



# GAS SPRINGS



## ISO AG

- ISO Standard gas springs
- High contact force (150-10000 daN)
- Meet major automotive standards
- Used as die separation and deep bending

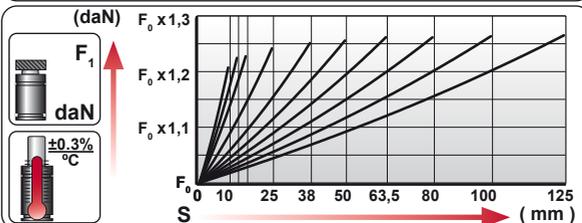
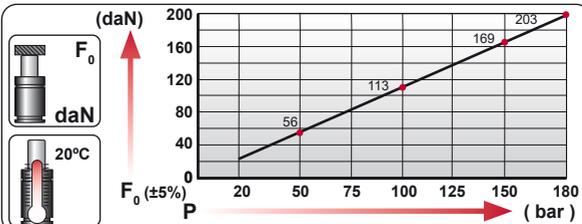
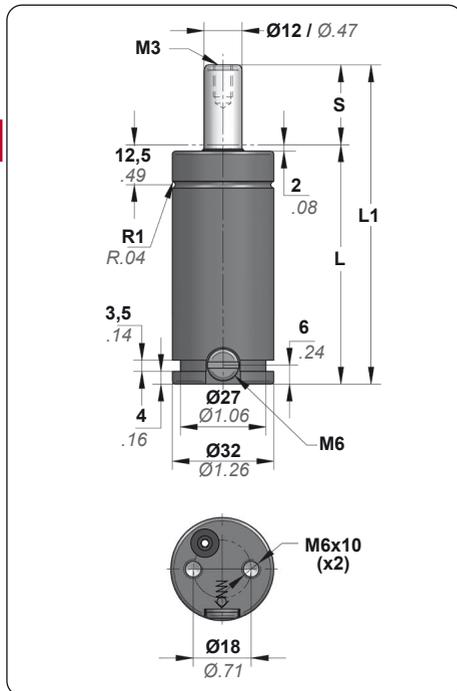
MODEL	F <sub>0</sub> daN lb	Ø mm inch	S mm inch	L1 mm inch	Pmax bar psi	Charge Port		
<b>AG 150</b>	150 337	Ø32 Ø1.26	10 - 125 0.39 - 4.92	70 - 300 2.76 - 11.81	180 2610	M6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 250</b>	250 562	Ø38 Ø1.50	10 - 125 0.39 - 4.92	70 - 300 2.76 - 11.81	150 2175	M6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 500</b>	500 1124	Ø45 Ø1.77	10 - 160 0.39 - 6.30	105 - 405 4.13 - 15.94	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 750</b>	750 1686	Ø50 Ø1.97	13 - 300 0.51 - 11.81	121 - 695 4.76 - 27.36	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 1500</b>	1500 3372	Ø75 Ø2.95	13 - 300 0.51 - 11.81	136 - 710 5.35 - 27.95	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 3000</b>	3000 6744	Ø95 Ø3.74	25 - 300 0.98 - 11.81	170 - 720 6.69 - 28.35	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 5000</b>	5000 11240	Ø120 Ø4.72	25 - 300 0.98 - 11.81	190 - 740 7.48 - 29.13	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 7500</b>	7500 16861	Ø150 Ø5.91	25 - 300 0.98 - 11.81	205 - 755 8.07 - 29.72	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>AG 10000</b>	10000 22481	Ø195 Ø7.68	25 - 300 0.98 - 11.81	210 - 760 8.27 - 29.92	150 2175	G1/8"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

MODEL	<b>X</b>	CW 1000 CWC 1000 KZ/KT 1000	<b>X</b>	CT 1000 CK 1000 FD 750	GN 750 CM 1000 CD 1000	<b>AG 750</b>	CPH 1700 CP 2000	CS 1800
SERIES	MINI	COMPACT HEIGHT	THREADED	LOW PROFILE	HEAVY DUTY	ISO	HEAVY LOAD	POWER SHORT STROKE

# AG 150

150

BMW B2 4006		PSA E24.54.815.G
MB B8 3180 220 000 001	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		



VDI SAFETY

STANDARS

ORDER	S		L1 ±0.25		L		Kg. lb	
	mm	inch	mm	inch	mm	inch		
AG --- 010	10	0.39	70	2.76	60	2.36	0.27	0.60
AG --- 012	12.7	0.50	75.4	2.97	62.7	2.47	0.28	0.62
AG --- 016	16	0.63	82	3.23	66	2.60	0.29	0.64
AG --- 025	25	0.98	100	3.94	75	2.95	0.32	0.71
AG --- 038	38	1.50	126	4.96	88	3.46	0.36	0.79
AG --- 050	50	1.97	150	5.91	100	3.94	0.39	0.86
AG --- 063	63.5	2.50	177	6.97	113.5	4.47	0.44	0.97
AG --- 080	80	3.15	210	8.27	130	5.12	0.49	1.08
AG --- 100	100	3.94	250	9.84	150	5.91	0.55	1.21
AG --- 125	125	4.92	300	11.81	175	6.89	0.62	1.37

ORDER	COLOR	P	
		bar	psi
AG 50 050	Green	45	650
AG 100 050	Blue	90	1305
AG 150 050	Red	135	1960
AG 200 050	Yellow	180	2610
AG XXX 050	Black	20-180	290-2610

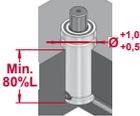
ORDER	F <sub>0</sub> Initial Force ±5% 20°C 68°F		F <sub>1</sub> (ISOTHERMAL) End Force	
	daN	lb	daN	lb
	AG 50 050	50	112	65
AG 100 050	100	225	125	281
AG 150 050	150	337	190	427
AG 200 050	200	450	250	562
AG XXX 050	23-200	52-450	30-250	67-562

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar 180 bar	20°C / 68°F	290 psi 2610 psi	Charging Adapter	06 CG 2-Q
Smax	< 90%	Tmin Tmax	0 °C 32 °F	80 °C 176 °F		Connection	AG-H 150 XXX
Vmax	1,6 m/s	Force variation by temperature	±0,3% / °C			Cardridge Kit	1225F220B

								
	$\varnothing 32$	$\varnothing 32$		$\varnothing 32$				
	L1=142	L1=130 L1=140		L1=137 L1=139	L1=150 L1=150	L1=150	L1=155	L1=195
MODEL	AFT	CW 350 KZ 350		CT 300 CK 300	CM 350 CD 300	<b>AG 150</b>	CP 500	CS 770

