



GAS SPRINGS



AZOL GAS



POWER SHORT STROKE CS

- The largest height size gas springs
- The highest contact force (420-18300 daN)
- Limited strokes (up to 65 mm)
- Bore sealed gas springs for extra heavy duty work



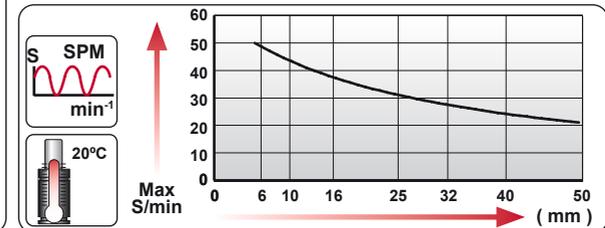
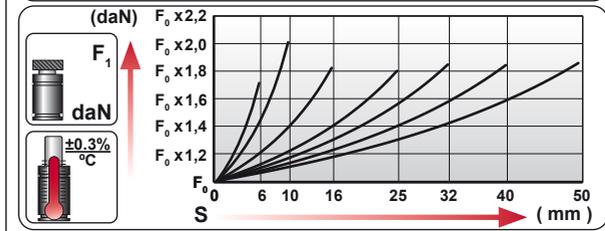
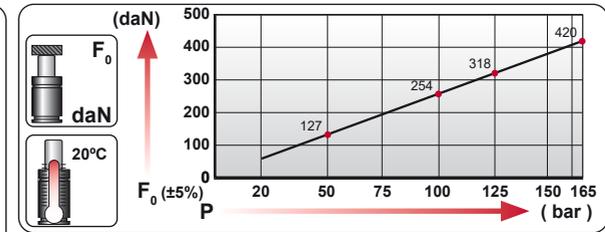
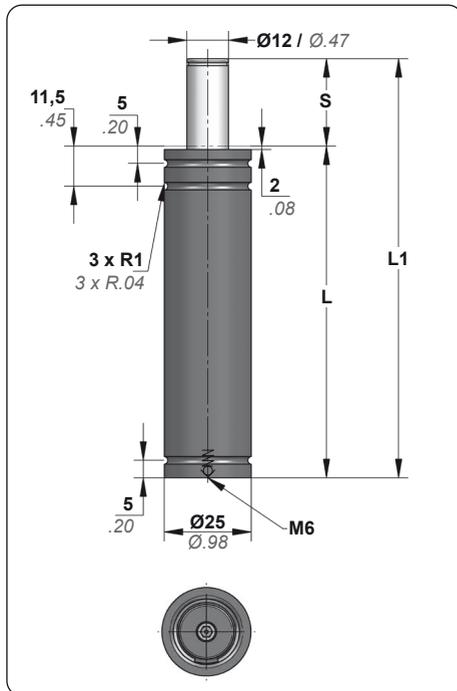
CS POWER SHORT STROKE

MODEL	F ₀ daN lb	Ø mm inch	S mm inch	L1 mm inch	Pmax bar psi	Charge Port		
CS 420 V1	420 944	Ø25 Ø0.98	6 - 50 0.24 - 1.97	56 - 195 2.20 - 7.68	165 2395	M6	X	✓
CS 770 V2	770 1731	Ø32 Ø1.26	6 - 50 0.24 - 1.97	63 - 195 2.48 - 7.68	150 2175	M6	X	✓
CS 1000 V1	1000 2248	Ø38 Ø1.50	6 - 50 0.24 - 1.97	61 - 230 2.40 - 9.06	150 2175	M6	X	✓
CS 1800 V2	1800 4047	Ø50 Ø1.97	6 - 65 0.24 - 2.56	66 - 271 2.60 - 10.67	150 2175	G1/8"	X	✓
CS 3000 V3	3000 6744	Ø63 Ø2.48	10 - 65 0.39 - 2.56	85 - 256 3.35 - 10.08	150 2175	G1/8"	X	✓
CS 4700 V1	4700 10566	Ø75 Ø2.95	10 - 65 0.39 - 2.56	80 - 273 3.15 - 10.75	150 2175	G1/8"	X	✓
CS 7500 V1	7500 16861	Ø95 Ø3.74	10 - 65 0.39 - 2.56	90 - 279 3.54 - 10.98	150 2175	G1/8"	X	✓
CS 11800 V1	11800 26527	Ø120 Ø4.72	10 - 65 0.39 - 2.56	100 - 320 3.94 - 12.60	150 2175	G1/8"	X	✓
CS 18300 V1	18300 41140	Ø150 Ø5.91	10 - 65 0.39 - 2.56	110 - 323 4.33 - 12.72	150 2175	G1/8"	X	✓

	50	50	50	50	50	50	50	50
	L1=138 L1=148 L1=152	L1=138 L1=150 L1=150	L1=170 L1=185 L1=195	L1=195	L1=165 L1=175	L1=220		
MODEL	X		X	CT 1000 CK 1000 FD 750	GN 750 CM 1000 CD 1000	AG 750	CPH 1700 CP 2000	CS 1800
SERIES	MINI	COMPACT HEIGHT	THREADED	LOW PROFILE	HEAVY DUTY	ISO	HEAVY LOAD	POWER SHORT STROKE

CS 420 V1

Power Short Stroke



VDI SAFETY

STANDARS

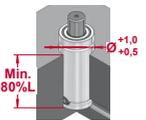
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS 420 006 V1	6	0.24	56	2.20	50	1.97	420 ±5% 165 bar 2395 psi at 20°C 68°F	944	749	1683	3	0.2	0.14	0.31
CS 420 010 V1	10	0.39	70	2.76	60	2.36			878	1973	5	0.3	0.16	0.35
CS 420 016 V1	16	0.63	91	3.58	75	2.95			781	1755	9	0.5	0.20	0.44
CS 420 025 V1	25	0.98	120	4.72	95	3.74			766	1722	14	0.9	0.24	0.53
CS 420 032 V1	32	1.26	140	5.51	108	4.25			785	1764	18	1.1	0.27	0.60
CS 420 040 V1	40	1.57	165	6.50	125	4.92			781	1757	22	1.3	0.31	0.68
CS 420 050 V1	50	1.97	195	7.68	145	5.71			787	1769	27	1.7	0.35	0.77

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar 165 bar 290 psi 2395 psi	20°C / 68°F	Charging Adapter	06 CG 2-Q
Smax	< 90%	Tmin Tmax	0°C 80°C 32°F 176°F	Connection	X	
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C	Seal Kit	S-XXXXXXX	

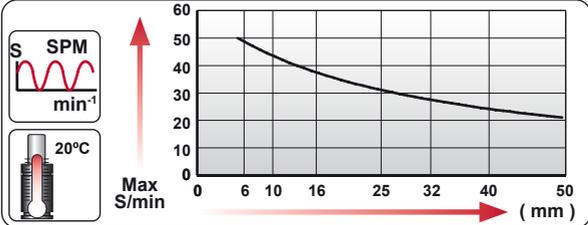
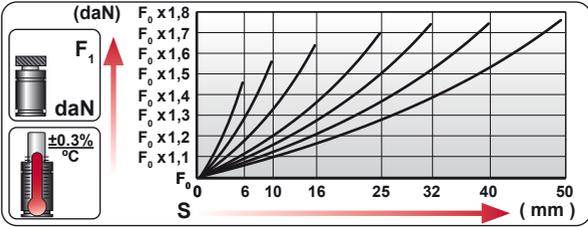
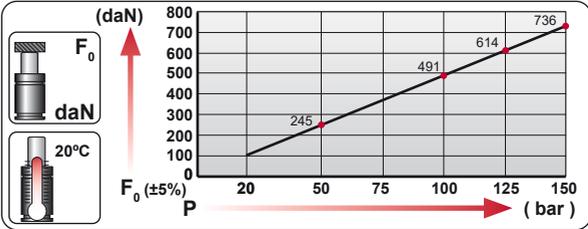
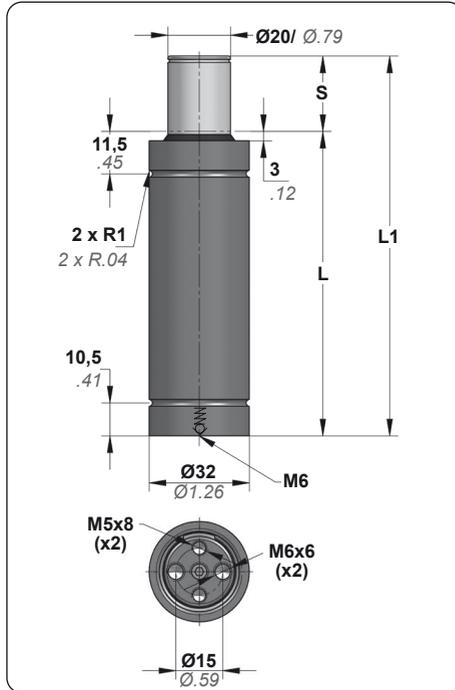
								
								
	L1=142 L1=145 L1=154		L1=132 L1=133	L1=160		L1=160	L1=195	
MODEL	AFC/AFD AFNA AF	CW 320	CK 200 CT 200	CM 200		CP 300	CS 420	

MOUNTING OPTIONS

	Drop-in 	Top Mount 	Base Mount 	Foot Mount 	Support Mount 
HOW TO ORDER		A44-025  584			

CS 770 V2

Power Short Stroke



VDI SAFETY

STANDARS



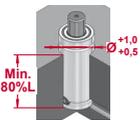
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS 770 006 V2	6	0.24	63	2.48	57	2.24	735 ±5% 150 bar 2175 psi at 20°C 68°F	1652	1071	2408	9	0.6	0.25	0.55
CS 770 010 V2	10	0.39	75	2.95	65	2.56			1146	2576	14	0.8	0.28	0.62
CS 770 016 V2	16	0.63	93	3.66	77	3.03			1204	2707	20	1.2	0.32	0.71
CS 770 025 V2	25	0.98	120	4.72	95	3.74			1248	2806	30	1.8	0.38	0.84
CS 770 032 V2	32	1.26	140	5.51	108	4.25			1280	2878	37	2.3	0.42	0.93
CS 770 040 V2	40	1.57	165	6.50	125	4.92			1282	2883	46	2.8	0.48	1.06
CS 770 050 V2	50	1.97	195	7.68	145	5.71	1295	2911	57	3.5	0.55	1.21		

