

**NOTE: The pressure values shown in this table are only valid for measurements made using equipment as detailed in ANSI/SAAMI Z299.3 when calibrated and operated in accordance with the procedures therein.**

**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>		
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
9mm Luger	88	(3)	1,500	350	361	378
	95		1,330			
	100		1,195			
	105		1,200			
	115		1,135			
			1,210			
	124		1,090			
			1,130			
	135		1,060			
	147		985			
9mm Luger +P	90	(3)	1,375	385	397	415
	101		1,220			
	115		1,100			
			1,235			
	124		1,180			
9mm Winchester Magnum	115	(3)	1,450	N/E	N/E	N/E
	125		1,435			
9 x 18 Makarov	90	(3)	990	241	249	260
	95		1,000			
9 x 23 Winchester	124	(3)	1,460	550	567	593
	125		1,435			
10mm Automatic	155	(3)	1,115	375	387	405
			1,410			
	170		1,320			
	175		1,275			
	200		985			
		1,150				
221 Remington Fireball	50	(3)	2,520	600	615	638

<sup>(1)</sup> Based on sample size  $n=10$ .

<sup>(2)</sup> Vented barrel velocities are provided for information only. These values are not used for product manufacturing control.

<sup>(3)</sup> Revolvers not normally chambered for this cartridge.

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**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER (Cont'd)**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>		
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
		25 Automatic	35 45 50	<sup>(3)</sup> ↓ ↓	900 805 755	250
25 North American Arms	35	<sup>(3)</sup>	1,200	239	247	258
30 Luger (7.65mm)	93	<sup>(3)</sup>	1,190	<b>280(T)<sup>(4)</sup></b>	<b>289</b>	<b>302</b>
32 Automatic	60 65 71	<sup>(3)</sup> ↓ ↓	970 1,000 900	205	211	221
32 H&R Magnum	85 95	N/E N/E	1,120 1,020	N/E	N/E	N/E
32 North American Arms	60	N/E	1,220	239	247	258
32 Short Colt	80	N/E	700	<b>175(T)</b>	<b>181</b>	<b>189</b>
32 Smith & Wesson	85-88	N/E	700	170	175	183
32 Smith & Wesson Long	98	N/E	775	150	155	162
327 Federal Magnum	115	N/E	1,535	450	464	485
356 TSW	147	<sup>(3)</sup>	1,240	500	516	540

<sup>(1)</sup> Based on sample size  $n=10$ .

<sup>(2)</sup> Vented barrel velocities are provided for information only. These values are not used for product manufacturing control.

<sup>(3)</sup> Revolvers not normally chambered for this cartridge.

<sup>(4)</sup> Tentative

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**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER (Cont'd)**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>		
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
357 Magnum	101	1,235	1,650	350	361	378
	110	1,270	1,650			
		1,220	1,500			
	125	1,300	1,600			
		1,425	1,875			
	130	1,300	N/E			
		N/E	1,625			
	140	1,330	1,750			
		1,270	1,670			
		1,220	1,545			
	1,220	1,600				
	165	N/E	1,510			
	180	1,000	1,400			
357 Sig	100	<sup>(3)</sup>	1,450	400	413	432
	104		1,345			
	105		1,350			
	124		1,350			
	125		1,350			
	147		1,225			
	150		1,130			

<sup>(1)</sup> Based on sample size  $n=10$ .

<sup>(2)</sup> Vented barrel velocities are provided for information only. These values are not used for product manufacturing control.

<sup>(3)</sup> Revolvers not normally chambered for this cartridge.

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**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER (Cont'd)**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>		
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
		38 Automatic	130	<sup>(3)</sup>	1,035	265
38 Smith & Wesson	145-146	N/E	680	145	150	157
38 Special	100	950	N/E	170	175	183
		1,000	N/E			
	110	N/E	975			
		945	1,150			
	125	N/E	950			
		N/E	1,000			
	130	N/E	1,050			
		775	775			
	150	N/E	900			
	158	750	900			
200	630	780				
38 Special Match <sup>(4)</sup>	148	700	800	170	175	183
	158	750	900			
38 Special +P	95	1,080	1,330	200	206	215
		1,155	1,420			
	101	945	1,120			
	110	980	1,205			
	125	965	1,135			
	130	925	1,150			
	147	855	985			
	150	840	1,050			
158	880	1,050				

<sup>(1)</sup> Based on sample size  $n=10$ .

<sup>(2)</sup> Vented barrel velocities are provided for information only. These values are not used for product manufacturing control.

<sup>(3)</sup> Revolvers not normally chambered for this cartridge.