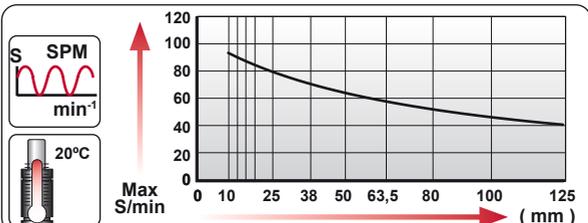
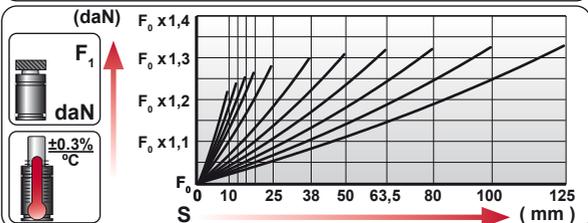
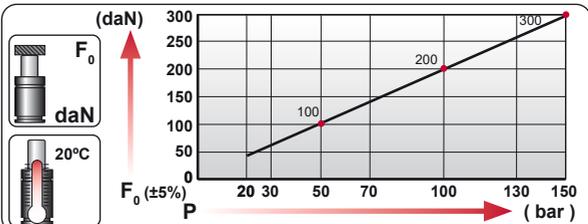
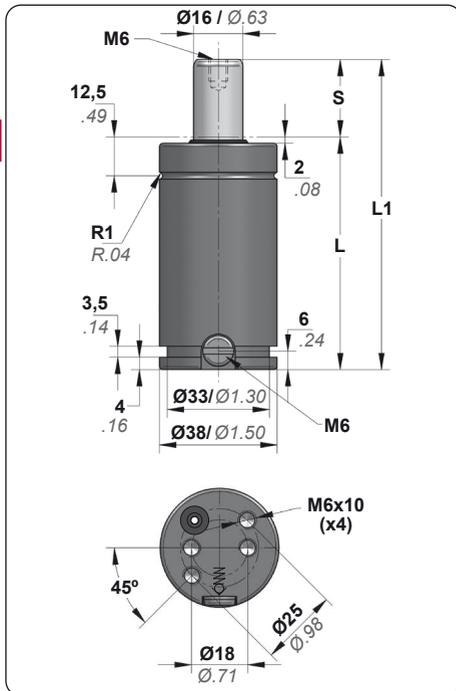
**MOUNTING OPTIONS**

	<b>Drop-in</b> 	<b>Top Mount</b> 	<b>Base Mount</b> 	<b>Foot Mount</b> 	<b>Support Mount</b> 
<b>HOW TO ORDER</b>		<b>A14-032</b>  580 <b>A34-032</b>  582		<b>C20-032</b>  598	<b>D02-032</b>  600

# AG 250

150

BMW B2 4006	FORD W-DX35-6203	PSA E24.54.815.G
	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		NISSAN K32S0



VDI SAFETY

STANDARS

ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.		Kg.	lb
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		
AG 250 010	10	0.39	70	2.76	60	2.36	250 562 ±5% 125 bar 1810 psi at 20°C 68°F		305	685	11	0.7	0.39	0.86
AG 250 013	13	0.51	76	2.99	63	2.48			310	696	14	0.8	0.40	0.88
AG 250 016	16	0.63	82	3.23	66	2.60			313	704	16	1.0	0.41	0.90
AG 250 019	19	0.75	88	3.46	69	2.72			316	710	18	1.1	0.43	0.95
AG 250 025	25	0.98	100	3.94	75	2.95			320	719	23	1.4	0.45	0.99
AG 250 038	38	1.50	126	4.96	88	3.46			325	730	33	2.0	0.51	1.12
AG 250 050	50	1.97	150	5.91	100	3.94			327	735	43	2.6	0.56	1.23
AG 250 063	63.5	2.50	177	6.97	113.5	4.47			329	739	53	3.2	0.62	1.37
AG 250 080	80	3.15	210	8.27	130	5.12			330	742	66	4.0	0.69	1.52
AG 250 100	100	3.94	250	9.84	150	5.91			331	745	82	5.0	0.77	1.70
AG 250 125	125	4.92	300	11.81	175	6.89	332	747	102	6.2	0.88	1.94		

TECHNICAL DATA															
	Fluid	N <sub>2</sub>		Pmin Pmax	20 bar	150 bar		20°C / 68°F	290 psi	2175 psi		Charging Adapter	06 CG 2-Q		
	Sm <sub>ax</sub>	< 90%		Tmin Tmax	0 °C	80 °C		32 °F	176 °F		Connection	AG-H 250 XXX			
	V <sub>max</sub>	1,6 m/s		Force variation by temperature	±0,3% / °C			Cardridge Kit	1630B205B						

MODEL	CW 500 KZ 500	AS 300	CT 500 CK 500 FD 300	CD 500 CM 500	<b>AG 250</b>	CPH 850 CP 1000	CS 1000

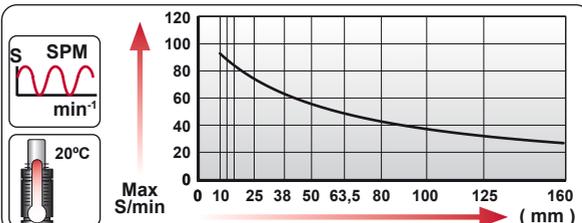
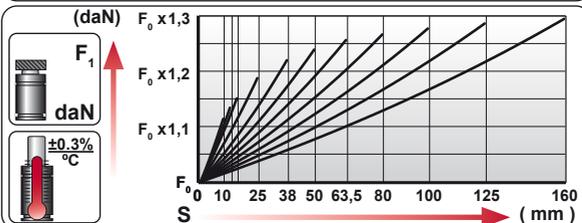
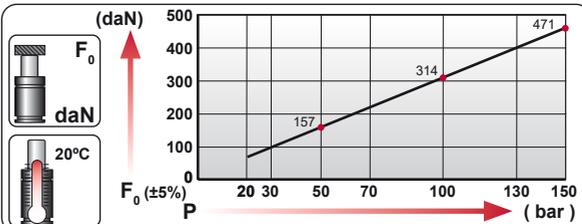
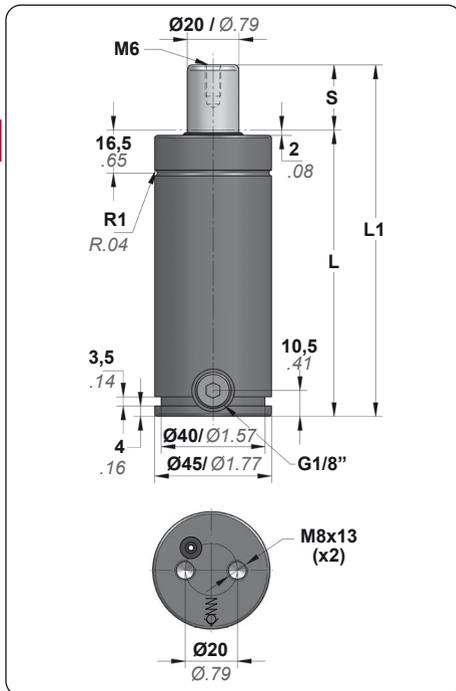
**MOUNTING OPTIONS**

