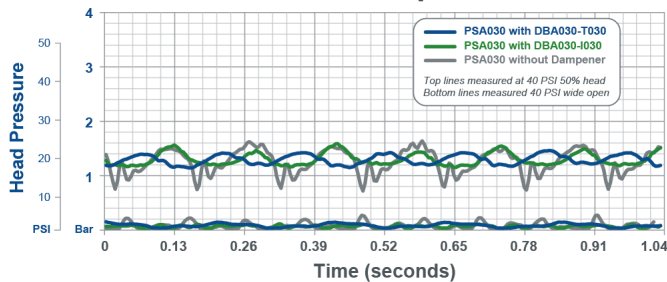
PSA030 with DBA030 at 60 psi



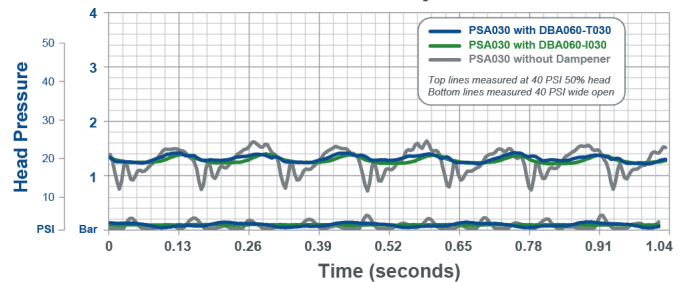
PSA030 with DBA060 at 60 psi



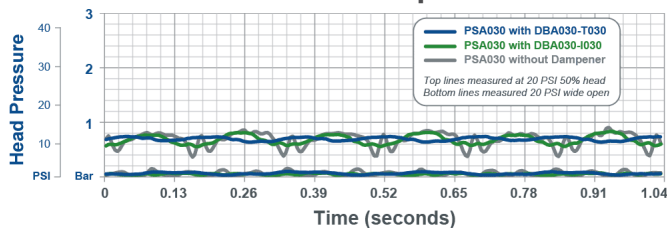
PSA030 with DBA030 at 40 psi



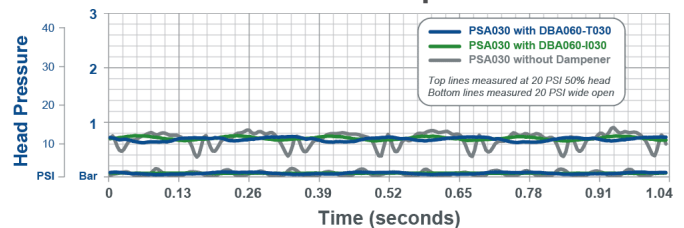
PSA030 with DBA060 at 40 psi



PSA030 with DBA030 at 20 psi



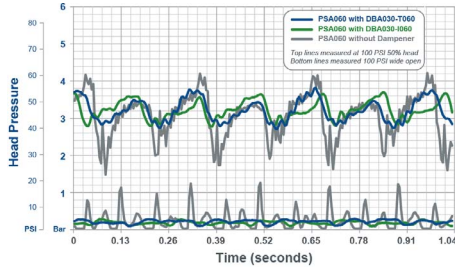
PSA030 with DBA060 at 20 psi



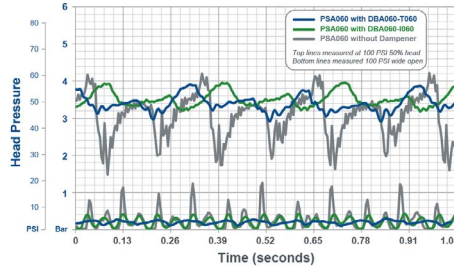


Pulsation Data: DBA Series with PSA060

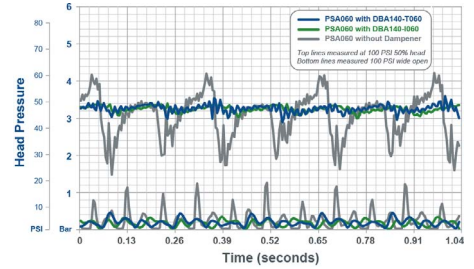
PSA060 with DBA030 at 100 psi



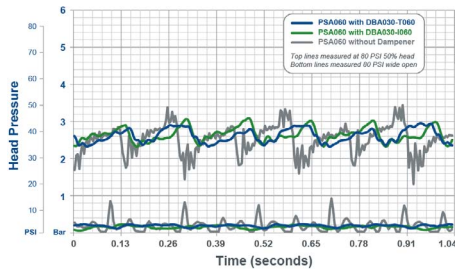
PSA060 with DBA060 at 100 psi



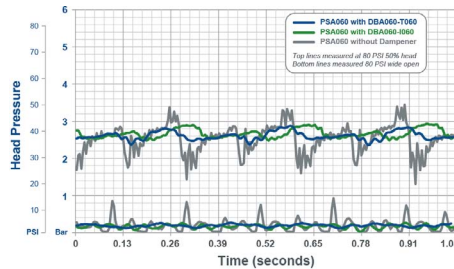
PSA060 with DBA140 at 100 psi