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar 290 psi	150 bar 2175 psi	Charging Adapter	06 GA 13
Smax	< 90%	Tmin Tmax	20°C 32°F	80°C 176°F	Connection	X
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX

								
50	50			50	50	50	50	50
								
	Ø32			Ø32	Ø32	Ø32	Ø32	Ø32
	L1=142	L1=130 L1=140		L1=137 L1=139	L1=150 L1=150 L1=160	L1=150	L1=155	L1=195
MODEL	AFT	CW 350 KZ 350		CT 300 CK 300	CM 350 CD 300 CM 300	AG 150	CP 500	CS 770

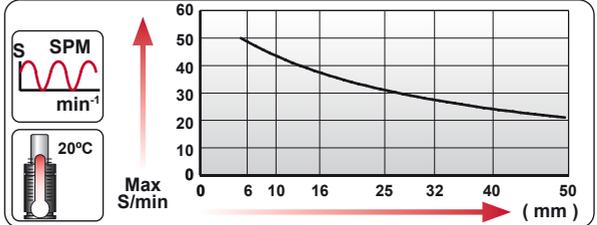
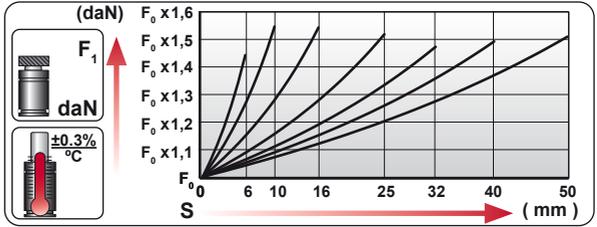
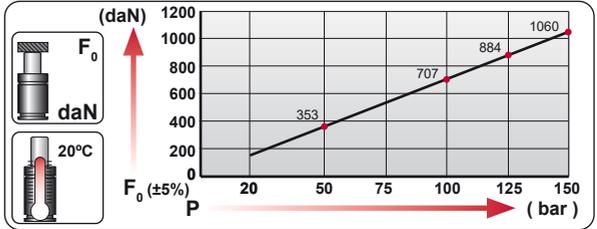
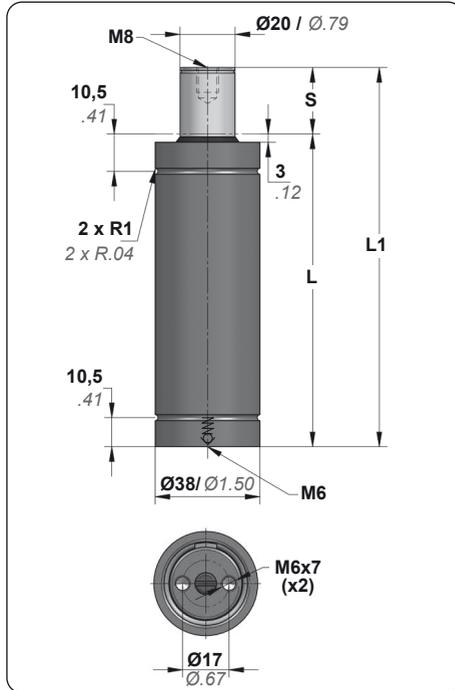
MOUNTING OPTIONS

	Drop-in 	Top Mount 	Base Mount 	Foot Mount 	Support Mount 
HOW TO ORDER		A34-032  582			

CS 1000 V1

Power Short Stroke

BMW B2 4006	PSA	E24.54.815.G



VDI SAFETY

STANDARS

ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS 1000 006 V1	6	0.24	61	2.40	55	2.17	1060 ±5% 150 bar 2175 psi at 20°C 68°F	2383	1810	4068	10	0.6	0.36	0.79
CS 1000 010 V1	10	0.39	78	3.07	68	2.68			1641	3690	20	1.2	0.41	0.90
CS 1000 016 V1	16	0.63	100	3.94	84	3.31			1638	3682	32	2.0	0.47	1.04
CS 1000 025 V1	25	0.98	135	5.31	110	4.33			1611	3623	52	3.2	0.57	1.26
CS 1000 032 V1	32	1.26	167	6.57	135	5.31			1564	3515	70	4.3	0.66	1.46
CS 1000 040 V1	40	1.57	195	7.68	155	6.10			1584	3562	85	5.2	0.74	1.63
CS 1000 050 V1	50	1.97	230	9.06	180	7.09			1602	3602	104	6.4	0.84	1.85

TECHNICAL DATA														
Fluid	N ₂		Pmin Pmax	20 bar 150 bar		290 psi 2175 psi		Charging Adapter		06 CG 2-Q				
Sm _{ax}	< 90%		Tmin Tmax	20°C / 68°F		0°C 80°C		Connection		X				
V _{max}	0,5 m/s		Force variation by temperature	±0,3% / °C		32°F 176°F		Seal Kit		S-XXXXXXX				

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

MOUNTING OPTIONS					
	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
HOW TO ORDER		A34-038		A19-038	

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.

PC Protective Cover

HOW TO ORDER

CS 1000 050 V1 **20** **38** **50**

CS 1000 050 V1 + PC 020 038 050

Protective Cover

Su S

$\text{ØD}+4$

ØD

The body diameter (ØD) increases to the size of (ØPC).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile

HOW TO ORDER

CS 1000 050 V1 **20** **38** **50**

CS 1000 050 V1 + PT 020 038 050

Protective Textile

Su S

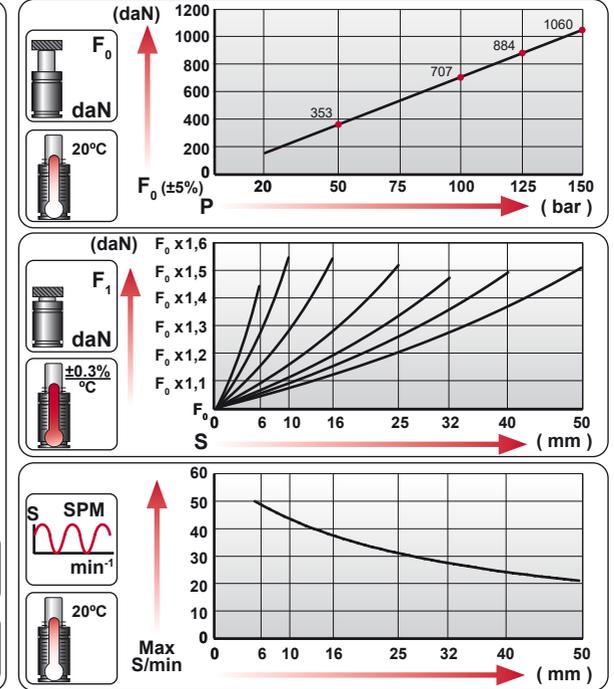
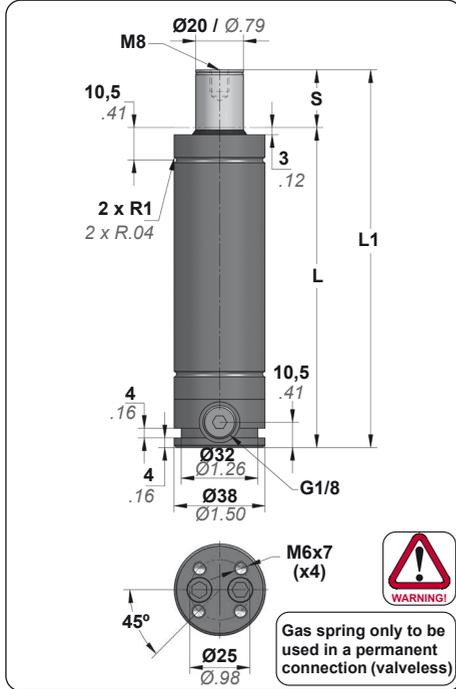
$\text{ØD}+1$

ØD

The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.

CS-KC 1000 V2

Power Short Stroke



VDI SAFETY

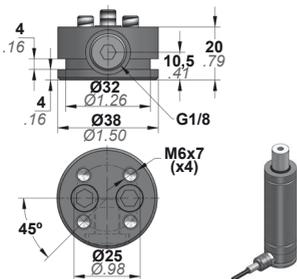
STANDARS

ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KC 1000 006 V2	6	0.24	81	3.19	75	2.95	1060 ±5% 150 bar 2175 psi at 20°C 68°F	2383	1810	4068	10	0.6	0.51	1.12
CS-KC 1000 010 V2	10	0.39	98	3.86	88	3.46			1641	3690	20	1.2	0.56	1.23
CS-KC 1000 016 V2	16	0.63	120	4.72	104	4.09			1638	3682	32	2.0	0.62	1.37
CS-KC 1000 025 V2	25	0.98	155	6.10	130	5.12			1611	3623	52	3.2	0.72	1.59
CS-KC 1000 032 V2	32	1.26	187	7.36	155	6.10			1564	3515	70	4.3	0.81	1.79
CS-KC 1000 040 V2	40	1.57	215	8.46	175	6.89			1584	3562	85	5.2	0.89	1.96
CS-KC 1000 050 V2	50	1.97	250	9.84	200	7.87			1602	3602	104	6.4	0.99	2.18

TECHNICAL DATA															
	Fluid	N ₂		Pmin Pmax	20 bar 290 psi	150 bar 2175 psi		Tmin Tmax	0 °C 32 °F	80 °C 176 °F		Charging Adapter	SKK 12R 1/8		
	Smax	< 90%		Force variation by temperature	±0,3% / °C			Connection	CS-KC 1000 XXX V2				Seal Kit	S-XXXXXXX	
	Vmax	0,5 m/s													

BASE PLATE OPTION

KC 1000



DIN 912 - 12.9	Torque
Thread	Nm
M6	15
M8	38
M10	75

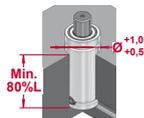
Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate has no filling valve, when fitted to a gas spring CS (CS-KC) it only can be pressurised through a hoses system. CS-KC is delivered uncharged.

MOUNTING OPTIONS



Drop-in



Top Mount



Base Mount



Foot Mount



Support Mount



HOW TO ORDER

C20-038 598

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.