	<p><b>Drop-in</b></p>	<p><b>Top Mount</b></p>	<p><b>Base Mount</b></p>	<p><b>Foot Mount</b></p>	<p><b>Support Mount</b></p>
HOW TO ORDER		<p><b>A14-038</b>  580</p> <p><b>A34-038</b>  582</p>		<p><b>C05-038</b>  596</p> <p><b>C20-038</b>  598</p>	<p><b>D02-038</b>  600</p> <p><b>D67-038</b>  602</p>

# AG 500

150

BMW B2 4006		PSA E24.54.815.G
MB B8 3180 220 000 001	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		NISSAN K32S0



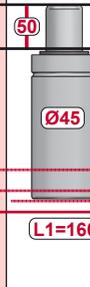
VDI SAFETY

STANDARS

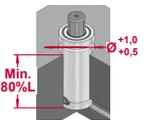
ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	Kg.	lb
AG 500 010	10	0.39	105	4.13	95	3.74	470	1057	516	1161	35	2.1	0.83	1.83
AG 500 013	13	0.51	111	4.37	98	3.86			525	1181	39	2.4	0.85	1.87
AG 500 016	16	0.63	117	4.61	101	3.98	±5% 150 bar 2175 psi at 20°C 68°F		533	1198	43	2.6	0.86	1.90
AG 500 025	25	0.98	135	5.31	110	4.33			550	1236	54	3.3	0.91	2.01
AG 500 038	38	1.50	161	6.34	123	4.84			566	1272	71	4.3	0.97	2.14
AG 500 050	50	1.97	185	7.28	135	5.31			575	1294	86	5.2	1.03	2.27
AG 500 063	63.5	2.50	212	8.35	148.5	5.85			583	1311	103	6.3	1.10	2.43
AG 500 080	80	3.15	245	9.65	165	6.50			590	1326	124	7.6	1.18	2.60
AG 500 100	100	3.94	285	11.22	185	7.28			595	1339	149	9.1	1.28	2.82
AG 500 125	125	4.92	335	13.19	210	8.27			600	1350	181	11.0	1.41	3.11
AG 500 160	160	6.30	405	15.94	245	9.65			605	1360	225	13.7	1.58	3.48

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar / 290 psi	150 bar / 2175 psi	Tmin Tmax	0 °C / 32 °F	80 °C / 176 °F	Charging Adapter	18 CG 1-Q
Smax	< 90%	Force variation by temperature	±0,3% / °C		Connection			Cardridge Kit	AG-H 500 XXX
Vmax	1,6 m/s								2038E380B

							
			<p>50</p> <p>Ø45</p> <p>L1=132</p> <p>L1=142</p> <p>L1=147</p>	<p>50</p> <p>Ø45</p> <p>L1=138</p> <p>L1=150</p> <p>L1=150</p>	<p>50</p> <p>Ø45</p> <p>L1=160</p> <p>L1=185</p>	<p>50</p> <p>Ø45</p> <p>L1=185</p>	<p>50</p> <p>Ø45</p> <p>L1=160</p>
MODEL			CW 750 CWC 750 KZ 750	CT 700 CK 750 FD 500	CM 600 CD 700	<b>AG 500</b>	CPH 1250

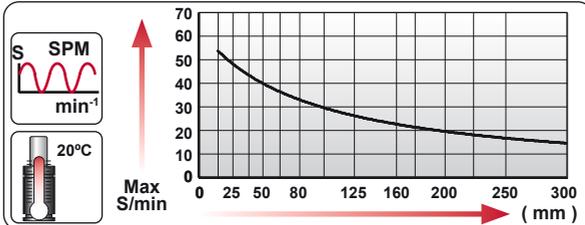
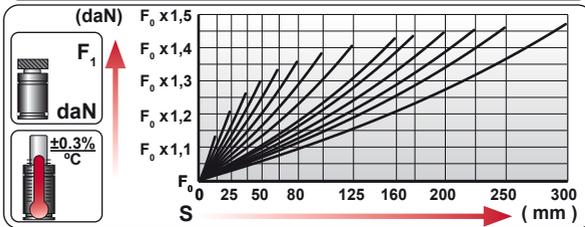
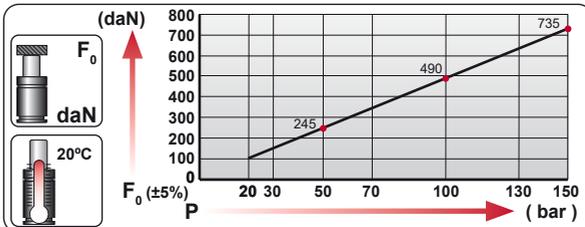
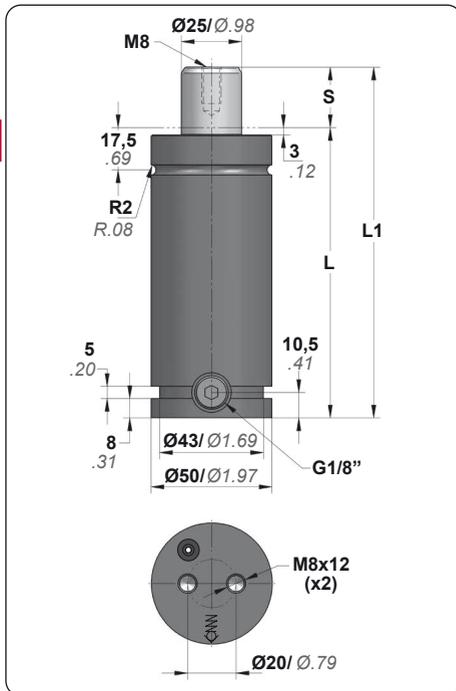
**MOUNTING OPTIONS**

