



Accel II Airflow Control Valves
LOW PRESSURE RADIATED
Sound Power Level Data

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Phoenix Controls Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Size 08 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	0.30	75	33	21	< 20	< 20	< 20	< 20
100	45	170	0.30	75	34	22	22	< 20	< 20	< 20
150	70	250	0.30	75	35	23	23	< 20	< 20	< 20
200	95	340	0.30	75	36	24	25	< 20	< 20	< 20
250	120	420	0.30	75	37	25	27	< 20	< 20	< 20
300	140	510	0.30	75	38	26	28	22	< 20	< 20
350	160	590	0.30	75	39	30	30	23	20	< 20
400	190	680	0.30	75	40	31	31	25	21	< 20
450	210	760	0.30	75	41	32	32	27	23	20
500	230	850	0.30	75	42	33	33	28	25	21

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	0.60	150	34	22	< 20	< 20	< 20	< 20
100	45	170	0.60	150	35	23	23	< 20	< 20	< 20
150	70	250	0.60	150	37	24	27	21	< 20	< 20
200	95	340	0.60	150	38	25	30	24	22	< 20
250	120	420	0.60	150	39	26	31	25	24	20
300	140	510	0.60	150	43	27	32	27	25	22
350	160	590	0.60	150	44	32	33	28	26	24
400	190	680	0.60	150	45	34	36	30	28	26
450	210	760	0.60	150	46	36	37	32	29	27
500	230	850	0.60	150	47	37	38	35	31	28

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.00	250	35	23	< 20	< 20	< 20	< 20
100	45	170	1.00	250	36	24	26	< 20	< 20	< 20
150	70	250	1.00	250	38	25	30	24	23	20
200	95	340	1.00	250	39	26	33	28	27	24
250	120	420	1.00	250	40	27	35	30	28	25
300	140	510	1.00	250	44	28	36	31	29	26
350	160	590	1.00	250	45	35	39	34	33	31
400	190	680	1.00	250	46	36	40	35	34	32
450	210	760	1.00	250	47	38	42	37	35	33
500	230	850	1.00	250	48	40	44	40	37	34

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	2.00	500	37	25	20	21	25	27
100	45	170	2.00	500	38	26	29	25	28	28
150	70	250	2.00	500	40	28	35	29	30	29
200	95	340	2.00	500	41	30	38	33	33	32
250	120	420	2.00	500	42	31	39	35	35	34
300	140	510	2.00	500	46	36	43	39	38	36
350	160	590	2.00	500	47	38	45	40	40	38
400	190	680	2.00	500	48	40	47	42	42	40
450	210	760	2.00	500	49	41	48	43	43	41
500	230	850	2.00	500	50	42	50	44	44	42

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.50	375	36	24	< 20	< 20	22	21
100	45	170	1.50	375	37	25	27	23	25	23
150	70	250	1.50	375	39	27	32	27	28	26
200	95	340	1.50	375	40	29	36	31	31	29
250	120	420	1.50	375	41	30	38	34	33	31
300	140	510	1.50	375	45	35	40	36	35	33
350	160	590	1.50	375	46	36	41	37	36	35
400	190	680	1.50	375	47	39	44	39	38	36
450	210	760	1.50	375	48	40	45	41	39	37
500	230	850	1.50	375	49	41	47	42	40	39

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	2.50	625	38	26	22	22	27	31
100	45	170	2.50	625	39	27	30	26	31	32
150	70	250	2.50	625	41	29	36	31	33	33
200	95	340	2.50	625	42	31	39	35	35	34
250	120	420	2.50	625	43	32	40	36	36	36
300	140	510	2.50	625	47	37	45	40	40	39
350	160	590	2.50	625	48	39	46	43	42	41
400	190	680	2.50	625	49	41	48	44	44	42
450	210	760	2.50	625	50	42	50	46	45	44
500	230	850	2.50	625	51	43	51	47	46	45

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	3.00	750	39	27	23	23	28	34
100	45	170	3.00	750	40	28	31	27	32	35
150	70	250	3.00	750	42	30	37	32	34	36
200	95	340	3.00	750	43	32	40	36	36	37
250	120	420	3.00	750	44	33	41	37	37	38
300	140	510	3.00	750	48	38	46	42	42	40
350	160	590	3.00	750	49	40	48	45	44	43
400	190	680	3.00	750	50	42	50	46	46	44
450	210	760	3.00	750	51	43	51	47	47	46
500	230	850	3.00	750	52	44	52	49	48	47

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
50	25	85	1.50	375	36	24	< 20	< 20	22	21
100	45	170	1.50	375	37	25	27	23	25	23
150	70	250	1.50	375	39	27	32	27	28	26
200	95	340	1.50	375	40	29	36	31	31	29
250	120	420	1.50	375	41	30	38	34	33	31
300	140	510	1.50	375	45	35	40	36	35	33
350	160	590	1.50	375	46	36	41	37	36	35
400	190	680	1.50	375	47	39	44	39	38	36
450	210	760	1.50	375	48	40	45	41	39	37
500	230	850	1.50	375	49	41	47	42	40	39