PC Protective Cover



HOW TO ORDER

CS-KC 1000 050 V2

20

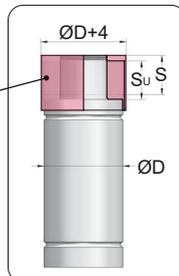
38

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CS-KC 1000 050 V2 + PC 020 038 050



Protective Cover



The body diameter (ØD) increases to the size of (ØPC). PC can be used with mounts C, but not with mounts type A.

PT Protective Textile



HOW TO ORDER

CS-KC 1000 050 V2

20

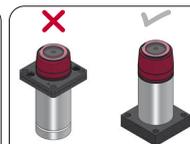
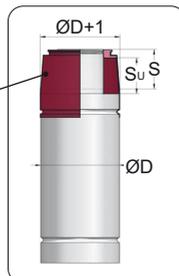
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CS-KC 1000 050 V2 + PT 020 038 050



Protective Textile

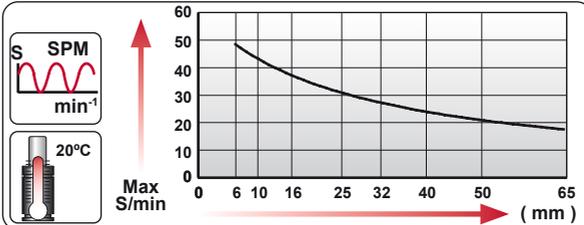
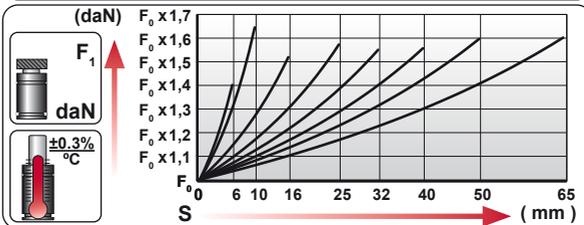
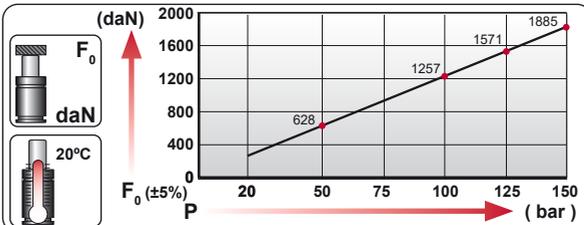
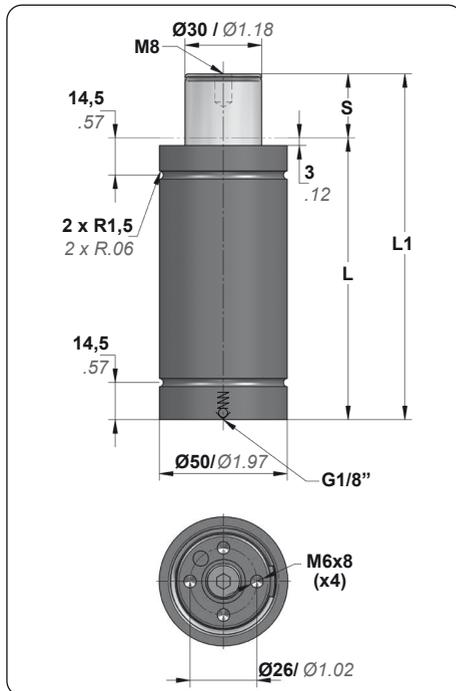


The body diameter (ØD) increases to the size of (ØPT). PT can be used with mounts C, but not with mounts type A.

CS 1800 V2

Power Short Stroke

BMW B2 4006	PSA	E24.54.815.G



VDI SAFETY



STANDARS



ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS 1800 006 V2	6	0.24	66	2.60	60	2.36	1885 4238 ±5% 150 bar 2175 psi at 20°C 68°F	4238	3047	6849	20	1.2	0.69	1.52
CS 1800 010 V2	10	0.39	80	3.15	70	2.76			3024	6799	33	2.0	0.75	1.65
CS 1800 016 V2	16	0.63	106	4.17	90	3.54			2835	6372	60	3.7	0.89	1.96
CS 1800 025 V2	25	0.98	135	5.31	110	4.33			2942	6614	87	5.3	1.03	2.27
CS 1800 032 V2	32	1.26	162	6.38	130	5.12			2907	6536	114	7.0	1.17	2.58
CS 1800 040 V2	40	1.57	190	7.48	150	5.91			2923	6572	142	8.6	1.31	2.89
CS 1800 050 V2	50	1.97	220	8.66	170	6.69			2998	6741	169	10.3	1.45	3.20
CS 1800 065 V2	65	2.56	271	10.67	206	8.11			3012	6772	218	13.3	1.70	3.75

TECHNICAL DATA

Fluid	N ₂	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	X
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX



CS 1800 V2
Power Short Stroke

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

MOUNTING OPTIONS					
	Drop-in 	Top Mount 	Base Mount 	Foot Mount 	Support Mount
HOW TO ORDER		A59-050		A54-050	

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.

PC Protective Cover

HOW TO ORDER

CS 1800 050 V2 30 50 50

CS 1800 050 V2 + PC 030 050 050

Protective Cover

The body diameter (ØD) increases to the size of (ØPC).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile

HOW TO ORDER

CS 1800 050 V2 30 50 50

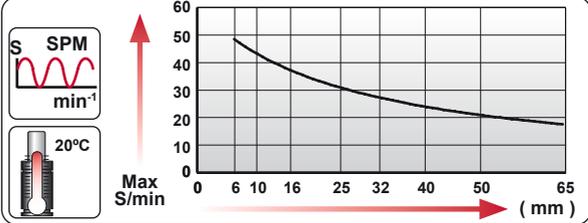
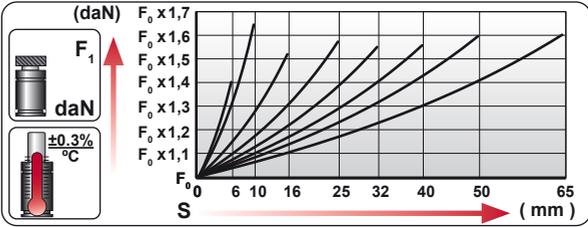
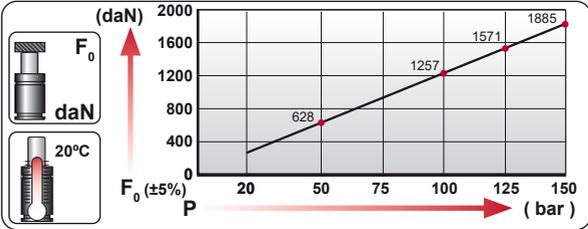
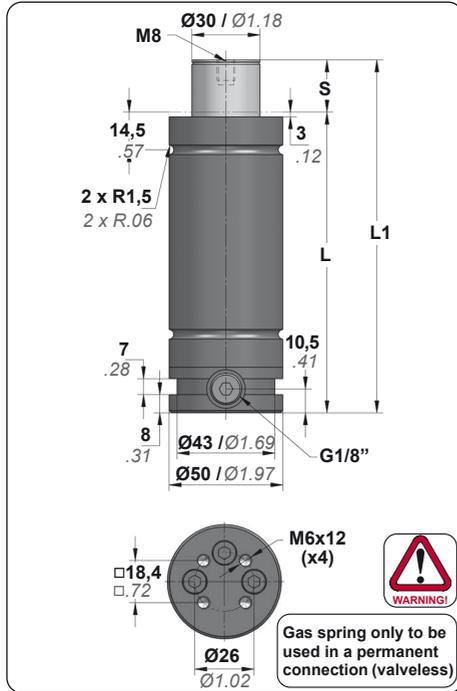
CS 1800 050 V2 + PT 030 050 050

Protective Textile

The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.

CS-KC 1800 V2

Power Short Stroke



VDI SAFETY



STANDARS



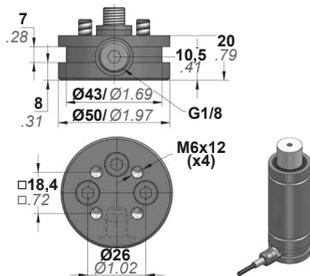
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Kg. lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KC 1800 006 V2	6	0.24	86	3.39	80	3.15	1885 4238 ±5% 150 bar 2175 psi at 20°C 68°F	4238	3047	6850	20	1.2	0.94	2.07
CS-KC 1800 010 V2	10	0.39	100	3.94	90	3.54			3024	6798	33	2.0	1.01	2.23
CS-KC 1800 016 V2	16	0.63	126	4.96	110	4.33			2835	6373	60	3.7	1.14	2.51
CS-KC 1800 025 V2	25	0.98	155	6.10	130	5.12			2942	6614	87	5.3	1.28	2.82
CS-KC 1800 032 V2	32	1.26	182	7.17	150	5.91			2907	6535	114	7.0	1.42	3.13
CS-KC 1800 040 V2	40	1.57	210	8.27	170	6.69			2923	6571	142	8.7	1.56	3.44
CS-KC 1800 050 V2	50	1.97	240	9.45	190	7.48			2998	6740	169	10.3	1.70	3.75
CS-KC 1800 065 V2	65	2.56	291	11.46	226	8.90			3012	6771	218	13.3	1.96	4.32

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar 150 bar 290 psi 2175 psi	20°C / 68°F	Charging Adapter	SKK 12R 1/8
Smax	< 90%	Tmin Tmax	0 °C 80 °C 32 °F 176 °F	Connection	CS-KC 1800 XXX V2	
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C	Seal Kit	S-XXXXXXX	

BASE PLATE OPTION

KC 1800



DIN 912 - 12.9	Torque
Thread	Nm
M6	15
M8	38
M10	75

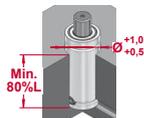
Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate has no filling valve, when fitted to a gas spring CS (CS-KC) it only can be pressurised through a hoses system. CS-KC is delivered uncharged.

MOUNTING OPTIONS



Drop-in



Top Mount



Base Mount



Foot Mount



Support Mount



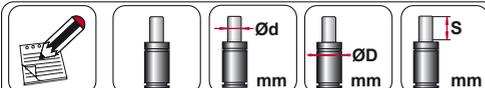
HOW TO ORDER

C20-050 598

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.