	<b>Drop-in</b> 	<b>Top Mount</b> 	<b>Base Mount</b> 	<b>Foot Mount</b> 	<b>Support Mount</b> 
<b>HOW TO ORDER</b>		<b>A14-045</b>  581 <b>A34-045</b>  582	<b>B21-045</b>  590 <b>B76-045</b>  594	<b>C05-045</b>  596 <b>C20-045</b>  598	<b>D02-045</b>  600 <b>D67-045</b>  602

# AG 750

150

BMW B2 4006	FORD W-DX35-6203	PSA E24.54.815.G
MB B8 3180 220 000 001	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		NISSAN K32S0



VDI SAFETY

- Safety level
- Maximum velocity
- Maximum pressure
- Flex Rod

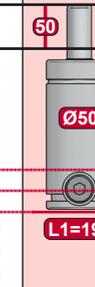
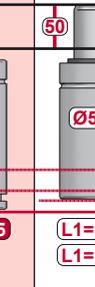
STANDARDS

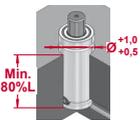
- PED
- VDI 3003
- ISO 11901
- NAAMS
- ONOMO EM.24.54

ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		Kg.
AG 750 013	13	0.51	121	4.76	108	4.25	740 1664  ±5% 150 bar 2175 psi at 20°C 68°F		839	1885	54	3.3	1.12	2.47
AG 750 025	25	0.98	145	5.71	120	4.72			894	2010	71	4.3	1.22	2.69
AG 750 038	38	1.50	171	6.73	133	5.24			935	2101	90	5.5	1.32	2.91
AG 750 050	50	1.97	195	7.68	145	5.71			962	2162	106	6.5	1.42	3.13
AG 750 063	63.5	2.50	222	8.74	158.5	6.24			985	2213	126	7.7	1.53	3.37
AG 750 080	80	3.15	255	10.04	175	6.89			1005	2260	149	9.1	1.67	3.68
AG 750 100	100	3.94	295	11.61	195	7.68			1024	2302	177	10.8	1.83	4.03
AG 750 125	125	4.92	345	13.58	220	8.66			1041	2340	212	13.0	2.03	4.48
AG 750 160	160	6.30	415	16.34	255	10.04			1057	2377	262	16.0	2.32	5.11
AG 750 175	175	6.89	445	17.52	270	10.63			1063	2389	283	17.3	2.44	5.38
AG 750 200	200	7.87	495	19.49	295	11.61			1070	2406	318	19.4	2.65	5.84
AG 750 225	225	8.86	545	21.46	320	12.60			1077	2420	353	21.6	2.85	6.28
AG 750 250	250	9.84	595	23.43	345	13.58			1082	2431	389	23.7	3.06	6.75
AG 750 300	300	11.81	695	27.36	395	15.55			1089	2449	459	28.0	3.47	7.65

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar / 290 psi	150 bar / 2175 psi	Tmin Tmax	0 °C / 32 °F	80 °C / 176 °F	Charging Adapter	18 CG 1-Q
Smax	< 90%	Force variation by temperature	±0,3% / °C		Connection	AG-H 750 XXX			
Vmax	2 m/s	Cardridge Kit	2540T340A						

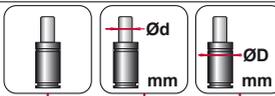
								
MODEL			CW 1000 CWC 1000 KZ/KT 1000	CT 1000 CK 1000 FD 750	GN 750 CM 1000 CD 1000	<b>AG 750</b>	CPH 1700 CP 2000	CS 1800

MOUNTING OPTIONS					
	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
					
HOW TO ORDER		A14-050  A34-050 	B21-050  B76-050 	C05-050  C20-050 	D02-050  D67-050 

### PROTECTION OPTIONS

Longer life to your gas springs by using protective solutions from harsh working environment (i.e. hot stamping), specially designed to minimize the impact of solid or liquid contaminants and extending the useful life of gas springs.

#### PW Protective Wiper



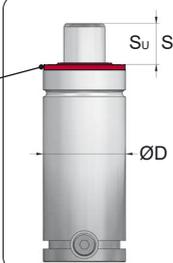
HOW TO ORDER

AG 750 050      25      50

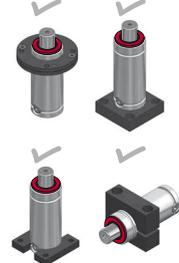
**AG 750 050 + PW 025 050**



HOT STAMPING



Protective Wiper

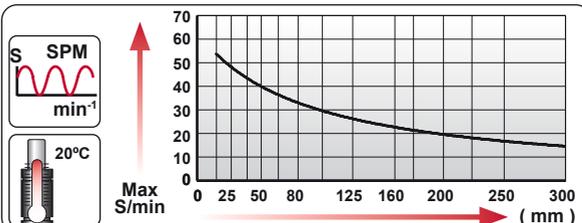
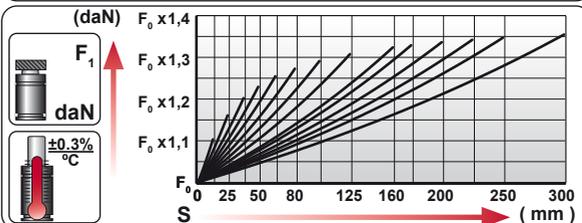
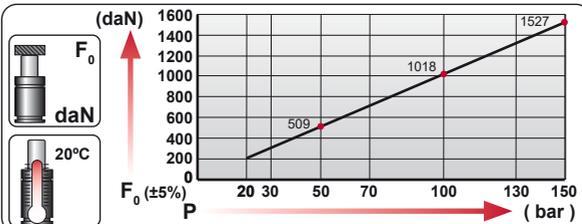
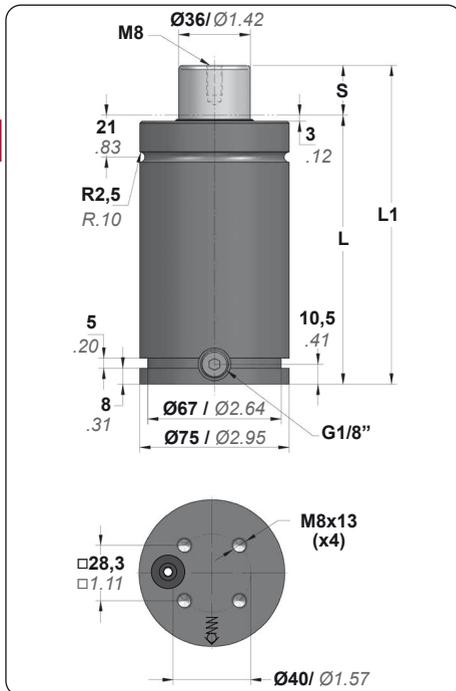


PW does not involve any variation of the dimensions of the gas spring. The useful stroke keeps the same as nominal stroke.