<sup>(4)</sup> The velocity figures listed for Match items are nominal values; optimum accuracy may require a velocity different from the nominal values.

**NOTE: The pressure values shown in this table are only valid for measurements made using equipment as detailed in ANSI/SAAMI Z299.3 when calibrated and operated in accordance with the procedures therein.**

**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER (Cont'd)**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>		
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
38 Super Automatic +P	115	(3)	1,280	365	377	394
	125	↓	1,230			
	130	↓	1,200			
380 Automatic	65	(3)	1,050	215	222	232
	80	↓	980			
	85	↓	990			
	88-90	↓	980			
	95	↓	945			
	100	↓	990			
40 Smith & Wesson	125	(3)	1,300	350	361	378
	135	↓	1,150			
	140	↓	1,185			
	141	↓	1,155			
	141	↓	1,135			
	155	↓	1,115			
	155	↓	1,195			
165	↓	1,040				
400 Cor-Bon	165	↓	1,135	350	361	378
	180	↓	985			
	135	(3)	1,450			
	150	↓	1,350			
	155	↓	1,200			
41 Remington Magnum	160	↓	1,000	360	371	388
	165	↓	1,300			
	170	↓	1,400			
	175	↓	1,250			
	180	↓	1,615			
210	↓	955	1,125			
		↓	1,280	1,585		

<sup>(1)</sup> Based on sample size  $n=10$ .

<sup>(2)</sup> Vented barrel velocities are provided for information only. These values are not used for product manufacturing control.

<sup>(3)</sup> Revolvers not normally chambered for this cartridge.

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**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER (Cont'd)**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>			
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)	
44 Remington Magnum	180	1,600	1,800	360	371	388	
	210	1,250	1,425				
	220	N/E	1,580				
	225	N/E	1,275				
	240		995				1,175
			1,150				1,500
			1,170				1,600
			1,335				1,600
	250		N/E				1,150
			1,150				1,475
		N/E	1,520				
275	1,185	1,335					
300	N/E	1,200					
44 S&W Special	200	N/E	900	155	160	167	
		N/E	1,025				
	240	750	800				
	246	N/E	800				

<sup>(1)</sup> Based on sample size  $n=10$ .

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**VELOCITY AND PRESSURE:  
VELOCITY & PRESSURE DATA – TRANSDUCER (Cont'd)**

(N/E = Not Established)

Cartridge	Bullet Weight (gr.)	Velocity (fps)		Transducer Pressure (psi/100) <sup>(1)</sup>		
		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
		(N/E = Not Established)				
45 Automatic	120	(3)	1,200	210	217	227
	155		1,125			
	165		1,065			
	170		1,050			
	175		1,020			
	185		915			
			995			
			830			
	230		870			
			915			
45 Automatic Match <sup>(4)</sup>	185	(3)	765	210	217	227
45 Automatic +P	185	(3)	990	230	237	248
			1,130			
	230		975			
45 Auto Rim	230	(3)	825	N/E	N/E	N/E
45 Colt	200		1,120	140	144	151
	225		915			
			950			
	250		750			
	250-255		900			
45 Glock Automatic Pistol	175	(3)	995	230	237	248
	185		995			
			1,090			
	200		1,020			
	230		830			
		870				
45 Winchester Magnum	230	N/E	1,380	415	428	448
	260		1,200			

<sup>(1)</sup> Based on sample size  $n=10$ .

<sup>(2)</sup> Vented barrel velocities are provided for information only. These values are not used for product manufacturing control.

<sup>(3)</sup> Revolvers not normally chambered for this cartridge.

<sup>(4)</sup> The velocity figures listed for Match items are nominal values; optimum accuracy may require a velocity different from the nominal values.

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		Nominal Mean Instrumental @ 15' Vented Bbl. <sup>(2)</sup>	Nominal Mean Instrumental @ 15' Test Bbl.	Maximum Average Pressure (MAP)	Maximum Probable Lot Mean (MPLM)	Maximum Probable Sample Mean (MPSM)
454 Casull	250	N/E	1,420	650	671	702
			1,775			
			2,000			
	260		2,000			
	300	1,625	1,825			
460 S&W Magnum	200	N/E	2,540	650	671	702
	250		1,650			
	260		2,150			
475 Linebaugh	400	1,300	1,400	500	516	540
480 Ruger	325	1,350	1,425	480	495	518
50 Action Express	325	<sup>(3)</sup>	1,400	350	361	378
500 S&W Magnum	275	N/E	1,620	600	619	647
	300		2,050			
	350		1,400			
			1,800			
	400		1,800			
	440		1,625			
500 Special	350	N/E	1,375	360	371	388

<sup>(1)</sup> Based on sample size  $n=10$ .

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