PC Protective Cover

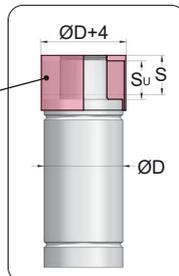


HOW TO ORDER

CS-KC 1800 050 V2 30 50 50
CS-KC 1800 050 V2 + PC 030 050 050

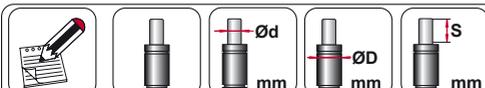


Protective Cover



The body diameter (ØD) increases to the size of (ØPC). PC can be used with mounts C, but not with mounts type A.

PT Protective Textile

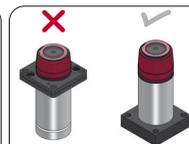
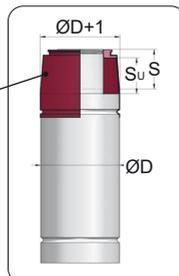


HOW TO ORDER

CS-KC 1800 050 V2 30 50 50
CS-KC 1800 050 V2 + PT 030 050 050



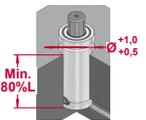
Protective Textile



The body diameter (ØD) increases to the size of (ØPT). PT can be used with mounts C, but not with mounts type A.

							
MODEL	CW 1500 KZ/KT 1500 CWC 1500	CT 1500 CK 1500	CM 1500 CD 1500	CPH 2800 CP 3000	CS 3000		

MOUNTING OPTIONS

	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
					
HOW TO ORDER		A39-063  A69-063 			

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.

PC Protective Cover



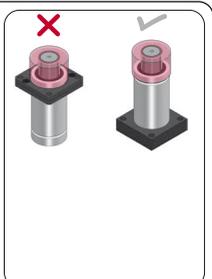
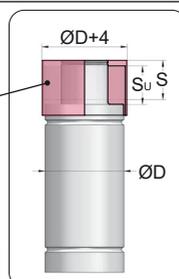
HOW TO ORDER

CS 3000 050 V3 36 63 50

CS 3000 050 V3 + PC 036 063 050



Protective Cover



The body diameter (ØD) increases to the size of (ØPC).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile



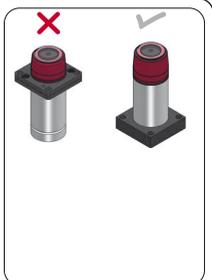
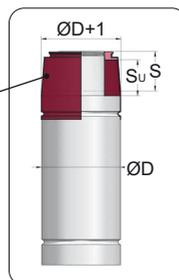
HOW TO ORDER

CS 3000 050 V3 36 63 50

CS 3000 050 V3 + PT 036 063 050



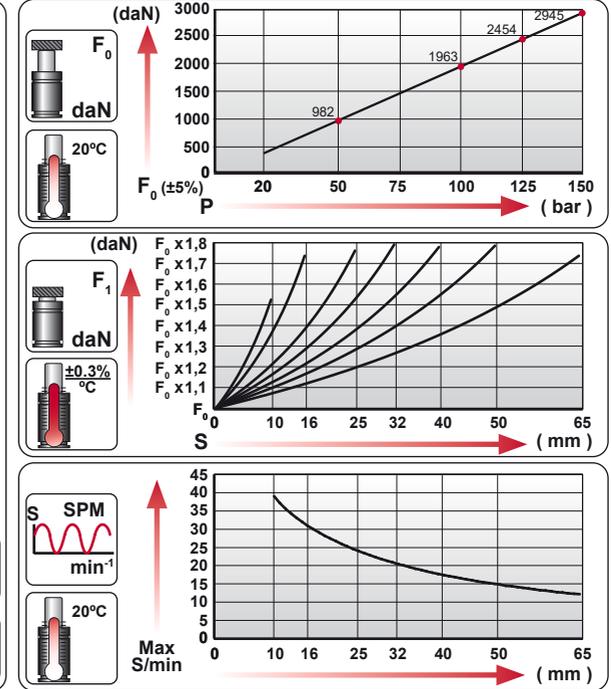
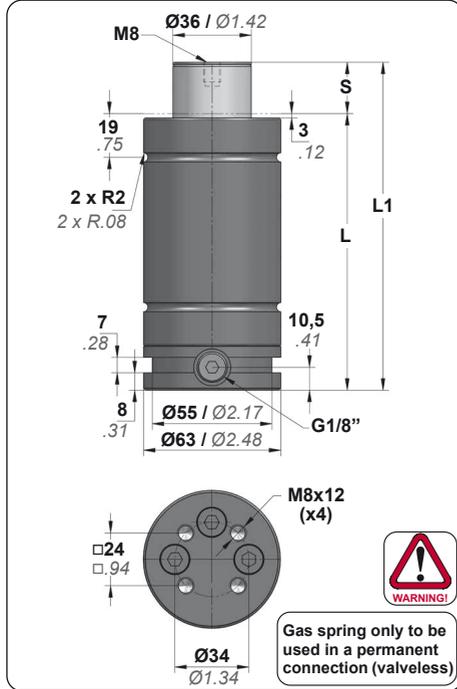
Protective Textile



The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.

CS-KC 3000 V3

Power Short Stroke



VDI SAFETY

STANDARS

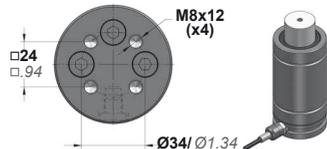
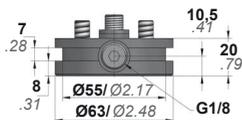
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KC 3000 010 V3	10	0.39	105	4.13	95	3.74	2945 ±5% 150 bar 2175 psi at 20°C 68°F	6621	5009	11261	48	2.9	1.76	3.88
CS-KC 3000 016 V3	16	0.63	123	4.84	107	4.21			5121	11512	74	4.5	1.89	4.17
CS-KC 3000 025 V3	25	0.98	150	5.91	125	4.92			5195	11679	113	6.9	2.10	4.63
CS-KC 3000 032 V3	32	1.26	170	6.69	138	5.43			5281	11872	142	8.7	2.24	4.94
CS-KC 3000 040 V3	40	1.57	195	7.68	155	6.10			5247	11796	179	10.9	2.43	5.36
CS-KC 3000 050 V3	50	1.97	225	8.86	175	6.89			5264	11834	223	13.6	2.66	5.86
CS-KC 3000 065 V3	65	2.56	276	10.87	211	8.31	5122	11515	300	18.3	3.05	6.72		

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20°C / 68°F	20 bar	150 bar	Charging Adapter	SKK 12R 1/8
Smax	< 90%	Tmin Tmax	0°C / 32°F	290 psi	2175 psi	Connection	CS-KC 3000 XXX V3
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C	0°C	80°C	Seal Kit	S-XXXXXXX

BASE PLATE OPTION

KC 3000



DIN 912 - 12.9	Torque
Thread	Nm
M6	15
M8	38
M10	75

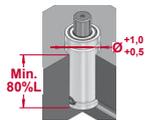
Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate has no filling valve, when fitted to a gas spring CS (CS-KC) it only can be pressurised through a hoses system. CS-KC is delivered uncharged.

MOUNTING OPTIONS



Drop-in



Top Mount



Base Mount



Foot Mount



Support Mount



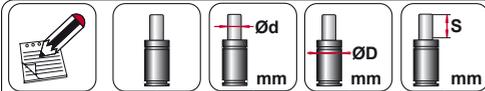
HOW TO ORDER

C35-063 599

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.

PC Protective Cover



HOW TO ORDER

CS-KC 3000 050 V3

36

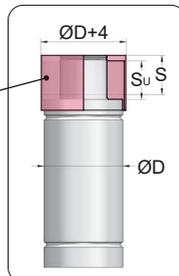
63

50

CS-KC 3000 050 V3 + PC 036 063 050

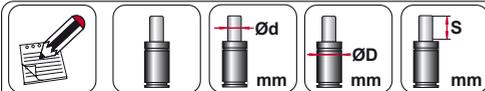


Protective Cover



The body diameter (ØD) increases to the size of (ØPC). PC can be used with mounts C, but not with mounts type A.

PT Protective Textile



HOW TO ORDER

CS-KC 3000 050 V3

36

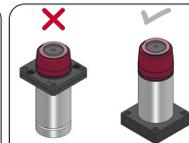
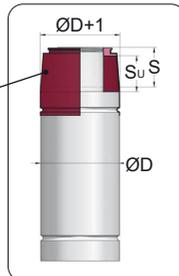
63

50

CS-KC 3000 050 V3 + PT 036 063 050



Protective Textile

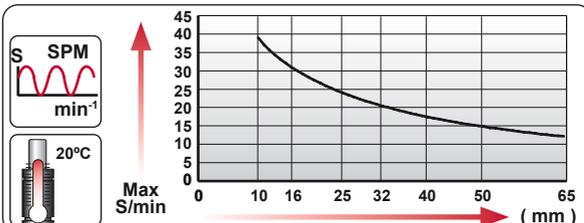
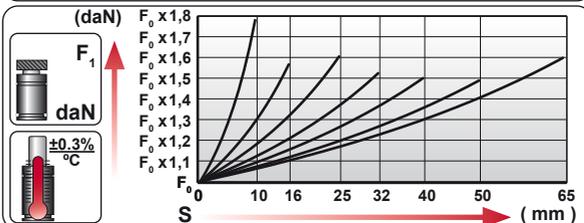
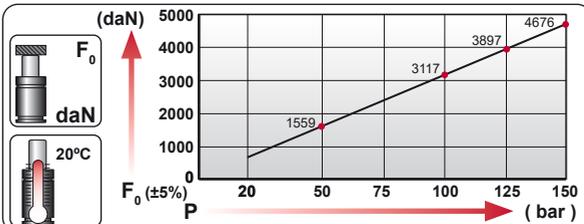
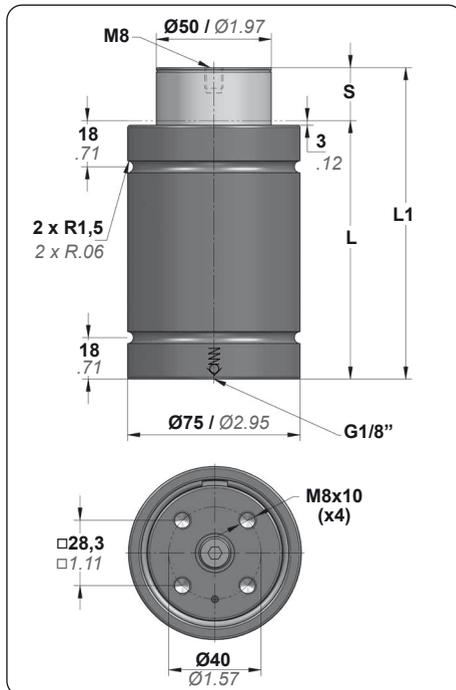


The body diameter (ØD) increases to the size of (ØPT). PT can be used with mounts C, but not with mounts type A.