# AG 1500

150

BMW B2 4006	FORD W-DX35-6203	PSA E24.54.815.G
MB B8 3180 220 000 001	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		NISSAN K32S0



VDI SAFETY

- > S
- > Vmax
- > Pmax
- Flex Rod

STANDARDS

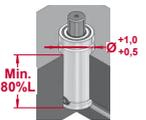
- PEP
- VDI 3003
- ISO 11901
- NAAMS
- ONOMO EM.24.54

ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	Kg.	lb
AG 1500 013	13	0.51	136	5.35	123	4.84	1530	3440	1690	3800	140	8.5	2.82	6.22
AG 1500 025	25	0.98	160	6.30	135	5.31			1778	3997	183	11.1	2.99	6.59
AG 1500 038	38	1.50	186	7.32	148	5.83			1841	4139	229	14.0	3.18	7.01
AG 1500 050	50	1.97	210	8.27	160	6.30			1883	4232	272	16.6	3.36	7.41
AG 1500 063.5	63.5	2.50	237	9.33	173.5	6.83			1917	4310	320	19.5	3.56	7.85
AG 1500 080	80	3.15	270	10.63	190	7.48			1949	4381	379	23.1	3.80	8.38
AG 1500 100	100	3.94	310	12.20	210	8.27			1977	4444	450	27.5	4.09	9.02
AG 1500 125	125	4.92	360	14.17	235	9.25			2002	4501	539	32.9	4.46	9.83
AG 1500 160	160	6.30	430	16.93	270	10.63			2027	4556	664	40.5	4.97	10.96
AG 1500 175	175	6.89	460	18.11	285	11.22			2035	4575	718	43.8	5.19	11.44
AG 1500 200	200	7.87	510	20.08	310	12.20			2046	4600	807	49.3	5.56	12.26
AG 1500 225	225	8.86	560	22.05	335	13.19			2055	4620	896	54.7	5.92	13.05
AG 1500 250	250	9.84	610	24.02	360	14.17			2062	4637	986	60.1	6.29	13.87
AG 1500 300	300	11.81	710	27.95	410	16.14			2074	4663	1164	71.0	7.02	15.48

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar 150 bar	Charging Adapter	18 CG 1-Q
Smax	< 90%	20°C / 68°F	290 psi 2175 psi	Connection	AG-H 1500 XXX
Vmax	2 m/s	Tmin Tmax	0 °C 80 °C	Cardridge Kit	3663R440A
		Force variation by temperature	32 °F 176 °F		
			±0,3% / °C		

								
MODEL	CW 2400 CWC 2400 KZ/KT 2400	CT 3000 CK 2500 FD 1500	GN 1500 CM 2500 CD 2400	AG 1500	CPH 4300 CP 5000	CS 4700		

MOUNTING OPTIONS					
	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
					
HOW TO ORDER		A14-075  A34-075 	B21-075  B76-075 	C05-075  C20-075 	D02-075  D67-075 

### PROTECTION OPTIONS

Longer life to your gas springs by using protective solutions from harsh working environment (i.e. hot stamping), specially designed to minimize the impact of solid or liquid contaminants and extending the useful life of gas springs.

#### PW Protective Wiper



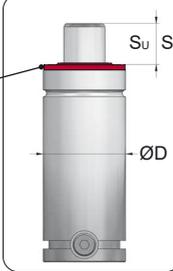
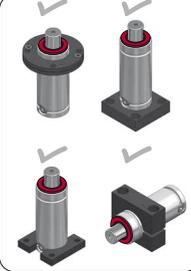
HOW TO ORDER

AG 1500 050      36      75

**AG 1500 050 + PW 036 075**



Protective Wiper

PW does not involve any variation of the dimensions of the gas spring. The useful stroke keeps the same as nominal stroke.



mm		50	50	50	50	50	50	50
mm								
mm								
		$\varnothing 95$	$\varnothing 95$	$\varnothing 95$	$\varnothing 95$	$\varnothing 95$	$\varnothing 95$	$\varnothing 95$
		L1=158	L1=170	L1=195	L1=220	L1=215	L1=255	
		L1=162	L1=170	L1=205				
		L1=162		L1=220				
MODEL		CW 4200 KZ 4200 KT 4200	CK 4000 FD 3000	GN 3000 CM 4000 CD 4200	<b>AG 3000</b>	CP 8000	CS 7500	

**MOUNTING OPTIONS**

	<b>Drop-in</b>  Min. 80%L $\varnothing +1.0$ $\varnothing +0.5$	<b>Top Mount</b> 	<b>Base Mount</b> 	<b>Foot Mount</b> 	<b>Support Mount</b> 
<b>HOW TO ORDER</b>		<b>A14-095</b> 581 <b>A34-095</b> 582	<b>B16-095</b> 591 <b>B21-095</b> 590 <b>B76-095</b> 594	<b>C05-095</b> 597 <b>C20-095</b> 598	<b>D02-095</b> 601 <b>D67-095</b> 603

**PROTECTION OPTIONS**

Longer life to your gas springs by using protective solutions from harsh working environment (i.e. hot stamping), specially designed to minimize the impact of solid or liquid contaminants and extending the useful life of gas springs.