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Size 10 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	0.30	75	30	<20	<20	<20	<20	<20
150	70	250	0.30	75	31	26	<20	<20	<20	<20
200	95	340	0.30	75	32	27	24	21	<20	<20
250	120	420	0.30	75	33	28	26	23	20	<20
300	140	510	0.30	75	34	29	28	25	22	<20
350	160	590	0.30	75	35	30	29	25	23	<20
400	190	680	0.30	75	36	31	30	26	24	20
450	210	760	0.30	75	37	33	31	27	26	21
500	230	850	0.30	75	38	35	33	29	28	24

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	2.00	500	38	29	27	26	31	28
150	70	255	2.00	500	39	31	32	31	33	30
200	95	340	2.00	500	41	34	38	36	36	33
250	118	425	2.00	500	42	37	41	39	39	35
300	140	510	2.00	500	43	39	43	42	41	38
350	165	595	2.00	500	43	41	45	44	43	40
400	190	680	2.00	500	44	42	46	46	45	42
450	210	765	2.00	500	45	44	47	47	46	43
500	230	850	2.00	500	46	45	48	49	47	44

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	0.60	150	32	23	20	<20	<20	<20
150	70	255	0.60	150	33	25	26	24	23	<20
200	95	340	0.60	150	33	28	31	29	26	20
250	118	425	0.60	150	35	31	34	31	27	23
300	140	510	0.60	150	37	34	36	33	29	26
350	165	595	0.60	150	38	36	37	34	30	27
400	190	680	0.60	150	38	37	38	35	31	28
450	210	765	0.60	150	39	38	38	36	32	28
500	230	850	0.60	150	39	38	39	36	33	29

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	2.50	625	39	30	28	28	33	33
150	70	255	2.50	625	39	33	34	33	35	34
200	95	340	2.50	625	40	36	40	38	38	35
250	118	425	2.50	625	42	38	42	41	40	38
300	140	510	2.50	625	44	41	44	44	43	40
350	165	595	2.50	625	45	42	46	46	45	42
400	190	680	2.50	625	45	44	47	48	47	44
450	210	765	2.50	625	46	45	49	49	48	45
500	230	850	2.50	625	47	46	50	51	50	47

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	1.00	250	33	25	24	22	22	<20
150	70	255	1.00	250	34	28	29	27	26	21
200	95	340	1.00	250	34	31	33	31	30	25
250	118	425	1.00	250	38	34	36	34	33	29
300	140	510	1.00	250	41	36	39	38	35	32
350	165	595	1.00	250	41	37	41	39	36	33
400	190	680	1.00	250	42	39	42	40	37	35
450	210	765	1.00	250	43	40	43	41	38	36
500	230	850	1.00	250	43	41	44	42	39	36

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	3.00	750	40	31	30	29	34	34
150	70	255	3.00	750	40	35	35	34	37	36
200	95	340	3.00	750	41	38	41	39	39	37
250	118	425	3.00	750	43	40	43	42	42	39
300	140	510	3.00	750	45	42	45	45	45	42
350	165	595	3.00	750	45	44	47	47	46	44
400	190	680	3.00	750	46	45	48	49	48	45
450	210	765	3.00	750	47	46	50	50	50	47
500	230	850	3.00	750	48	47	51	52	51	48

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	1.50	375	36	28	26	25	28	23
150	70	255	1.50	375	36	30	31	30	31	27
200	95	340	1.50	375	37	32	36	34	34	30
250	118	425	1.50	375	39	35	39	37	36	33
300	140	510	1.50	375	42	37	41	40	39	36
350	165	595	1.50	375	43	39	43	42	41	38
400	190	680	1.50	375	43	41	44	44	42	39
450	210	765	1.50	375	44	42	46	45	43	40
500	230	850	1.50	375	44	44	47	46	44	41

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
100	45	170	3.00	750	40	31	30	29	34	34
150	70	255	3.00	750	40	35	35	34	37	36
200	95	340	3.00	750	41	38	41	39	39	37
250	118	425	3.00	750	43	40	43	42	42	39
300	140	510	3.00	750	45	42	45	45	45	42
350	165	595	3.00	750	45	44	47	47	46	44
400	190	680	3.00	750	46	45	48	49	48	45
450	210	765	3.00	750	47	46	50	50	50	47
500	230	850	3.00	750	48	47	51	52	51	48

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Size 12 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
200	95	340	0.30	75	28	24	<20	<20	<20	<20
300	140	510	0.30	75	31	29	20	24	21	<20
400	190	680	0.30	75	34	34	22	25	22	<20
500	230	850	0.30	75	35	39	23	26	23	<20
600	280	1000	0.30	75	37	41	27	28	24	<20
700	330	1200	0.30	75	38	42	28	30	27	28
800	380	1350	0.30	75	39	43	29	31	29	29
900	420	1550	0.30	75	40	45	31	34	30	31
1000	470	1700	0.30	75	41	46	32	35	31	33