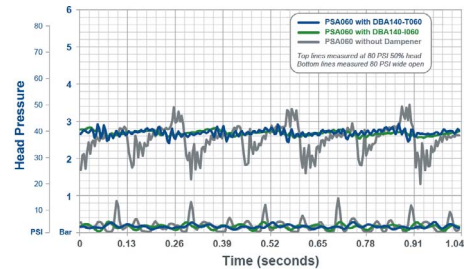
PSA060 with DBA030 at 80 psi



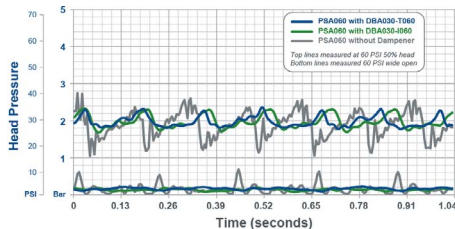
PSA060 with DBA060 at 80 psi



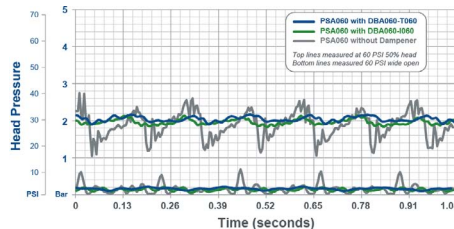
PSA060 with DBA140 at 80 psi



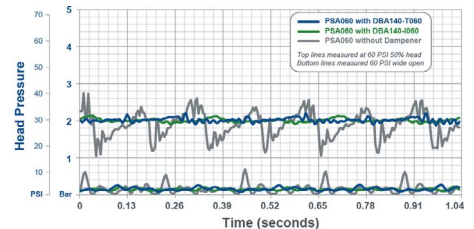
PSA060 with DBA030 at 60 psi



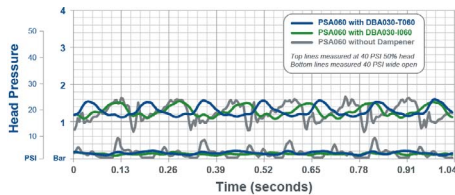
PSA060 with DBA060 at 60 psi



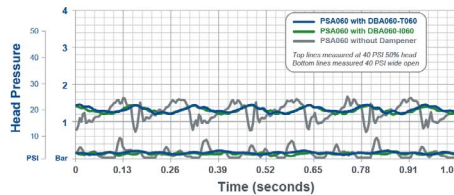
PSA060 with DBA140 at 60 psi



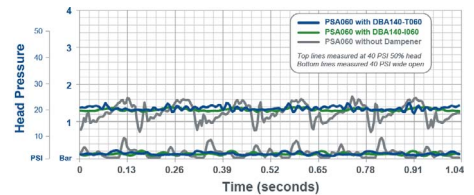
PSA060 with DBA030 at 40 psi



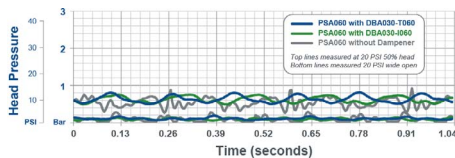
PSA060 with DBA060 at 40 psi



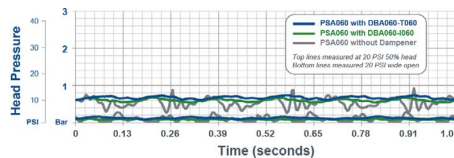
PSA060 with DBA140 at 40 psi



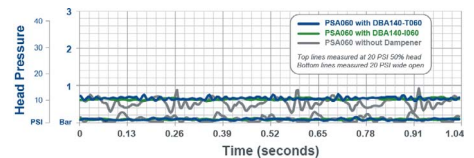