CS 4700 V1

Power Short Stroke

BMW B2 4006	PSA	E24.54.815.G



VDI SAFETY



STANDARS



ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Kg. lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³		
CS 4700 010 V1	10	0.39	80	3.15	70	2.76	4675 ±5% 150 bar 2175 psi at 20°C 68°F	10510	8374	18826	71	4.3	1.74	3.84
CS 4700 016 V1	16	0.63	106	4.17	90	3.54			7347	16516	137	8.4	2.00	4.41
CS 4700 025 V1	25	0.98	135	5.31	110	4.33			7523	16912	206	12.6	2.30	5.07
CS 4700 032 V1	32	1.26	167	6.57	135	5.31			7143	16057	289	17.6	2.62	5.78
CS 4700 040 V1	40	1.57	200	7.87	160	6.30			7029	15802	372	22.7	2.95	6.50
CS 4700 050 V1	50	1.97	240	9.45	190	7.48			6973	15676	473	28.9	3.36	7.41
CS 4700 065 V1	65	2.56	273	10.75	208	8.19			7486	16829	540	32.9	3.69	8.13

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar / 290 psi	150 bar / 2175 psi	Charging Adapter	18 CG 1-Q
Sm _{max}	< 90%	Tmin Tmax	0 °C / 32 °F	80 °C / 176 °F	Connection	X
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX



CS 4700 V1

Power Short Stroke

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		A59-075		A54-075	

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.

PC Protective Cover

HOW TO ORDER

CS 4700 050 V1 50 75 50

CS 4700 050 V1 + PC 050 075 050

Protective Cover

The body diameter ($\varnothing D$) increases to the size of ($\varnothing PC$).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile

HOW TO ORDER

CS 4700 050 V1 50 75 50

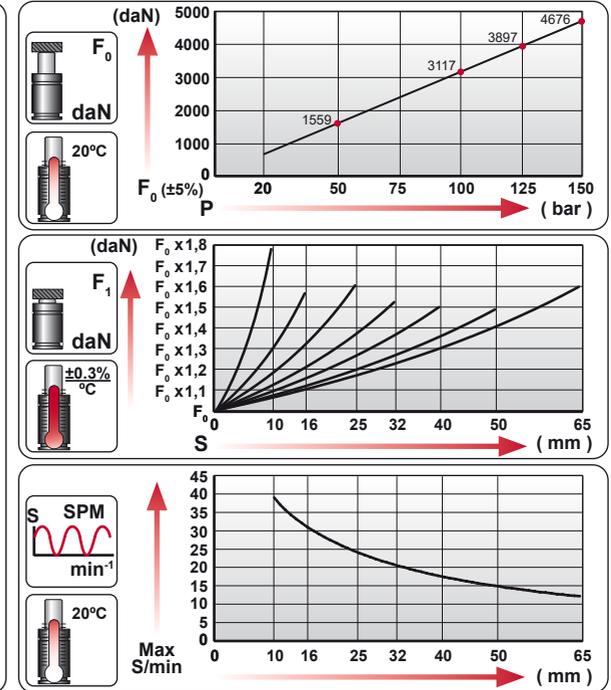
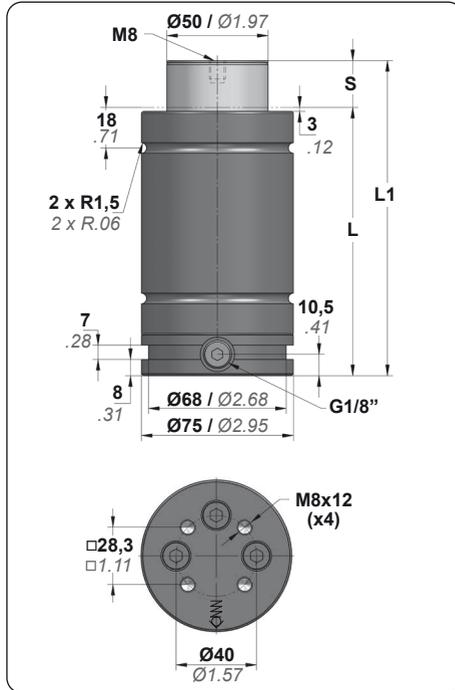
CS 4700 050 V1 + PT 050 075 050

Protective Textile

The body diameter ($\varnothing D$) increases to the size of ($\varnothing PT$).
PT can be used with mounts C, but not with mounts type A.

CS-KV 4700 V1

Power Short Stroke



VDI SAFETY



STANDARS



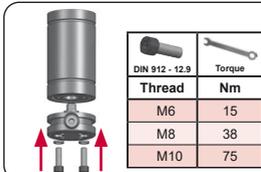
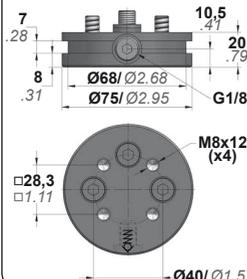
ORDER	S		L1 ± 0.25		L		F_0 Initial Force		F_1 (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KV 4700 010 V1	10	0.39	100	3.94	90	3.54	4675	10510	8374	18826	71	4.3	2.35	5.18
CS-KV 4700 016 V1	16	0.63	126	4.96	110	4.33			7347	16517	137	8.4	2.61	5.75
CS-KV 4700 025 V1	25	0.98	155	6.10	130	5.12			7523	16912	206	12.6	2.91	6.42
CS-KV 4700 032 V1	32	1.26	187	7.36	155	6.10			7143	16058	289	17.6	3.23	7.12
CS-KV 4700 040 V1	40	1.57	220	8.66	180	7.09			7029	15802	372	22.7	3.56	7.85
CS-KV 4700 050 V1	50	1.97	260	10.24	210	8.27			6973	15676	473	28.9	3.97	8.75
CS-KV 4700 065 V1	65	2.56	293	11.54	228	8.98			7486	16829	540	33.0	4.30	9.48

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar 290 psi	150 bar 2175 psi	Charging Adapter	18 CG 1-Q
Smax	< 90%	Tmin Tmax	0 °C 32 °F	80 °C 176 °F	Connection	CS-KV-H 4700 XXX V1
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX

BASE PLATE OPTION

KV 4700



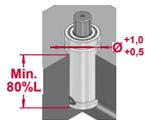
Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate can be equipped with filling valve, when fitted to a gas spring CS (CS-KV) remove the filling valve from the gas spring. If order CS-KV as a self-contained it is delivered charged (with filling valve). If order CS-KV-H as ready to be hosed it is delivered unfilled (without filling valve).

MOUNTING OPTIONS



Drop-in



Top Mount



Base Mount



Foot Mount



Support Mount



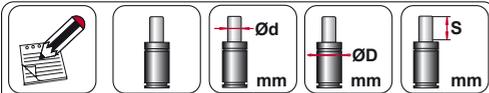
HOW TO ORDER

C20-075 598

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.

PC Protective Cover



HOW TO ORDER

CS-KV 4700 050 V1

50

75

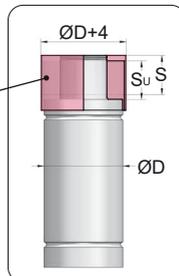
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CS-KV 4700 050 V1 + PC 050 075 050

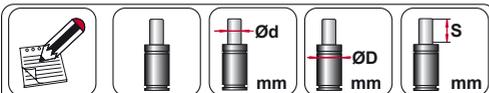
The body diameter (ØD) increases to the size of (ØPC). PC can be used with mounts C, but not with mounts type A.



Protective Cover



PT Protective Textile



HOW TO ORDER

CS-KV 4700 050 V1

50

75

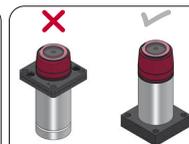
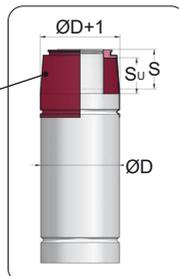
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CS-KV 4700 050 V1 + PT 050 075 050

The body diameter (ØD) increases to the size of (ØPT). PT can be used with mounts C, but not with mounts type A.