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000

200	95	340	0.60	150	28	29	23	25	22	<20
300	143	510	0.60	150	32	34	27	29	27	<20
400	190	680	0.60	150	35	39	31	34	33	26
500	235	840	0.60	150	38	42	32	35	33	26
600	280	1000	0.60	150	40	44	33	37	34	27
700	330	1175	0.60	150	42	47	34	38	35	29
800	380	1350	0.60	150	44	49	36	39	36	32
900	425	1525	0.60	150	45	51	37	40	36	33
1000	470	1700	0.60	150	45	52	38	41	37	35

200	95	340	2.00	500	32	32	31	34	35	33
300	143	510	2.00	500	36	37	35	39	39	35
400	190	680	2.00	500	39	42	39	43	42	37
500	235	840	2.00	500	41	45	42	46	45	40
600	280	1000	2.00	500	43	48	45	49	48	43
700	330	1175	2.00	500	45	50	46	51	50	44
800	380	1350	2.00	500	47	52	48	53	52	46
900	425	1525	2.00	500	48	54	49	53	52	47
1000	470	1700	2.00	500	48	55	50	54	53	47

200	95	340	1.00	250	29	30	27	29	28	21
300	143	510	1.00	250	33	35	31	34	32	26
400	190	680	1.00	250	36	40	34	38	37	30
500	235	840	1.00	250	39	43	36	40	39	33
600	280	1000	1.00	250	41	46	39	43	41	35
700	330	1175	1.00	250	43	48	40	44	42	36
800	380	1350	1.00	250	45	50	41	45	43	37
900	425	1525	1.00	250	46	52	42	46	43	37
1000	470	1700	1.00	250	46	53	44	46	44	38

200	95	340	2.50	625	34	33	34	36	37	37
300	143	510	2.50	625	38	38	38	41	41	39
400	190	680	2.50	625	41	43	42	45	45	40
500	235	840	2.50	625	43	46	44	48	47	42
600	280	1000	2.50	625	45	49	46	51	50	45
700	330	1175	2.50	625	47	51	48	53	52	47
800	380	1350	2.50	625	48	53	50	55	54	48
900	425	1525	2.50	625	49	55	51	56	54	49
1000	470	1700	2.50	625	49	56	52	57	55	49

200	95	340	1.50	375	30	31	29	32	32	27
300	143	510	1.50	375	34	36	34	37	36	31
400	190	680	1.50	375	37	41	38	42	40	35
500	235	840	1.50	375	40	44	40	45	43	37
600	280	1000	1.50	375	42	47	42	47	46	40
700	330	1175	1.50	375	44	49	44	49	47	41
800	380	1350	1.50	375	45	51	46	50	48	41
900	425	1525	1.50	375	46	53	47	51	49	42
1000	470	1700	1.50	375	47	54	47	51	49	42

200	95	340	3.00	750	35	34	35	37	38	39
300	143	510	3.00	750	39	39	39	42	42	40
400	190	680	3.00	750	42	44	43	46	46	42
500	235	840	3.00	750	44	47	45	49	49	44
600	280	1000	3.00	750	46	50	48	52	52	47
700	330	1175	3.00	750	48	52	50	54	54	48
800	380	1350	3.00	750	49	54	51	56	56	50
900	425	1525	3.00	750	50	56	52	57	57	51
1000	470	1700	3.00	750	50	57	53	58	57	52

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Size 14 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000

200	95	340	0.30	75	18	21	25	22	23	17
300	143	510	0.30	75	25	27	29	25	25	19
400	190	680	0.30	75	31	32	33	28	28	21
500	235	840	0.30	75	35	36	35	31	29	23
600	280	1000	0.30	75	39	39	37	33	30	24
700	330	1175	0.30	75	42	41	39	35	32	26
800	380	1350	0.30	75	45	44	41	37	33	27
900	425	1525	0.30	75	47	46	42	39	34	28
1000	470	1700	0.30	75	49	47	43	40	35	29
1100	518	1869	0.30	75	51	49	44	41	36	30
1200	566	2039	0.30	75	53	50	45	43	37	31
1300	614	2209	0.30	75	54	51	46	44	38	32
1400	661	2379	0.30	75	56	53	47	45	39	33

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000

200	95	340	0.60	150	22	25	31	29	30	25
300	143	510	0.60	150	28	31	35	32	32	27
400	190	680	0.60	150	35	36	39	34	35	29
500	235	840	0.60	150	39	40	41	37	36	30
600	280	1000	0.60	150	43	43	44	40	37	32
700	330	1175	0.60	150	46	45	45	41	39	33
800	380	1350	0.60	150	48	48	47	43	40	35
900	425	1525	0.60	150	51	50	48	45	41	36
1000	470	1700	0.60	150	53	51	49	46	43	37
1100	518	1869	0.60	150	55	53	51	48	44	38
1200	566	2039	0.60	150	56	54	52	49	45	39
1300	614	2209	0.60	150	58	56	53	50	46	40
1400	661	2379	0.60	150	59	57	54	51	46	41