PSA060 with DBA030 at 20 psi



PSA060 with DBA060 at 20 psi

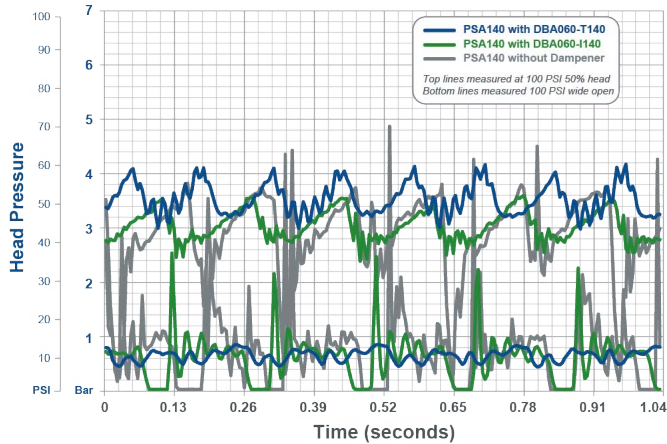


PSA060 with DBA140 at 20 psi

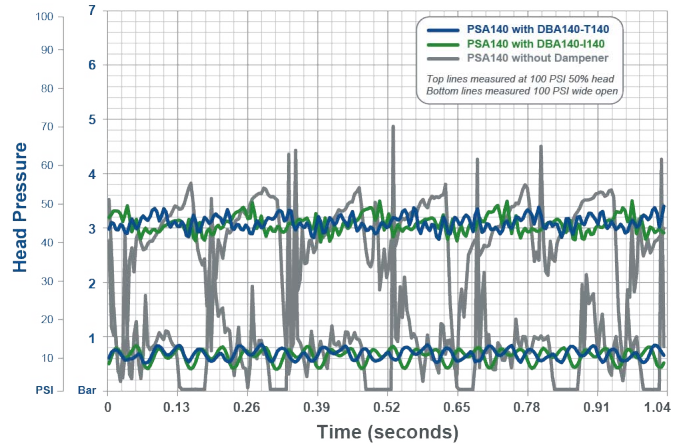


Pulsation Data: DBA Series with PSA140

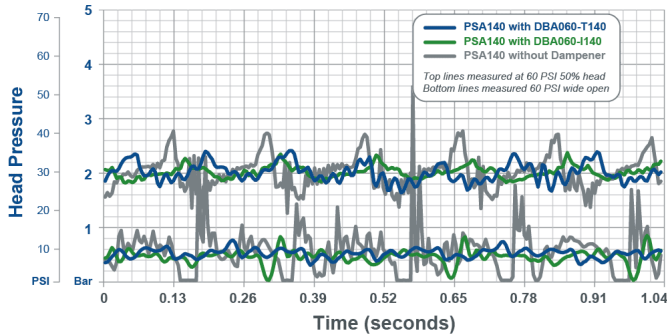
PSA140 with DBA060 at 100 psi



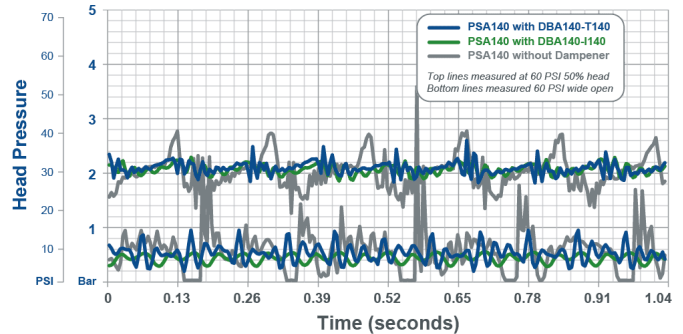
PSA140 with DBA140 at 100 psi



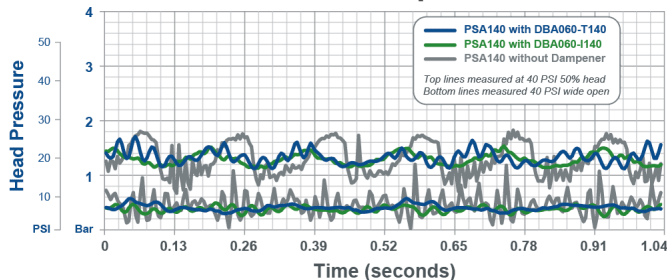
PSA140 with DBA060 at 60 psi



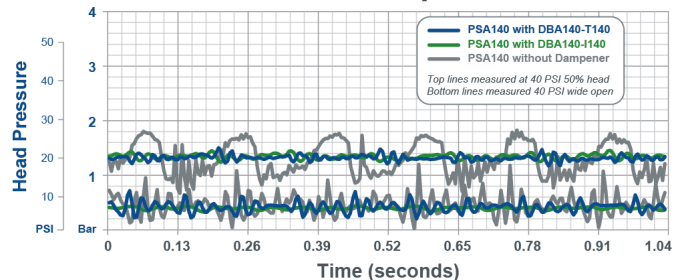
PSA140 with DBA140 at 60 psi



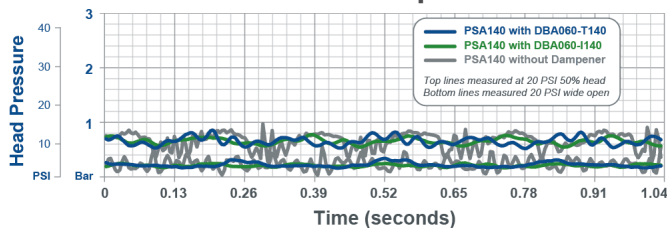
PSA140 with DBA060 at 40 psi



PSA140 with DBA140 at 40 psi



PSA140 with DBA060 at 20 psi



PSA140 with DBA140 at 20 psi