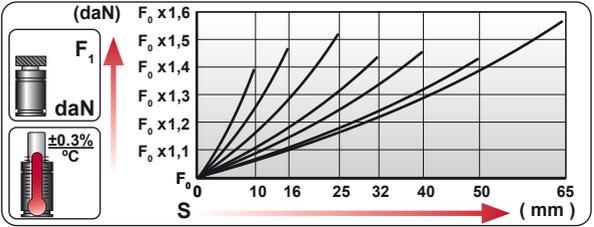
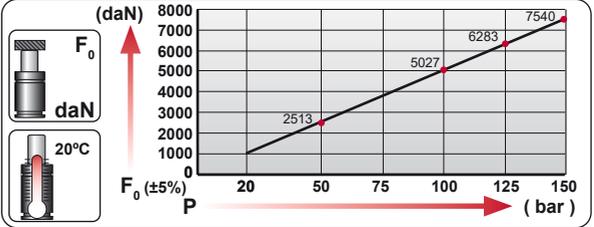
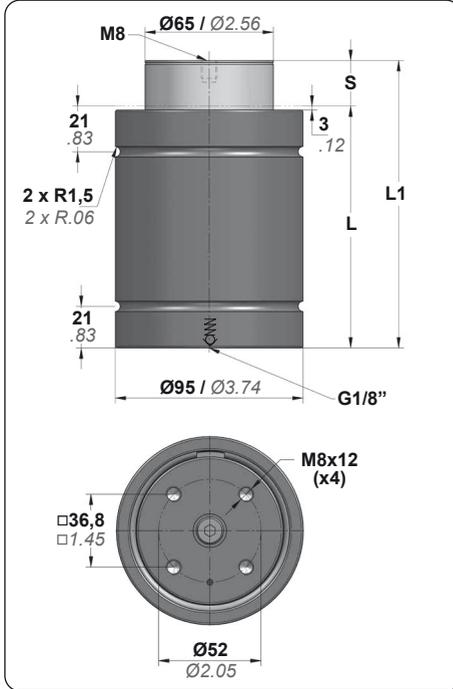
Protective Textile



CS 7500 V1

Power Short Stroke

BMW B2 4006	PSA	E24.54.815.G



VDI SAFETY



STANDARS



ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Kg. / lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³		
CS 7500 010 V1	10	0.39	90	3.54	80	3.15	7540 ±5% 150 bar 2175 psi at 20°C 68°F	16951	11653	26197	142	8.7	3.21	7.08
CS 7500 016 V1	16	0.63	116	4.57	100	3.94			11064	24874	252	15.4	3.61	7.96
CS 7500 025 V1	25	0.98	145	5.71	120	4.72			11461	25765	367	22.4	4.06	8.95
CS 7500 032 V1	32	1.26	182	7.17	150	5.91			10832	24351	529	32.3	4.64	10.23
CS 7500 040 V1	40	1.57	210	8.27	170	6.69			10974	24671	643	39.2	5.07	11.18
CS 7500 050 V1	50	1.97	255	10.04	205	8.07			10790	24258	834	50.9	5.77	12.72
CS 7500 065 V1	65	2.56	279	10.98	214	8.43			11812	26554	903	55.1	6.12	13.49

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar / 290 psi	150 bar / 2175 psi	Charging Adapter	18 CG 1-Q
Smax	< 90%	Tmin Tmax	0 °C / 32 °F	80 °C / 176 °F	Connection	X
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX



CS 7500 V1

Power Short Stroke

MODEL	CW 4200 KZ 4200 KT 4200		CK 4000 FD 3000	GN 3000 CM 4000 CD 4200	AG 3000	CP 8000	CS 7500

MOUNTING OPTIONS					
	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
HOW TO ORDER		A59-095		A54-095	

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.

PC Protective Cover

HOW TO ORDER
 CS 7500 050 V1 65 95 50
CS 7500 050 V1 + PC 065 095 050

Protective Cover

The body diameter (ØD) increases to the size of (ØPC).
 PC can be used with mounts C, but not with mounts type A.

PT Protective Textile

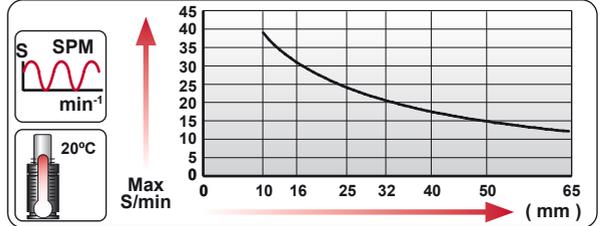
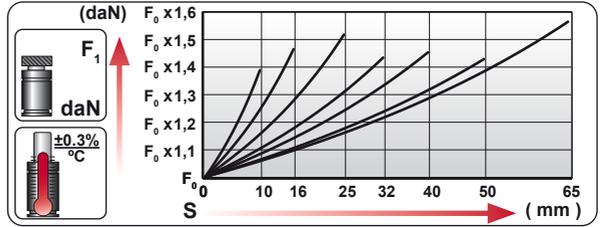
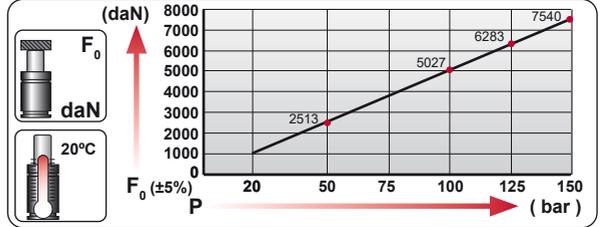
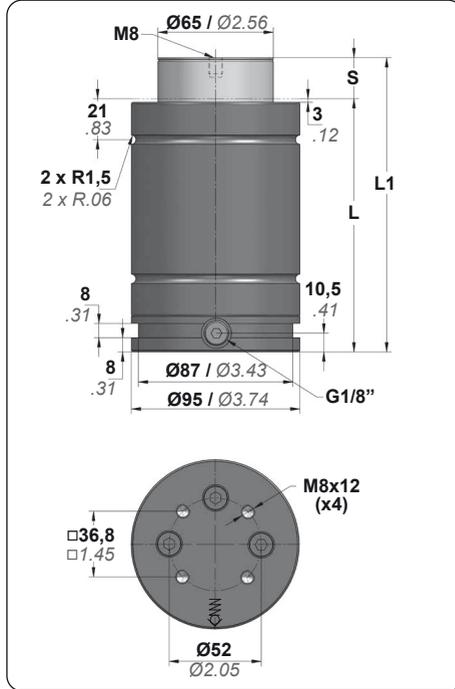
HOW TO ORDER
 CS 7500 050 V1 65 95 50
CS 7500 050 V1 + PT 065 095 050

Protective Textile

The body diameter (ØD) increases to the size of (ØPT).
 PT can be used with mounts C, but not with mounts type A.

CS-KV 7500 V1

Power Short Stroke



VDI SAFETY



STANDARS



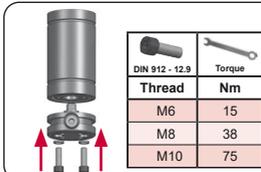
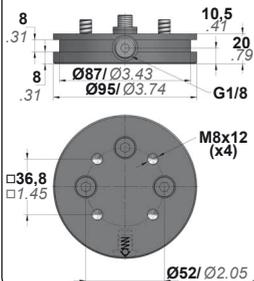
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Kg. lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KV 7500 010 V1	10	0.39	110	4.33	100	3.94	7540 ±5% 150 bar 2175 psi at 20°C 68°F	16951	11653	26197	142	8.7	4.21	9.28
CS-KV 7500 016 V1	16	0.63	136	5.35	120	4.72			11064	24873	252	15.4	4.62	10.19
CS-KV 7500 025 V1	25	0.98	165	6.50	140	5.51			11461	25765	367	22.4	5.06	11.16
CS-KV 7500 032 V1	32	1.26	202	7.95	170	6.69			10832	24351	529	32.3	5.64	12.43
CS-KV 7500 040 V1	40	1.57	230	9.06	190	7.48			10974	24671	643	39.2	6.07	13.38
CS-KV 7500 050 V1	50	1.97	275	10.83	225	8.86			10790	24257	834	50.9	6.78	14.95
CS-KV 7500 065 V1	65	2.56	299	11.77	234	9.21			11812	26554	903	55.1	7.12	15.70

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar / 290 psi	150 bar / 2175 psi	Charging Adapter	18 CG 1-Q
Smax	< 90%	Tmin Tmax	0 °C / 32 °F	80 °C / 176 °F	Connection	CS-KV-H 7500 XXX V1
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX

BASE PLATE OPTION

KV 7500



Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate can be equipped with filling valve, when fitted to a gas spring CS (CS-KV) remove the filling valve from the gas spring.

If order CS-KV as a self-contained it is delivered charged (with filling valve).

If order CS-KV-H as ready to be hosed it is delivered unfilled (without filling valve).

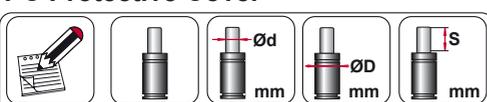
MOUNTING OPTIONS

	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
HOW TO ORDER				C20-095	

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.

PC Protective Cover



HOW TO ORDER

CS-KV 7500 050 V1

65

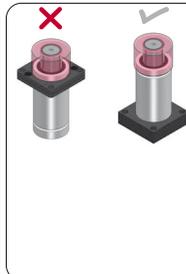
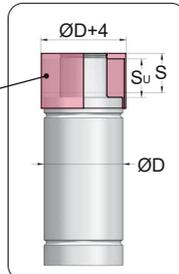
95

50

CS-KV 7500 050 V1 + PC 065 095 050

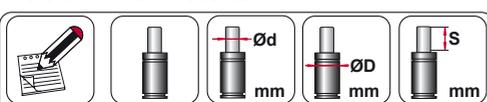


Protective Cover



The body diameter (ØD) increases to the size of (ØPC).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile



HOW TO ORDER

CS-KV 7500 050 V1

65

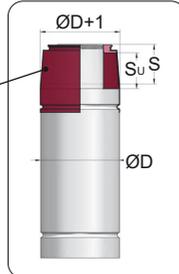
95

50

CS-KV 7500 050 V1 + PT 065 095 050



Protective Textile

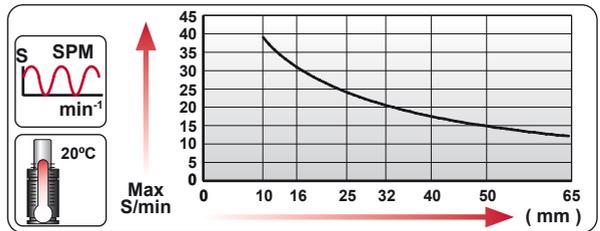
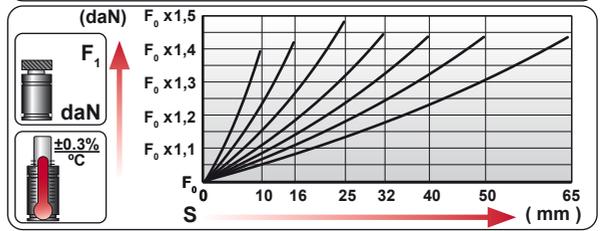
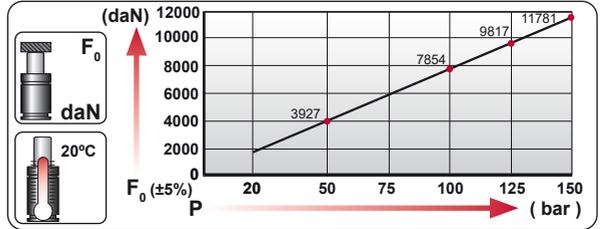
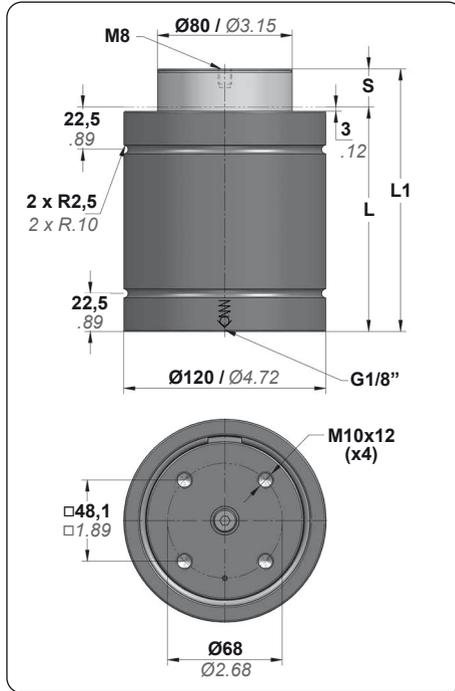


The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.