200	95	340	1.00	250	24	28	36	33	35	30
300	143	510	1.00	250	31	34	40	36	38	32
400	190	680	1.00	250	37	39	44	39	40	34
500	235	840	1.00	250	41	43	46	42	41	36
600	280	1000	1.00	250	45	46	48	44	42	37
700	330	1175	1.00	250	48	48	50	46	44	39
800	380	1350	1.00	250	51	51	52	48	45	40
900	425	1525	1.00	250	53	53	53	49	47	42
1000	470	1700	1.00	250	56	55	54	51	48	43
1100	518	1869	1.00	250	57	56	55	52	49	44
1200	566	2039	1.00	250	59	58	56	53	50	45
1300	614	2209	1.00	250	60	59	57	54	51	45
1400	661	2379	1.00	250	62	60	58	55	52	46

200	95	340	2.00	500	28	32	42	40	43	38
300	143	510	2.00	500	35	38	46	43	45	40
400	190	680	2.00	500	41	44	50	45	48	42
500	235	840	2.00	500	45	47	52	48	48	44
600	280	1000	2.00	500	49	50	54	50	49	45
700	330	1175	2.00	500	52	53	56	52	51	47
800	380	1350	2.00	500	55	55	58	54	52	48
900	425	1525	2.00	500	57	57	59	56	54	49
1000	470	1700	2.00	500	59	59	60	57	55	50
1100	518	1869	2.00	500	61	60	62	58	57	51
1200	566	2039	2.00	500	63	62	63	60	58	52
1300	614	2209	2.00	500	64	63	64	60	58	53
1400	661	2379	2.00	500	65	64	65	61	59	54

200	95	340	1.50	375	26	30	40	37	40	35
300	143	510	1.50	375	33	36	44	40	42	37
400	190	680	1.50	375	40	42	48	43	45	39
500	235	840	1.50	375	44	45	50	45	45	40
600	280	1000	1.50	375	48	49	52	48	46	42
700	330	1175	1.50	375	50	51	54	50	48	43
800	380	1350	1.50	375	53	53	56	51	49	45
900	425	1525	1.50	375	55	55	57	53	51	46
1000	470	1700	1.50	375	58	57	58	55	52	47
1100	518	1869	1.50	375	59	59	59	56	53	48
1200	566	2039	1.50	375	61	60	60	57	55	49
1300	614	2209	1.50	375	62	61	61	58	55	50
1400	661	2379	1.50	375	64	62	62	59	56	51

200	95	340	3.00	750	30	35	46	44	47	43
300	143	510	3.00	750	37	40	50	46	49	45
400	190	680	3.00	750	43	46	54	49	52	46
500	235	840	3.00	750	47	49	56	52	52	48
600	280	1000	3.00	750	51	53	58	54	53	50
700	330	1175	3.00	750	54	55	60	56	55	51
800	380	1350	3.00	750	57	58	62	58	56	53
900	425	1525	3.00	750	59	59	63	59	58	54
1000	470	1700	3.00	750	61	61	64	61	60	55
1100	518	1869	3.00	750	63	63	65	62	61	56
1200	566	2039	3.00	750	65	64	66	63	62	57
1300	614	2209	3.00	750	66	65	67	64	63	58
1400	661	2379	3.00	750	67	66	68	65	63	59

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure Radiated Sound Power Level Performance Data Dual 10 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
200	95	340	0.30	75	36	32	26	22	<20	<20
300	140	510	0.30	75	37	33	27	24	23	<20
400	190	680	0.30	75	38	34	28	25	24	<20
500	230	850	0.30	75	40	35	29	26	25	<20
600	280	1000	0.30	75	42	36	30	27	26	<20
700	330	1200	0.30	75	43	37	31	28	27	<20
800	380	1350	0.30	75	44	38	32	29	30	20
900	420	1550	0.30	75	45	39	34	30	31	21
1000	470	1700	0.30	75	47	40	35	31	32	25

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000

200	95	340	0.60	150	42	39	34	30	26	<20
300	143	510	0.60	150	43	39	35	32	29	22
400	190	680	0.60	150	44	40	37	33	32	25
500	235	840	0.60	150	46	41	38	35	34	28
600	280	1000	0.60	150	48	43	39	37	36	30
700	330	1175	0.60	150	49	44	39	38	37	31
800	380	1350	0.60	150	50	46	40	39	38	32
900	425	1525	0.60	150	51	46	41	39	39	32
1000	470	1700	0.60	150	52	47	41	40	39	33

200	95	340	2.00	500	50	48	47	44	41	37
300	143	510	2.00	500	50	50	48	45	42	39
400	190	680	2.00	500	51	51	48	45	44	40
500	235	840	2.00	500	52	52	49	47	46	42
600	280	1000	2.00	500	53	53	49	48	48	43
700	330	1175	2.00	500	55	55	50	50	49	45
800	380	1350	2.00	500	56	56	51	51	51	46
900	425	1525	2.00	500	58	57	52	51	52	47
1000	470	1700	2.00	500	59	58	52	52	53	47

200	95	340	1.00	250	46	43	40	36	33	28
300	143	510	1.00	250	47	44	41	38	35	29
400	190	680	1.00	250	47	46	41	39	37	31
500	235	840	1.00	250	49	47	42	40	39	33
600	280	1000	1.00	250	51	48	43	42	41	36
700	330	1175	1.00	250	51	49	44	43	43	37
800	380	1350	1.00	250	52	49	45	44	44	38
900	425	1525	1.00	250	53	50	46	45	45	39
1000	470	1700	1.00	250	54	51	47	45	45	39