**PW Protective Wiper**

**HOW TO ORDER**

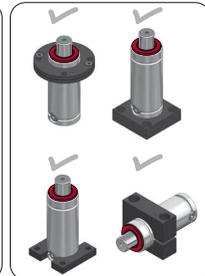
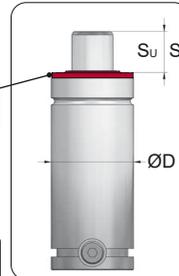
AG 3000 050      50      95

**AG 3000 050 + PW 050 095**

$\varnothing d$  mm       $\varnothing D$  mm



Protective Wiper

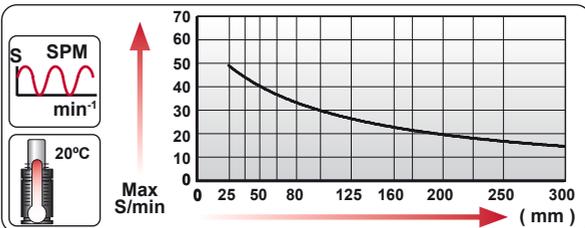
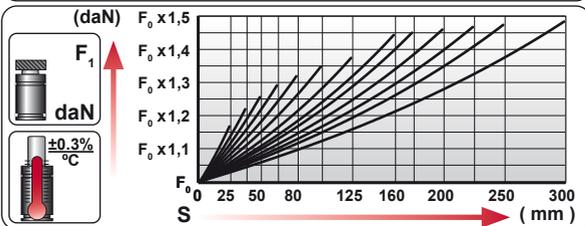
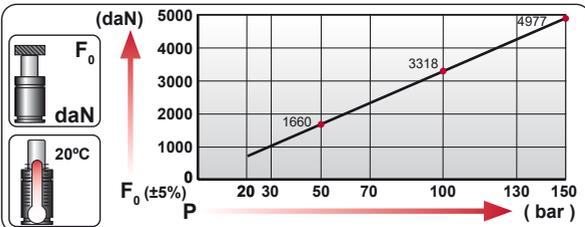
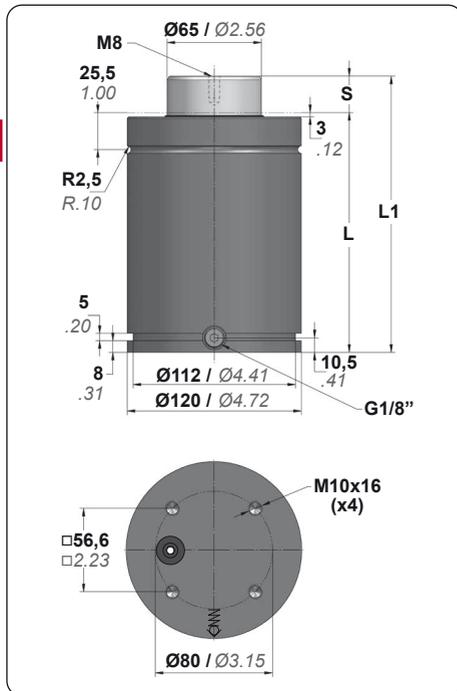


PW does not involve any variation of the dimensions of the gas spring. The useful stroke keeps the same as nominal stroke.

# AG 5000

150

BMW B2 4006	FORD W-DX35-6203	PSA E24.54.815.G
MB B8 3180 220 000 001	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		NISSAN K32S0



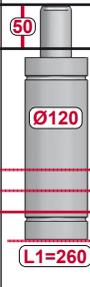
VDI SAFETY

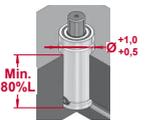
STANDARS

ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.		Kg. lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		
AG 5000 025	25	0.98	190	7.48	165	6.50	4980	11195	5818	13078	576	35.2	9.78	21.56
AG 5000 038	38	1.50	216	8.50	178	7.01			6076	13660	699	42.7	10.31	22.73
AG 5000 050	50	1.97	240	9.45	190	7.48			6258	14069	812	49.6	10.80	23.81
AG 5000 063	63.5	2.50	267	10.51	203.5	8.01			6419	14431	940	57.4	11.35	25.02
AG 5000 080	80	3.15	300	11.81	220	8.66			6572	14775	1096	66.9	12.02	26.50
AG 5000 100	100	3.94	340	13.39	240	9.45			6715	15095	1285	78.4	12.83	28.29
AG 5000 125	125	4.92	390	15.35	265	10.43			6848	15395	1521	92.8	13.85	30.53
AG 5000 160	160	6.30	460	18.11	300	11.81			7181	16144	1732	105.7	15.27	33.66
AG 5000 175	175	6.89	490	19.29	315	12.40			7216	16223	1874	114.3	15.88	35.01
AG 5000 200	200	7.87	540	21.26	340	13.39			7265	16333	2110	128.8	16.90	37.26
AG 5000 225	225	8.86	590	23.23	365	14.37			7305	16421	2346	143.2	17.92	39.51
AG 5000 250	250	9.84	640	25.20	390	15.35			7337	16495	2582	157.6	18.93	41.73
AG 5000 300	300	11.81	740	29.13	440	17.32			7388	16609	3054	186.4	20.97	46.23

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar 290 psi	150 bar 2175 psi	Tmin Tmax	0 °C 32 °F	80 °C 176 °F	Charging Adapter	18 CG 1-Q
Smax	< 90%	Force variation by temperature	±0,3% / °C		Connection	AG-H 5000 XXX		Cardridge Kit	S ≤ 125mm 65A0W560A S ≥ 160mm 65A0W750A

							
mm	mm	mm	50 Ø120 L1=168 L1=172 L1=172	50 Ø120 L1=190	50 Ø120 L1=202 L1=215 L1=240	50 Ø120 L1=240	50 Ø120 L1=260
MODEL			CW 6600 KZ 6600 KT 6600	FD 5000	GN 5000 CM 6500 CD 6600	<b>AG 5000</b>	CS 11800

MOUNTING OPTIONS					
	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
					
HOW TO ORDER		A14-120  A34-120 	B16-120  B21-120  B76-120 	C05-120  C20-120 	D02-120  D67-120 

### PROTECTION OPTIONS

Longer life to your gas springs by using protective solutions from harsh working environment (i.e. hot stamping), specially designed to minimize the impact of solid or liquid contaminants and extending the useful life of gas springs.