CS 11800 V1

Power Short Stroke

BMW B2 4006		
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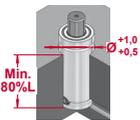
VDI SAFETY

STANDARS

ORDER	S		L1 ± 0.25		L		F_0 Initial Force		F_1 (ISOTHERMAL) End Force		Vol.		Kg. lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS 11800 010 V1	10	0.39	100	3.94	90	3.54	11780 26482 $\pm 5\%$ 150 bar 2175 psi at 20°C 68°F	26482	17105	38454	252	15.4	5.79	12.76
CS 11800 016 V1	16	0.63	126	4.96	110	4.33			16748	37652	424	25.9	6.46	14.24
CS 11800 025 V1	25	0.98	155	6.10	130	5.12			17481	39298	602	36.7	7.19	15.85
CS 11800 032 V1	32	1.26	187	7.36	155	6.10			17032	38289	815	49.7	8.01	17.66
CS 11800 040 V1	40	1.57	220	8.66	180	7.09			16947	38098	1030	62.9	8.86	19.53
CS 11800 050 V1	50	1.97	260	10.24	210	8.27			16937	38075	1290	78.7	9.88	21.78
CS 11800 065 V1	65	2.56	320	12.60	255	10.04			16927	38054	1679	102.5	11.41	25.15

TECHNICAL DATA														
Fluid	N ₂		Pmin Pmax	20 bar 150 bar		290 psi 2175 psi		Charging Adapter	18 CG 1-Q					
Smax	< 90%		Tmin Tmax	20°C / 68°F		80°C / 176°F		Connection	X					
Vmax	0,5 m/s		Force variation by temperature	$\pm 0,3\%$ / °C				Seal Kit	S-XXXXXXX					

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

MOUNTING OPTIONS					
	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
					
HOW TO ORDER		A34-120  583		A19-120  586	

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.

PC Protective Cover



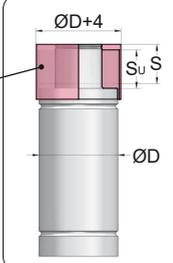

HOW TO ORDER

CS 11800 050 V1 80 120 50

CS 11800 050 V1 + PC 080 120 050



Protective Cover




The body diameter (ØD) increases to the size of (ØPC).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile



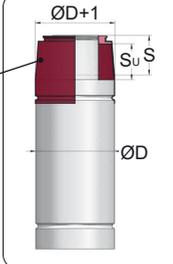

HOW TO ORDER

CS 11800 050 V1 80 120 50

CS 11800 050 V1 + PT 080 120 050



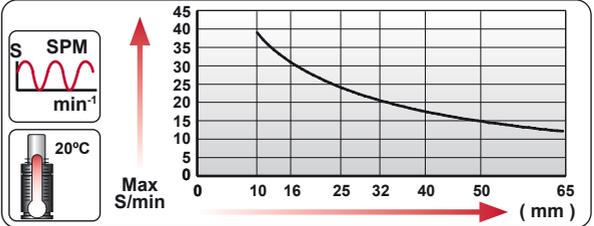
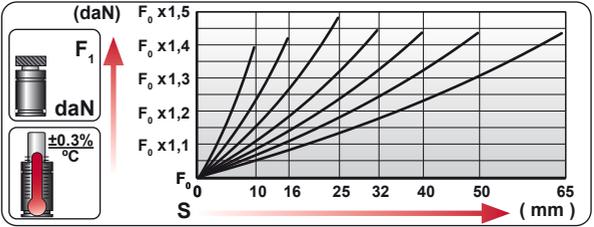
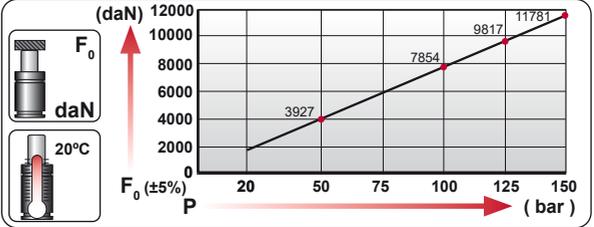
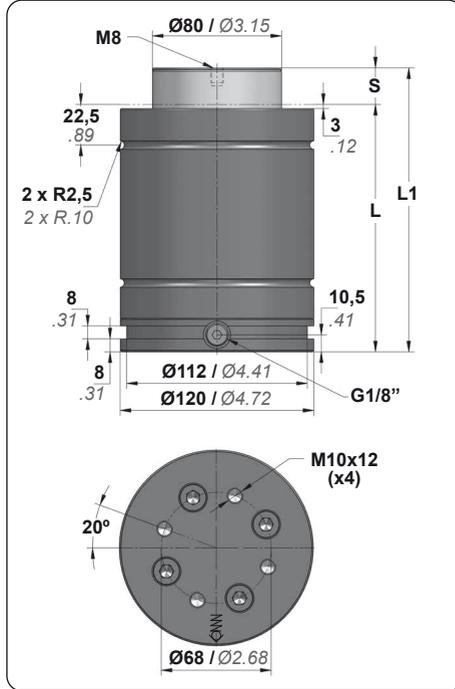
Protective Textile




The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.

CS-KV 11800 V1

Power Short Stroke



VDI SAFETY



STANDARS



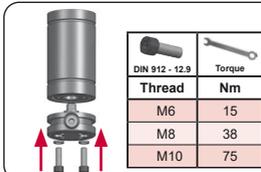
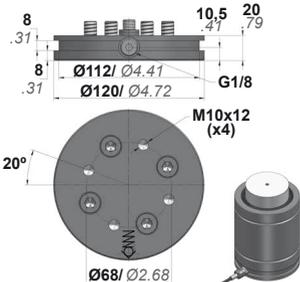
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Kg. lb	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KV 11800 010 V1	10	0.39	120	4.72	110	4.33	11780 ±5% 150 bar 2175 psi at 20°C 68°F	26482	17105	38454	252	15.4	7.42	16.36
CS-KV 11800 016 V1	16	0.63	146	5.75	130	5.12			16748	37651	424	25.9	8.08	17.81
CS-KV 11800 025 V1	25	0.98	175	6.89	150	5.91			17481	39299	602	36.7	8.81	19.42
CS-KV 11800 032 V1	32	1.26	207	8.15	175	6.89			17032	38289	815	49.7	9.64	21.25
CS-KV 11800 040 V1	40	1.57	240	9.45	200	7.87			16947	38098	1030	62.9	10.48	23.10
CS-KV 11800 050 V1	50	1.97	280	11.02	230	9.06			16937	38076	1290	78.7	11.50	25.35
CS-KV 11800 065 V1	65	2.56	340	13.39	275	10.83			16927	38053	1679	102.5	13.04	28.75

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar 290 psi 20°C / 68°F	150 bar 2175 psi	Charging Adapter	18 CG 1-Q
Smax	< 90%	Tmin Tmax	0°C 32°F	80°C 176°F	Connection	CS-KV-H 11800 XXX V1
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX

BASE PLATE OPTION

KV 11800



Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate can be equipped with filling valve, when fitted to a gas spring CS (CS-KV) remove the filling valve from the gas spring.
If order CS-KV as a self-contained it is delivered charged (with filling valve).
If order CS-KV-H as ready to be holed it is delivered unfilled (without filling valve).

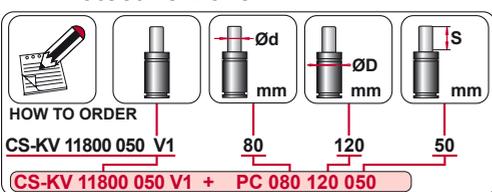
MOUNTING OPTIONS

	Drop-in	Top Mount	Base Mount	Foot Mount	Support Mount
HOW TO ORDER				C20-120	

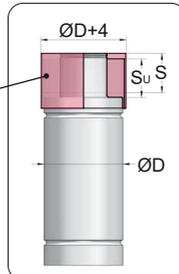
PROTECTION OPTIONS

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.

PC Protective Cover

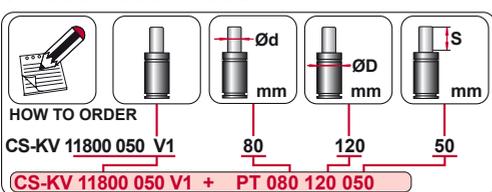


Protective Cover

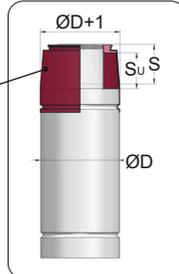


The body diameter (ØD) increases to the size of (ØPC).
PC can be used with mounts C, but not with mounts type A.