200	95	340	2.50	625	51	49	48	46	44	41
300	143	510	2.50	625	52	51	49	47	45	42
400	190	680	2.50	625	52	53	50	48	46	42
500	235	840	2.50	625	53	54	51	49	48	44
600	280	1000	2.50	625	54	55	51	50	49	46
700	330	1175	2.50	625	56	56	52	51	51	47
800	380	1350	2.50	625	57	57	52	53	52	48
900	425	1525	2.50	625	59	58	53	53	54	49
1000	470	1700	2.50	625	60	59	54	54	55	50

200	95	340	1.50	375	47	46	44	41	38	34
300	143	510	1.50	375	48	48	45	41	39	35
400	190	680	1.50	375	48	49	46	42	41	36
500	235	840	1.50	375	50	50	46	44	43	38
600	280	1000	1.50	375	52	51	47	45	45	40
700	330	1175	1.50	375	53	52	47	47	46	41
800	380	1350	1.50	375	54	53	48	48	48	42
900	425	1525	1.50	375	56	54	49	49	48	43
1000	470	1700	1.50	375	58	55	50	49	49	43

200	95	340	3.00	750	52	54	51	48	45	43
300	143	510	3.00	750	52	54	52	49	46	44
400	190	680	3.00	750	53	55	52	49	47	44
500	235	840	3.00	750	54	56	53	51	49	46
600	280	1000	3.00	750	55	56	53	52	51	47
700	330	1175	3.00	750	56	57	54	53	53	49
800	380	1350	3.00	750	58	58	54	54	54	50
900	425	1525	3.00	750	59	59	55	55	55	51
1000	470	1700	3.00	750	61	60	55	56	57	52

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure Radiated Sound Power Level Performance Data Dual 12 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000
400	190	680	0.30	75	36	32	22	23	<20	<20
600	280	1000	0.30	75	38	33	25	27	22	<20
800	380	1350	0.30	75	39	37	28	31	27	<20
1000	470	1700	0.30	75	42	39	29	32	28	<20
1200	560	2050	0.30	75	45	42	30	33	29	20
1400	660	2400	0.30	75	46	43	32	34	31	25
1600	750	2700	0.30	75	48	46	34	35	34	29
1800	850	3050	0.30	75	49	47	35	37	35	33
2000	940	3400	0.30	75	51	48	36	38	37	36

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
cfm	L/s	m ³ /h	in wc	Pa	Octave Band Center Frequency in Hz					
					125	250	500	1000	2000	4000

400	190	680	0.60	150	41	37	30	31	27	<20
600	285	1015	0.60	150	43	40	33	35	32	24
800	380	1350	0.60	150	45	43	36	39	37	29
1000	470	1700	0.60	150	48	45	37	40	37	30
1200	560	2050	0.60	150	51	48	38	41	38	31
1400	655	2375	0.60	150	53	49	39	42	39	33
1600	750	2700	0.60	150	55	51	40	43	39	34
1800	845	3050	0.60	150	56	52	41	44	40	38
2000	940	3400	0.60	150	57	53	42	45	42	41

400	190	680	2.00	500	48	44	39	41	40	37
600	285	1015	2.00	500	50	48	42	44	44	40
800	380	1350	2.00	500	52	51	46	48	47	42
1000	470	1700	2.00	500	55	54	47	51	50	44
1200	560	2050	2.00	500	57	57	49	53	52	47
1400	655	2375	2.00	500	59	59	51	55	54	47
1600	750	2700	2.00	500	61	60	53	57	55	48
1800	845	3050	2.00	500	63	62	54	58	56	49
2000	940	3400	2.00	500	65	63	56	59	56	49

400	190	680	1.00	250	42	40	33	35	32	25
600	285	1015	1.00	250	46	44	37	39	37	30
800	380	1350	1.00	250	50	47	40	43	41	35
1000	470	1700	1.00	250	52	49	42	45	43	37
1200	560	2050	1.00	250	55	51	44	48	45	39
1400	655	2375	1.00	250	57	53	45	48	46	40
1600	750	2700	1.00	250	58	55	46	49	46	40
1800	845	3050	1.00	250	60	56	47	50	47	41
2000	940	3400	1.00	250	61	57	49	51	47	42

400	190	680	2.50	625	49	45	40	42	42	42
600	285	1015	2.50	625	51	49	44	46	45	43
800	380	1350	2.50	625	53	52	47	50	49	44
1000	470	1700	2.50	625	56	55	49	52	51	47
1200	560	2050	2.50	625	58	58	51	55	54	49
1400	655	2375	2.50	625	60	60	53	57	55	50
1600	750	2700	2.50	625	62	62	55	58	57	52
1800	845	3050	2.50	625	64	63	56	60	58	53
2000	940	3400	2.50	625	66	64	58	61	60	54