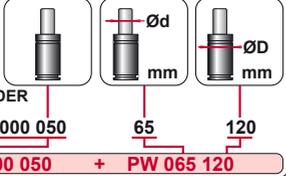
#### PW Protective Wiper



HOW TO ORDER

AG 5000 050      65      120

**AG 5000 050 + PW 065 120**

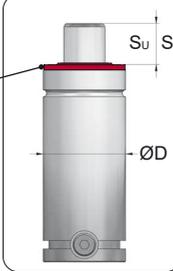


Ød mm

ØD mm



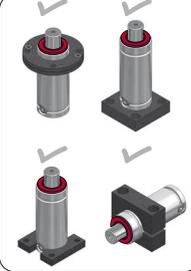
HOT STAMPING



Protective Wiper

Su S

ØD

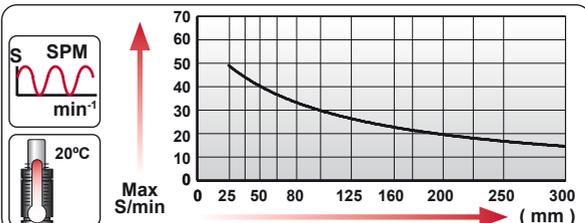
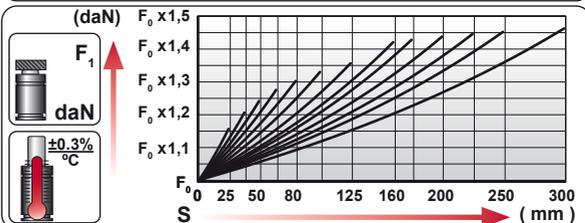
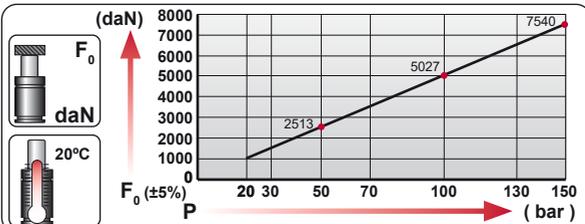
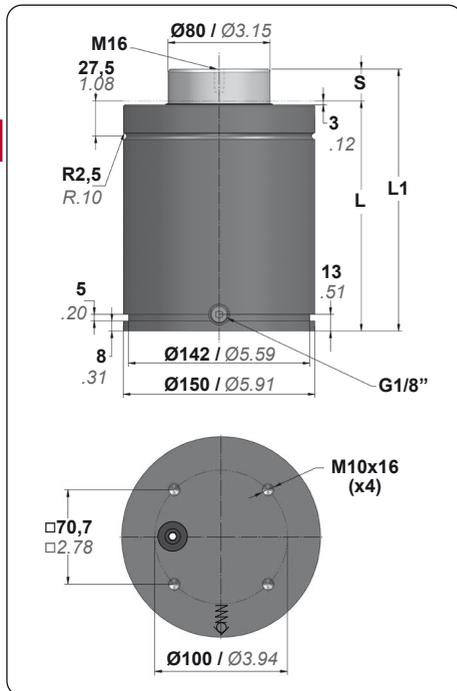


PW does not involve any variation of the dimensions of the gas spring. The useful stroke keeps the same as nominal stroke.

# AG 7500

150

BMW B2 4006	FORD W-DX35-6203	PSA E24.54.815.G
MB B8 3180 220 000 001	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		



VDI SAFETY

- Safety symbol
- Maximum velocity symbol
- Maximum pressure symbol
- Flex Rod symbol

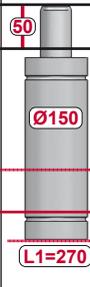
STANDARDS

- PED logo
- VDI 3003 logo
- ISO 11901 logo
- NAAMS logo
- ONOMO logo

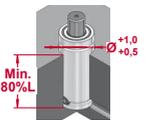
ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>		Kg.
AG 7500 025	25	0.98	205	8.07	180	7.09	7540 16951 ±5% 150 bar 2175 psi at 20°C 68°F	16951	8734	19635	919	56.1	16.89	37.24
AG 7500 038	38	1.50	231	9.09	193	7.60			9108	20475	1110	67.7	17.71	39.04
AG 7500 050	50	1.97	255	10.04	205	8.07			9372	21070	1285	78.4	18.47	40.72
AG 7500 063	63.5	2.50	282	11.10	218.5	8.60			9608	21599	1483	90.5	19.33	42.61
AG 7500 080	80	3.15	315	12.40	235	9.25			9832	22104	1725	105.3	20.37	44.91
AG 7500 100	100	3.94	355	13.98	255	10.04			10041	22574	2018	123.1	21.63	47.69
AG 7500 125	125	4.92	405	15.94	280	11.02			10238	23017	2384	145.5	23.21	51.17
AG 7500 160	160	6.30	475	18.70	315	12.40			10724	24109	2709	165.3	25.42	56.04
AG 7500 175	175	6.89	505	19.88	330	12.99			10777	24229	2928	178.7	26.37	58.14
AG 7500 200	200	7.87	555	21.85	355	13.98			10851	24394	3295	201.0	27.95	61.62
AG 7500 225	225	8.86	605	23.82	380	14.96			10911	24529	3661	223.4	29.53	65.10
AG 7500 250	250	9.84	655	25.79	405	15.94			10960	24640	4027	245.7	31.11	68.59
AG 7500 300	300	11.81	755	29.72	455	17.91			11037	24812	4759	290.4	34.27	75.55

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar 290 psi	150 bar 2175 psi	Charging Adapter	18 CG 1-Q
Smix	< 90%	Tmin Tmax	0 °C 32 °F	80 °C 176 °F	Connection	AG-H 7500 XXX
Vmax	2 m/s	Force variation by temperature	±0,3% / °C		Cardridge Kit	S ≤ 125mm 80C5X700A S ≥ 160mm 80C5X890A

						
mm	mm	mm	50 Ø150 L1=178 L1=178 L1=178	50 Ø150 L1=205 L1=236 L1=255	50 Ø150 L1=255	50 Ø150 L1=270
MODEL			CW 9500 CW 11800 KT 9500	GN 7500 CM 10000 CD 9600	<b>AG 7500</b>	CS 18300

**MOUNTING OPTIONS**

	<b>Drop-in</b> 	<b>Top Mount</b> 	<b>Base Mount</b> 	<b>Foot Mount</b> 	<b>Support Mount</b> 
<b>HOW TO ORDER</b>		<b>A14-150</b>  581 <b>A34-150</b>  583	<b>B16-150</b>  591 <b>B21-150</b>  591 <b>B76-150</b>  595	<b>C05-150</b>  597 <b>C20-150</b>  599	<b>D02-150</b>  601 <b>D67-150</b>  603

**PROTECTION OPTIONS**

Longer life to your gas springs by using protective solutions from harsh working environment (i.e. hot stamping), specially designed to minimize the impact of solid or liquid contaminants and extending the useful life of gas springs.