PT Protective Textile



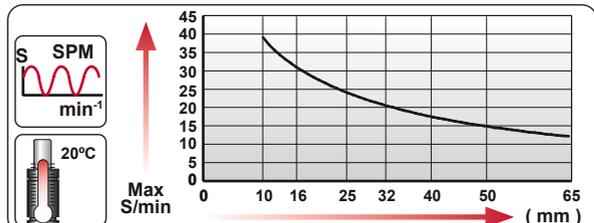
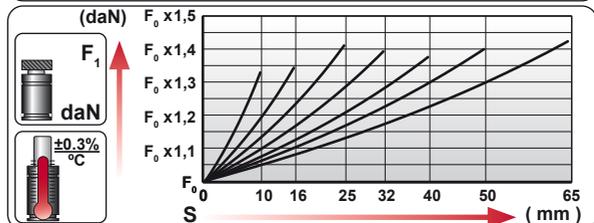
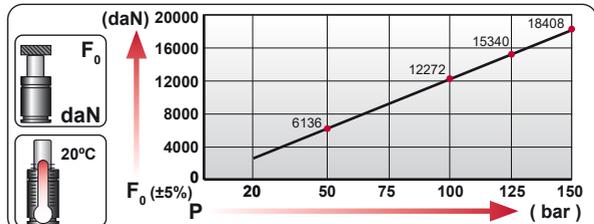
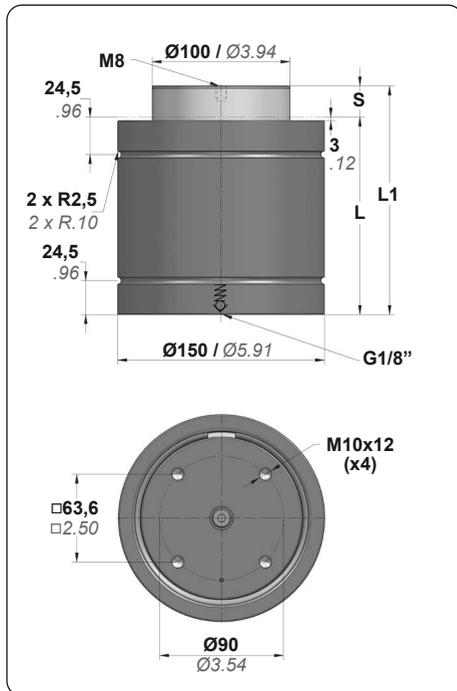
Protective Textile



The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.

CS 18300 V1

Power Short Stroke



VDI SAFETY



STANDARS



ORDER	S		L1 $\pm 0,25$		L		F_0 Initial Force		F_1 (ISOTHERMAL) End Force		Vol.			
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS 18300 010 V1	10	0.39	110	4.33	100	3.94	18410 $\pm 5\%$ 150 bar 2175 psi at 20°C 68°F	41387	24499	55077	494	30.1	9.69	21.36
CS 18300 016 V1	16	0.63	136	5.35	120	4.72			24759	55661	766	46.7	10.70	23.59
CS 18300 025 V1	25	0.98	165	6.50	140	5.51			26001	58452	1051	64.1	11.79	25.99
CS 18300 032 V1	32	1.26	197	7.76	165	6.50			25669	57707	1389	84.7	13.04	28.75
CS 18300 040 V1	40	1.57	235	9.25	195	7.68			25355	57000	1792	109.4	14.53	32.03
CS 18300 050 V1	50	1.97	270	10.63	220	8.66			25796	57991	2143	130.8	15.86	34.96
CS 18300 065 V1	65	2.56	323	12.72	258	10.16			26230	58966	2676	163.3	17.87	39.40

TECHNICAL DATA

Fluid	N_2	Pmin Pmax 20°C / 68°F	20 bar 150 bar 290 psi 2175 psi	Tmin Tmax 0°C / 80°C 32°F / 176°F	Charging Adapter	18 CG 1-Q
Smax	< 90%	Force variation by temperature	$\pm 0,3\%$ / °C	Connection	X	
Vmax	0,5 m/s			Seal Kit	S-XXXXXXX	

MODEL	CW 9500 CW 11800 KT 9500		GN 7500 CM 10000 CD 9600	AG 7500			CS 18300

MOUNTING OPTIONS

	Drop-in 	Top Mount 	Base Mount 	Foot Mount 	Support Mount
HOW TO ORDER		A34-150		A19-150	

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.

PT Protective Textile

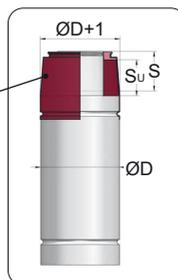
HOW TO ORDER

CS 18300 050 V1 100 150 50

CS 18300 050 V1 + PT 100 150 050



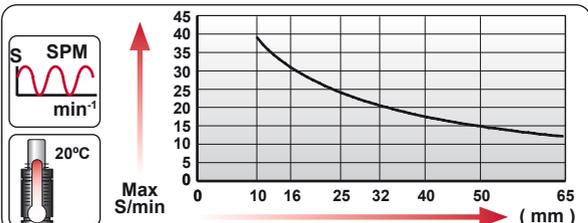
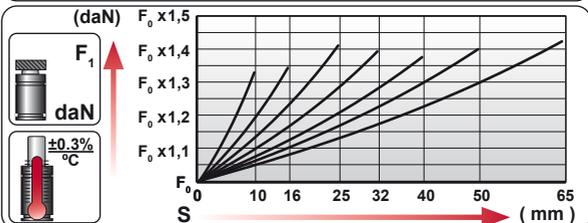
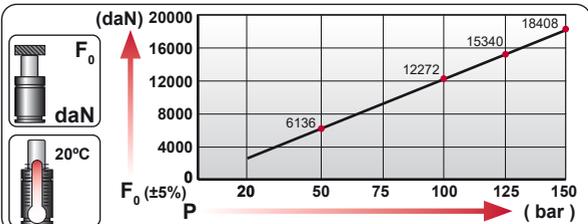
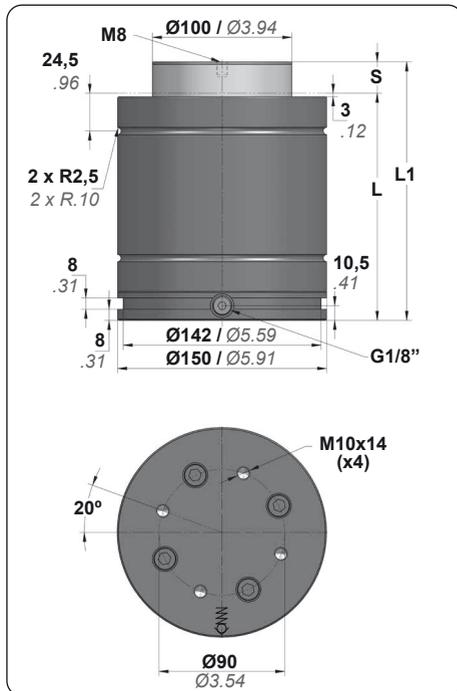
Protective Textile



The body diameter (ØD) increases to the size of (ØPT). PT can be used with mounts C, but not with mounts type A.

CS-KV 18300 V1

Power Short Stroke



VDI SAFETY



STANDARS



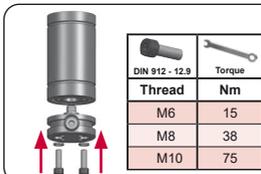
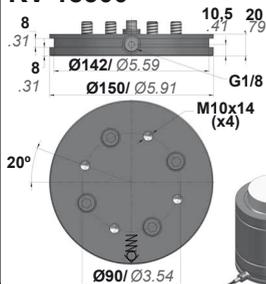
ORDER	S		L1 ±0.25		L		F ₀ Initial Force		F ₁ (ISOTHERMAL) End Force		Vol.		Weight	
	mm	inch	mm	inch	mm	inch	daN	lb	daN	lb	cm ³	in ³	Kg.	lb
CS-KV 18300 010 V1	10	0.39	130	5.12	120	4.72	18410 ±5% 150 bar 2175 psi at 20°C 68°F	41387	24499	55076	494	30.1	12.27	27.05
CS-KV 18300 016 V1	16	0.63	156	6.14	140	5.51			24759	55660	766	46.7	13.28	29.28
CS-KV 18300 025 V1	25	0.98	185	7.28	160	6.30			26001	58453	1051	64.1	14.37	31.68
CS-KV 18300 032 V1	32	1.26	217	8.54	185	7.28			25669	57706	1389	84.8	15.61	34.41
CS-KV 18300 040 V1	40	1.57	255	10.04	215	8.46			25355	57000	1792	109.4	17.10	37.70
CS-KV 18300 050 V1	50	1.97	290	11.42	240	9.45			25796	57992	2143	130.8	18.43	40.63
CS-KV 18300 065 V1	65	2.56	343	13.50	278	10.94			26230	58967	2676	163.3	20.45	45.08

TECHNICAL DATA

Fluid	N ₂	Pmin Pmax	20 bar 290 psi	150 bar 2175 psi	Charging Adapter	18 CG 1-Q
Smax	< 90%	Tmin Tmax	0 °C 32 °F	80 °C 176 °F	Connection	CS-KV-H 18300 XXX V1
Vmax	0,5 m/s	Force variation by temperature	±0,3% / °C		Seal Kit	S-XXXXXXX

BASE PLATE OPTION

KV 18300



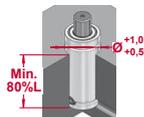
Thread the KC-KV adapter base plate to the CS gas spring by using the adequate screws and torque.

Adapter base-plate can be equipped with filling valve, when fitted to a gas spring CS (CS-KV) remove the filling valve from the gas spring.
If order CS-KV as a self-contained it is delivered charged (with filling valve).
If order CS-KV-H as ready to be holed it is delivered unfilled (without filling valve).

MOUNTING OPTIONS



Drop-in



Top Mount



Base Mount



Foot Mount



Support Mount



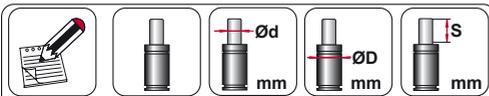
HOW TO ORDER

C20-150 599

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.

PT Protective Textile

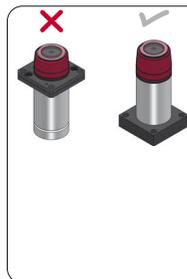
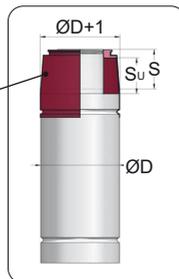


HOW TO ORDER

CS-KV 18300 050 V1 **100** **150** **50**
CS-KV 18300 050 V1 + PT 100 150 050



Protective Textile



The body diameter (ØD) increases to the size of (ØPT).
PT can be used with mounts C, but not with mounts type A.