400	190	680	1.50	375	43	42	36	38	37	31
600	285	1015	1.50	375	47	46	40	42	41	35
800	380	1350	1.50	375	51	50	43	46	44	39
1000	470	1700	1.50	375	54	52	45	48	47	41
1200	560	2050	1.50	375	56	54	47	51	50	44
1400	655	2375	1.50	375	58	56	49	52	51	44
1600	750	2700	1.50	375	60	58	51	54	52	45
1800	845	3050	1.50	375	62	59	52	55	53	46
2000	940	3400	1.50	375	64	60	53	56	53	46

400	190	680	3.00	750	50	46	41	43	44	46
600	285	1015	3.00	750	52	50	45	47	47	47
800	380	1350	3.00	750	54	53	48	51	50	48
1000	470	1700	3.00	750	57	56	51	54	53	49
1200	560	2050	3.00	750	59	59	53	56	55	50
1400	655	2375	3.00	750	61	61	55	58	57	52
1600	750	2700	3.00	750	63	63	56	60	59	54
1800	845	3050	3.00	750	65	64	58	61	61	55
2000	940	3400	3.00	750	67	65	59	63	62	56

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Triple 12 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
600	280	1000	0.30	75	35	31	23	25	<20	<20
900	420	1550	0.30	75	37	32	24	26	21	<20
1200	560	2050	0.30	75	38	36	27	30	26	<20
1500	710	2550	0.30	75	41	39	28	31	27	<20
1800	850	3050	0.30	75	44	41	29	32	28	<20
2100	990	3550	0.30	75	45	42	31	33	30	27
2400	1150	4050	0.30	75	47	45	33	34	33	28
2700	1250	4600	0.30	75	48	46	34	36	34	32
3000	1400	5100	0.30	75	50	47	35	37	36	35

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000

600	280	1000	0.60	150	40	36	29	30	26	<20
900	420	1525	0.60	150	42	39	32	34	31	23
1200	560	2050	0.60	150	44	42	35	38	36	28
1500	705	2550	0.60	150	47	44	36	39	36	29
1800	850	3050	0.60	150	50	47	37	40	37	30
2100	1000	3550	0.60	150	52	48	38	41	38	32
2400	1150	4050	0.60	150	54	50	39	42	38	33
2700	1275	4575	0.60	150	55	51	40	43	39	37
3000	1400	5100	0.60	150	56	52	41	44	41	40

600	280	1000	2.00	500	47	43	38	40	39	36
900	420	1525	2.00	500	49	47	41	43	43	39
1200	560	2050	2.00	500	51	50	45	47	46	41
1500	705	2550	2.00	500	54	53	46	50	49	43
1800	850	3050	2.00	500	56	56	48	52	51	46
2100	1000	3550	2.00	500	58	58	50	54	53	46
2400	1150	4050	2.00	500	60	59	52	56	54	47
2700	1275	4575	2.00	500	62	61	53	57	55	48
3000	1400	5100	2.00	500	64	62	55	58	55	48

600	280	1000	1.00	250	41	39	32	34	31	24
900	420	1525	1.00	250	45	43	36	38	36	29
1200	560	2050	1.00	250	49	46	39	42	40	34
1500	705	2550	1.00	250	51	48	41	44	42	36
1800	850	3050	1.00	250	54	50	43	47	44	38
2100	1000	3550	1.00	250	56	52	44	47	45	39
2400	1150	4050	1.00	250	57	54	45	48	45	39
2700	1275	4575	1.00	250	59	55	46	49	46	40
3000	1400	5100	1.00	250	60	56	48	50	46	41

600	280	1000	2.50	625	48	44	39	41	41	41
900	420	1525	2.50	625	50	48	43	45	44	42
1200	560	2050	2.50	625	52	51	46	49	48	43
1500	705	2550	2.50	625	55	54	48	51	50	46
1800	850	3050	2.50	625	57	57	50	54	53	48
2100	1000	3550	2.50	625	59	59	52	56	54	49
2400	1150	4050	2.50	625	61	61	54	57	56	51
2700	1275	4575	2.50	625	63	62	55	59	57	52
3000	1400	5100	2.50	625	65	63	57	60	59	53

600	280	1000	1.50	375	42	41	35	37	36	30
900	420	1525	1.50	375	46	45	39	41	40	34
1200	560	2050	1.50	375	50	49	42	45	43	38
1500	705	2550	1.50	375	53	51	44	47	46	40
1800	850	3050	1.50	375	55	53	46	50	49	43
2100	1000	3550	1.50	375	57	55	48	51	50	43
2400	1150	4050	1.50	375	59	57	50	53	51	44
2700	1275	4575	1.50	375	61	58	51	54	52	45
3000	1400	5100	1.50	375	63	59	52	55	52	45

600	280	1000	3.00	750	49	45	40	42	43	45
900	420	1525	3.00	750	51	49	44	46	46	46
1200	560	2050	3.00	750	53	52	47	50	49	47
1500	705	2550	3.00	750	56	55	50	53	52	48
1800	850	3050	3.00	750	58	58	52	55	54	49
2100	1000	3550	3.00	750	60	60	54	57	56	51
2400	1150	4050	3.00	750	62	62	55	59	58	53
2700	1275	4575	3.00	750	64	63	57	60	60	54
3000	1400	5100	3.00	750	66	64	58	62	61	55