**PW Protective Wiper**



**HOW TO ORDER**

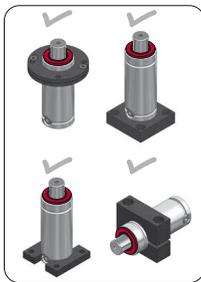
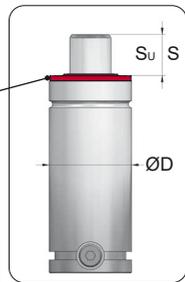
AG 7500 050      80      150

**AG 7500 050 + PW 080 150**

$\varnothing d$  mm       $\varnothing D$  mm



Protective Wiper



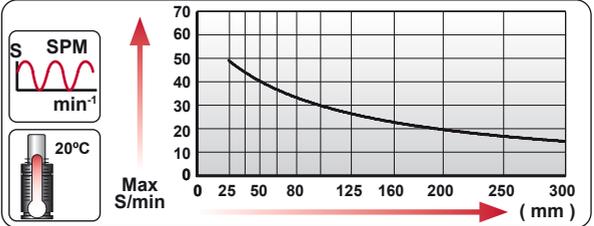
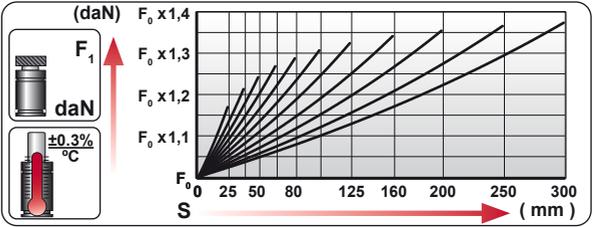
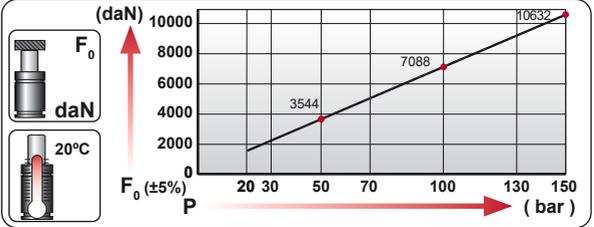
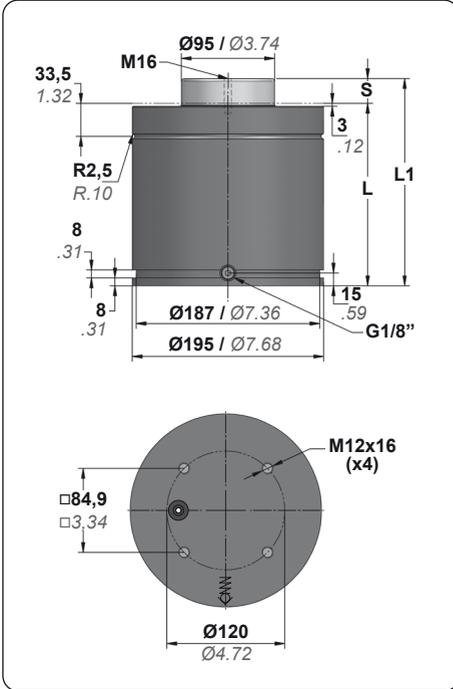
PW does not involve any variation of the dimensions of the gas spring. The useful stroke keeps the same as nominal stroke.

# AG 10000

150



	GM 90.25.00	RENAULT EM24.54.700
VW 39D 878		



**VDI SAFETY**

- Safety level >S
- Max speed >Vmax
- Max pressure >Pmax
- Flex Rod

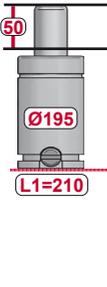
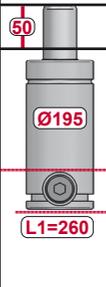
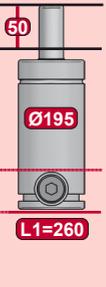
**STANDARDS**

- PED APPROVED
- VDI 3003
- ISO 91901
- NAAMS
- ONOMO EM.24.54

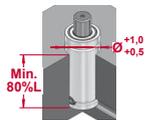
ORDER	S		L1 ±0.25		L		F <sub>0</sub> Initial Force		F <sub>1</sub> (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm <sup>3</sup>	in <sup>3</sup>	Kg.	lb
AG 10000 025	25	0.98	210	8.27	185	7.28	10280 ±5% 145 bar 2105 psi at 20°C 68°F	23110	12039	27064	1213	74.0	31.71	69.91
AG 10000 038	38	1.50	236	9.29	198	7.80			12486	28070	1524	93.0	33.04	72.84
AG 10000 050	50	1.97	260	10.24	210	8.27			12780	28730	1812	110.6	34.26	75.53
AG 10000 063	63.5	2.50	287	11.30	223.5	8.80			13026	29283	2135	130.3	35.64	78.57
AG 10000 080	80	3.15	320	12.60	240	9.45			13249	29785	2531	154.4	37.32	82.28
AG 10000 100	100	3.94	360	14.17	260	10.24			13447	30230	3010	183.7	39.36	86.77
AG 10000 125	125	4.92	410	16.14	285	11.22			13626	30632	3609	220.2	41.91	92.39
AG 10000 160	160	6.30	480	18.90	320	12.60			13799	31022	4447	271.4	45.48	100.27
AG 10000 200	200	7.87	560	22.05	360	14.17			13935	31327	5405	329.8	49.57	109.28
AG 10000 250	250	9.84	660	25.98	410	16.14			14051	31588	6603	402.9	54.67	120.53
AG 10000 300	300	11.81	760	29.92	460	18.11	14133	31771	7801	476.0	59.77	131.77		

**TECHNICAL DATA**

Fluid	N <sub>2</sub>	Pmin Pmax	20 bar / 290 psi	150 bar / 2175 psi	Charging Adapter	18 CG 1-Q
Smax	< 90%	Tmin Tmax	20°C / 68°F	80°C / 176°F	Connection	AG-H 10000 XXX
Vmax	2 m/s	Force variation by temperature	±0,3% / °C		Cartridge Kit	95G0Y950A

  								
	MODEL	CW 20000			CD 18500	AG 10000		

**MOUNTING OPTIONS**

	<p><b>Drop-in</b></p> 	<p><b>Top Mount</b></p> 	<p><b>Base Mount</b></p> 	<p><b>Foot Mount</b></p> 	<p><b>Support Mount</b></p> 
<p><b>HOW TO ORDER</b></p>		<p><b>A14-195</b>  581</p> <p><b>A34-195</b>  583</p>	<p><b>B21-195</b>  591</p> <p><b>B76-195</b>  595</p>	<p><b>C05-195</b>  597</p> <p><b>C20-195</b>  599</p>	<p><b>D02-195</b>  601</p>