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Quad 12 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m3/h	in wc	Pa	125	250	500	1000	2000	4000
800	380	1350	0.30	75	39	35	25	26	<20	<20
1200	560	2050	0.30	75	41	36	28	30	25	<20
1600	750	2700	0.30	75	42	40	31	34	30	<20
2000	940	3400	0.30	75	45	42	32	35	31	<20
2400	1150	4100	0.30	75	48	45	33	36	32	23
2800	1300	4750	0.30	75	49	46	35	37	34	28
3200	1500	5450	0.30	75	51	49	37	38	37	32
3600	1700	6100	0.30	75	52	50	38	40	38	36
4000	1900	6800	0.30	75	54	51	39	41	40	39

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m3/h	in wc	Pa	125	250	500	1000	2000	4000

800	380	1350	0.60	150	44	40	33	34	30	<20
1200	565	2025	0.60	150	46	43	36	38	35	23
1600	750	2700	0.60	150	48	46	39	42	40	32
2000	950	3400	0.60	150	51	48	40	43	40	33
2400	1150	4100	0.60	150	54	51	41	44	41	34
2800	1325	4775	0.60	150	56	52	42	45	42	36
3200	1500	5450	0.60	150	58	54	43	46	42	37
3600	1700	6125	0.60	150	59	55	44	47	43	41
4000	1900	6800	0.60	150	60	56	45	48	45	44

800	380	1350	2.00	500	51	47	42	44	43	40
1200	565	2025	2.00	500	53	51	45	47	47	43
1600	750	2700	2.00	500	55	54	49	51	50	45
2000	950	3400	2.00	500	58	57	50	54	53	47
2400	1150	4100	2.00	500	60	60	52	56	55	50
2800	1325	4775	2.00	500	62	62	54	58	57	50
3200	1500	5450	2.00	500	64	63	56	60	58	51
3600	1700	6125	2.00	500	66	65	57	61	59	52
4000	1900	6800	2.00	500	68	66	59	62	59	52

800	380	1350	1.00	250	45	43	36	38	35	28
1200	565	2025	1.00	250	49	47	40	42	40	33
1600	750	2700	1.00	250	53	50	43	46	44	38
2000	950	3400	1.00	250	55	52	45	48	46	40
2400	1150	4100	1.00	250	58	54	47	51	48	42
2800	1325	4775	1.00	250	60	56	48	51	49	43
3200	1500	5450	1.00	250	61	58	49	52	49	43
3600	1700	6125	1.00	250	63	59	50	53	50	44
4000	1900	6800	1.00	250	64	60	52	54	50	45

800	380	1350	2.50	625	52	48	43	45	45	45
1200	565	2025	2.50	625	54	52	47	49	48	46
1600	750	2700	2.50	625	56	55	50	53	52	47
2000	950	3400	2.50	625	59	58	52	55	54	50
2400	1150	4100	2.50	625	61	61	54	58	57	52
2800	1325	4775	2.50	625	63	63	56	60	58	53
3200	1500	5450	2.50	625	65	65	58	61	60	55
3600	1700	6125	2.50	625	67	66	59	63	61	56
4000	1900	6800	2.50	625	69	67	61	64	63	57

800	380	1350	1.50	375	46	45	39	41	40	34
1200	565	2025	1.50	375	50	49	43	45	44	38
1600	750	2700	1.50	375	54	53	46	49	47	42
2000	950	3400	1.50	375	57	55	48	51	50	44
2400	1150	4100	1.50	375	59	57	50	54	53	47
2800	1325	4775	1.50	375	61	59	52	55	54	47
3200	1500	5450	1.50	375	63	61	54	57	55	48
3600	1700	6125	1.50	375	65	62	55	58	56	49
4000	1900	6800	1.50	375	67	63	56	59	56	49

800	380	1350	3.00	750	53	49	44	46	47	49
1200	565	2025	3.00	750	55	53	48	50	50	50
1600	750	2700	3.00	750	57	56	51	54	53	51
2000	950	3400	3.00	750	60	59	54	57	56	52
2400	1150	4100	3.00	750	62	62	56	59	58	53
2800	1325	4775	3.00	750	64	64	58	61	60	55
3200	1500	5450	3.00	750	66	66	59	63	62	57
3600	1700	6125	3.00	750	68	67	61	64	64	58
4000	1900	6800	3.00	750	70	68	62	66	65	59

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.

Phoenix Controls

Accel II Airflow Control Valves

Low Pressure

Radiated Sound Power Level Performance Data

Size 414 (with or without Neutralizer)

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
800	378	1359	0.30	75	25	35	29	28	21	< 20
1200	566	2039	0.30	75	32	40	34	32	25	< 20
1600	755	2718	0.30	75	39	44	38	37	28	21
2000	944	3398	0.30	75	43	46	41	39	32	23
2400	1133	4078	0.30	75	48	48	44	41	35	26
2800	1321	4757	0.30	75	51	50	46	43	37	28
3200	1510	5437	0.30	75	53	52	49	46	40	31
3600	1699	6116	0.30	75	56	53	50	47	42	33
4000	1888	6796	0.30	75	58	54	52	49	44	35
4400	2077	7476	0.30	75	59	56	54	50	45	37
4800	2265	8155	0.30	75	61	57	55	51	46	39
5200	2454	8835	0.30	75	63	58	56	52	48	40
5600	2643	9514	0.30	75	64	60	57	53	49	41

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
800	378	1359	0.60	150	29	40	36	35	23	< 20
1200	566	2039	0.60	150	36	44	40	39	29	20
1600	755	2718	0.60	150	43	48	45	43	35	26
2000	944	3398	0.60	150	47	51	48	45	38	30
2400	1133	4078	0.60	150	51	53	50	47	42	33
2800	1321	4757	0.60	150	54	55	53	50	44	36
3200	1510	5437	0.60	150	57	57	55	52	47	38
3600	1699	6116	0.60	150	59	58	57	53	48	40
4000	1888	6796	0.60	150	62	59	58	55	50	43
4400	2077	7476	0.60	150	63	61	60	56	52	44
4800	2265	8155	0.60	150	64	62	61	57	53	46
5200	2454	8835	0.60	150	66	63	62	58	54	47
5600	2643	9514	0.60	150	67	64	63	59	56	48

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
800	378	1359	1.00	250	32	44	40	40	28	20
1200	566	2039	1.00	250	39	48	45	44	34	26
1600	755	2718	1.00	250	46	52	50	48	40	32
2000	944	3398	1.00	250	50	54	52	50	43	35
2400	1133	4078	1.00	250	54	57	55	52	46	39
2800	1321	4757	1.00	250	57	59	57	54	49	41
3200	1510	5437	1.00	250	60	60	59	57	51	44
3600	1699	6116	1.00	250	62	62	61	58	53	46
4000	1888	6796	1.00	250	64	63	63	60	55	48
4400	2077	7476	1.00	250	66	64	64	61	57	50
4800	2265	8155	1.00	250	67	66	66	62	58	51
5200	2454	8835	1.00	250	68	67	67	63	59	52
5600	2643	9514	1.00	250	69	68	67	64	60	54

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
800	378	1359	2.00	500	37	48	47	46	34	28
1200	566	2039	2.00	500	43	53	51	50	40	34
1600	755	2718	2.00	500	50	57	56	54	46	39
2000	944	3398	2.00	500	54	59	59	56	50	43
2400	1133	4078	2.00	500	58	62	61	59	53	46
2800	1321	4757	2.00	500	61	64	63	61	56	49
3200	1510	5437	2.00	500	64	65	66	63	58	51
3600	1699	6116	2.00	500	66	67	67	64	60	53
4000	1888	6796	2.00	500	68	68	69	66	62	55
4400	2077	7476	2.00	500	69	69	70	67	63	57
4800	2265	8155	2.00	500	71	71	72	68	64	59
5200	2454	8835	2.00	500	71	72	73	69	66	60
5600	2643	9514	2.00	500	72	73	73	70	67	61

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
800	378	1359	2.50	625	38	50	49	48	36	30
1200	566	2039	2.50	625	45	54	54	52	42	36
1600	755	2718	2.50	625	52	58	58	56	48	42
2000	944	3398	2.50	625	56	61	61	58	52	45
2400	1133	4078	2.50	625	60	63	63	61	55	49
2800	1321	4757	2.50	625	63	65	66	63	58	51
3200	1510	5437	2.50	625	66	67	68	65	60	54
3600	1699	6116	2.50	625	68	68	69	67	62	56
4000	1888	6796	2.50	625	69	70	71	68	64	58
4400	2077	7476	2.50	625	71	71	72	69	65	59
4800	2265	8155	2.50	625	72	72	74	70	67	61
5200	2454	8835	2.50	625	73	73	74	71	68	62
5600	2643	9514	2.50	625	73	74	75	72	69	63

Airflow			DPS		Sound Power Levels in dB ref 10 ⁻¹² Watts					
					Octave Band Center Frequency in Hz					
cfm	L/s	m ³ /h	in wc	Pa	125	250	500	1000	2000	4000
800	378	1359	3.00	750	39	51	51	50	38	32
1200	566	2039	3.00	750	46	55	55	54	44	38
1600	755	2718	3.00	750	53	60	60	58	50	44
2000	944	3398	3.00	750	57	62	62	60	54	47
2400	1133	4078	3.00	750	61	65	65	62	57	51
2800	1321	4757	3.00	750	64	67	67	65	59	53
3200	1510	5437	3.00	750	67	68	69	67	62	56
3600	1699	6116	3.00	750	69	70	71	68	64	58
4000	1888	6796	3.00	750	71	71	73	70	66	60
4400	2077	7476	3.00	750	72	72	74	71	67	61
4800	2265	8155	3.00	750	73	73	75	72	68	63
5200	2454	8835	3.00	750	73	74	76	73	69	64
5600	2643	9514	3.00	750	74	75	77	73	70	65

Notes

1. All Data was obtained from testing in accordance with **ASHRAE/ANSI Standard 130, Methods of Testing Air Terminal Units**
2. DPS is the difference in static pressure across the valve.
3. Radiated sound is the noise emitted through the valve body.